Oracle® Banking Platform

Administrator Guide Release 2.7.1.1.0 F33669-01

September 2020



Oracle Banking Platform Administrator Guide, Release 2.7.1.1.0

F33669-01

Copyright © 2011, 2020 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

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

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

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

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

Contents

Preface	21
Audience	21
Documentation Accessibility	21
Organization of the Guide	21
Related Documents	22
Conventions	23
1 Users Administration	25
1.1 Creating Users in Oracle Identity Manager (OIM)	25
1.2 Creating Roles in Oracle Identity Manager (OIM)	29
1.3 Assigning Roles to Users in OIM	33
1.4 Locking Users in OIM	37
1.5 Unlocking Users in OIM	39
1.6 Resetting User Password in OIM	40
1.7 User Management Using the Admin Application	44
1.8 Unlocking Users in Oracle WebLogic Server (OWS) Administration Console .	51
1.9 Creation of first time user to access OBP	56
2 Approvals Management	61
2.1 Discretionary Pricing Assessment (DPA)	61
2.1.1 Setup Details	61
2.1.1.1 Policy Setup in UI	62
2.1.1.2 SOA Composer Rules Setup	67
2.1.1.3 SMS Setup	78
2.1.2 Performing the Transaction	81
2.2 Discretionary Credit Assessment (DCA)	85

2.2.1 Setup Details	86
2.2.1.1 Policy Setup in UI	
2.2.1.2 SOA Composer Rules Setup	
2.2.1.3 SMS Setup	
2.2.2 Performing the Transaction	
2.3 Enabling Worklist Authorization	
2.4 BPM Routing Rules Setup	
3 Defining Task Configuration Rules	
3.1 Important Rule Artifacts	121
3.1.1 Rules Dictionary	121
3.1.2 Decision Function	
3.1.3 Rulesets	123
3.2 Inputs to Decision Function	123
3.2.1 Custom Input Attributes	
3.3 Output from Decision Function	125
3.3.1 List of Configurable Attributes in Rule Outcome	126
3.3.2 List of Functions to Set Rule Outcome	128
4 Data Management	
4.1 Batch Execution	
4.1.1 Database Backup	133
4.1.2 Navigate to End of Day Page	133
4.1.3 Cutoff Category Execution	134
4.1.4 End of Day (EOD) Category Execution	136
4.1.5 Internal System EOD Category Execution	138
4.1.6 Beginning of Day (BOD) Category Execution	141
4.1.7 Housekeeping Category Execution	143

4.1.8 Alert Generation Category Execution	145
4.2 Batch Exception Recovery	147
5 Setting Up The Bank And Branch	151
5.1 Common Services Day 0 Setup	
5.1.1 Core Maintenances	151
5.1.1.1 Head Office Setup	152
5.1.2 Currency Maintenances	152
5.1.3 Calendar Maintenances	152
5.2 Accounting Day 0 Setup	153
5.3 Product Manufacturing Day 0 Setup	154
6 Setting Up Sales Offer Handoff	157
6.1 Day Zero Setup (Configuration)	157
6.1.1 Changes to be done in OBP	157
6.1.2 Changes to be done in ODI	158
7 Setting Up Product	
7.1 Creating New Product	175
8 Setting Up Channels	
8.1 Channel Setup	181
8.2 Front End Processing Interface (FEPI)	
8.2.1 Installation	
8.2.2 ATM And POS Trace Logs	
8.2.3 module.channel or cz.module.channel enabling of logs	
8.2.4 Multiple Instances	
9 Application Monitoring Using Administration Application	
9.1 Dynamic Monitoring Service (DMS)	
9.1.1 Usage	

9.1.2 Monitoring Application using the OPA001 page	186
9.1.2.1 Monitoring Application Performance (Fast path: OPA001)	186
9.1.2.1.1 Application Performance Summary	186
9.1.2.1.2 Log Level	187
9.1.2.1.3 Application Performance	187
9.2 Batch Performance Monitoring	192
9.2.1 Use Cases	192
9.2.2 Monitoring Batch Performance Using OPA003 page	194
9.2.2.1 Monitor Batch Performance (Fast path: OPA003)	194
9.2.3 Histogram of Shell Attribute Comparison	203
9.3 ODI Batch Handoff Monitoring	203
10 Application Monitoring Using EM Plugin	207
10.1 Monitoring Application Using EM Plugin	207
10.1.1 Oracle Enterprise Manager (EM)	207
10.1.2 UI	208
10.1.3 Host	210
10.1.4 SOA	212
10.1.5 Security Stack (OID and OAM)	212
10.1.6 Document Generation Outbound Components (Documaker, Oracle Analytics Publisher, IPM)	213
10.1.7 ATM and POS (Point Of Sales) Channels	214
10.1.8 Outbound OFSAA call	214
10.1.9 Monitoring Views	214
10.1.9.1 Batch Monitoring	215
10.1.9.2 Application Monitoring	217
10.1.9.2.1 Application Services	217
10.1.9.2.2 User Interface	219

10.1.9.2.3 Origination User Interface	
10.1.9.2.4 Integration	223
11 Configuration Export-Import Operations	
11.1 Objective	
11.2 Export	
11.3 Import	227
11.4 Export All	227
11.5 Import All	
11.6 Config Compare	
11.7 Data Store Configuration	231
11.7.1 DB Data Store	
11.7.2 File Data Store	231
11.7.2.1 Configuration for Export	
11.7.2.2 Configuration for Import	232
11.8 How to Export Records	232
11.8.1 Exporting Single Record	
11.8.2 Exporting All Records	
11.9 How to Import Records	
11.9.1 Importing Single Record	242
11.9.1.1 Using API Client	242
11.9.2 Importing All Records	244
11.10 Configuration Comparison	246
11.10.1 Compare Business Configuration (Fast Path: OPA005)	246
11.10.2 Usage	247
11.11 Application Configuration	249
11.11.1 Cache Configuration	249

12 Batch Shells in OBP	
12.1 Batch Shells Description	251
12.2 Batch Shells Execution Sequence	
13 Information Lifecycle Management (ILM)	
13.1 Configuration	
13.2 Installation	
13.2.1 Prepare Scripts	
13.2.2 Create Tablespace	
13.2.3 Create Partition Script	
13.2.4 Run Partition Script	
13.2.5 Create and Register ADO Policies based on Lifecycle Pattern	
13.2.6 Verify Registered ADO Policies	
13.3 Policy Execution	
14 Transparent Data Encryption (TDE)	
14 Transparent Data Encryption (TDE) 14.1 Configuration	
14.1 Configuration	298 298
14.1 Configuration	298 298 299
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 14.2.3 Edit sqlnet.ora file 	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 14.2.3 Edit sqlnet.ora file 14.2.4 Run Created Alter Script 	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 14.2.3 Edit sqlnet.ora file 14.2.4 Run Created Alter Script 15 Masking Customer Private Data 	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 14.2.3 Edit sqlnet.ora file 14.2.4 Run Created Alter Script 15 Masking Customer Private Data 15.1 Configuration	
 14.1 Configuration 14.2 Installation 14.2.1 Prepare Scripts to Encrypt Sensitive Data 14.2.2 Create TDE Keystore 14.2.3 Edit sqlnet.ora file 14.2.4 Run Created Alter Script 15 Masking Customer Private Data 15.1 Configuration 15.2 Installation	

16 Configure ODI for Inbound Document Upload	. 306
17 Additional Recommendations	.310
17.1 SOA Related	.310
17.1.1 Enable Auto Purge Job	. 310
17.1.2 Enable Lazy Loading	.310
17.2 BPM Worklist Related	311
17.2.1 Disable Claim Action from Task Details Page	. 311
17.2.2 Always Open Human Task Details in External Window	.312

List of Figures

Figure 1–1 Creating Users in OIM - Log in	25
Figure 1–2 Creating Users in OIM - Manage Section	26
Figure 1–3 Creating Users in OIM - Click Create	27
Figure 1–4 Creating Users in OIM - Enter User Details	
Figure 1–5 Enter User Details (Continued)	29
Figure 1–6 Creating Roles in OIM - Manage Section	30
Figure 1–7 Creating Roles in OIM - Click Create	31
Figure 1–8 Creating Roles in OIM - Enter Role Details	
Figure 1–9 Creating Roles in OIM - Role Created Successfully	33
Figure 1–10 Assigning Roles in OIM - Requesting Roles	34
Figure 1–11 Assigning Roles in OIM - Adding to Cart	35
Figure 1–12 Assigning Roles in OIM - Checkout Cart	36
Figure 1–13 Assigning Roles in OIM - Submit Cart	37
Figure 1–14 Locking Users in OIM	
Figure 1–15 User Locked Successfully	39
Figure 1–16 Unlocking Users in OIM	40
Figure 1–17 Resetting User Password in OIM	41
Figure 1–18 Resetting User Password in OIM - Manually or Auto-generate	42
Figure 1–19 Resetting User Password in OIM - New Password	43
Figure 1–20 Password Reset Successfully	44
Figure 1–21 Adding a User	45
Figure 1–22 Enter Mandatory Details	46
Figure 1–23 Applying Changes	47
Figure 1–24 Adding User to a Group	48

Figure 1–25 Available and Assigned Roles	49
Figure 1–26 Adding User to Assigned Roles Table	
Figure 1–27 Save Changes	51
Figure 1–28 OWS Log in	52
Figure 1–29 base_domain	53
Figure 1–30 Security tab	
Figure 1–31 Unlock User	
Figure 1–32 User Successfully Unlocked	56
Figure 1–33 Log in Oracle Fusion Middleware Control	57
Figure 1–34 Click Application Roles	58
Figure 1–35 Select Administrators Role	
Figure 1–36 Add Principal	59
Figure 2–1 Log in to OBP UI to Configure Policies	62
Figure 2–2 Search for SM502 in Fast Path	63
Figure 2–3 Policy Management	64
Figure 2–4 Enter Service for Policy Definition	64
Figure 2–5 Effect of the Policy	65
Figure 2–6 Action of the Policy	66
Figure 2–7 Conditions of the Policy	67
Figure 2–8 Log in to SOA Composer	68
Figure 2–9 Find the Rules for Service	69
Figure 2–10 Filter Rules	70
Figure 2–11 Searching Specific Process	71
Figure 2–12 Creating the Rule	72
Figure 2–13 Selecting Rules File	73
Figure 2–14 Adding Attributes to the Rule File	74

Figure 2–15 Adding Attributes to the Rule File	75
Figure 2–16 Validating Rules File	76
Figure 2–17 Saving Rules File	77
Figure 2–18 Publishing Rules File	78
Figure 2–19 Search for Service Using Entire Service Name	79
Figure 2–20 Select the Service to be Configured	80
Figure 2–21 Severity Tab - Add Severity	81
Figure 2–22 Initiating Transaction	82
Figure 2–23 Fee Negotiation	82
Figure 2–24 Log in to Approval Worklist	83
Figure 2–25 Approve or Reject Work item	84
Figure 2–26 Viewing Status of Work item	85
Figure 2–27 Log in to OBP UI to Configure Policies	87
Figure 2–28 Search for SM502 in Fast Path	88
Figure 2–29 Policy Management	89
Figure 2–30 Enter Service for Policy Definition	90
Figure 2–31 Effect of the Policy	91
Figure 2–32 Action of the Policy	92
Figure 2–33 Conditions of the Policy	93
Figure 2–34 Search for Service Using Entire Service Name	94
Figure 2–35 Select the Service to be Configured	95
Figure 2–36 Approval Checks tab - MATRIX_AUTH	96
Figure 2–37 Initiating Origination Task Flow	97
Figure 2–38 Approving the Task	98
Figure 2–39 Select the Service to be Configured	99
Figure 2–40 Search for Service using TASK CODE + Search text (in case of non Origination)	100

Figure 2–41 Approval Checks tab - Add Approval Checks	101
Figure 2–42 Dual Control	
Figure 2–43 Add New Severity	
Figure 2–44 Save Severity Details	104
Figure 2–45 Update Severity and Save	105
Figure 2–46 Worklist App - Administration Link	106
Figure 2–47 Task Configuration	
Figure 2–48 Search Task Types	
Figure 2–49 Task Editing	109
Figure 2–50 Configuring Rules - Edit Icon	110
Figure 2–51 Configuring Rules - Rules tab	111
Figure 2–52 Expand Rule	112
Figure 2–53 Advanced Settings	113
Figure 2–54 Rule Expansion	114
Figure 2–55 Enabling Rule	115
Figure 2–56 Adding New Row of Condition	
Figure 2–57 Expanding Payload	117
Figure 2–58 Selecting Fact	118
Figure 2–59 Updating Fact Value	119
Figure 2–60 Select Approver Group	
Figure 3–1 SOA Composer - Open Rules Dictionary Browser	
Figure 3–2 SOA Composer – Selecting Rules Dictionary	
Figure 3–3 SOA Composer – Selecting Decision Function	
Figure 3–4 SOA Composer - Adding Rulesets to Decision Function	123
Figure 3–5 SOA Composer - Viewing a ruleset	123
Figure 3–6 SOA Composer - Viewing inputs to a Decision Function	124

Figure 3–7 SOA Composer – Example Usage of Custom Attributes	125
Figure 3–8 SOA Composer – Viewing Output of a Decision Function	125
Figure 3–9 SOA Composer – Example for adding Stage Participant	
Figure 3–10 SOA Composer – Example usage of custom attributes	128
Figure 4–1 End of Day (Fast path:EOD10)	134
Figure 4–2 Cutoff Category - Not Started	135
Figure 4–3 Cutoff Category - Start	135
Figure 4–4 Cutoff Category - Complete	136
Figure 4–5 EOD Category - Not Started	137
Figure 4–6 EOD Category - Start	137
Figure 4–7 EOD Category - In Progress	138
Figure 4–8 EOD Category - Complete	138
Figure 4–9 Internal System EOD Category - Not Started	139
Figure 4–10 Internal System EOD Category - Start	140
Figure 4–11 Internal System EOD Category - In Progress	140
Figure 4–12 Internal System EOD Category - Complete	141
Figure 4–13 BOD Category - Not Started	142
Figure 4–14 BOD Category - Started	142
Figure 4–15 BOD Category - In Progress	143
Figure 4–16 BOD Category - Completed	143
Figure 4–17 Housekeeping Category - Not Started	144
Figure 4–18 Housekeeping Category - In Progress	145
Figure 4–19 Housekeeping Category - Completed	145
Figure 4–20 Alert Generation Category - Not Started	146
Figure 4–21 Alert Generation Category - In Progress	147
Figure 4–22 Exception Details	148

Figure 4–23 Exception Record Details	149
Figure 4–24 Exception record in Worklist application	
Figure 6–1 Repository Connection Information	159
Figure 6–2 Physical Architecture - New Data Server	160
Figure 6–3 Data Server - Definition	161
Figure 6–4 Data Server - JDBC	161
Figure 6–5 Create New Target Data Server	
Figure 6–6 New Physical Schema	162
Figure 6–7 Physical Schema - Definition	
Figure 6–8 Physical Schema - Target Data Server	164
Figure 6–9 Physical Schema List	
Figure 6–10 Logical Architecture - New Logical Schema	165
Figure 6–11 Logical Schema - Definition	
Figure 6–12 Physical Schema - Set Context	
Figure 6–13 New Model	
Figure 6–14 OBP_SRC Model - Definition	167
Figure 6–15 OBP_SRC Model - Reverse Engineer	
Figure 6–16 OBI_DEMO_TARGET Model - Definition	
Figure 6–17 OBI_DEMO_TARGET Model - Reverse Engineer	
Figure 6–18 Click Reverse Engineer	
Figure 6–19 OBP_SRC DB Tables	
Figure 6–20 OBI_DEMO_TARGET DB Tables	170
Figure 6–21 New Variable	170
Figure 6–22 Variable - Definition	171
Figure 6–23 Variable - Refreshing	171
Figure 6–24 Project Settings	172

Figure 6–25 PKG_PM_SALES_OFFER_STG	
Figure 6–26 PKG_PM_SALES_OFFER_STG Properties	174
Figure 6–27 Export the .csv File	
Figure 7–1 Log on to UCM	175
Figure 7–2 Sitemap	
Figure 7–3 Administration - Product	
Figure 7–4 Products View	
Figure 7–5 Product List	
Figure 7–6 Product Activities	
Figure 7–7 More Info - Select Category	
Figure 7–8 More Info - Select Type	
Figure 8–1 Transaction Message Flows	
Figure 9–1 Developers	
Figure 9–2 IT Technical Staff	
Figure 9–3 Monitoring Application Performance	
Figure 9–4 Application Performance Summary	
Figure 9–5 Log Level	
Figure 9–6 Alert State	
Figure 9–7 Select Task Code	
Figure 9–8 Selection of Desired Transaction	
Figure 9–9 Transaction Details	
Figure 9–10 Transaction Metrics	
Figure 9–11 Alert and Trend Details	
Figure 9–12 Failure Events	
Figure 9–13 Developers	
Figure 9–14 IT Technical Staff	

Figure 9–15 IT Technical Staff - Monitor Batch Stats	193
Figure 9–16 Batch Performance Monitoring	194
Figure 9–17 Batch Performance Monitoring - Shell Details	194
Figure 9–18 Batch Performance Monitoring - Relative Performance Summary	195
Figure 9–19 Shell Details	197
Figure 9–20 Shell Details - DDA Standing Instructions	197
Figure 9–21 View of Batch Run	198
Figure 9–22 Stream Based Shells	199
Figure 9–23 Exception Log	199
Figure 9–24 Report Based Shells	200
Figure 9–25 Status of Report Based Shell	201
Figure 9–26 Exception Report	201
Figure 9–27 Sample Report	202
Figure 9–28 Exception Log Table	202
Figure 9–29 Graphs	203
Figure 9–30 Input Parameters for Batch Handoff	204
Figure 9–31 Execution Unit	205
Figure 9–32 Abort Statistics	205
Figure 9–33 Failure Error Description	206
Figure 10–1 Oracle Enterprise Manager	208
Figure 10–2 UI Cluster in EM	209
Figure 10–3 WebLogic Domain for UI	209
Figure 10–4 Metrics Chart	210
Figure 10–5 Host Cluster in EM	211
Figure 10–6 Host Target in EM	211
Figure 10–7 Metrics Chart	212

Figure 10–8 Viewing Process List	212
Figure 10–9 OID WebLogic Domain	213
Figure 10–10 Document Generation Status	213
Figure 10–11 Oracle Analytics Publisher Deployment	214
Figure 10–12 EM Monitoring	214
Figure 10–13 Web Monitoring	. 214
Figure 10–14 Database Server Info	215
Figure 10–15 Batch Monitoring Status	216
Figure 10–16 Batch Configuration	. 216
Figure 10–17 WebLogic Service Info	217
Figure 10–18 Application Metrics of Application Services for all servers in cluster	.218
Figure 10–19 Application Metrics of Application Services for selected server	. 218
Figure 10–20 Application Metric for all UI servers in cluster	220
Figure 10–21 Application Metrics of UI components for selected server	. 220
Figure 10–22 Application Metrics of Origination UI Components for all UI servers in cluster	222
Figure 10–23 Application Metrics of Origination UI components for selected server	222
Figure 10–24 Application Metrics of all outbound services called from all host ser ers in cluster	
Figure 10–25 Application Metrics of all outbound services called from selected server	224
Figure 11–1 File Data Store	232
Figure 11–2 Exported Data	241
Figure 11–3 Exported Files	242
Figure 11–4 Importing Data Using SOAP UI - Storing Response	. 246
Figure 11–5 Entity Comparison	. 247
Figure 11–6 Entity Comparison Results	247

Figure 11–7 Progress Bar	248
Figure 11–8 Comparison Details	248
Figure 11–9 Attributes Difference	249
Figure 13–1 Partition Script - SQL Statement	295
Figure 13–2 Utility Table Creation Script	296
Figure 13–3 Verify ADO Policies	297
Figure 16–1 Credentials	307
Figure 16–2 Example of premissions	307
Figure 16–3 Connection details	308
Figure 17–1 Auto Purge	310
Figure 17–2 Lazy Loading Settings	311
Figure 17–3 Claim Action	311
Figure 17–4 Enable External Window option	312

List of Tables

Table 2–1 List of Functions for Fee Configuration	61
Table 2–2 List of Functions for UDM Configuration	61
Table 2–3 Facts Required for the MCD Approvals	85
Table 9–1 Alert State	. 188
Table 9–2 Category Details	. 195
Table 9–3 Shell Details	196
Table 9–4 Stream Details	198
Table 9–5 Reports Table	200
Table 10–1 Notations in EM	207
Table 10–2 Details of the Application Metrics table of Application Services	218
Table 10–3 Details of the Application Metrics table of UI Components	220
Table 10–4 Details of the Application Metrics table of Origination UI Components	\$ 222
Table 10–5 Details of the Application Metrics table of all Outbound Services	224
Table 12–1 Batch Shell Descriptions	. 251
Table 12–2 Shell Execution Sequence	276
Table 13–1 Values for ILM Configuration	292
Table 14–1 TDE Configuration	298
Table 15–1 TDE Configuration	302

Preface

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

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

This preface contains the following topics:

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

Audience

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

Documentation Accessibility

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

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

Access to Oracle Support

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

Organization of the Guide

This document contains:

Chapter 1 Users Administration

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

Chapter 2 Approvals Management

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

Chapter 3 Defining Task Configuration Rules

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

Chapter 4 Data Management

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

Chapter 5 Setting Up The Bank And Branch

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

Chapter 6 Setting Up Sales Offer Handoff

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

Chapter 7 Setting Up Product

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

Chapter 8 Setting Up Channels

This chapter describes the process of setting up the channels.

Chapter 9 Application Monitoring Using Administration Application

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

Chapter 10 Application Monitoring Using EM Plugin

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

Chapter 11 Configuration Export-Import Operations

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

Chapter 12 Batch Shells in OBP

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

Chapter 13 Information Lifecycle Management (ILM)

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

Chapter 14 Transparent Data Encryption (TDE)

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

Chapter 15 Masking Customer Private Data

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

Chapter 16 Configure ODI for Inbound Document Upload

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

Chapter 17 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

Related Documents

For more information, see the following documentation:

- For installation and configuration information, see the Oracle Banking Platform Localization Installation Guide Silent Installation guide.
- For a comprehensive overview of security for Oracle Banking, see the Oracle Banking Platform Security Guide.
- For the complete list of Oracle Banking licensed products and the Third Party licenses included with the license, see the Oracle Banking Platform Licensing Guide.
- For information related to customization and extension of Oracle Banking, see the Oracle Banking Platform Extensibility Guide for Host, SOA, and UI.
- For information on the functionality and features of the Oracle Banking product licenses, see the respective Oracle Banking Platform Functional Overview documents.
- For recommendations of secure usage of extensible components, see the Oracle Banking Platform Secure Development Guide.

Conventions

The following text conventions are used in this document:

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

1 Users Administration

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

1.1 Creating Users in Oracle Identity Manager (OIM)

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

To create users in OIM:

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

Figure 1–1 Creating Users in OIM - Log in

ORACLE ^{, Ide}						
	Sign In	Sign in with your account User ID xelsysadm Password Sign in Forgot User Login? Forgot Password? New User Registration Track My Registration				
	r its affiliates. All rights re	served				

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

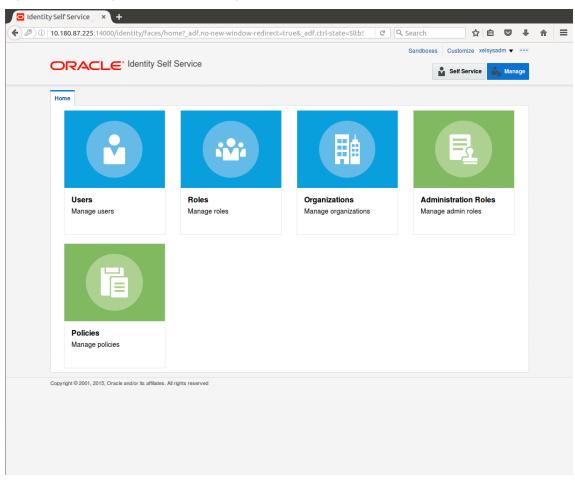


Figure 1–2 Creating Users in OIM - Manage Section

- 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.

		lentity/faces/hom	adino new				C Q Search Sandboxes		svsadm 🔻 🗉
		 Identity Self S 	Service				Gundboxe		
								Self Service	🎝 Manag
Home	Users ×								
🔓 U:	sers								
Search	Display Name	•	Q Ad	vanced					
Action	ns 🔻 View 💌	+ Create / Op	en 🗘 Refresh	🖙 🔛 Deta	ach				
	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
	WEDEOGIO								
opyright (XELSYSADM	System Adminis	-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xelierate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
lopyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	
opyright (XELSYSADM		-	Administrator	Xellerate Users		donotreply@ora	Active	

Figure 1–3 Creating Users in OIM - Click Create

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

ntity Self Service ×							
i) 10.180.87.225 :1400	00/identity/faces/home?_adf.no-new-window-	redirect=true&_adf.ctr	l-state=ry1k C	Q Search	☆ 自 ♥	↓ 俞	-
	E* Identity Self Service			Sandboxes Custo	mize xelsysadm 🔻 🚥		
				Self :	Service 🎝 Manage		
Home Users x C	create User ×						
Create User				Submit Sav	e As 🔻 Cancel		
▲ Request Info	ormation						
Effective Date	ΰõ						
Justification							
▲ Basic Informat	tion						
First Name Cla		Manager			0,		
Middle Name		* Organization	Xellerate Users		0		
* Last Name Ke	int	* User Type	Other				
E-mail		Display Name					
Account Settin	ngs						
User Login							
Password * Confirm Password		0					
Account Effec							
Start Date	i e						
End Date	tio						
▲ Provisionina I							

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

0.180.87.225.14000/1021111	.y/races/nome:_adr.no-new-wr	indow-redirect=true&_adf.ctrl-st	ate=ry1kı ♥ C Q Search	☆ 🖻 💟	1
* Confirm Password					
Account Effective Date	IS				
Start Date	1.				
End Date	Ċ.				
Provisioning Dates					
Provisioning Date	to				
Deprovisioning Date	te				
Contact Information					
Telephone Number		Postal Address			
Home Phone		Postal Code			
Fax		PO Box			
Mobile		State			
Pager		Street			
Home Postal Address		Country			
Preferences					
Locale	+				
Timezone					
Other Attributes					
Common Name		Locality Name			
Department Number		Initials			
Employee Number		Title			
Generation Qualifier					
Hire Date	Ċo				

Figure 1–5 Enter User Details (Continued)

6. Click Submit.

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

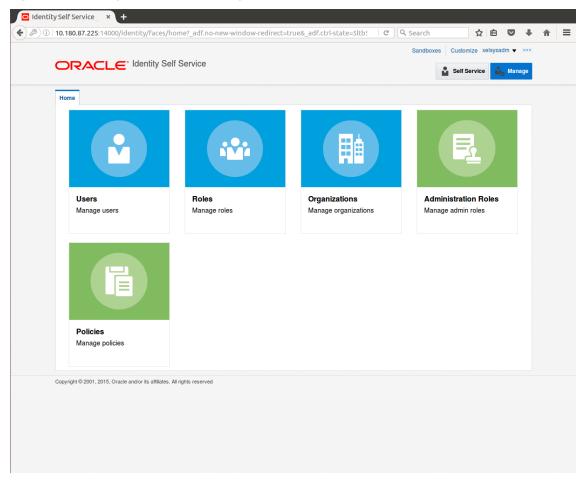
1.2 Creating Roles in Oracle Identity Manager (OIM)

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

To create roles in OIM:

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

Figure 1–6 Creating Roles in OIM - Manage Section



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

Home Roles x	
Search Name	- Q Advanced
Actions View V	+ Create / Open X Delete () Refresh 📴 🖺 Detach
Name	Role Description
🏜 ALL USERS	Default role for all users
Administrators	Administrators role for SOA
📸 BIReportAd	Administrators role for BI Publisher Reports
OPERATORS	Operator role
SELF OPER	Operator role for self registration
SYSTEM AD.	System Administrator role for OIM
opyright © 2001, 2015, Orac	le and/or its affiliates. All rights reserved

Figure 1–7 Creating Roles in OIM - Click Create

4. Fill the role details.

, ,,			ce eroca_concerts	state=5ltb! ~ C Q	Search	☆ 自 ♥
					Sandboxes Cu	stomize xelsysadm 🔻
ORACLE ^{® Ident}	ity Self Service				Se	elf Service 🎎 Mana
Home Roles × Create Role ×	٤					[
Create Role This wizard walks you through the	stops to croate a Polo					
Back						Cancel Next
Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	Cancel Next
	TestFullAccess					
Role E-mail						
	TestFullAccess					
Role E-mail	TestFullAccess					
Role E-mail Role Description	TestFullAccess	Q.				
Role E-mail Role Description	TestFullAccess	Q.				
Role E-mail Role Description * Owned By	TestFullAccess System Administrator					
Role E-mail Role Description * Owned By Catalog Attributes	TestFullAccess System Administrator Role					
Role E-mail Role Description * Owned By Catalog Attributes * Category	TestFullAccess System Administrator Role					

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 🔻 🗉
ORACLE [®]	lentity Self Service				Se	lf Service 🍂 Manag
						, i i i i i i i i i i i i i i i i i i i
Home Roles x Create Ro	ole x					
Create Role This wizard walks you through	the steps to create a Role.					
Back	0	0	0	0		Cancel Finish
Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	
Role E Role Descri	TestFullAccess					
	d By System Administrator	r				
Catalog Attribu	ites					
 Hierarchy Access Policy 						
Members						
 Organizations 						

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

1.3 Assigning Roles to Users in OIM

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

To assign a role to a user:

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

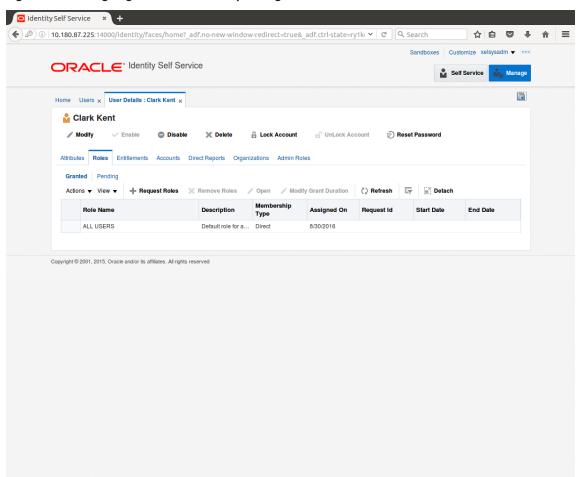


Figure 1–10 Assigning Roles in OIM - Requesting Roles

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

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

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

5. Click Checkout.

Back	O Cancel Next	
Add Access	Checkout	Cart 🛒 Clark Kent 🎦
ch and select individual items from the Catalog tab. Sets of pr	e-bundled items commonly used in your organization ca	n be selected from the Request Profiles tab.
alog Request Profiles	, , , ,	·
arch Keyword		
Search		
ategories Sort By Display Name	Add Selected	to Cart
Select All TestFullAccess TestFullAccess	0 + In	Cart
Role (1)		
2001, 2015, Oracle and/or its affiliates. All rights reserved		
© 2001 2015 Oracle and/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	er_outito new-v			=ry1kı CQ	Search Sandboxes Custon	hize xelsysadm ▼	+ 1
ORACL	C Identity Self S	ervice				Self S	ervice 🎎 Man	ige
Home Users x	User Details : Clark Kent 🗙	Role Access Req	uest ×				ĺ	
	Back	Add Access	Checkout	Cancel	Next		Clark Kent 🎦	
Cart Details						Submit	Save As ▼	
⊿ Request I	nformation							
Justification								
✓ Cart Items								
Display Name	estFullAccess						X 0	
	astFullAccess						ΧU	
Request Detai	Is TestFullAccess						Update	
Grant I	Duration							
	Grant will be effective	immediately upon r	request completion					
	Start Date	Ċ	End Date		5			

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.

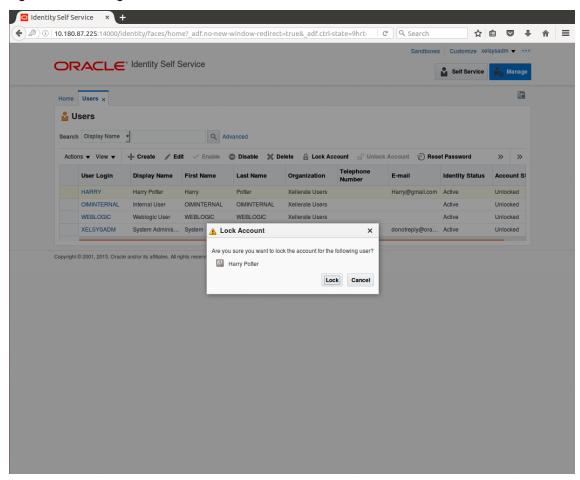


Figure 1–14 Locking Users in OIM

The user is locked successfully.

		Identity Self S	Service				Sandboxe		
	locked succes							Self Service	📩 Mana
Home Use	rs ×								(
🔓 Users	8								
Search Dis	play Name	•	Q Ad	lvanced					
		4							
Actions 🔻	r Login	Create Ed Display Name	it 🗸 Enable First Name	Disable X D Last Name	Organization	Count C Unio	E-mail	et Password	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
						Number			
HAR	INTERNAL	Harry Potter Internal User	Harry	Potter	Xellerate Users Xellerate Users		Harry@gmail.com	Active	Locked Unlocked
	BLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	SYSADM	System Adminis		Administrator	Xellerate Users		donotreply@ora		Unlocked
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rig	ghts reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All ri	ghts reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rij	ghts reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rij	ghts reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rij	ghts reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rij	this reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All rij	phis reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All ri	phis reserved						
ropyright © 2001	1, 2015, Oracle	and/or its affiliates. All ri	phis reserved						
opyright © 2001	1, 2015, Oracle	and/or its affiliates. All ri	phis reserved						
opyright © 2001	I, 2015, Oracle	and/or its affiliates. All ri	phts reserved						

Figure 1–15 User Locked Successfully

1.5 Unlocking Users in OIM

This section explains how to unlock the user in OIM.

To unlock a user:

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

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

3. Click Unlock.

count unlocked suc		Service						
count unicence suc							Self Service	🎝 Manage
Users ×								
sers								
		0.0	harmond a					
Display Name	1	Q Ad	lvanced					
ns 🔻 View 🔻	+ Create / Ed	lit 🗸 Enable	Disable X D	elete 🔒 Lock Ad	count 📄 Unio	ck Account 🐑 Res	et Password	» »
User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account St
HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked
OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
	Sers Display Name ns View V User Login HARRY OMINTERNAL WEBLOGIC XELSYSADM	SerS Display Name	SerS Display Name Create Edit Enable User Login Display Name First Name HARRY Harry Potter HARRY Harry Potter HARRY WEBLOGIC Weblogic User WEBLOGIC	SerS Display Name Create Edit Edit Edit Edit Edit Edit Edit Edit	SerS Display Name Create Edit Edit Enable Disable Corganization HARRY Harry Poter Harry Poter Xellerate Users OMINTERNAL Internal User OIMINTERNAL OIMINTERNAL Xellerate Users WEBLOGIC Weblogic User WEBLOGIC WEBLOGIC Xellerate Users XELSYSADM System Adminis System Administrator Xellerate Users	SerS Display Name Create Creat	SerS Display Name Advanced Isser Login Display Name First Name Last Name Organization Telephone E-mail HARRY Harry Potter Harry Potter Xellerate Users Harry@gmail.com OMINTERNAL Internal User OMINTERNAL OMINTERNAL OMINTERNAL Xellerate Users XELSYSADM System Adminis System Administrator Xellerate Users donotrepty@ora	SerS Display Name Create Creat

Figure 1–16 Unlocking Users in OIM

The user is unlocked successfully.

1.6 Resetting User Password in OIM

This section explains how to reset user password in OIM.

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

						Sandboxes	Customize xel	sysadm 👻	
DRACLE	Identity Self S	Service					Self Service	📩 Mana	ge
ome Users x								C	2
Users									
	1	0.1							
earch Display Name	<u> </u>	Q, A	ivanced						
Actions View	🕂 Create 🧪 Ed	it 🗸 Enable	ODisable X De	elete 🔒 Lock Ac	count 📄 Unloc	ck Account 🐑 Rese	et Password	» »	
User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account	51
HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked	
OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked	
WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked	
XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked	
	Actions View V Users X Actions View V User Login HARRY OININTERNAL WEBLOGIC XELSYSADM	Users × Users earch Display Name Juser Login	Actions View V Create Create Call Call Call Call Call Call Call Cal	Users × Users Users earch Display Name User Login Display Name HARRY Harry Potter HARRY Harry Potter OMINITERNAL Internal User OMINITERNAL OMINITERNAL WEBLOGIC Weblogic User XELSYSADM System Adminis	Users × Users Users earch Display Name View × + Create Earch Display Name User Login Display Name HARRY Harry HARRY Harry OMINITERNAL Internal User OMINITERNAL Internal User WEBLOGIC Weblogic User WEBLOGIC Weblogic User XELSYSADM System Adminis	Users × Users Users earch Display Name Image: Construction Image: Construction Actions ✓ View ✓ Image: Construction Image: Construction Image: Construction Viser Login Display Name First Name Last Name Image: Construction Construction HARRY Harry Potter Xellerate Users OMINTERNAL Internal User OMINTERNAL OMINTERNAL WEBLOGIC WeBLOGIC WEBLOGIC WeBLOGIC Xellerate Users Xellerate Users	Users x Users Users Users earch Display Name Image: Construction Image: Construction View v + Create Image: Construction Construction View v + Create Image: Construction Construction Image: Construction Display Name Image: Construction Construction Image: Construction Display Name Image: Construction Display Name Image: Construction Display Name Image: Construction Construction Image: Construction Construction Image: C	Wisers x Self Service Users x Visers Clipplay Name Advanced Actions v View v + Create Edit Enable Disable Advanced Unlock Account Unlock Account Internal User Identity Status HARRY Harry Potter Harry Potter Kellerate Users Harry@gmail.com Active OMINTERNAL Internal User OMINTERNAL OMINTERNAL Xellerate Users Active WEBLOGIC WEBLOGIC WEBLOGIC Xellerate Users donotreply@ora Active XeLSYSADM System Adminis System Administrator Xellerate Users donotreply@ora Active	Users x User Login Display Name First Name Last Name Organization Telephone Number HARRY Harry Potter Harry Potter Xellerate Users Harry@gmail.com Active Unlocked WEBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC WeBLOGIC Administrator Administrator Administrator Administrator Administrator

Figure 1–17 Resetting User Password in OIM

The **Reset Password** dialog box appears.

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

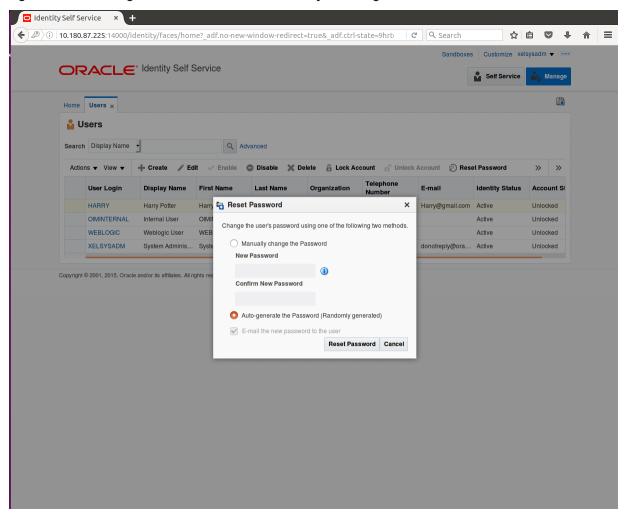


Figure 1–18 Resetting User Password in OIM - Manually or Auto-generate

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

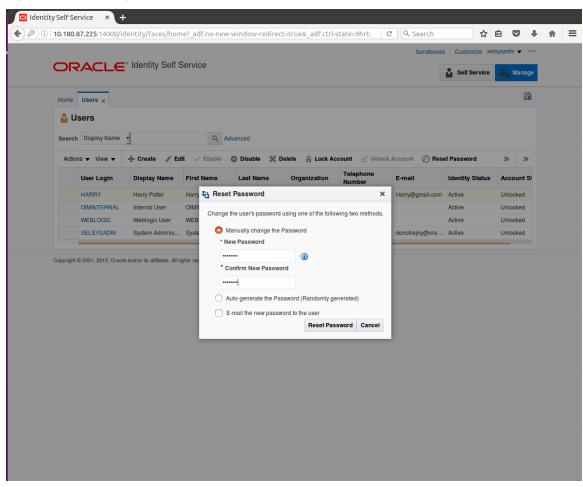


Figure 1–19 Resetting User Password in OIM - New Password

The user password is reset successfully.

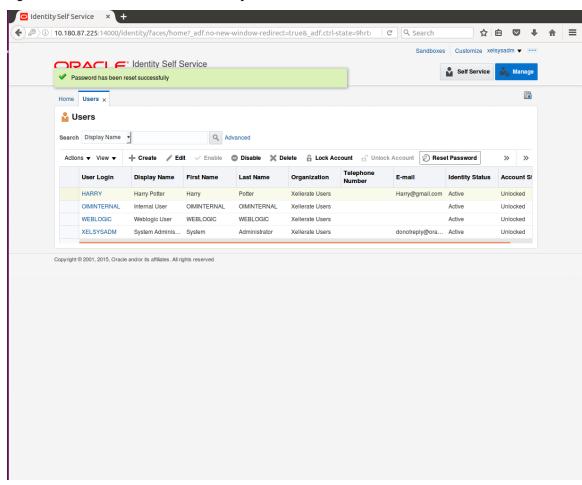


Figure 1–20 Password Reset Successfully

1.7 User Management Using the Admin Application

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

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

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

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

	s://10.180.84.177:										
		ng Date 15-Jan-201€	6			Fast Path		۹)	i) -	weblog	ic -
C <u>0</u> 1 ×											
ser Manage	ment						Print	~	D <u>k</u>	Clear	×
Search Fil	lter										
sername		→									
User Deta	ils									H	• >
sername	Target Unit										
	ragivenit	Branch	Delete								
⊌ User Deta		Branch	Delete	_			Edit A	pply ch	andes	Assian	Bole
l User Deta	ils Form						Edit A	pply cf	anges	Assign	n Role
(User Deta	ills Form Username	Preferre	ed Language	_			Edit A	pply cf	anges	Assign	n Role
User Deta	ils Form Username First Name	Preferre	ed Language Accrediation	_			Edit A	pply cł	anges	Assign	1 Role
í User Deta	ils Form Username First Name Last Name	Preferre	ed Language Accrediation Brand				Edit A	pply cł	anges	Assign	1 Role
í User Deta	ils Form Username First Name Last Name Email	Preferre	ed Language Accrediation Brand 2FA Status				Edit A	pplyct	anges	Assign	1 Role
	ilis Form Username First Name Last Name Email Password	Preferre	ed Language Accrediation Brand 2FA Status m Nick Name				Edit A	pply cł	anges	Assign	1 Role
	ils Form Username First Name Last Name Email	Preferre	ed Language Accrediation Brand 2FA Status m Nick Name Party Id				Edit A	pply cł	anges	Assign	1 Role
	ilis Form Username First Name Last Name Email Password Confirm password	Preferro Forur Last Logged	ed Language Accrediation Brand 2FA Status m Nick Name				Edit A	pply cf	anges	Assign	1 Role

Figure 1–21 Adding a User

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

	c .				 Fast Path	9	(i) -	weblogi	
BANKING PLATFORM	.e Posting Date	9 15-Jan-20	016		Fast Path	4	1 -	weblogi) ~
C <u>0</u> 1 ×									
ser Management						🖶 Print 🧹	0 <u>k</u>	Clear	×
Search Filter									
sername	→								
User Details								+	
sername Tar	get Unit Bra	anch	Delete						
User Details For	m					Edit Apply o	changes	Assign	Ro
(User Details For			Preferred Lanou	age		Edit Apply c	changes	Assign	Ro
	Harry		Preferred Langu Accredit			Edit Apply o	changes	Assign	Ro
* Username	Harry Harry		Accredia			Edit Apply o	changes	Assign	Ro
• Username • First Name	Harry Harry Potter	mc	Accredia	and		Edit Apply d	changes	Assign	Ro
Username First Name Last Name	Harry Harry Potter Harry@gmail.co	m	Accredia	atus		Edit Apply c	changes	Assign	Ro
• Username • First Name • Last Name • Emai	Harry Harry Potter Harry@gmail.co	m	Accredia Bi 2FA St Forum Nick N	atus		Edit Apply c	changes	Assign	Ro
• Username • First Name • Last Name • Emai • Password	Harry Harry Potter Harry@gmail.co		Accredia Bi 2FA St Forum Nick N	and atus		Edit Apply c	changes	Assign	Ro
Username First Name Last Name Emai Password Confirm password	Harry Harry Potter Harry@gmail.cc Harry@gmail.cc	m	- Accredia Bi 2FA St Forum Nick N Par	and		Edit Apply c	changes	Assign	Ro

Figure 1–22 Enter Mandatory Details

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

				aces/admin.jspx?_afrLoop=32073103220256! 🗸 🧟 🔍 Search 🔄 🖈 🖻 💟		
		g Date 15-Jan-201	16	Fast Path Q 3 ~	weblog	ic -
C <u>0</u> 1 ×						
ser Manage	ment			🗇 Print 🗸 O <u>k</u> 🤞	Clear	×
Search Fil	ter					
Isername		→				
User Deta	ils				a.	F 3
sername	Target Unit	Branch	Delete			
arry	GLBL_BU_PB	1010				
User Deta	ils Form			Edit Apply changes	Assign	n Rol
User Deta		Prefer	rred Language	Edit Apply changes	Assign	n Rol
	Harry	Prefer	rred Language Accrediation	Edit Apply changes	Assign	n Rol
Username	Harry Harry	Prefer		Edit Apply changes	Assign	n Rol
Username First Name Last Name	Harry Harry	Prefer	Accrediation	Edit Apply changes	Assigr	n Rol
Usemame First Name Last Name	Harry Harry Potter Harry@gmail.com		Accrediation Brand	Edit Apply changes	Assign	n Rol
Username First Name Last Name Email	Harry Harry Potter Harry@gmail.com 1010		Accrediation Brand 2FA Status	Edit Apply changes	Assign	n Role
Username First Name Last Name Email Home Branch Manager	Harry Harry Potter Harry@gmail.com 1010	For	Accrediation Brand 2FA Status um Nick Name	Edit Apply changes	Assign	n Role
Username First Name Last Name Email Home Branch Manager	Harry Harry Potter Harry@gmail.com 1010	Fon Last Logge 2FA Inacti	Accrediation Brand 2FA Status um Nick Name Party Id	Edit Apply changes	Assign	n Rol

Figure 1–23 Applying Changes

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

	🖸 Oracle Bank	king Plat × +	ŀ									
() 🛈 🗞 https:	//10.180.84.177:8	002/com.ofss.fc.u	ıi.view.admin/fa	ces/admin.jspx?_afrLoop=32073103220256! 🗙 🛛 C	९ Search		ដ	à 🛡	Ŧ	⋒	≡
			g Date 15-Jan-2016			Fast Path		٩	0 -	weblog	ic 👻	
	SEC <u>0</u> 1 ×											
	User Managen	nent					🗐 Pri	nt 🗸	O <u>k</u> 🥖	Clear	XE	<u>tit</u>
	Search Filt	er										
	Username		→									
	🔺 User Detail	s								н	- ×	
	Username	Target Unit	Branch	Delete								
	Harry	GLBL_BU_PB	1010	0								
												L
ŀ												
	User Detail	ls Form					Edit	Apply	changes	Assign	Roles	
	Username	Harry	Preferre	d Language								
	First Name	Harry		Accrediation								
	Last Name	Potter		Brand								
		Harry@gmail.com		2FA Status								
	Home Branch	1010	Forum	Nick Name								
	Manager		Last Logged i	Party Id								
	Target Unit	GLBL_BU_PB	2FA Inactive									
				ve End Date								

Figure 1–24 Adding User to a Group

The available and assigned roles appear.

	king Plat ×										~] []						_		^
			fc.ui.view.admin/fa	:es/adi	lmin.jspx	x?_afrLoo	op=320	073103	220256	6: 💙	e la	Search	0		ជ 0	Ê		÷	^
		ig Date 15-Jan-2	016									Fast	Path		4	9 1) ~	weblog	gic -
EC <u>0</u> 1 ×																			
ser Manage	ment													官 P	int	✓ O <u>k</u>	<u>s</u>	Clear	X
Search Fil	ter																		
Isername		→																	
		r																	
User Deta	ils																		÷
sername	Target Unit	Branch	Delete																
arry	GLBL_BU_PB	1010																	
⊿ Groups																			
II Roles		<	Assigned R	oles															
Role		>	Role																
TestFullAcces	S		No data to di	play.															

Figure 1–25 Available and Assigned Roles

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

	ing Plat ×								
		002/com.ofss	.fc.ui.view.admin/fa	es/admin.jspx?_afrLoop=32073103220256!	C Q Search	☆			^
		g Date 15-Jan-2	2016		Fast Path	٩	i -	weblogic	c ~ 🗉
EC01 ×									
Jser Managem	ent					🖶 Print 🧹	' O <u>k</u> 🔬	Clear	X E <u>x</u> it
Search Filte	er								
Username		+							
User Details	3								+ ×
Username	Target Unit	Branch	Delete						
Harry	GLBL_BU_PB	1010							
Groups									
All Roles Role No data to display	y.	< >	Assigned Ro Role TestFullAcce						

Figure 1–26 Adding User to Assigned Roles Table

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

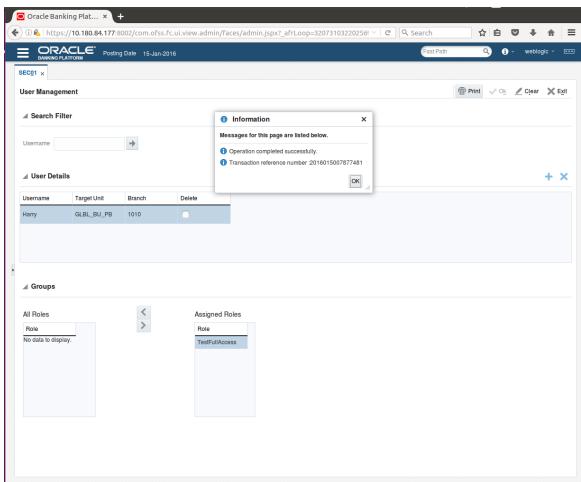


Figure 1–27 Save Changes

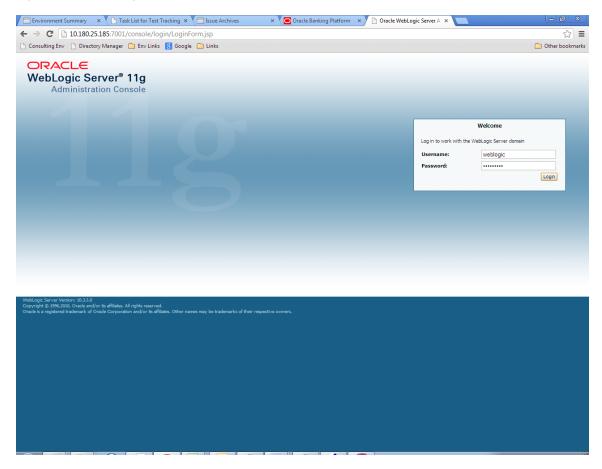
1.8 Unlocking Users in Oracle WebLogic Server (OWS) Administration Console

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

To unlock a user in OWS:

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

Figure 1–28 OWS Log in



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

	Administration Console		
ange Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_c
ew changes and restarts	Home		
k the Lock & Edit button to modify, add or	Home Page		
ete items in this domain.	- Information and Resources		
Lock & Edit			
Release Configuration	Helpful Tools	General Information	
	Configure applications	Common Administration Task Descriptions	
nain Structure	Configure GridLink for RAC Data Source	 Read the documentation 	
domain	Recent Task Status Set your console preferences	 Ask a question on My Oracle Support Oracle Guardian Overview 	
base domain	Set your console preferences Oracle Enterprise Manager	 Oracle Guardian Overview 	
Services	 Oracle Enterprise Manager 		
Security Realms	- Domain Configurations	***********	
nteroperability Diagnostics	Domain	Services	Interoperability
olagnostics	Domain	Messaging	WTC Servers
		JMS Servers	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	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
Monitor servers	 Startup And Shutdown Classes 	Work Contexts	
		 jCOM 	Charts and Graphs
stem Status	Your Deployed Resources	Mail Sessions	 Monitoring Dashboard P
alth of Running Servers	Deployments	FileT3	
		• ATC •	
Failed (0) Critical (0)	Your Application's Security Settings		
Overloaded (0)	Security Realms		
Warning (0)			
OK (2)			

Figure 1–29 base_domain

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

3. In the **Settings for base_domain** page that appears, click the **Security** tab.

Figure 1–30 Security tab

Consulting Env C Directory Manager			C Other book
hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_dom
iew changes and restarts	Home >base_domain		
lick the Lock & Edit button to modify, add or	Settings for base_domain		
elete items in this domain.	Configuration Monitoring Control Security	Web Service Security Notes	
Lock & Edit	General JTA JPA EJBs Web Ap	tv- Tab Log Filters	
Release Configuration	Click the Lock & Editbutton in the Change Center	<u></u>	
main Structure	Save	to mouny the settings on this page.	
Environment Deployments Services Security Realms Interoperability Diagnostics	A domain is a collection of WebLogic Server instance domain. * Indicates required fields	es that is managed by a single Administration Server	r. 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 request bht SSL must be configured for all servers in the domain. More Info
change Console preferences	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	node:	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
ystem Status ealth of Running Servers Failed (0)	C 😤 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 inte	rnal 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
	- Advanced		

- 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 🛛 🗴 🔁 Oracle Banking Platform 🛛 🖈 🕒 Security -	base_domain - \ × 📃 🗖 🗵
← → C 🗋 10.180.25.185:7001/c	onsole/console.portal?_nfpb=true&_pageLabel=DomainUnlockUserPage&handle=com.bea.	console.handles.JMXHandle%28"com.bea%3AName% 😭 🔳
🗋 Consulting Env 🗋 Directory Manager 🕻	🗅 Env Links 🚦 Google 🦳 Links	🗀 Other bookmarks
	Administration Console	Q
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 Security Notes	
Release Configuration	General Filter Unlock User Embedded LDAP Roles Policies	
Domain Structure	Save	
base_domain ⊕ Environment ⊕ Services ⊕ Services ⊕ Interoperability ⊕ Diagnostics	If a user unsuccessfully attempts to log into a WebLogic Server instance more than the configured number of retry attem This page allows you to unlock a locked user so that they can log in again. Unlock User: HardlikA	pts, they are locked out of further access. Name of a specific user to unlock. More Info
How do I	Save	
Unlock user accounts Set user lockout attributes		
System Status		
Health of Running Servers		
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)		
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	rights reserved. and/or its affiliates. Other names may be trademarks of their respective owners.	

Figure 1–31 Unlock User

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

Environment Summary 🗙 🎦 Task	List for Test Tracking 🗙	Issue A	rchives	×	Oracle Banki	ng Platform 💙	 Becurity - base_dom 	main - \ 🗙 📃		- 0 ×
← → C 🗋 10.180.25.185:7001/c	console/console.por	tal?_nfpb=t	rue&_pageLa	abel=Dom	ainUnlockU	serPage&ha	ndle=com.bea.consol	e.handles.JMXHa	ndle%28"com.be	a%3AName%☆ 🚍
🗋 Consulting Env 📄 Directory Manager 🕻	🛅 Env Links 🛛 🛽 Googl	e 📋 Links								📋 Other bookmarks
	Administration Conso	e								Õ
Change Center View changes and restarts Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration Domain Structure base domain ⊕ Environment → Deployments ⊕ Services ⊕ Interoperability ⊕ Delognostics	Save	unlocked. main toring Contro nlock User	ol Security Embedded LDAP	gic Server insta	icies		unber of retry attempts, they Name of		ner access.	ionnected to: base_domain
How do L Uhlock user accounts Set user lociout attributes System Status Health of Running Servers Failed (0) Critical (0) Critica		imes may be trad	Hensarks of their rea	spective owners						

Figure 1–32 User Successfully Unlocked

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

1.9 Creation of first time user to access OBP

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

Note

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

- Log in to OIM using the admin user *xelsysadm*. Create a new role in OIM as described in Section 1.2 Creating Roles in Oracle Identity Manager (OIM). For example, 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

	NTO C LE ENTERPRISE MAN DN MIDDLEWARE CON		
* User Name * Password			

X Oracle E X	G http:rec X 🛛 🏄 http-	G 🗙 🗍 🗃 How to 🗄	K	ter X 🛛 G web apj X 🗍 🚓 Tr	ansac 🗙 🌓 Micros 🕽	x TRTrans X	C Cł	napter × ht	tps://www.x	🛛 Evironn 🗙 🕇 🔯 C	DBP Do X 🗋 ui_d			- 0 ×
$\ \ \leftarrow \ \ \rightarrow \ \ G$	③ Not secure 10.180.26.	.232:7001/em/faces/	as-weblogic-v	vebLogicDomainHome?type=w	eblogic_domain⌖	=%2FDomain_ui_d	omain%2	Fui_domain				Q 🕁	• 0 ja	0:
🔢 Apps D 🛛	Diff Checker - Online {O Search	h 🧧 ADF Faces Rich	Client {0 SI	PL_grok 🙀 OBP Agile developme	🗋 masonryLayoutBeha	🗶 confluence	🔀 Eviro	nment Details	📙 jpa 🧧 af:	table Space Search	ejb 📙 weblogi		» 📃 O	ther bookmarks
ORACL	E Enterprise Manager Fusion Mid	deleware Control 12c									¥.	WebLogic Dom	ain 🔻 weblog	jo v 🚥 ^
Target Navig	ation	E										🍅 👻 🖂	 Auto Refres 	h off V
View v		-										Oct 3, 2	018 3:27:54 PM G	rr+05:30 🖒
Application D		you own the edit session I	ock. To obtain the	lock, click "Lock and Edit" in the Change (Center menu.									×
A The WebLogio Do														
Ad	Home													
) to 🐰 (Monitoring	>		AdminServer										
Coherence Metadata R	Diagnostics	•		mum00cqq, in, oracle.com										
	Control	*	Listen Port	7001										
	Logs	•	SSL Listen Port	7002										
	Environment	•												
	Deployments JDBC Data Sources	💢 Delete	Control +											
	Messaging						Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Heap Usage (MB)
	Cross Component Wiring	•					+			Running	OK	7001	2.17	(MB) 1.620.77
	Web Services	+					-	obpui_cluster1	ui_machine1	Running	ok	8001	0.38	3.470.92
	Other Services	•												
	Administration	•												
	Refresh WebLogic Domein													
	Security	Security Realm	5]										
	JNDI Browser	Users and Grou	ips											
	System MBean Browser	Credentials												
	WebLogic Server Administration Conso	ole Security Provid	er Configuration											
	Target Sitemap	Application Poli	cies											
	Target Information	Application Role	15											
		Keystore												
		System Policies												
		Audit Registrati	on and Policy											
		Columns Hidden	33										Ser	vers 2 of 2
🚱 📋	📝 🐻 🙉	0		🕂 🕵 💽	1			8		# 🛛 🙋 😐	i 🖸 🛃 🕈 🦉 🕼	s 🔒 🤻	• P 12 4	3:28 PM 10/3/2018

Figure 1–34 Click Application Roles

Figure 1–35 Select Administrators Role

	e Manager Fusion Middleware Control 12c		🔣 WebLogic Domain 👻 🗤 weblogic 👻
ui domain O			
ui_domain O			Oct 3, 2018 3:22:14 PM GMT+05:30
main_ui_domain\ui_domain > Appl	ication Roles		
plication Roles			
lication roles are the roles used by		cation. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles that are created in the context	of end users accessing the application.
	WebLogic Domain, use the Oracle WebLogic Service	sufy Provider	
Policy Store Provider			
Search			
ect an application and enter a sear	ch keyword for the role name to search for roles de	by this application. Use the application stripe to search if the application uses a stripe that is different from the application name.	
	Application Stripe OBP	•	
	Role Name Starts With V	P	
ew 👻 🗑 Create 🖹 🕯	Create Like 🖉 Edit 💥 Delete		📴 🔟 Detai
Role Name	Display Name	escription	
OCS_PORTAL_USERS	OCS_PORTAL_USERS	IS_PORTAL_USERS	
OffineRole	OffineRole	IneRole	
Individual-Broker	Individual-Broker	Indust-Broker	
Individual-Introducer	Individual-Introducer	lvidual-Introducer	
Organisation-Broker	Organisation-Broker	ganisation-Broker	
Organisation-Introducer	Organisation-Introducer	ganisation-Introducer	
ATM_Role	ATM_Role	M_Role	
POS_Role	POS_Role	(S_Role	
QualityAdministrator	QualityAdministrator	alityAdministrator	
Developer	Developer	veloper	
SystemAdministrators	SystemAdministrators	stern Administrators	
Administrators	Administrators	ministrators	
CInCollectionAdmin	CinCollectionAdmin	CollectionAdmin	
CInCollectorDialer	CinCollectorDialer	ColectorDialer	
BusinessDirectBanker CinCollectorErLstMd	BusinessDirectBanker CinCollectorErLstMd	sinessDirectBanker ColectorEfLatMd	
OBPAdminReadonly	OBPAdminReadonly	PAdminReadonly	
Customer	Customer	zoner zoner	
CinCollectorErPmtMd	CinCollectorErPrntMd	ColectorEPmMd	
CinCollectorRecov	CinCollectorRecov	CollectorRecov	
CinSupervisorCin	CinSupervisorCin	SupervisorCin	
CinSupervisorRecov	CinSupervisorRecov	SupervisorRecov	
CinManagerCin	CinManagerCin	ManagerCin	
CinManagerRecov	CinManaperRecov	ManagerRecov	
Global Business Services - Team	Mem Global Business Services - Team Mem	ball Business Services - Team Member	
·	·		
Membership for Admini	strators		
	y Name Type De	don .	

Figure 1–36 Add Principal

Application Role : Administrators Add Principal Role : Density Role : Administrators Add Principal Density Role : Administrators Add Principal Density Role : Administrators Search
Rei (o Ensryne Roe) (o te Ensryne Roe) (o te ensryne and exploration date for a sale contain of the roles as members.
Application tology COB ^P Role Name Add Principal Dipoly Name Add Principal Dipoly Name Add Principal Dipoly Name Add Principal Dipoly Name Specify Intel to search and select the application toles that you search to grade primitations to. Beeningtoin Administration
Application Steps Add Principal Bible Name Animitators Dipular Name Serving tracks and select the spolution roles that you sent to grant permissions to. Description Amministators
Rile Name Add Principal Daplay Name Association roles that you sent to grant permissions to. Develoption Association Develoption Association
Aue Franceau Depthy Neme Associations Description Administrators Description Administrators
Description Administrators de Search
Usecnpaon Administrative
Type Group •
Members Philippel Name of the mapped to same of groups defead in entropies LDMP sames of the role and the mapped to street of groups defead in entropies LDMP sames of the role and the mapped to street of the role and t
Verv + Add X Data. Datab Display Name Sists With V
Name Searched Principals Display Name Type
Administrators Oroup Oroup
Principal Dipply thank Description Developer One-On-Principal One-One-One-One-One-One-One-One-One-One-
Liveradper Liveradper Cardop di Liveradper Cardop di Liveradper Carelo
A Advanced Option
Deak to entre protection and the instead of searching from above. This option can be used for advanced searching from above searching to an above from above.
OK Centel
UN Lance

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 OBP UI policy setup:

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

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

Cracle Banking Flatform X	🖻 – Ø X
← → C A Not secure HMT55://10.180.33.251:8002/com.ofss.fc.ui.view/login.html	☆ :
Depaks_us Sign In . Ure Vihual Keyboard	
V C : 2.5.0.2.0 Copyright 2011, 2016, Oracle and/or its affiliates. All rights reserved	
📲 ዶ © 🗮 💁 🗮 🖉 🚱 💁 📓 🎢 🖻 🔥 🖳 🖳 🧟	へ (1)) 記 自 902 AM イロ) 記 目 4/21/2017

2. Enter SM502 in the fast path.

Oracle Banking Platform ×	E -	ø ×
← → C A Not secure ₩75://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx		☆
EARKING PLATFORM Posting Date Apr 5, 2016	sm502 🔍 🤸 🖌 🖌 Deepaks_us	
#	Policy Management Fast Path	
Map My Day		Ģ
TI Insta Text 🛛 🛃 Cluick Serve		
	How do we predict this? Cash-O-Meter USD	
	This day last year	
	Total Transactions 0	
	Cash 0 20.0K 40.0K	
No data to display	Non-Cash 0 TIO.0K SO.0K In Out	0.00
	- Actual Day Today	
	Projected Day Average Day	
5		
My Transactions		Ģ
No Transactions Executed Today		
# A O 🔚 👩 🍬 🖉 👹 🗿 🐂 📓 🐠 📼 🚸 🖳 🚇 🧶	> ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	9:04 AM 4/21/201

Figure 2–2 Search for SM502 in Fast Path

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

Enter the service for which policy needs to be defined.

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

For example,

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

Figure 2–3 Policy Management

Cracle Banking Platform X			1	- 6	×
← → C A Not secure Https://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx					☆ :
BANKING FLATFORM Posting Date Apr 5, 2016	Fast Path	<u> </u>	j - De	epaks_us	
★ SM502 ×					
Policy Management		Print	√ ° <u>k</u> ₫	Clear	X E⊻it
⊿ Resource Name					
Resource Inden FC_FR_FEE_OVR					
.⊿ Policy Table					
View 🕶 🛨 🗶 🖾 Detach					
NAME Name	EFFECT ACTION	DESCRIPTION	ROLES	CONDIT	TIONS
# 2 C3 🖿 🥘 🍬 🧟 🖏 🚳 🐁 📓 🕷 🕾 🔕 📾 🦛 🔊			~ ¢) 🗗 🖨	9:10 AM 4/21/2017

The following screen appears:

Figure 2–4 Enter Service for Policy Definition

Cracle Banking Platform X				۲	-	a ×
← → C ▲ Not secure μμτρ://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx						\$
BARACLE Posting Date Apr 5, 2016	Fast Path		9 * *-	X 6 - 0	eepaks_us	• •
★ SM502 ×						
Policy Management			ē	Print V O k	🖉 C <u>l</u> ear	🗙 E <u>x</u> it
A Resource Name						
Resource com ofss.fc.appr.origination service lending.core.application.LendingApplicationServiceSpi.confirmStructureSolutionFC_PR_FEE_OVR						
Resource Type SERVICE						
Policy Table						
View V + X 🖾 Detach NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDI	ITIONS
ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPL_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_0 E				Administrators		
# P @ = 👩 🍬 🖉 👹 🚯 📓 📓 🕿 🚸 🖾 📾				~ 4) 🗜 🛢	9:11 AM

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

<u> </u>	Oracle Sanking Platform X				*	- 0	×
←	→ C A Not secure HMPS://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx						☆ :
1	Auxona r.A.iron Posting Date Apr 5, 2016	Fast Path		<u> </u>	× e - □	eepaks_us 🗸	
	★ SM502 ×						
	Policy Management			ē	Print 🗸 O <u>k</u> 🤞	Clear 🗙	Exit
	∡ Resource Name						
	Resource com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpl.confirmStructureSolution.FC_PR_FEE_OV	/R					
	Resource Type SERVICE						
	A Policy Table						
	View 👻 🕂 🔀 Delach NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIO	
	NAME ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_O		PERFORM_WIT		Administrators		00
		•	•				
E		EFFECT_DENY EFFECT_GRANT					
		EFFECT_ORAN					
	. p m 🐂 👩 🙇 🔊 👹 👩 🗽 📓 💉 📼 🔥 📾 🧑 🥪				A 1		15 AM

Figure 2–5 Effect of the Policy

Cracle Banking Platform X				±	-	a >
C A Not secure مجمع المحمد ا						☆
	Fast Path		9 * *-	X 0 ~	Deepaks_u	ع - 8
SM502 X						
Policy Management			ē	Print 🗸 Oʻli	🖉 Clear	$\pmb{\times} E_{\underline{X}} i t$
A Resource Name						
Resource com ofts fc.appr.origination.service.lending.core.application.LendingApplicationServiceSpi.comfrmStructureSolutionFC_PR_FEE_OVR Resource Type SERVICE						
✓ Policy Table						
NAME	EFFECT	ACTION	DESCRIPTION	ROLES	COND	ITIONS
ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_0	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO	Administrators		5
	•	•				
		VIEW SHOW_ENABLED SHOW_VALUE PERFORM PERFORM_WITH				
i A O 🛤 👩 🛶 🖉 🥨 💣 🗞 🧕 🏘 🖻 🚸 🕮 🦛 👼				~	4) 門 🗐	9:15 A

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

Figure 2–6 Action of the Policy

C A Not secure bttps://10.180.3	3.251:8002/	com.of:	ss.fc.ui.view/faces/main.j	jspx							
	Apr 5, 2016						Fast Path		9 * *-	X 0-	Deepaks_us 🗸
SM5 <u>0</u> 2 ×											
licy Management									ē	Print 🗸 O <u>K</u>	🖉 Clear 🗙
Resource Name											
	Resource c	om.ofss	.fc.appx.origination.service.	lending.core.applica	ition.LendingAp	oplicationServiceSpi.confirmStructureSolution/FC_PR_FEE_O	'R				
	urce Type S										
Policy Table											
View 🔻 🕂 🗙 🗟 Detach											
				NAME			EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIO
ADMINISTRATORS_OBP_APPX_ORIGINA	ATION_SERVI	CE_LEI	NDING_CORE_APPLICATI	ION_LENDINGAPPL	ICATIONSERVI	ICESPI_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_0	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO	Administrators	
LendingMatrix_BusinessUnit	•	= T	BUSINESS_UNIT	AND *		+ ×					
LendingMatrix_ProductGroup	٠	= •	PRODUCT_GROUP	AND	+	×					
LendingMatrix_DepositAmountRange	٠	= •	100000	AND	+	×					
LendingMatrix_IndustryCode	٠	= •	ID10000	AND	+	×					

Figure 2–7 Conditions of the Policy

2.1.1.2 SOA Composer Rules Setup

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

The following procedure is performed during SOA Composer rules setup:

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

BP DevOps 🛛 🗙 🗋 Sign In	× Oracle Banking Pla × C OBP DevOps - You	× {0 Search × {0 Cross Reference: // × }	ice: / i × {0 Cross Reference: / i × 📫 🗕 🗗
C 🛈 Not secure 10.180.3	5.7:8001/soa/composer/faces/login		ž
	100 A		
		SIGN IN TO	
		SOA COMPOSER	
		SOA COMI COLIK	
		weblogic	
		Sign in	
			ORACLE'
			ORACLE
Copyright 2004, 2016, Ora	acle and/or its affiliates. All rights reserved. Accessibility		
ntry.csv			Show a

Figure 2-8 Log in to SOA Composer

2. In the **Filter** field in the left panel, enter the name of the rule for the service.

For example:

HT_LendingSpi_ConfirmStructureSolutionRules.rules

→ C 0 10.180.35.7:8001/soa/composer/		\$
ORACLE' SOA Composer	Links 🔻 🛛 anonymous 👻	
+ Create Session		G
ployment View 🔻 🕥 📴		
er Filter		
SOA Infra		
We composites		
Metadata		
ApplicationSummaryToMap;		
CaseManagementBaseDicti CollateralBusinessIndicators		
↔ CollateralDictionaryToCusto		
4 CollateralSummaryToMappe		
4 CollateralValuationSummary		
CommonHeaderToMapped/		
CoreHeaderToSummaryHea		
CreditCardApplicationBusin		
CreditCardApplicationBusin		
CreditCardProductGroupBus		
DepositApplicationBusiness		
+ DepositProductGroupBusine		
+		
Dictionary To Custom Attribute		
+ ↓ DictionaryToCustomAttribute		
DynamicRouting.rules		
++ FacilitySummaryToMappedA		
- InsuranceApplicationBusine		
-1 InuranceApplicationBusines		
InvestmentApplicationBusin		
InvestmentProductGroupBus		
++ LendingApplicationBusiness		
+ LendingProductGroupBusin		
555 OriginationProcessConfigura		
35.7:8001/soa/composer/#		

Figure 2–9 Find the Rules for Service

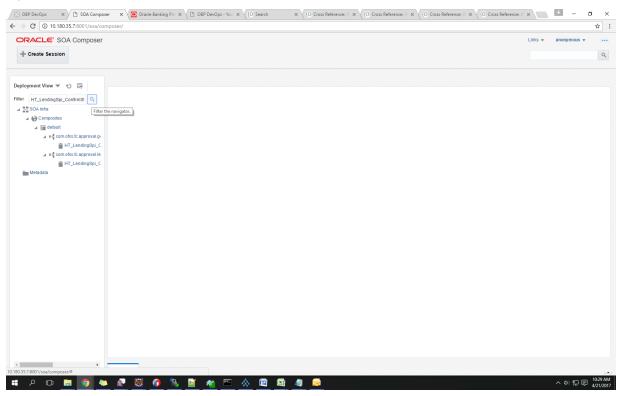


Figure 2–10 Filter Rules

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

→ C ① 10.180.35.7:8001/soa/cor	iposer/	\$
DRACLE' SOA Composer		Links 👻 anonymous 👻
+ Create Session		(
ployment View 🔻 🕥 🛱	HT_LendingSpi_Confirm Structure SolutionRules.rules ×	ii ✓ ■ = = 0 ×
ter HT_LendingSpi_ConfirmSt Q	🚱 Rules 🗐 Value Sets 🚱 Globals 💕 Business Phrases 🕎 Tests 🔒 Translations Advanced >	Actions 👻
DA Infra	ModificationRules v View Properties	
Composites	Rules 🗠 🐨 By Type 💌 Rule Types	
default	Decision Table	
HT_LendingSpi_Confirm	more input conditions and then invoke a corresponding output action	
▲ H com.ofss.fc.approval.lendings	Click + above to create a rule General If/Then Rule A rule that takes effect based on one or more of input conditions	
HT_LendingSpi_Confirms		
tadata		

Figure 2–11 Searching Specific Process

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

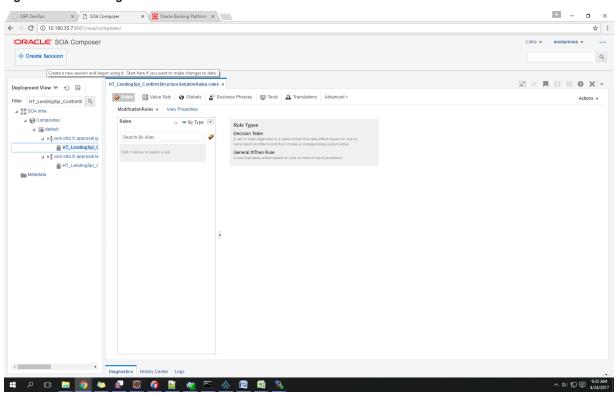


Figure 2–12 Creating the Rule

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

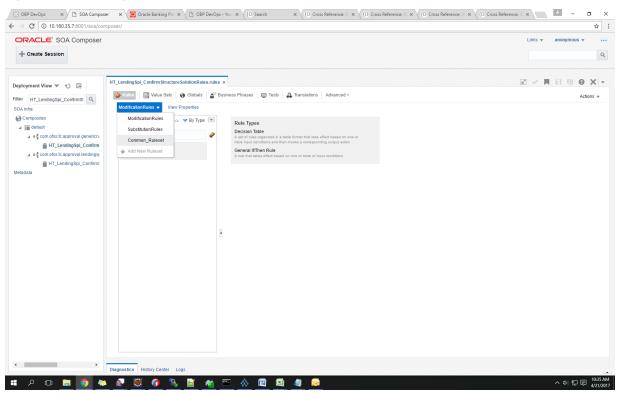


Figure 2–13 Selecting Rules File

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

Note

The rule being created must be Active rule.

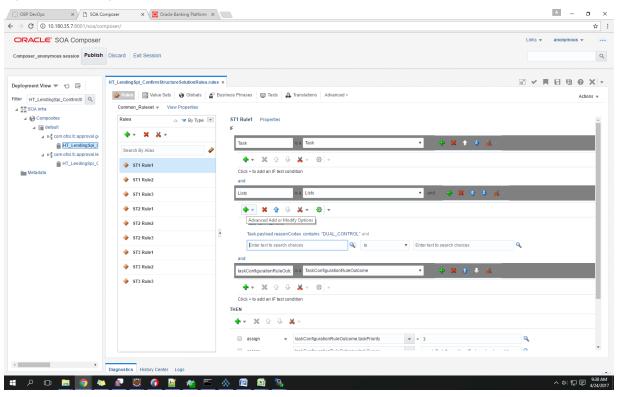


Figure 2–14 Adding Attributes to the Rule File

CARCLE: SOA Compose Provide the sector of the sector	C 10.180.35.7:8001/soa/composer	r/				ŕ
ployment View $ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	RACLE' SOA Composer					Links v anonymous v
pipejmentini da segurado pipejmentini da segurado pipejmentini da segurado piejmentini da seg	mposer_anonymous session Publish Disc	ard Exit Session				
pipejmentini da segurado pipejmentini da segurado pipejmentini da segurado piejmentini da seg	HT	endingSpi ConfirmStructureSolutionRules.ru	iles x			
<pre>Millendingsuccentary Control (Linguisting Cont</pre>	loyment View V 🕤 📑			s 🐼 Tests 🔒 Translations Advanced >		
<pre>secondstate secondstate s</pre>	T HT_LendingSpi_ConfirmSt Q					100010
A i i g con obs C apprvalo Metadata A i i g con obs C apprvalo Metadata A i i g con obs C apprvalo Metadata A i i g con obs C apprvalo A i g con obs A i		Rules 🗠 🔻 By Type 💌	ST1 Rule	1 Properties		
Search By Alas Search By Alas Still Rule1 Still Rule2 Still Rule3 Still Ru			IF			
A ing connotes: a approvale				is a Task	• 🕹 🗶 🛧 🕹 🚜 -	
Image: State in the				• X & & X • & •		
<pre>stT Rule2 stT Rule3 s</pre>		ST1 Rule1	Click +	to add an IF test condition		
<td< td=""><td>_</td><td>ST1 Rule2</td><td>and</td><td></td><td></td><td></td></td<>	_	ST1 Rule2	and			
ST2 Rule2 ST2 Rule3 ST3 Rule1 ST3 Rule2 ST3 Rule3 Image: Star in ull and image: Star		🔶 ST1 Rule3	Lists	is a Lists	🔹 and 🗣 🔀 🏠 🐇 🗸	
ST2 Rule3 ST3 Rule2 ST3 Rule3 Image: Star Rule3 I		ST2 Rule1	4	- 🗙 🕆 😃 🐰 - 🕸 -		
 ST2 Rule3 ST3 Rule3 ST3 Rule3 Task_payload businessUnit Iss to US_BU_PB US_BU_PB US_		ST2 Rule2	Та	sk isnt null and		
ST3 Rule1 ST3 Rule2 ST3 Rule3 ST3 Rule3 ST3 Rule3 Stable> Stable> Stable> Stable> Stable> Stable> Stable> Stable> <td></td> <td>ST2 Rule3</td> <td>• та</td> <td>sk.payload.reasonCodes contains "DUAL_CONTROL" and</td> <td></td> <td></td>		ST2 Rule3	• та	sk.payload.reasonCodes contains "DUAL_CONTROL" and		
Image: ST3 Rule2 ST3 Rule2 ST3 Rule3 Image: ST3 Rule3 <td></td> <td></td> <td>Т</td> <td>ask.payload.businessUnit 🔍 is</td> <td>VS_BU_PB</td> <td>Q</td>			Т	ask.payload.businessUnit 🔍 is	VS_BU_PB	Q
Image: Starting and software in the start of the sta			and			
• ▼ ※ ☆ ☆ ※ ▼ • ▼ ※ ☆ ☆ ▼ Click + to add an IF lest condition THEN • ▼ ※ ☆ ☆ ◇ ※ ▼ • ■ assign • ▼ taskConfigurationRuleOutcome taskPrionity • ▼ = 3			taskCo	nfigurationRuleOutc Is a TaskConfigurationRuleOutcome	• • • • • • • • •	
THEN • • • * ** · · · · · · · · · · · · · · · · · · ·		ST3 Rule3	4	• X & J X • @ •		
• ▼ ※ ② ③ ▲ * assign • ▼ assign • ▼			Click +	to add an IF test condition		
assign v taskConfigurationRuleOutcome taskPriority v = 3			THEN			
			+ •	🗙 G 🕂 😽 🖌 -		
			as	sign v taskConfigurationRuleOutcome.taskPriority	v = 3	٩

Figure 2–15 Adding Attributes to the Rule File

7. Click Validate to validate the rules file.

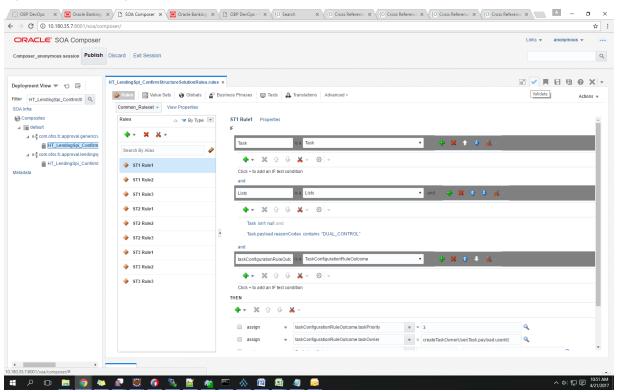


Figure 2–16 Validating Rules File

8. Click Save to save the rules.

				Links v anonymous v
poser_anonymous session Publish	Discard Exit Session			
yment View ▼ €) EF HT_LendingSpi_ConfirmSt Q	HT_Lending Spi_Confirm Structure SolutionRules.ru		trases 😡 Tests 🔒 Translations Advanced >	Save Changes in Ct
nfra composites 2011 default	Common_Ruleset v View Properties Rules	Y	Rule1 Properties	
	Search By Alias	4	Task s Task • 🔹 🕹 🗶 🔶	¥ -
HT_LendingSpi_Confirms	♦ ST1 Rule1		♣ ▼ ※ ☆ ☆ ※ ☆ ▼ Click + to add an IF test condition	
	ST1 Rule2		and and a second s	10
	ST1 Rule3		Lists is a Lists • and 🔶 🎇 🛟	- 66 -
	ST2 Rule1 ST2 Rule2			
	ST2 Rule3	8	Task.psr/full_all00	
	🔶 ST3 Rule1		and IaskConfigurationRuleOutc is a TaskConfigurationRuleOutcome 🔹 👍 💥 🏠 🦊	
	🔶 ST3 Rule2			K [™]
	🔶 ST3 Rule3	1		
			▶ ▼ 🗶 ☆ 🤣 ▼	
			assign v taskConfigurationRuleOutcome.taskPriority v = 3	٩
			assign v taskConfigurationRuleOutcome.taskOwner v = createTaskOwnerUser(Task.payl	load.userid)

Figure 2–17 Saving Rules File

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

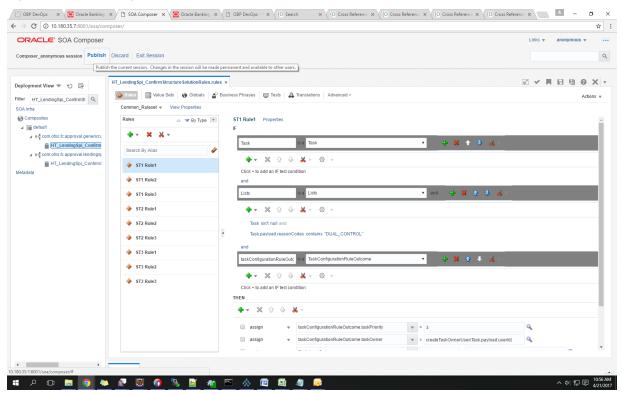


Figure 2–18 Publishing Rules File

2.1.1.3 SMS Setup

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

Note

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

The following procedure is performed during SMS setup:

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

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

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

	//10.180.6.118:8002/com.ofss.fc.ui.view/faces/	nain.jspx		☆
	sting Date 06-Oct-2016		Fast Path	🍳 🌴 💺 🗙 🐧 🗸 OFSSUser 🧸 🖂
arty Context	★ \$M5 <u>0</u> 0 ×			
earch by Name •	Artifact Dependency Map			🖻 Print 🗙 Exit
iteria X Advanced Search	→ ✓ Resource Search	com.ofss.fc.appx.origination.service.lending.core.application.L endingApplicationServiceSpi.confirmStructureSolution		
	3. Selecting items from suggest item list will re 4. For faster and finer searches, please use 'tas 5. For a combination of artifacts and general se-	Listôn, uson. Listôn, uson. Na faste al accurá verch o cole supor do 1, CORPORTI DO 1000 (Listo) do 1, a cole supor do 1, a col		ĺ
	OTHER OTHER Fide			
	General Details Permissions A	pproval Chacks Service Attributes Service Javadoc		

Figure 2–19 Search for Service Using Entire Service Name

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

> C A No											
	secure perps://10.160	.33.251:8002/com.ol	ss.fc.ui.view/faces/mair	1.jspx							
		Jan 31, 2016						Fast Path	c) * * X	(j - OFSSUser -
SM5 <u>0</u> 0 ×											
ifeet Denende											n Print 🗙
ifact Depende											-B. Fund
		-									
	Pm -	OTHER.page com.ofss.fc.appx.origin Origination - FundingTableDetailAp Refresh Pricing Fees SERVICE	Party -	com.ofss.fc.appx.confi Config - RootCompositeTempla Delete Root Composite Template SERVICE	com.ofss.fc.appx.pm.s Pm - ProdutManufacturing Fetch All Active Products SERVICE	com.ofss.fc.appx.party Party - IdentityVerificationHis Update Identity Verification History SERVICE	com.ofss.fc.appx.party Party - PartyToAccountRelatio Fetch Allowed Access Channels For Account SERVICE	com.ofss.fc.appx.accou Account - BundleinquiryApplicati Fetch All Subscription Details SERVICE	com.ofss.fc.appx.party Party - BureauReportApplicati Close Bureau Report SERVICE	com.ofss.fc.appx.collec Collection - VendorAllocAlgListApp Create SERVICE	com.ofss.fc.appx.ins.se Ins - PropertyInsuranceSimu Save Selected Quote SERVICE
om.ofss.fc.appx.pri ricing - ventPriceApplicatic iet Compute Fee O iharge Date ERVICE	nS LoanScheduleSimulati	com.ofss.fc.appx.collec Collection - SupervisoryLogDtlAppl Create SERVICE	Sms -	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	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
						SERVICE		[SERVICE - Origination -	LendingApplicationServ	riceSpi Confirm Structure S
om.ofss.fc.appx.acc account - ateLockApplication etch Valid Rate Loc onfiguration For account ERVICE	Se MDMBatchIntegrationL	com.ofss.fc.appx.colle Collection - ValidateVictimPartyId Read SERVICE	com.ofss.fc.appx.collec Collection - ActionApplicationServi Update SERVICE	com.ofss.fc.appx.pricin Pricing - TransactionDetailsAna Add Transaction Details Analysis SERVICE	com.ofss.fc.appx.loan Loan - LoanApplicationServic Validate Loan Account Configuration Step SERVICE	com.ofss.fc.appx.party Party - FinancialStatementAp Reopen Financial Statement SERVICE	com.ofss.fc.appx.pricin Pricing - EventMaintenanceAppl Inquire Event SERVICE	com.ofss.fc.appx.party Party - PartyLastActivityApplic Fetch Party Last Activity SERVICE	com.ofss.fc.appx.origin Origination - OriginationBundleAppli Is Edit Submission Required For Bundle SERVICE	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Fetch Rollups SERVICE	com.ofss.fc.appx.pc.bill PC - BillerCategoryApplicati Import Andfetch Biller Category SERVICE
View +	X 日 📑 😫	Detach	rvice Attributes Service	Javadoc							
Branch Code R	ole ID	Cha	nnel Id Reason Code		SEVERITY						
1000 A	dministrators	BRI	FC_PR_UDM	OVR	OVERRIDE						*
3000 A	dministrators	BRI	FC_OR_AGN	F_001	IGNORE						•
089999 A	dministrators	BRI	FC_PR_UDM	_OVR	OVERRIDE						•
3000 A	dministrators	BRI	FC_PR_FEE_	OVR	OVERRIDE						•
ANY A	dministrators	BRI	1000		IGNORE						•

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.

- OP'		E' putropote	1 04 0040									_
BANKING PI	PLATFORM	Posting Date	Jan 31, 2016						Fast Path	C) <u>* * X</u>	() - OFSSUser -
\$M5 <u>0</u> 0	×											
rtifact Depe	endency	Мар										會 Print 渊
Collection - CaseCentricActi Update SERVICE	tionType	Pm - RewardApplicationSer Add Reward SERVICE	Origination - FundingTableDetailAp Refresh Pricing Fees SERVICE	Party - FinancialParameterAr Close Financial Parameter SERVICE	Config - RootCompositeTempla Delete Root Composite Template SERVICE	Pm - ProductManufacturing Fetch All Active Products SERVICE	Party - Identit/WerificationHis Update Identity Verification History SERVICE	Party - PartyToAccountRelatio Fetch Allowed Access Channels For Account SERVICE	Account - BundleInquiryApplicati Petch All Subscription Details SERVICE	Party - BureauReportApplicati Close Bureau Report SERVICE	Collection - VendorAllocAlgListApp Create SERVICE	Ins - PropertyInsuranceSimu Save Selected Quote SERVICE
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.colle Collection - SupervisoryLogDtlApp Create SERVICE	Sms -	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.appv.origin Origination - LendingApplicationSer Confirm Structure Solution SERVICE
com.ofss.fc.app Account - RateLockApplica Fetch Valid Rate	ationSe	com.ofss.fc.appx.integ Integration - MDMBatchIntegrationL Add M D M Batch	com.ofss.fc.appx.colle Collection - ValidateVictimPartyId Read	com.ofss.fc.appx.colle Collection - ActionApplicationServ Update	Pricing -	. com.ofss.fc.appx.loan Loan - LoanApplicationServic Validate Loan Account	com.ofss.fc.appx.party Party - FinancialStatementAp Reopen Financial	com.ofss.fc.appx.pricin Pricing - EventMaintenanceAppl Inguire Event	com.ofss.fc.appx.party Party - PartyLastActivityApplic Fetch Party Last Activity	Origination - OriginationBundleAppli	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Fetch Rollups	com.ofss.fc.appx.pc.bill Pc - BillerCategoryApplicati Import Andfetch Biller
Configuration Fr Account SERVICE	For	Integration Log SERVICE	SERVICE	SËRVICE	Analysis SERVICE	Configuration Step SERVICE	Statement	SERVICE	SERVICE	Required For Bundle SERVICE	SERVICE	Category SERVICE
Account SERVICE	Is Permi	Integration Log SERVICE	ecks Severity S Detach	rvice Attributes Servi	Analysis SERVICE	Configuration Step SERVICE	Statement			Required For Bundle		Category SERVICE
Account SERVICE General Details	Is Permi + X a Role ID	Integration Log SERVICE	ecks Severity S Detach	rvice Attributes Servi	Analysis SERVICE 28 Javadoc	Configuration Step	Statement			Required For Bundle		Category SERVICE
Account SERVICE	Is Permi + X Role ID Adminis	Integration Log SERVICE Nissions Approval Chr C C C C C C C C C C C C C C C C C C C	ecks Severity S Detach	nvice Attributes Servi	Analysis SERVICE ce Javadoc	SERVICE	Statement			Required For Bundle		Category SERVICE
Account SERVICE View v Branch Code 1000 3000	Is Permi + × Role ID Adminis	Integration Log SERVICE Itasions Approval Chr Italian	ecks Severity S Detach Chu BRI BRI	Invice Altributes Servi Innel Id Reason Co- In FC_PR_UD I FC_OR_AG	e M_OVR VT_001	Configuration Step SERVICE SEVERITY OVERRIDE IGNORE	Statement			Required For Bundle		Category Service
Account SERVICE Seneral Details View * Branch Code 1000 3000 089999	For Is Permi + × Permi Per	Integration Log SERVICE Approval Chr Service S	ecks Severity S Detach BRI BRI BRI	Invice Altributes Servi Innel Id Reason Co- I FC_PR_UD I FC_PR_UD	Analysis SRVice e dvadoc e d_OVR d_OVR d_OVR d_OVR	Configuration Step SERVICE SEVERITY OVERRIDE IGNORE OVERRIDE	Statement			Required For Bundle		Category Service
Account SERVICE View v Branch Code 1000 3000	For Permi + × Role ID Adminis Administ Administ	Integration Log SERVICE Itasions Approval Chr Italian	ecks Severity S Detach Chu BRI BRI	Invice Attributes Servi meli de Reason Coo I FC_PR_UD I FC_OR_AG I FC_PR_UD I FC_PR_UD I FC_PR_FEI	Analysis SRVice e dvadoc e d_OVR d_OVR d_OVR d_OVR	Configuration Step SERVICE SEVERITY OVERRIDE IGNORE	Statement			Required For Bundle		Category Service

Figure 2–21 Severity Tab - Add Severity

2.1.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

Figure 2–22 Initiating Transaction OBP DevOps - Your OBP X OBP DevOps X X ROBPR26-× 7 🗖 A) C 🔺 No https://10.180.33.251: 0 Application Application Header Edit Application Branch 3010, Tran Product Variations Data Entry Branch 3010, Transaction Lending Deposit Credit Card Insurance Bundles Investr Priority Normal Business CASA Group of Business CASA Group of Home Equity Line of Credit (Groups Secured HELOC01) Channel Branch Submission Value Date Apr 5, 2016 Line of Credit MAN_MoF - Product Group Personal CASA Group of Groups Secured Capture Date Apr 5, 2016 Group Name Not Applicable Personal CASA Group of Private Educational Loans Sourced by Banker REGCC Secured Overdraft Flexi Secured Overdraft Manufactured Group ... Selected Application Requests Secured Personal Loans Transaction Account Group of Groups Secured Overdraft Manufactured Group Unsecured Overdraft Manufactured Grou... 🗙 US ODLOC Product Group US Retail Checking Group US Retail Checking Group of Group Us... Unsecured Personal Loans Unsecured Overdraft Vehicle Loans Manufactured Grou...

```
Figure 2–23 Fee Negotiation
```

http://11.10.5.5.21.00//con.ots.fc.uvervappicator/*

CBP DevOps - Your OBP X 🛛 OBP DevOps X 🖓 [OB	PR26-7945] R2.6_T22 × V 💽 /	Application Form X	BPM Worklist	× 🖸 soa-infra (SO/	Infrastruc 🗙 🔽 🖸	Application Form	×	
← → C ▲ Not secure bttps://10.180.33.251:8002/com.ofss.fc.u	i.view.application/#							☆]:
			ation Form Posting Dat	e Apr 5, 2016		x 0 -	Deepaks_us	*
	Add New Account(for Unsection Basics	red Manufactured OD Offer Interest Fee:		Insurance	nstructions & Preferen	COS		
	View w 🔅 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	R I R	
	Bill Consolidation for bill paid through Checking and Savings	Bill Payment US - Bill_Payment_Fees_US		Online	Fixed	\$0.20 USD		
	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_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	sit US-ChqDep_Fees_U Base Fee \$10.00 U						
		* Negotiate Discour	nt • \$1.00	USD				
	Recon	puted Base Fee \$9.00 U	SD Reset to Base Fee					
		Net Fee \$9.00 U	SD (Initial \$10.00)					
		* Validity From Apr 5, 2		2017 Se Apr 5, 2017				
		• Reason Test	•					
		* Remarks ok						
		Document Upload						
				9			Ok Cancel	
	🞽 💿 🖉	10 📓 🔌		8				workspace ²⁹ Oracle ²⁹ 🔺 🏴 🐩 🔥 10.35 AM 4/20/2017

° 🔺 🏲 🛅 🌜 10:25 A

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

OBP DevOps	× BPM Worklist ×	: SOA Composer >	K Oracle Banking Pla	form X	≛ – Ø ×
\leftrightarrow \Rightarrow C A Not s	ecure bttps://10.180.35.189:8002/in	tegration/worklistapp/faces/log	gin.jspx		☆ :
		3		SIGN IN TO BPM WORKLIST	
				Login	
Cepyright © 2005, 2016, Ora	ide andforits affiliates. All rights reserved.				ORACLE
<u>ت</u> م 🖪	= 0 4 @ 3	o 📓 🕷 📼	× 🛯 🖬	8	へ 40) 記旨 (1948 AM

Figure 2–24 Log in to Approval Worklist

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

/	Vracle Banking Platform ×	Application Form X BPM Worklist tion/worklistapp/faces/home.jspx	×					 ☆
ORACLE: BPM Worklist							R k	rish v
Views 🕈 🖊 🛪 🛥	Actions 🐨 🖾 🖾 Status 🗟 Title	🔍 💌 Me & My	Group All V Assigned V	★ ▼	Number	Creator	Assigned	Priority
Inbox My Tasks Initiated Tasks My Saff Tasks Administrative Tasks Verwes Lue Seon High Priority Past Day Past Work	Verity Applica Structure Sol Structure Sol Verity Applica Verity Applica Verity Ve	tion APP201020160002797 and Submission SUB2010. ution of Lending Application APP201020160002797 and ution of Lending Application APP201020160002792 and submission SUB2010 on Manual Report. Nexhtar Valuer (Request Ref 0 101 ution of Lending Application APP20107016000701 and Approval Required for Structure Solution Authorizations FC_PR_Disbursement, Fee	20160003564 Submission SUB201020160003564 I Submission SUB201020160003563 20160003593 0116000001565/SUB201020160003560 Submission SUB201020160003560 Libon (FC_PR_Disbursement_Feet	+LN_DISBURSEMENT_F Posting Date 01-Jan-	Ap and I Re	21 31 31 31 31 31 31 31	2104/2017 621 PM 2104/2017 540 PM 2104/2017 540 PM 2104/2017 540 PM 2104/2017 151 PM 2104/2017 151 PM 2104/2017 1223 P. 2104/2017 1218 P	3 3 3 3
Past Ouarler New Tasks		Funds Table Outlay Purchase or Cost Additional Parameters Bank Fees Misc Fees Misc Fees	\$10,000.00 \$585.60 \$165.00	Funds Facility Customer Contribution	EXF Re Cr Es Re	equest Information eassign eaate Subtask icalate enew ispend		
10.184.153.134.9002/workflow/com.obs.fc.wo	rkflow.ui.StructureSolutionHuman	Tashface/aditasi-flo	Ei 🙍				 ^ (ታ) ፻	- cm 6:22 P

Figure 2–25 Approve or Reject Work item

4. View the status of the work item.

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

WLQ01 × WLQ01 × ork Item Inquiry ork List Work Item Inquiry								Fast Path	<u> </u>	÷*·X0-	Deepaks_us 🗸
ork Item Inquiry ork List											
											🖻 Print 🗙
Work Item Inquiry											
	From Posting Dat	e Apr 5, 2016 👸					To Po	sting Date Apr 5, 201	6 🔯		
	Account Numbe	r					Referenc	e Number			
	Task Cod	3					E	intered By			
	Party I						Transa	ction Type Please Se	lect v		
_											Search Rese
View 👻 📴 Detach											Search Rese
View v 📴 😭 Detach	Party ID	Transaction Type	Task Code	Entered By	Final Approver ID	Work Item Status	Nature of Transaction	Account Number	Amoun	t Fee Amount	Search Rese
view v F 🐼 Detach		Transaction Type Financial Transaction	Task Code CASA005	Entered By Deepaks_us	Final Approver ID	Work Item Status AUTO APPROVED	Nature of Transaction Normal	Account Number 100022168			
View v F R Detach	000002518 0000002518	Financial Transaction	CASA005 CASA024	Deepaks_us Deepaks_us	Final Approver ID sdeepak_us	AUTO APPROVED APPROVED	Transaction Normal Normal	100022168 100022168	Amou \$200.0	0 \$4.00	
View v C C Detach	7 000002518 0 000002518 7 000002468	Financial Transaction Non Financial Transaction Financial Transaction	CASA005 CASA024 CASA005	Deepaks_us Deepaks_us Deepaks_us		AUTO APPROVED APPROVED AUTO APPROVED	Transaction Normal Normal Normal	100022168	Amour \$200.0 \$500.0	0 \$4.00	
Posting Date Work Item ID	7 000002518 0 000002518 7 000002468 8	Financial Transaction	CASA005 CASA024	Deepaks_us Deepaks_us		AUTO APPROVED APPROVED	Transaction Normal Normal	100022168 100022168	Amou \$200.0	0 \$4.00 0 \$10.00 0	

Figure 2–26 Viewing Status of Work item

2.2 Discretionary Credit Assessment (DCA)

This section explains steps in Discretionary Credit Decision approvals.

Overview

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

Facts Required for MCD Approvals

Following are the facts required for MCD approvals.

Table 2–3 Facts Required for the MCD Approvals

State
Business Unit
Currency
Personal Aggregate Application Amount

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

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

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

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

2.2.1 Setup Details

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

2.2.1.1 Policy Setup in UI

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

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

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

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

Oracle Banking Platform ×	<u> </u>
← → C ▲ Not secure bttps://10.180.33.251:8002/com.ofss.fc.ui.view/login.html	<u></u>
• • • • • • • • • • • • • • • • • • •	
■ A © ■ 💿 🍬 R 😳 🐠 🤽 🖄 📓 👋 🖂 🗞	· ◆ ♥ 등 및 80

2. Enter SM502 in the fast path.

C A Not secure مراجعها / 10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx	\$
BANKING PLATFORM Posting Date Apr 5, 2016	sm502 🤍 🤸 🐆 🗙 🛈 - Deepaks_us -
F Contraction of the second	Policy Management Fast Path
Map My Day	9
TI Insta Text 🛛 👸 Quick Serve	
	How do we predict this? Cash-O-Meter USD
	This day last year
	Total Transactions 0
	Cash 0 20.0K 40.0K
No data to display	Non-Cash 0 10.0K 50.0K In 0.00 Out 0.00
	- Actual Day Today
	Projected Day Average Day
	— Avalaĝa Dak
My Transactions	Q
No Transactions Executed Today	

Figure 2–28 Search for SM502 in Fast Path

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

Enter the service for which policy needs to be defined.

For example,

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

😢 OBP DevOps x 🖉 Oracle Banking Pix x 🗈 SOA Composer x 🖉 OBP DevOps - You x (O Search x (O Cross Reference: // x (O Cross Reference: // x)	× {O Cross Re	eference: /F × {C	Cross Reference	e/F ×	±	o ×
← → C A Not secure bttps://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx						☆ :
	Fast Path		Q *, '	k- Χ θ-	Deepaks_us	• •••
★ WL001 × SM502 ×						
Policy Management				Fint V	🖉 Clear	🗙 E _X it
⊿ Resource Name						
Resource Type						
⊿ Policy Table						
View - + X 🖾 Detach						
NAME No data to display.	EFFECT	ACTION	DESCRIPTIC	N ROLES	COND	ITIONS
# / @ <u># 9 / # 2 00 00 10 10 10 10 10 10 10 10 10 10 10 </u>				,	~ 4) 戸 同	12:02 PM 4/21/2017

Figure 2–29 Policy Management

The following screen appears:

C A Not secure bitps://			{O Cross Reference × {O Cross Reference × {O Cross Ref	ference 🗙 👋 {O Cros	s Reference 🗙 👋	Summary of D∈	×	- 0
	/10.180.33.251:8002/com.ofss.fc.ui.view/faces	s/main.jspx						
BANKING PLATFORM	ting Date Apr 5, 2016			Fast Path		Q * * ·	X 0 - D	eepaks_us 🗸
WL001 × SM502 ×								
icy Management						ē	Print 🗸 O <u>k</u>	🖉 Clear 🗙
Resource Name								
	Resource com.ofss.fc.appx.origination	n.service.lending.core.application.Len	lingApplicationServiceSpi.confirmStructureSolution					
	Resource Type SERVICE							
olicy Table								
ew 👻 🕂 🗙 🚊 Detach								
		NAME		EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIO
ADMINISTRATORS_OBP_APP>	_ORIGINATION_SERVICE_LENDING_CORE_AP	PLICATION_LENDINGAPPLICATION	SERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORM_GR	EFFECT_GRANT	PERFORM	ADMINISTRATO	Administrators	
AUTHENTICATED_ROLE_OBP	_APPX_ORIGINATION_SERVICE_LENDING_COF	RE_APPLICATION_LENDINGAPPLIC	ATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFOR	EFFECT_GRANT	PERFORM	AUTHENTICATE	authenticated-role	

Figure 2–30 Enter Service for Policy Definition

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

/1	3 OBP DevOps x / 🖸 Crass Reference X 10 Cross Refe	ference × {0 Cro	ss Reference 🗙 🗸	Summary of De	×	- a ×
~	C A Not secure https://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx					☆ :
	E ORACLE Posting Date Apr 5, 2016	Fast Path		Q 🛧 😽 -	X 0 - D	eepaks_us 🗸 🚥
	★ WLQ01 × SM502 ×					
	Policy Management			ē	Print 🗸 O <u>k</u> 🔬	🗹 Clear 🗙 E <u>x</u> it
	Resource Name					
	Resource com ofss.fc.appx.origination.service lending.core.application.LendingApplicationServiceSpl confirmStructureSolution					
	Resource Type SERVICE					
	A Policy Table					
	View - + 🗙 🗟 Detach					
	NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIONS
	ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORM_GR	EFFECT_GRANT	PERFORM	ADMINISTRATO	Administrators	
	AUTHENTICATED_ROLE_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFOR	EFFECT_GRANT	PERFORM	AUTHENTICATE	authenticated-role	
E		•	٠			-
		EFFECT_DENY EFFECT_GRANT				
		circor_ordan				
-	I P 💷 📑 🧑 🍋 👰 🐯 🕜 🐁 🎽 🚿 📼 🚸 🙋 🌆 🧔 🛜				<u>^ 1</u>) 日日 (12:11 PM
- 41						◎ 🖓 🛡 4/21/2017

Figure 2–31 Effect of the Policy

Figure 2–32 Action of the Policy

A Not secure Letters/10.180.33.251.8002/com.otds.f Command FLATCHER Posting Date Agr 5, 2016 WLQ01 × 5M502 × cy Management Resource Name Resource Type SERVICE Policy Table ev + X I Detach	our-verwy ruid exprimating paper	FastPath			Y O → Do	epaks_us - Cjear X
WL01 × SM502 × cy Management Resource Name Resource com ots for Resource Type SERVICE	pps.origination service lending core application LendingApplicationServiceSpl confirmStructureSolution	FastPath				
y Management esource Name Resource Type SERVICE Olicy Table	pps origination service lending sore application LendingApplicationServiceSpi confirmStructureSolution			8	Print 🗸 O <u>k</u> 🥖	Clear 🗙
esource Name Resource com offs.fc. Resource Type SERVICE	pps.origination service lending.core application LendingApplicationServiceSpl.confirmStructureSolution			ē	Print 🗸 O <u>k</u> 🥖	Clear 🗙
Resource com obs.tr.: Resource Type SERVICE	pps.origination.service.lending.core.application.LendingApplicationServiceSpl.confirmStructureSolution					
Resource Type SERVICE	pps origination service lending core application LendingApplicationServiceSpl confirmStructureSolution					
Resource Type SERVICE	yr o nginaeon serrina minang core ay pinaeon cenong appinaeon serrina syn commiser coare sonenon					
olicy Table						
w 🔻 🕂 🗶 🗒 Detach						
	NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIC
	NG_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFOR		PERFORM	ADMINISTRATO	Administrators	
AUTHENTICATED_ROLE_OBP_APPX_ORIGINATION_SERVICE_	.ENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PI	RFOR EFFECT_GRANT	PERFORM	AUTHENTICATE	authenticated-role	
		•	•			-
			VIEW SHOW_ENABLE	D		
			SHOW_VALUE PERFORM	-		
				HOUT_APPROVALS		

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

w	Construct Posting Date: Apr 5, 2016 S01 × SM502 ×	Fast Path				
	201 × SM502 ×			9 * *	× 0 - D	epaks_us 🗸
icy M						
	nagement			ē	Print 🗸 O <u>k</u> 🤞	Clear 🗙 I
Reso	Irce Name					
	Resource com ofts fc appx origination service lending core application LendingApplicationServiceSpl confirmStructureSolution					
	Resource Type SERVICE					
Polic	Table					
ew 🔻	+ X 🔐 Detach					
	NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIC
AE	VINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORM_GR	EFFECT_GRANT	PERFORM	ADMINISTRATO	Administrators	
A	THENTICATED_ROLE_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFOR	EFFECT_GRANT	PERFORM	AUTHENTICATE.	authenticated-role	
AI	MINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORMWIT	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO.	. Administrators	
nding	Mabix_ProductGroup • = • PRODUCT_GROUP AND • + X					

Figure 2–33 Conditions of the Policy

2.2.1.2 SOA Composer Rules Setup

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

2.2.1.3 SMS Setup

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

The following procedure is performed during SMS setup:

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

	180.6.118:8002/com.ofss.fc.ui.view/faces/ma	in.jspx		\$
	Date 06-Oct-2016		Fast Path Q) 🛧 🛧 🗙 🚯 - OFSSUser - 🚥
Pa <u>r</u> ty Context	★ SM500 ×			
Search by Name •	Artifact Dependency Map			rēl Print 🗙 Exit
Criteria X >	▲ Resource Search	com.ofss.fc.appx.origination.service.lending.core.application.L endingApplicationServiceSpi.confirmStructureSolution		
	 Selecting items from suggest item list will resul For faster and finer searches, please use 'task-o's. For a combination of artifacts and general searches's sear	Human Marsenk. Home, Jesses enter search text containing the resource description. [Example : 'deposit cash' Home, and accurate search. Home and accurate search. Search 2014; COMPORENT: Exclusive Textures and and cashing and accurate search otherways and CLOSEPTICE (ComPORENT: Exclusive) - 'CAMPORE' Home and accurate search. Home a		
	ohea onea Auz			
	General Details Permissions App	roval Checks Service Attributes Service Javadoc		

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.

		Posting Date	06-Oct-2016							Fast Path		<u>م</u> *	*- X 0	OFSSUser
Pa <u>r</u> ty Co			<u>€ SM500 ×</u>											
earch by	Name 🔻		Artifact Depende	ency Map										會 Print)
riteria	Advanced Search	× →	Lcm - LimitsAccountApp Validate Availment Date For Disb SERVICE	Account - RateLockApplicati Fetch Valid Rate Lock Configuration For Account SERVICE	Origination - FundingTableDet Refresh Pricing Fees SERVICE	Party FinancialParamet Close Financial Parameter SERVICE	Config - RootCompositeTe Delete Root Composite Template SERVICE	Pm - ProductManufactu. Fetch All Active Products SERVICE	Party IdentityVerificatio Update Identity Verification History SERVICE	Party - PartyToAccountR Fetch Allowed Access Channels For Account SERVICE	Account - BundleInquiryAppl Fetch All Subscription Details SERVICE	Party - BureauReportApp Close Bureau Report SERVICE	Ins - InsuranceSimulati Fetch By Version SERVICE	Origination - OriginationBundle Is Edit Submission Required For Bundle SERVICE
			com.ofss.fc.appx Collection - CaseCentricActio Update SERVICE	com.ofss.fc.appx.l Loan - Loan ScheduleSim Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx Collection - SupervisoryLogDtl Create SERVICE	com.ofss.fc.appx.s Sms - InternalUserMana Maintain Users SERVICE	com.ofss.fc.appxr Resourceitem - ResourceItemLink. Delete Resource Item Linkage SERVICE	com.ofss.fc.appx Party - ImageApplication Update Image SERVICE	com.ofss.fc.appx.l Loan - LoanScheduleCon Get Current Stage For Loan Stage Configuration SERVICE	com.ofss.fc.appx Party - FatcaDetailsAppli Reopen Fatca Details SERVICE	com.ofss.fc.appx.t Td - InvestmentSimula Fetch Frequencies For Product SERVICE	com.ofss.fc.appx Collection - VendorAllocAlgLi Create SERVICE	com.ofss.fc.appx Dda - SweepOutInstruct Close Sweep Out Instruction SERVICE	com.ofss.fc.appx Ops - NounApplicationS Fetch Rollups SERVICE
			com.ofss.fc.appx Pricing - EventPriceApplica Get Compute Fee On Charge Date SERVICE	com.ofss.fc.appx.l Integration - MDMBatchIntegra Add M D M Batch Integration Log SERVICE	com.ofss.fc.appx Collection - ValidateVictimPa Read SERVICE	com.ofss.fc.appx.c Collection - ActionApplication Update SERVICE	com.ofss.fc.appx Pricing - TransactionDetail Add Transaction Details Analysis SERVICE	com.ofss.fc.appxl Loan - LoanApplicationS Validate Loan Account Configuration Step	com.ofss.fc.appx Party - FinancialStateme Reopen Financial Statement SERVICE	com.ofss.fc.appx Pricing - EventMaintenanc Inquire Event SERVICE	com.ofss.fc.appx Party - PartyLastActivityA Fetch Party Last Activity SERVICE	com.ofss.fc.appx.l Ins - PropertyInsuranc Save Selected Quote SEDUTCE	com.ofss.fc.appx Origination - LendingApplicatio Confirm Structure Solution Solution	com.ofss.fc.appx Pc - BillerCategoryApp Import Andfetch Biller Category SEDVICE
								SERVICE			SERVICE - OI	rigination - Lending/	opplicationservices	pi Confirm Structure
			General Details	» 🛱	roval Checks Ser	Service Att	ributes Service J	ivadoc	SEVER	TV				
			Branch Code H	dministrators		BRN	FC OR AGNT	201	IGNOF					
			1000 A			0			101101					
				dministrators		BRN	FC OR PD 00		IGNOE	F				,
			089999 A	dministrators		BRN	FC_OR_PD_00		IGNOF					,
			089999 A 3000 A	dministrators dministrators dministrators		BRN BRN BRN	FC_OR_PD_00		IGNOF	RE				
			089999 A 3000 A ANY A	dministrators		BRN		11	IGNOF	RE				•

Figure 2–35 Select the Service to be Configured

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

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

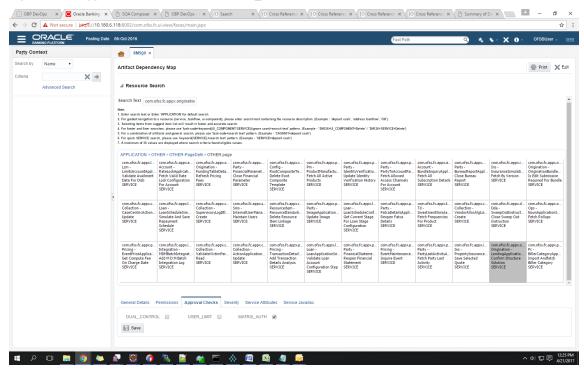


Figure 2–36 Approval Checks tab - MATRIX_AUTH

2.2.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

Not secure bttps://10.180.33.251:8002/com.ofss.fc.ui.view.application	faces/applicationForm?sid=SUB301020160003566&at=1		ф
	Form Posting Date Apr 5, 2016	Deepaks_us 🗸	
Submission Status			
Processing Status Submission SU	3301020160003566 has been processed.		
	d Group - Billing of \$200,000.00 for 2 years		
Parties Affiliates	Amrit Sarangi (00000220) -		
Application ID Borrowing Entity	APP301020160002801 Amrit Sarangi -: BE20160010000067		
Facility ID	FC20160960001761		
Approved Amount	\$200,000.00		
Decision Status Approval Expiry Date	Approved May 17, 2016		
		Track Application	
		тискерунскиот	

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.

	racle Banking Pla	atform X 🖸 App	lication Form X	× \				÷ _	٥	×
← → C ▲ Not secure bttps:/	/10.184.153.13	34:8002/integration/	/worklistapp/faces/home.jspx						1	2
DRACLE' BPM Worklist								Radia k	rish 🔻	
/iews 🕈 🥒 🗶 🛶	Actions 👻	I III	Q	e & My Group All 🔻 Assigned 🔻	1 E -	Numl	er Creator	Assigned	Priority	ł
box	ŧ	Approval Required	d for Structure Solution (FC_PR_Disburseme	nt_Fee+LN_DISBURSEMENT_FEE_OVR,DU	IAL_CONTROL,FC_PR_FEE_OVR) of Lending Applicatio	n 2033	74 JS	21/04/2017 6:21 PM	3 🔻	
My Tasks		Verify Application /	APP201020160002797 and Submission SU	3201020160003564		2033	63 JS	21/04/2017 5:40 PM	3	
Initiated Tasks	E	Structure Solution	of Lending Application APP2010201600027	97 and Submission SUB201020160003564		2033	62 JS	21/04/2017 5:40 PM	3	
My Staff Tasks			of Lending Application APP2010201600027				48 JS	21/04/2017 1:51 PM		
Administrative Tasks	B		APP201020160002792 and Submission SU				47 JS	21/04/2017 1:51 PM		
ews	⊞		anual Report - Nextstar Valuer [Request Ref of Lending Application APP2010201600027	# 0100116000001505/SUB2010201600035	50]		46 JS 42 JS	21/04/2017 12:23 P. 21/04/2017 12:18 P		
High Promy Past Day Past Week Past Month Past Quarter New Tasks	Approval Required for Structure Solution (FC_PR_Disbursement_Fee+L Authorizations FC_PR_Disbursement_Fee+LN_DISBURSEMENT_FEE_OVR/Fee neg Funds Table Outlay Funds Table				Funds	s been negotated for Price Definition: Disbursement_Fee and Reject Create Work Activity				
			Purchase or Cost	\$10,000.00	Facility		Escalate			
			Additional Parameters		Customer Contribution		Suspend			
			Bank Fees	\$585.60			Suspenu V			
			Misc Fees	\$165.00			-			

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

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

C A Not sec	cure bttps://10.180.	33.251:8002/com.ofss	.fc.ui.view/faces/main	.jspx							
	.E' Posting Date	Jan 31, 2016						Fast Path	Q) * *· X	i - OFSSUser
SM5 <u>0</u> 0 ×											
ifact Dependency	у Мар										Print
rch Text com.ofss.f	c.appx.originatio										
ter search text or Enter 'Al	PPLICATION for default search	.									
lecting items from suggest	t item list will result in faster	and accurate search.			cash', 'address taskflow', 'OK')						
a combination of artifacts	s and general search, please u	ise 'task-code+search text' patte	ern. (Example - 'CASA001+depo		PONENT+Delete' / 'SM126+SER	VICE+Delete')					
	dease use 'keyword(SERVICE) displayed where search criter	+search text' pattern. (Example ria found eligible values.	- 'SERVICE+deposit cash')								
PLICATION > OTHER	R > OTHER-PageDefn >	OTHER page									
m.ofss.fc.appx.collec	com.ofss.fc.appx.pm.s Pm -	com.ofss.fc.appx.origin	com.ofss.fc.appx.party	com.ofss.fc.appx.confi	com.ofss.fc.appx.pm.s Pm -	com.ofss.fc.appx.party	com.ofss.fc.appx.party	com.ofss.fc.appx.accou		com.ofss.fc.appx.collec	com.ofss.fc.appx.ins.se Ins -
llection - seCentricActionType	RewardApplicationSer	Origination - FundingTableDetailAp	Party - FinancialParameterAp	Config - RootCompositeTempla	ProductManufacturing	Party - IdentityVerificationHis	Party - PartyToAccountRelatio	Account - BundleInquiryApplicati	Party - BureauReportApplicati	Collection - VendorAllocAlgListApp	PropertyInsuranceSimu.
date RVICE	Add Reward SERVICE	Refresh Pricing Fees SERVICE	Close Financial Parameter SERVICE	Delete Root Composite Template SERVICE	Fetch All Active Products SERVICE	Update Identity Verification History SERVICE	Fetch Allowed Access Channels For Account SERVICE	Fetch All Subscription Details SERVICE	Close Bureau Report SERVICE	Create SERVICE	Save Selected Quote SERVICE
			SERVICE	SERVICE		SERVICE	SERVICE	SERVICE			
m.ofss.fc.appx.pricin	com.ofss.fc.appx.loan	com.ofss.fc.appx.collec	com.ofss.fc.appx.sms.s	com.ofss.fc.appx.resou	com.ofss.fc.appx.party	com.ofss.fc.appx.loan.s	com.ofss.fc.appx.party	com.ofss.fc.appx.td.ser	com.ofss.fc.appx.ins.se	com.ofss.fc.appx.dda.s	com.ofss.fc.appx.origin
cing - entPriceApplicationS	Loan - LoanScheduleSimulati	Collection - SupervisoryLogDtlAppli	Sms - InternalUserManagem	Resourceitem - ResourceitemLinkageA	Party - ImageApplicationServi	Loan - LoanScheduleConfigur	Party - FatcaDetailsApplicatio	Td - InvestmentSimulation	Ins - InsuranceSimulationSu	Dda - SweepOutInstructionA	Origination - LendingApplicationSer
t Compute Fee On arge Date	Simulate And Save Repayment Schedule	Create SERVICE	Maintain Users SERVICE	Delete Resource Item Linkage	Update Image SERVICE	Get Current Stage For Loan Stage	Reopen Fatca Details SERVICE	Fetch Frequencies For Product	Fetch By Version SERVICE	Close Sweep Out Instruction	Confirm Structure Solution
RVICE	SERVICE			SERVICE		Configuration SERVICE		SERVICE		SERVICE	SERVICE
n.ofss.fc.appx.accou	com.ofss.fc.appx.integ	com.ofss.f SERVICE - C	Collection - ValidateVictin	nPartyIdApplicationServi	ceSpi Read appx.loan	com.ofss.fc.appx.party	com.ofss.fc.appx.pricin	com.ofss.fc.appx.party	com.ofss.fc.appx.origin	com.ofss.fc.appx.ops.s	com.ofss.fc.appx.pc.bill.
count - iteLockApplicationSe tch Valid Rate Lock	Integration - MDMBatchIntegrationL Add M D M Batch	ValidateVictimPartyId Read	ActionApplicationServi	TransactionDetailsAna. Add Transaction Details	LoanApplicationServic Validate Loan Account	Party - FinancialStatementAp Reopen Financial	Pricing - EventMaintenanceAppl Inquire Event	Party - PartyLastActivityApplic Fetch Party Last Activity	Origination - OriginationBundleAppli Is Edit Submission	Ops - NounApplicationServic Fetch Rollups	Pc - BillerCategoryApplicati Import Andfetch Biller
nfiguration For count	Integration Log SERVICE	SERVICE	SERVICE	Analysis SERVICE	Configuration Step SERVICE	Statement	SERVICE	SERVICE	Required For Bundle SERVICE	SERVICE	Category SERVICE
RVICE	SERVICE			SERVICE	JEN VICE	Service			SERVICE		SERVICE .
neral Details Per	missions Approval Cl	necks Severity Serv	ice Attributes Service	Javadoc							
	1	Resource ID com.ofss.f	c.appx.origination.servic	e.lending.core.applicatio	n.LendingApplicationSe	rviceSpi.confirmStructure	eSolution				
	Resource	Description Origination	n - LendingApplicationSe	erviceSpi Confirm Struct	ure Solution						
	Re	source Type SERVICE									
	m.ofss.fc.ui.view/faces/ma										

Figure 2–39 Select the Service to be Configured

🔀 OBP DexOps x V 🖸 Oracle Banking Platform X	≛ - ¤ ×
← → C ▲ Not secure مجتبط //10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx	*
BANGING FLATTORIN Posting Date Jan 31,2016	Fast Path 🔍 🛧 🛧 🗙 🕥 - OFSSUser - 🚥
★ 5M5 <u>0</u> 0 ×	
Artifact Dependency Map	🖻 Print 🗙 Egit
Resource Search CASA001+OK CASA001+OK	
CASA001 Cash Deposit PAGE	
General Details Permissions Approval Checks Service Attributes Service Javadoc	
# A O = 🗑 🍬 R 🖾 😚 📓 🏘 🖻 🚸 🗐 🗞	> 中記目 985 M

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

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

= 0		te 06-Oct-2016							Fast Path		Q 📩	*- X 0-	OFSSUser 🗸	
BAN	KING PLATFORM	<u>₩ SM500 ×</u>							rastrau		<u> </u>	* ^ U	01000001	
arch by	Name •	Artifact Depende	nov Man										會 Print 🗙	
iteria	× →													
	Advanced Search	A Resource Sea	arch											
		Note: 1. Enter search text or Ent 2. For guided navigation to 3. Selecting items from su 4. For faster and finer sea 5. For a combination of ant 6. For guide. SERVICE sea	Search Text con dots (c appc origination) Include Control (Control (Contro) (Control (Control (Contro) (Contro) (Contre											
		APPLICATION > 01												
		com.ofss.fc.appx.l Lcm + LimitsAccountAppl Validate Availment Date For Disb SERVICE		com.ofss.fc.appx.o Origination - FundingTableDeta Refresh Pricing Fees SERVICE		com.ofss.fc.appx.c Config - RootCompositeTe Delete Root Composite Template SERVICE	com.ofss.fc.appx.p Pm - ProductManufactu Fetch All Active Products SERVICE	com.ofss.fc.appx.p Party - IdentityVerificatio Update Identity Verification History SERVICE	com.ofss.fc.appx.p Party - PartyToAccountRe Fetch Allowed Access Channels For Account SERVICE	com.ofss.fc.appx.a Account - BundleInquiryAppl Fetch All Subscription Details SERVICE	com.ofss.fc.appx Party - BureauReportAppl Close Bureau Report SERVICE	com.ofss.fc.appx.i Ins - InsuranceSimulati Fetch By Version SERVICE	com.ofss.fc.appx.o Origination - OriginationBundle. Is Edit Submission Required For Bund SERVICE	
		Con.ofss.fc.appx.c Collection - CaseCentricAction Update SERVICE	com.ofss.fc.appx.l Loan - LoanScheduleSim Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx.c Collection - SupervisoryLogDtl Create SERVICE	com.ofss.fc.appx.s Sms - InternalUserMana Maintain Users SERVICE	com.ofss.fc.appx.r Resourceitem - ResourceItemLink Delete Resource Item Linkage SERVICE	com.ofss.fc.appx.p. Party - ImageApplication Update Image SERVICE	com.ofss.fc.appx.l Loan - LoanScheduleConf Get Current Stage For Loan Stage Configuration SERVICE	com.ofss.fc.appx.p Party - FatcaDetailsAppli Reopen Fatca Details SERVICE	com.ofss.fc.appx.t Td - InvestmentSimula Fetch Frequencies For Product SERVICE	com.ofss.fc.appx.c Collection - VendorAllocAlgLis Create SERVICE	com.ofss.fc.appx.d Dda - SweepOutInstruct Close Sweep Out Instruction SERVICE	com.ofss.fc.appx.o Ops - NounApplicationS. Fetch Rollups SERVICE	
		com.ofss.fc.appx.p Pricing - EventPriceApplica Get Compute Fee On Charge Date SERVICE	com.ofss.fc.appx.i Integration - MDMBatchIntegrat Add M D M Batch Integration Log SERVICE	com.ofss.fc.appx.c Collection - ValidateVictimPar Read SERVICE	com.ofss.fc.appx.c Collection - ActionApplication Update SERVICE	com.ofss.fc.appx.p Pricing - TransactionDetail Add Transaction Details Analysis SERVICE	com.ofss.fc.appx.l Loan - LoanApplicationSe. Validate Loan Account Configuration Step SERVICE	com.ofss.fc.appx.p Party - FinancialStateme Reopen Financial Statement SERVICE	com.ofss.fc.appx.p Pricing - EventMaintenance Inquire Event SERVICE	com.ofss.fc.appx.p Party - PartyLastActivityA Fetch Party Last Activity SERVICE	com.ofss.fc.appx.i Ins - PropertyInsurance Save Selected Quote SERVICE	com.ofss.fc.appx.o Origination - LendingApplicatio Confirm Structure Solution SERVICE	com.ofss.fc.appx.p. Pc - BillerCategoryApp. Import Andfetch Biller Category SERVICE	
		General Details DUAL_CONTRO Save		roval Checks Se	verity Service Attr MATRIX_AUTH	ibutes Service Ja	vadoc							

Figure 2–41 Approval Checks tab - Add Approval Checks

Step 3 Configure Severity

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

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

Follow the below steps to configure severity:

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

	Posting Date	Jan 31, 2016									
SM500 ×								Fast Path	٩	* * * * *) - OFSSUser -
act Dependency N	Мар										🖻 Print 📏
Resource Search											
ch Text com.ofss.fc.a	appx origination										
ecting items from suggest ite faster and finer searches, pl a combination of artifacts an quick SERVICE search, plear	urce (service, taskflow, ui-co tem list will result in faster a blease use 'task-code+keywor nd general search, please us	nd accurate search. d[UI_COMPONENT/SERVICE](ig e 'task-code+search text' patter search text' pattern. (Example -	nore case)+search text' pattern n. (Example - 'CASA001+deposi	scription. (Example : 'deposit c . (Example - 'SM126+UI_COMPI t cash')		CE+Delete')					
LICATION > OTHER >	> OTHER-PageDefn > C	THER.page									
llection - F seCentricActionType F date A	com.ofss.fc.appx.pm.se Pm - RewardApplicationServ Add Reward SERVICE	com.ofss.fc.appx.origin Origination - FundingTableDetailApp Refresh Pricing Fees SERVICE	com.ofss.fc.appx.party Party - FinancialParameterApp Close Financial Parameter SERVICE	com.ofss.fc.appx.config Config - RootCompositeTempla Delete Root Composite Template SERVICE	com.ofss.fc.appx.pm.se Pm - ProductManufacturingA Fetch All Active Products SERVICE	com.ofss.fc.appx.party Party - IdentityVerificationHist Update Identity Verification History SERVICE	com.ofss.fc.appx.party Party - PartyToAccountRelatio Fetch Allowed Access Channels For Account SERVICE	com.ofss.fc.appx.accou Account - BundleInquiryApplicati Fetch All Subscription Details SERVICE	com.ofss.fc.appx.party Party - BureauReportApplicati Close Bureau Report SERVICE	com.ofss.fc.appx.collec Collection - VendorAllocAlgListApp Create SERVICE	com.ofss.fc.appx.ins.se Ins - PropertyInsuranceSimu Save Selected Quote SERVICE
cing - L entPriceApplicationS L t Compute Fee On S arge Date F	com.ofss.fc.appx.loan.s Loan - LoanScheduleSimulatio Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx.collec Collection - SupervisoryLogDtlAppli Create SERVICE	com.ofss.fc.appx.sms.s Sms - InternalUserManageme Maintain Users SERVICE	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 - InvestmentSimulationA 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 - LendingApplicationSen Confirm Structure Solution SERVICE
count - I teLockApplicationSe M tch Valid Rate Lock A nfiguration For I	com.ofss.fc.appx.integr Integration - MDMBatchintegrationL Add M D M Batch Integration Log SERVICE	com.ofss.fc.appx.collec Collection - ValidateVictimPartyId Read SERVICE	com.ofss.fc.appx.collec Collection - ActionApplicationServi Update SERVICE	com.ofss.fc.appx.pricin Pricing - TransactionDetailsAnal Add Transaction Details Analysis SERVICE	com.ofss.fc.appx.loan.a Loan - LoanApplicationService. Validate Loan Account Configuration Step SERVICE	com.ofss.fc.appx.party Party - FinancialStatementApp Reopen Financial Statement SERVICE	com.ofss.fc.appx.pricin Pricing - EventMaintenanceAppli Inquire Event SERVICE	com.ofss.fc.appx.party Party - PartyLastActivityApplic Fetch Party Last Activity SERVICE	com.ofss.fc.appx.origin Origination - OriginationBundleAppli Is Edit Submission Required For Bundle SERVICE	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Fetch Rollups SERVICE	com.ofss.fc.appx.pc.bill Pc - BillerCategoryApplicati Import Andfetch Biller Category SERVICE

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.

C 🔺	Not sec	ure bttps://10.180.	33.251:8002/com.o	fss.fc.ui.vi	iew/faces/main	.jspx								
OR/		E' Posting Date	Jan 31, 2016								Fast Path	Q) * *· X	1 - OFSSUser
SM500	_													
ifact Deper	ndency	Map												一 Print)
Cellection - CaseCentricActionType CaseCentricActionType BERVICE Com.ofts/Ecappu.epticin Pricing - berCharge Later Charge Date Descriptional Fee On Charge Date SerViceCentricationS Petch Visile Rate Lock Configuration For Account		Pm RewardApplicationSer Add Reward SERVICE	Origination - FundingTableDetailAp Refresh Pricing Fees SERVICE	Party - Financ Close I Param SERVIO	cial Parameter Ap Financial seter	Config RootCompositeTempla Delete Root Composite Template SERVICE	Pm - Product Fetch A SERVIC	 tManufacturing III Active Products E	IdentityVerificationHis 5 Update Identity Verification History SERVICE 	Party - Party - Alcount Relation Party - Alcount Relation Channels for Account SERVICE com.ofss.fc.appx.party Party - Party - Party - Party - Party - Party - Reopen Fatca Details SERVICE	Account BundleInquiryApplicati Fetch All Subscription Details SERVICE	Party - BureauReportApplicati Close Bureau Report SERVICE	Collection - VendorAllocAlgListApp Create SERVICE	Ins - PropertyInsuranceSimu Save Selected Quote SERVICE
		com.ofss.fc.appx.loan Loan - LoanScheduleSimulati Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx.colle Collection - SupervisoryLogDtlAppl Create SERVICE	Sms - li Interna	fss.fc.appx.sms.s ialUserHanagem ain Users ICE	com.ofss.fc.appx.resou Resourceitem - ResourceitemLinkageA Delete Resource Item Linkage SERVICE	Party -	ss.fc.appx.party ApplicationServi Image E			denomination of the second sec	. com.ofss.fc.appx.ins.se Ins - InsuranceSimulationSu Fetch By Version SERVICE	Dda -	com.ofss.fc.appx.origin Origination - LendingApplicationSer Confirm Structure Solution SERVICE
		com.ofss.fc.appx.integ Integration - MDMBatchIntegrationL Add M D M Batch Integration Log SERVICE	com.ofss.fc.appx.colle Collection - ValidateVictimPartyId Read SERVICE	Collect	ApplicationServi	com.ofss.fc.appx.pricin Pricing - TransactionDetailsAna Add Transaction Details Analysis SERVICE	com.ofss.fc.appx.loan Loan - LoanApplicationServic Validate Loan Account Configuration Step SERVICE		com.ofss.fc.appx.party Party - FinancialStatementAp Ropen Financial Statement SERVICE	com.ofss.fc.appx.pricin Pricing = EventMaintenanceAppl Inquire Event SERVICE	com.ofss.fc.appx.party Party - PartyLastActivityApplic Petch Party Last Activity SERVICE	com.ofss.fc.appx.origin Origination - OriginationBundleAppli Is Edit Submission Required For Bundle SERVICE	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Petch Rollups SERVICE	com.ofss.fc.appx.pc.bill Pc - BillerCategoryApplicati Import Andfetch Biller Category SERVICE
neral Details View 👻		hissions Approval Ch	ecks Severity S Detach	ervice Attril	ibutes Service	Javadoc								
Iranch Code				annel Id	Reason Code		_	SEVERITY						
2010	Admir	nistrators	BF	RN	1000									•
000	Admini	istrators	BRI	N	FC_PR_UDM_	OVR		IGNORE OVERRIDE						
000	Admini	istrators	BRI	N	FC_OR_AGNT	_001		NOTIFY REJECT OV	ERRIDE					
89999	Admini	istrators	BRI	N	FC_PR_UDM_	OVR		OVERRIDE_L OVERRIDE_R						
000	Admini	istrators	BRI	N	FC_PR_FEE_C	OVR		OVERRIDE						٣
NY	Admini	istrators	BRI	N	1000			IGNORE						٣

Figure 2–43 Add New Severity

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

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

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

Note

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

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

Figure 2–44 Save Severity Details

	Not secure bttps://10.180.		inclose the synthesis in the	doby.										
	ATFORM Posting Date	Jan 31, 2016								Fast Path	c) <u>*</u> * · X	j - OFSSUser	
SM500 3	<													
act Deper	ndency Map												Print	
LICATION	• OTHER > OTHER-PageDefn > 0	OTHER.page		ſ		ormation		×	1					
ection -	collec com.ofss.fc.appx.pm.s Pm -	com.ofss.fc.appx.origin Origination -	Party -	Config -	Message	es for this page a	are listed below.		.fc.appx.party	Account -	com.ofss.fc.appx.party Party -	com.ofss.fc.appx.collec Collection -	Ins -	
eCentricActio ate VICE	onType RewardApplicationSer Add Reward SERVICE	FundingTableDetailAp Refresh Pricing Fees SERVICE	FinancialParameterAp Close Financial Parameter SERVICE	RootCompositeTempl Delete Root Composi Template SERVICE				33021	ccountRelatio owed Access For Account	BundleInquiryApplicati Fetch All Subscription Details SERVICE	BureauReportApplicati Close Bureau Report SERVICE	VendorAllocAlgListApp Create SERVICE	PropertyInsuranceSimu Save Selected Quote SERVICE	
ofss.fc.appx	.pricin com.ofss.fc.appx.loan	com.ofss.fc.appx.collec	. com.ofss.fc.appx.sms.s	com.ofss.fc.appx.reso				ок	.fc.appx.party	com.ofss.fc.appx.td.ser	com.ofss.fc.appx.ins.se.	com.ofss.fc.appx.dda.s Dda -	com.ofss.fc.appx.origin.	
ng - htPriceApplic Compute Feo rge Date VICE	Loan - LoanScheduleSimulati e On Simulate And Save Repayment Schedule SERVICE	Collection - SupervisoryLogDtlAppli Create SERVICE	Sms - InternalUserManagem Maintain Users SERVICE	Resourceitem - ResourceItemLinkageA Delete Resource Item Linkage SERVICE	rceitem - rceitemLinkageA ImageAppl s Resource Item le SERVICE CE		ImageApplicationServi LoanScheduleConfigur. Update Image Get Current Stage For		etailsApplicatio Fatca Details E	Td - InvestmentSimulation Fetch Frequencies For Product SERVICE	Ins - InsuranceSimulationSu Fetch By Version SERVICE	SweepOutInstructionA Close Sweep Out Instruction SERVICE	Origination - LendingApplicationSer Confirm Structure Solution SERVICE	
ount -			Icling - Loan - Icoan - Party - Pricing - Party - Pricing - Icoan - Ic					PartyLastActivityApplic Fetch Party Last Activity	com.ofss.fc.appx.origin Origination - OriginationBundleAppli Is Edit Submission Required For Bundle SERVICE	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Fetch Rollups SERVICE	com.ofss.fc.appx.pc.bill. Pc - BillerCategoryApplicati Import Andfetch Biller Category SERVICE			
eral Details iew v	+ X 🗉 🔄 🔊	ecks Severity Sen Detach	vice Attributes Service	Javadoc		SEVERITY								
010	Administrators	BRN				OVERRIDE								
	Administrators	BRN	FC PR UDM	OVR		OVERRIDE								
00		BRN	FC OR AGN											
	Administrators					IGNORE OVERRIDE								
00	Administrators Administrators	BRN	FC PR UDM										•	

> C 🔽	Not secure bttps://10.180	.33.251:8002/com.c	ofss.fc.ui.vie	w/faces/mair	ı.jspx									
	ATFORM Posting Date	e Jan 31, 2016								Fast Path		<u> </u>	🕻 🛈 - OFSS	User 🗸
SM500 3	<													
rtifact Deper	idency Map												Prir	nt 🗙
PPLICATION >	OTHER > OTHER-PageDefn >	OTHER page												
com.ofss.fc.appx Collection - CaseCentricActio Update SERVICE	.colle com.ofss.fc.appx.pm.s Pm -		Party -	fc.appx.party ParameterAp ancial r	com.ofss.fc.appx.confi Config - RootCompositeTempla Delete Root Composite Template SERVICE	Pm -		com.ofss.fc.appx.party Party - IdentityVerificationHis Update Identity Verification History SERVICE	com.ofss.fc.appx.party Party - PartyToAccountRelatio Fetch Allowed Access Channels For Account SERVICE	com.ofss.fc.appx.accou Account - BundleInquiryApplicati Fetch All Subscription Details SERVICE	com.ofss.fc.appx.party Party - BureauReportApplicati Close Bureau Report SERVICE	com.ofss.fc.appx.colle Collection - VendorAllocAlgListAp Create SERVICE	com.ofss.fc.appx.ins. Ins - PropertyInsuranceSin Save Selected Quote SERVICE	n_
com.ofss.fc.appx Pricing - EventPriceApplic Get Compute Fee Charge Date SERVICE	Loan - ation LoanScheduleSimulati	com.ofss.fc.appx.colle Collection - SupervisoryLogDtlApp Create SERVICE	Sms -	fc.appx.sms.s serManagem Users	com.ofss.fc.appx.resou Resourceitem - ResourceItemLinkage Delete Resource Item Linkage SERVICE	Party -		Loan - ionServi LoanScheduleConfigur	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.s Ins - InsuranceSimulationS Fetch By Version SERVICE	com.ofss.fc.appx.dda.s Dda - SweepOutInstructionA Close Sweep Out Instruction SERVICE	com.ofss.fc.appx.orig Origination - LendingApplicationSe Confirm Structure Solution SERVICE	
com.ofss.fc.appx Account - RateLockApplica Fetch Valid Rate Configuration Fo Account SERVICE	Integration - MDMBatchIntegrationL Lock Add M D M Batch	com.ofss.fc.appx.colle Collection - ValidateVictimPartyId Read SERVICE	Collection	fc.appx.colle	com.ofss.fc.appx.pricin Pricing - TransactionDetailsAna Add Transaction Details Analysis SERVICE	Loan - Ana LoanApplicationServic.		com.ofss.fc.appx.party Party - FinancialStatementAp Reopen Financial Statement SERVICE	com.ofss.fc.appx.pricin Pricing - EventMaintenanceAppl Inquire Event SERVICE	com.ofss.fc.appx.party Party - PartyLastActivityApplic Fetch Party Last Activity SERVICE	com.ofss.fc.appx.origi Origination - OriginationBundleAppl Is Edit Submission Required For Bundle SERVICE	com.ofss.fc.appx.ops.s Ops - NounApplicationServic Fetch Rollups SERVICE	com.ofss.fc.appx.pc.b Pc - BillerCategoryApplica Import Andfetch Bille Category SERVICE	st
General Details		necks Severity S Detach	Service Attribu	ites Service	Javadoc									
Branch Code	Role ID	Ch	hannel Id	Reason Code			SEVERITY							_
2010	Administrators	В	BRN	1000			IGNORE							•
1000	Administrators	BR	RN	FC_PR_UDM	OVR		OVERRIDE							۲
3000	Administrators	BR	RN	FC_OR_AGN	_001		IGNORE							٠
089999	Administrators	BR	RN	FC_PR_UDM	OVR		OVERRIDE							٠
3000	Administrators	BR	RN	FC_PR_FEE_	OVR		OVERRIDE							

Figure 2–45 Update Severity and Save

Step 4 Testing Approvals

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

2.4 BPM Routing Rules Setup

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

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

Oracle Banking Platform	🗱 🗍 BPM Worklist	🗱 🔁 Oracle Banking Platform	🗙 🔂 🕂		
10.180.84.98:8001/inte	gration/worklistapp/faces/ho	me.jspx?_afrLoop=228914301904426&_afr	WindowMode=0&_adf 🖒 י	🖉 🕲 🔻 ty documenta	tion pdf download 🔍 🖖
Bookmarks 🔻 📄 APM 👻 📔	UI 🔻 📄 Worklist 👻 📄 EM 🔻	NewSecEnv 🔻 📔 HOST_CONSOLE 🔻	🗌 NGP Tracker 👻 JIRA 🛛	Assignments	
RACLE BPM Workl	ist		🝓 Home Admi	nistration Reports Preferen	nces Help Logout weblogic
lews -	🕯 My Tasks(18) 🔻 🕂 🧪 💥	🛛 🖾 Actions 🕶	🔍 👻 Me & My Gr	oup 💌 Assigned 💌	
	Title			Number Creator	Assigned Priority
inbox	PTP For Account Numbe			201244 OFSSUser	Mar 10, 2014 11:53 / 3 💌
My Tasks (18)	PTP For Account Numbe PTP For Account Numbe			201243 OFSSUser 201242 OFSSUser	Mar 10, 2014 11:12 / 3
Initiated Tasks	PTP For Account Numbe PTP For Account Numbe			201242 OFSSUser 201241 OFSSUser	Mar 10, 2014 11:09 / 3 Mar 10, 2014 10:28 / 3
Administrative Tasks		Lending Submission SUB854220180014838		201224 sasikumars	Mar 7, 2014 6:10 PM 3
liews		r Application APP854220180013136 and Submissi	on SUB854220180014838	201223 sasikumars	Mar 7, 2014 6:10 PM 3
Due Soon		r Application APP854220180013133 and Submissi	on SUB854220180014832	201218 Elangol	Mar 7, 2014 5:28 PM 3
High Priority		r Application APP854220180013130 and Submissi		201215 Elangol	Mar 7, 2014 5:26 PM 3
Past Day		lication APP854220180013131 and Submission SU	JB854220180014831	201212 divyam	Mar 7, 2014 5:24 PM 3
Past Week		Lending Submission SUB854220180014825 x Application APP854220180013129 and Submissi	00 5118954220190014925	201203 OFSSUser 201202 OFSSUser	Mar 7, 2014 4:54 PM 3 Mar 7, 2014 4:54 PM 3
Past Month	Serverine to structure of		101 SUBASE220118001184723	201202 10:55050	
Past Quarter		Please sele	t a task to see the details		
-					
New Tasks					
ly Views					
Agent Sourced Applications					
Branch wise Applications					
Channel wise Applications					
Collateral Tasks					
Shared Views					
Agent Sourced Applications					
Branch wise Applications					
Channel wise Applications					
Collateral Tasks					
	4				

Figure 2–46 Worklist App - Administration Link

3. Navigate to Task Configuration tab.

BPM Worklist - Mozilla Firefo	BPM Worklist	🗱 🖸 Oracle Banking Pla	tform 🗱 🕂		·	()) Mic	on Mar 10 12	2.09.45	Anno		÷
		ministration.jspx?_afrLoop=22943		indowMod	1 () - ()		umentatior	o odf dog	voload	Л	
		NewSecEnv HOST_CON						i pui uu			
ORACLE BPM Work					Administration		Droforoncos	Halp	ogout	weblogi	
Administration Evidence S		Task Configuration	C M	nome A	Autonistration	Reports	Freierences	neip i	logout	webiogi	
Administration	Application Preferences	Task Configuration							Save	Rever	rt -
Application Preferences V Flex Field Mapping Public Flex Fields											
Protected Flex Fields		Login page realm label	LABEL_LOGIN_REALM								
		Resource bundle	oracle.bpel.worklistapp.	resource.Wo	orklistResourceB	undle					
		Use language settings of (Browser 🔿 Identity Pr	ovider							
		User Name format (🔵 User Id 🖲 User Name								
		1	Branding And Skinning								
		Branding Logo	/afr/logo-oracle-red.png)							
		Branding Title	LABEL_WORKLIST_TITL	E							
		Choose a Skin	fusion								
		Application customization class name									
		Map Task actions to an image] →	1	-						
		E] →	1	•						
		Flex Field INTEGER Display	S								
	2	on.jspx? afrLoop=2294394390503									

Figure 2–47 Task Configuration

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

Figure 2–48 Search Task Types

Oracle Banking Platform	🗱 🗍 BPM Worklist	🗱 🖸 Oracle Banking Platform	*		
10.180.84.98:8001/inte	egration/worklistapp/faces/ac	dministration.jspx?_adf.ctrl-state=1d150ye	elve_47	🖙 👻 😵 ד ty documentation pdf download 🔍 🚽	7
Bookmarks 🔻 🚞 APM 👻 📔	UI 👻 📄 Worklist 👻 📄 EM 👻	🔻 📄 NewSecEnv 🔻 📄 HOST_CONSOLE 🔻	ONGP Track	ker 👻 JIRA 🗌 Assignments	
RACLE BPM Workl	ist		69	Home Administration Reports Preferences Help Logout weblo	ogic
dministration Evidence S	earch Approval Groups	Task Configuration			
Tasks to be configured	19 - B Task Rul				
				Select a task type from the list of task types to view or edit t	ther
rch AndConfigureLoanAccount	Show -			Select a dark type from the list of dark types to view of each	unci
ApplyHardshipReliefHumanTas	k (Search task types				
ApprovalHumantask (1.0)					
CaptureValuationRequestDetai					
CaptureValuationRequestDetai	IsAmendment				
ChangeRateHumantask (1.0) ChangeTermHumanTask (1.0)					
CloseLoanAccountHumantask	(1.0)				
CollAccountWriteOffHumanTas					
CollateralTitleSearchReportHu					
ConductMCDTask (1.0)					
ConsolidateLoansHumanTask ((1.0)				
CreateConsumerCreditInsuran					
CreateGeneralInsuranceHuma					
CreateMortgageInsuranceHum	anTask (1.0)				
CreateOfferHumanTask (1.0)					

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

Figure	2–49	Task	Editing
--------	------	------	---------

BPM Worklist - Mozilla Firefox	📨 🍂 🐠 Mon Mar 10 12:14:59 👤 Anirban Dhar 🤾
Oracle Banking Platform 🗱 💭 BPM	Worklist 🗱 🔁 Oracle Banking Platform 🗱 🙀
I0.180.84.98:8001/integration/work	listapp/faces/administration.jspx?_adf.ctrl-state=1d150yelve_47 🔅 😴 😢 🕇 ty documentation pdf download 🍳 🖖 🤮
🔤 Bookmarks 🔻 📄 APM 👻 📄 UI 👻 📄 Wor	rklist 🔻 📄 EM 👻 📄 NewSecEnv 👻 📄 HOST_CONSOLE 👻 🗌 NGP Tracker 🛛 👻 JIRA 🗌 Assignments
ORACLE BPM Worklist	🥘 Home Administration Reports Preferences Help Logout weblogic 🧲
Administration Evidence Search App	roval Groups Task Configuration
Tasks to be configured 🥒 🖓 🕞 💀	Task Rules
Search PAndConfigureLoanAccount () Show -	B HT_LoanSpi_CreateAndConfigureLoanAccount : Event Driven Configuration
🕅 HT_LoanSpi_CreateAndConfigureLoanAcce	Task Aggregation None
	On Error Notify
	Allow all participants to invite other participants
	Allow participants to edit future participants
	Allow initiator to add participants Assignment and Routing Policy Enable auto claim
	Complete task when participant chooses Reject
	Enable early completion of parallel subtasks
	Complete parent tasks of early completing subtasks
	Separation and Escalation Policy
	Never Expire
	⊻ Notification Settings
	Image: Second
	Task Status Recipient Header
	Assign Assignees / Complete Initiator / Make notifications secure (exclude details)
	Error Owner 🥒 🗌 Make notification actionable
	Send task attachments with email notifications Don't send multiple notifications for the same human task event
	Don't sena indiaple indiadadis for the same number dask event
	No reminders
	> Task Access

6. Click the Edit icon.

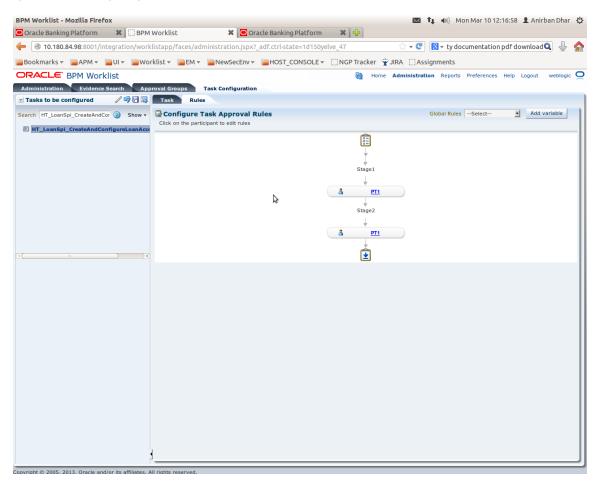


Figure 2–50 Configuring Rules - Edit Icon

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

Oracle Banking Platform 🛛 🗱 🗍 🗔 BPM	Worklist 🖇	Cracle Banking Plat	form 🗱 🖶		
10.180.84.98:8001/integration/work	listapp/faces/administrati	on.jspx?_adf.ctrl-state=1	d150yelve_47	🖙 😴 🚷 🔻 ty do	ocumentation pdf download 🔍 🐥
Bookmarks 🔻 📄 APM 👻 📄 UI 👻 📄 Wor	klist 🔻 📄 EM 👻 📄 NewS	ecEnv 🔻 📔 HOST_CONS	OLE 🔻 🗌 NGP Tracker 🖇	JIRA Assignments	
RACLE BPM Worklist			🝓 Hom	e Administration Reports	Preferences Help Logout weblog
dministration Evidence Search App	roval Groups Task Conf	iguration			
Tasks to be configured 🥢 🗐 🗔 🔜	Task Rules				
arch HT_LoanSpi_CreateAndCor 🕑 Show -	Back to the Participant Tree				
HT_LoanSpi_CreateAndConfigureLoanAcc					Validate Ignore this participant
	(x) Globals				
	Ø Bucketsets	<pre>\$ ST1_PT1_RS</pre>	View IF/THEN Rules	💠 👻 🗘 🌾 🕹 🕹	5 🗹 🖙
	P Links	💠 🗙 🗘 🖑 🚜 🗸			
	Occision Functions Translations				
		≥ ¥ □ Rule1	S		2
	Rulesets 👍 💥	> × Rule2	S		
	ò ST1_PT1_RS	> > Rule4			
	ModificationRules				
	SubstitutionRules	> > Rule5	٩		
	ST2_PT1_RS	> × Rule3			
	ST3_PT1_RS				
		4			
	Business Rule Validation	- Log			-
	Message			Dictionary Object	
	No validation errors/warning	s found!)

Figure 2–51 Configuring Rules - Rules tab

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

Figure 2–52 Expand Rule

Oracle Banking Platform	🗱 🗍 BPM Worklist	🗱 🖸 Oracle Banking Pl	atform 🗱 🖶		
10.180.84.98:8001/integ	gration/worklistapp/faces/admi	nistration.jspx?_adf.ctrl-state=	1d150yelve_47	🗇 👻 😢 🛛 🕁 ty docun	nentation pdf download 🔍 👃
300kmarks 🔻 📄 APM 👻 📄	UI 🔻 🚞 Worklist 👻 📄 EM 👻 👔	NewSecEnv 🔻 📔 HOST_CON	ISOLE 🔻 🔅 NGP Tracker	¥JIRA Assignments	
RACLE BPM Worklis	st		🔞 Hon	ne Administration Reports Pr	eferences Help Logout weblogic
Iministration Evidence Se	arch Approval Groups Ta	sk Configuration			
Tasks to be configured	/ 🧐 🗟 🛐 🛛 Task 🔹 Rules				
rch HT_LoanSpi_CreateAndCor	Back to the Participat	at Tree			
HT_LoanSpi_CreateAndConfi	gureLoanAcco			V	alidate Ignore this participant
	(x) Globals				
	Bucketsets	¥ ST1_PT1_RS	View IF/THEN Rules	💠 👻 🛛 🗇 🚺 1-5 of 5 💆	4
	P Links				
	🕀 Decision Func	tions			
	🚳 Translations	≥ ¥ □ Rule1	S		
	Rulesets		Control 1		
	ST1_PT1_R				
	ModificationRi	≥ ≈ □ Rule4	S		
	SubstitutionR		S		
	ST2_PT1_RS	Expand			
	ST3_PT1_RS	Expand Rule3	2		
	△ ▼				-
	Business Rule V	lidation - Log			
	Message No validation errors	warnings found!		Dictionary Object	
	(narnings round.))
	4				

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

Oracle Banking Platform 🛛 🗱 🗍 BPM	Worklist	Cracle Banking Platform	* 🖶			
10.180.84.98:8001/integration/work	istapp/faces/administrat	ion.jspx?_adf.ctrl-state=1d150y	elve_47	े • C	ty documentation pdf download	Q 🕹 (
Bookmarks 🔻 📄 APM 👻 📄 UI 👻 📄 Wor	klist 🔻 📄 EM 👻 📄 New	SecEnv 🔻 📄 HOST_CONSOLE 🔻	🗌 NGP Tracker 👌	JIRA CAssignme	nts	
DRACLE BPM Worklist			🝓 Home	Administration Re	ports Preferences Help Logout	weblogic
Administration Evidence Search App	oval Groups Task Con	figuration				
Tasks to be configured 🛛 🥒 🗐 🗔 🗔	Task Rules					
earch HT_LoanSpi_CreateAndCor () Show -	Back to the Participant Tree					
HT_LoanSpi_CreateAndConfigureLoanAcco					Validate Ignore this par	ticipant
	(x) Globals					
	(k) Bucketsets	¥ ST1_PT1_RS Vie	w IF/THEN Rules	∔ - % (⊐ 1	-5 of 5 🔹 🖙	
	P Links		_			
	Decision Functions	🕂 💥 🗘 🖓 🐰 🗸				
	Translations	> × 🗌 Rule1	S			
	Rulesets 🔒 😪					
	Rulesets 👍 💥	≥ ¥ □ Rule2	6			
	ò ST1_PT1_RS	> × Rule4	6			
	ModificationRules					
	SubstitutionRules	⊻ 🚡 🗆 Rule5	۹.			=
	ST2_PT1_RS	IF Show Advanced Setting	s			
	ST3_PT1_RS	☆ 등 牀 ◄ 중 ◄				
		Task		🔍 isn't	null	
		Task.payload.reasonCod	25	🔍 contains	FC_PR"	
		THEN				
		יוסס ע איוד				
		List Builder App				
		Response Type 🖲 R				-
]				-
	Business Rule Validatio	n - Log				
	Message No validation errors/warning	is found!		Dictionary Object		
	(1)))))

Figure 2–53 Advanced Settings

Figure 2–54 Rule Expansion

BPM Worklist - Mozilla Fire		🔯 🔹 🗤 Mon Mar 10 12:21:31 💄 Anirban Dhar	ψ
Oracle Banking Platform	🗱 🗍 BPM Worklist		
10.180.84.98:8001/	integration/worklistapp/	faces/administration.jspx?_adf.ctrl-state=1d150yelve_47 🔅 🛛 😋 😢 🕇 ty documentation pdf download 🔍 🐰	n
Bookmarks 🔻 📔 APM 🔻	📄 UI 🔻 📄 Worklist 🔻	📄 EM 🔻 📄 NewSecEnv 🔻 📄 HOST_CONSOLE 🔻 🔅 NGP Tracker 👻 JIRA 🔅 Assignments	
ORACLE' BPM Wor	rklist	🝓 Home Administration Reports Preferences Help Logout weblogic	: 0
Administration Evidence		Task Configuration	
✓ Tasks to be configured			
Search HT_LoanSpi_Create/	lack to the Participant Tree		
🕅 HT_LoanSpi_CreateAr		Validate Grove this participant	
	(x) Globals		
	Bucketsets	ST1_PT1_RS View IF/THEN Rules 🗹 💠 🗸 🌾 1-5 of 5 💆 🖒	
	Links Decision Functions	🚔 % 습 🕹 😹 🗸	
	Translations		
	Rulesets 斗 😪	× Rule5	
	Rulesets 🕂 💥	Description FC_PR with ApprovalGroup1	
	<pre>\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>		
	ModificationRules	Effective Always	
	SubstitutionRules ST2_PT1_RS	Date Date Compared Active Advanced Mode Tree Mode	
(40	ST3_PT1_RS		
		IF	
		☆ 문· ₩ + @ +	
		Task 🔍 isn't 🗾 null 🔍 a	
		Task.payload.reasonCodes	
		۵	
		THEN	
		♣ • ※ ☆ ♪ ※ •	
		List Builder Approval Group	
		Response Type Required PYI Approval Group Select	
		Allow empty groups True	
		Rule Name "Rule5"	
		🗌 retract + Task	
1			
Copyright © 2005, 2013, Oracle a	nd/or its affiliates. All rights re	eserved.	_

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

acle Banking Platfor	m 🕷	BPM Worklis	t	🗱 🔽 Or	acle Banking Platform	×)							
10.180.84.98:800	01/integrat	ion/worklistapp/	faces/adn	ninistration.jspx?	_adf.ctrl-state=1d150y	elve_47		☆ ·	° C 🛽	⇒ ty doo	umentatior	n pdf downloa	ad 🔍 🚽
okmarks 👻 📄 APM	👻 📄 U I 🔻	📄 Worklist 🔻	EM ▼	NewSecEnv 🔻	HOST_CONSOLE 🔻		Tracker	¥ JIRA	Assign	nents			
ACLE BPM W	/orklist						Hom	ne Admin	istration	Reports	Preferences	Help Logou	weblo
ninistration Evid	ence Search	Approval Gr	oups	ask Configuration	1								
isks to be configured	Task	Rules											
h HT_LoanSpi_Create	Back to the	e Participant Tree											
HT_LoanSpi_CreateA											Validate	Ignore this p	articipant
	(x) Glo	bals											
	🌮 Bu	cketsets	¥ ST1_P	T1_RS	View IF/THEN Rules	♣ - >	\$ 4	1-5 of 5	- 🔿				
	₿ Lin		.	☆ & ∦ -									
	-	cision Functions	• • •										
	🦕 ira	nslations	<u>~</u> * (Rule5	۹.								
	Rules	ets 👍 🗙	Dese	ription FC_PR wit	th ApprovalGroup1								
	🚳 ST	1_PT1_RS											
	🛞 Mo	dificationRules		ffective	-								
		bstitutionRules		Date Always	_								
		2_PT1_RS		Priority Medium		e	🗌 Adv	anced Mod	e		C Tree	e Mode	
	🧼 SI.	3_PT1_RS	IF										
			<u>⊕</u> 5	×									
						Q	isn't	•	null				Q a
				Task.payload.reasor	nCodes		contains		"FC PR"				
			THEN	I									
			-	• 🗙 🕆 🕹 🚜	•								
				List Builder	Approval Group								
					Required O FYI								
				Approval Group			•						
				Allow empty groups Rule Name		_							
			_	retract • Task	Rules								
				Idsk Idsk				<u></u>					
			a										

Figure 2–55 Enabling Rule

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

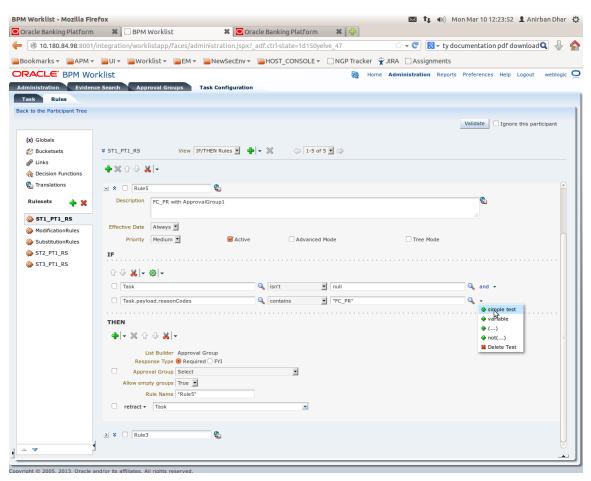


Figure 2–56 Adding New Row of Condition

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

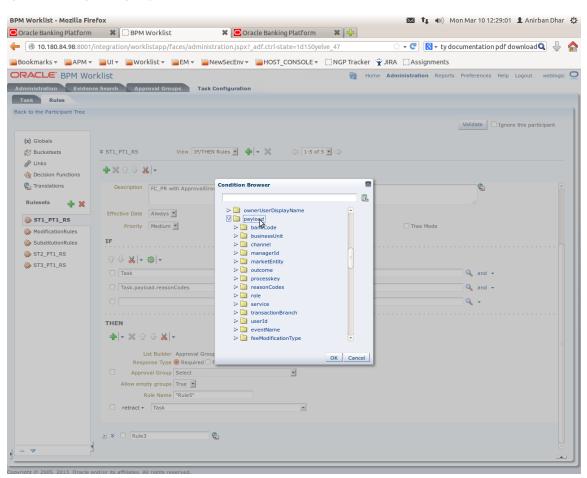
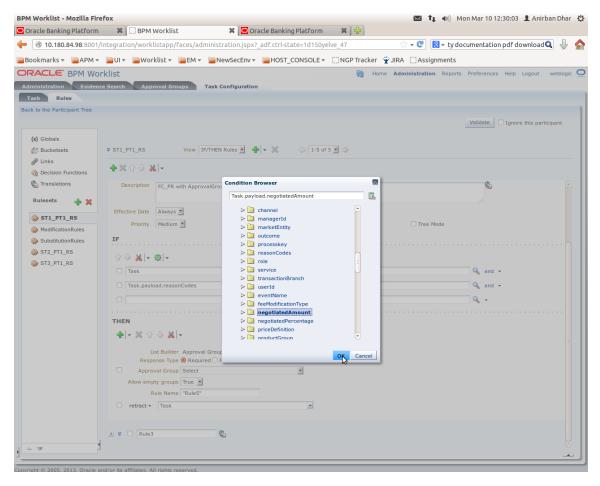


Figure 2–57 Expanding Payload

Figure 2–58 Selecting Fact



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

ookmarks 👻 📄 APM 👻	integration/worklistann/							
	neegi delony worktiseuppy	/faces/administration.jspx?_adf.ctrl-state=1d150	elve_47			🕶 🕑 🚺 🔻 ty d	ocumentation pdf d	ownloa 🔍 🕹
	📔 UI 🔻 📄 Worklist 🔻	EM • NewSecEnv • HOST_CONSOLE		P Tracker 🛭 👻 JI	IRA [Assignments		
ACLE BPM Wor	klist			🝓 Home 🖊	Admin	istration Reports	Preferences Help	Logout weblogi
ministration Evidenc	e Search Approval Gro	oups Task Configuration						
asks to be configured								
ch HT_LoanSpi_Create/ B	ack to the Participant Tree							
HT_LoanSpi_CreateAr							Validate Ignore	e this participant
	(x) Globals					-		
	C Bucketsets	ST1_PT1_RS View IF/THEN Rules	+ -	× 🗘 1-5	5 of 5	- =>		
	Links Decision Functions	🛖 💥 🔂 🖖 🐰 🗸						
	Translations	Effective						
	-	Always 💌						
	Rulesets 🕂 💥	Priority Medium 🗹 🥑 Act	ve	Advance	ed Mode	2	Tree Mode	
	ò ST1_PT1_RS	IF						
	ModificationRules	û ⊕ ¥ - ∰ -						
	SubstitutionRules	□ ✓ 💑 * 16/4 *	0	isn't	=1	null		Q a
	<pre>\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>							
	W 313_FT1_K3	Task.payload.reasonCodes		contains		"FC_PR"		Q a
		Task.payload.negotiatedAmount	4	isn't	•	null		Q, a
		Task.payload.negotiatedAmount	9	same or less that	n <u>•</u>	50000		۹
		THEN						
		List Builder Approval Group Response Type Required FYI				\$		
		Approval Group Select		•		~		
		Allow empty groups True 💌						
		Rule Name "Rule5"						
		□ retract ▼ Task		•				
		≥ × 🗌 Rule3						
	△ ▼							

Figure 2–59 Updating Fact Value

Note

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

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

Figure 2–60 Select Approver Group

			ary of Security Rea				
	/integration/worklistapp/faces/administratio				े र C		۹ 🕹
	📄 UI 🔻 📄 Worklist 🔻 📄 EM 👻 📄 NewSe	ecEnv 🔻 📔	HOST_CONSOLE -	🗌 NGP Tra	icker 🏆 JIRA 🗌 Assignment	S	
RACLE BPM Wo	rklist			62	Home Administration Repo	orts Preferences Help I	Logout weblogic
ministration Eviden	ce Search Approval Groups Task Config	iguration					
ask Rules							
k to the Participant Tree							
						Validate Ignore	this participant
(x) Globals							
Ø Bucketsets	* ST1_PT1_RS View IF/THEN Rules	es 🗾 💠 👻	X 🗇 1-5 o	5 🗾 🖙			
P Links	-+ ≈ ☆ ↓ × -						
Occision Functions Translations							
	Description FC_PR with ApprovalGroup1					C	Î
Rulesets 👍 💥							
ò ST1_PT1_RS	Effective Date Always						
ModificationRules	Priority Medium 🗾	Active	Advanced	Mode	Tree Mode		
ò SubstitutionRules	IF						
ST2_PT1_RS	**						
ST3_PT1_RS	☆ 및 <mark>米</mark> + ↔						
	☆ & ¥ - ⊗ - □ [Task	٩	isn't	Inull		🔍 and 🕶	
				▼ null ▼ "FC_PR"		Q₀ and →	
	Task	Q	contains	_			
	Task.payload.reasonCodes	Q	contains	FC_PR"		🔍 and 👻	
	Task Task.payload.reasonCodes Task.payload.negotiatedAmount	Q	contains isn't	FC_PR"		Q and ▼	
	Task Task.payload.reasonCodes Task.payload.negotiatedAmount	Q	contains isn't	FC_PR"		Q and ▼	
	Task Task.payload.reasonCodes Task.payload.negotiatedAmount Task.payload.negotiatedAmount	Q	contains isn't	FC_PR"		Q and ▼	
	Task Task.payload.regotiatedAmount Task.payload.negotiatedAmount THEN	Q	contains isn't	FC_PR"		Q and ▼	
	□ Task □ Task.payload.reasonCodes □ Task.payload.negotiatedAmount □ Task.payload.negotiatedAmount ■ Task.payload.negotiatedAmount ■ ThEN ♣ < ※ ☆ ☆ & <	Q	↓ contains ↓ isn't ↓ same or less than	FC_PR"		Q and ▼	
	□ Task □ Task.payload.regotiatedAmount □ Task.payload.negotiatedAmount □ Task.payload.negotiatedAmount ■ Then ● < ※ ۞ ۞ & <	Q	contains isn't	FC_PR"	6	Q and ▼	
	□ Task □ Task.payload.regotiatedAmount □ Task.payload.negotiatedAmount □ Task.payload.negotiatedAmount ■ THEN ▲ < ※ ↔ ↔ ▲ <	Q	↓ contains ↓ isn't ↓ same or less than	FC_PR"	6	Q and ▼	
	□ Task □ Task.payload.regotiatedAmount □ Task.payload.negotiatedAmount □ Task.payload.negotiatedAmount ■ THEN ▲ ▼ ※ ☆ ♪ ※ ↓ ▼ List Builder Approval Group Response Type ● Required ○ Y1 Approval Group FEE_APPROVER Allow empty groups True ■ Rule Name "Rule5"	Q	, contains isn't , same or less than	FC_PR"	ß	Q and ▼	
	□ Task □ Task.payload.regotiatedAmount □ Task.payload.negotiatedAmount □ Task.payload.negotiatedAmount ■ THEN ▲ < ※ ↔ ↔ ▲ <	Q	↓ contains ↓ isn't ↓ same or less than	FC_PR"	ß	Q and ▼	

16. Save and commit the rule and the task.

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

3 Defining Task Configuration Rules

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

3.1 Important Rule Artifacts

This section provides information about important rule artifacts.

3.1.1 Rules Dictionary

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

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

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

Figure 3–1 SOA Composer - Open Rules Dictionary Browser

Create Session	nposer
Deployment View	Image: String

Figure 3–2 SOA Composer – Selecting Rules Dictionary

	ACLE SOA Compose	er
+	Create Session	
Deploy	yment View 🔻 🕥 📑	
Filter	VerifyApplication Q	
Infra		1
ompos	ites	
📰 defa	ault	
⊿ н	com.ofss.fc.workflow.process.Verify	A
	TaskConfigBaseRules.rules	
	🎎 VerifyApplicationHT.task	
	VerifyApplicationHTRules.rules	
	VerifyApplicationHTRulesBase	
	VerifyApplicationTaskConfigRu	ŀ
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

CRACLE' SOA Composer Create Session	
Deployment View V C Fr	VerifyApplicationTaskConfigRules.rules ×
A Infra (Composites iiii default iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Image: WerifyApplicationTaskConfig Name VerifyApplicationTaskConfigRulesDecisionService Image: WerifyApplicationTaskSTPRul Description Image: Description Rule Firing Limit 10000 Image: WerifyApplicationTaskStpRul Image: Description Image: Description
☆ VerifyApplicationHTRules.rul 출 VerifyApplicationHTRulesBa: 출 VerifyApplicationTaskConfi tadata	Rulesets are on stack once Tests Tests
	assert w new taskConfigurationRuleCutcome()

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

OBP DevOps - Your OBP 🗙 🔀 OBP DevO	s X Y [OBPR26-4099] R2.6_Syst X C Application Form	× V 🗅 soa-infra (SOA Infrastruc 🗙 V 🗅 BPM Worklist	× C SOA Composer ×	
← → C ① 10.180.87.63:8001/soa/com	oser/faces/home?_adf.no-new-window-redirect=true			☆ :
ORACLE' SOA Composer				Links v ofssuser v
+ Create Session				٩
Deployment View 🔻 🕁 🖙	rifyApplicationTaskConfigRules.rules ×			2 ~ H E E 0 x -
Filter VerifyApplication Q	🚱 Rules 🛛 🗐 Value Sets 🛛 🚱 Globals 🔓 Business Phrases 🛛 😡 Te	sts 🚑 Translations Advanced > 🔍 Explorer 🔢 Facts 🚸	Decision Properties de Links	Actions +
)A Infra	PriorityAndOwnerRuleSet View Properties			
Composites	PriorityAndOwnerRuleSet ype V DefaultRule Prop	erties		
default	FirstStageAssignmentRuleSet			
TaskConfigBaseRules.rules	SLARuleSet applicationSumma	ryDTO is a applicationSummaryDTO		
VerifyApplicationHT.task	CustomAttributesRuleSet Click + to add an	IF test condition		
VerifyApplicationHTRules.rul	TaskSTPRuleSet and	is a customAttributes		
VerifyApplicationHTRulesBar	Add New Ruleset Click + to add an			
stadata	and			
	taskConfiguration	RuleOutcome is a taskConfigurationRuleOutcome		
	Click + to add an	IF test condition		
	THEN			
	assign .	<pre>r taskConfigurationRuleOutcome.taskPriority = getTaskPriority(applica</pre>	tionSummaryDTO.header.priority)	
	assign	<pre>r taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser()</pre>	applicationSummaryDTO.header.initiatedBy)	
	<			•
4	agnostics History Center Logs			
		2 1 1 1 1		workspace ³⁰ Oracle ³⁰ A 🏴 💭 🌜 10:00 AM

Figure 3–5 shows what a ruleset looks like.

Figure 3–5 SOA Composer - Viewing a ruleset

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

3.2 Inputs to Decision Function

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

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

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

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

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

3.2.1 Custom Input Attributes

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

- CustomTextAttributeList
- CustomNumberAttributeList
- CustomDateAttributeList

Each of these members has a list of respective types,

- CustomTextAttribute
- CustomNumberAttribute
- CustomDateAttribute

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

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

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

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

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

Figure 3–7 shows example usage of custom attributes.

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

```
assign new 

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

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

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

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

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

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

3.3 Output from Decision Function

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

Figure 3–8 shows output definition of decision function.

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

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

3.3.1 List of Configurable Attributes in Rule Outcome

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

1. Task Priority

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

2. Service Level Agreement (SLA)

SLA consists of taskExpirationDuration and taskDueDuration.

To set SLA for the human task:

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

For example:

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

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

P is a literal value that starts the expression

nY represents n years

nM represents n months

nD represents n days

T is a literal value that separates date and time

nH represents n hours

nM represents n minutes

nS represents n seconds

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

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

3. Task Owner

Task owner can be set via following steps:

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

For example:

assign taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser("user1")

4. Stage Participant

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

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

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

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

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

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



5. Custom Output Attributes

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

- addCustomTextAttribute
- addCustomNumberAttribute
- addCustomDateAttribute

Figure 3–10 shows example usage of custom attributes.

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

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

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

 addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)

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

 assign < dummyCustomInputNumber = dummyCustomInputNumber + 7</td>

 addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)

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

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

 addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)

3.3.2 List of Functions to Set Rule Outcome

Following functions are available to configure the TaskConfigurationRuleOutcome:

1. getTaskPrioriy(String priority): int

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

This method can be used when assigning the TaskConfigurationRuleOutcome.taskPriority

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

3. createParticipantFromUsers(String users): ParticipantSet

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

4. createParticipantFromGroups(String groups): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. addUserAttributeFilterCriteria (UserFilterCriteriauserFilterCriteria, UserAttributeFilterCriteria): UserFilterCriteria

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

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

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

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

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

12. addStageParticipant

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome, StageParticipant stageParticipant): TaskConfigurationRuleOutcome

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

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

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

13. createTaskOwnerUser(String ownerUser): ParticipantSet

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

14. createTaskOwnerGroup(String ownerGroup): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

18. addStageParticipantWithStageNam

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome,StageParticipant stageParticipant,StringstageName): TaskConfigurationRuleOutcome

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

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

4 Data Management

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

4.1 Batch Execution

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

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

This section explains the steps involved in Batch Execution.

Note

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

4.1.1 Database Backup

Perform Database Backup before starting with the Batch Execution.

4.1.2 Navigate to End of Day Page

To navigate to the End of Day page:

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

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

E ORACLE [®]	Fast Path/Screen Name Q 🗏 🛧 Posting Date Jul 24, 2017 t3010 - E	
* E0D1 <u>0</u> ×		
End of Day	Print 🗷 Clear 💥 E <u>x</u> it	
✓ Category Details	,	1
* Process Category	Category Status	
Job Type	Process Date	1
Job Code 😡	Next Process Date	1
Category Start Time	Category End Time	1
Polling Interval	Last Refreshed Time	
✓ Process	Q Restart Start Recover	
✓ Shell Details	Ģ	
Clear All Filters		l
View v The Export To Excel R Detach		

4.1.3 Cutoff Category Execution

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

To execute the Cutoff category:

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

Process Category	Cutoff
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–2 Cutoff Category - Not Started

								Fast Path/Screen Name 🔍 🗏 📩	Posti Jul 2	ng Date 4, 2017 t30	10 - 🚥
TEOD10 ×											
End of Day									Pr	int 🧷 C <u>l</u> ea	r 🗙 E <u>x</u> it
✓ Category Details											
Process Category Cutoff	~							Category Status Fresh Start			
• Job Type GROUP 🗸								Process Date Jul 21, 2017			
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017			
Category Start Time								Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 11:55:55			
⁴ Process									Q Re	start Start	Recover
A Shell Details											Ģ
Clear All Filters											
View 👻 彈 Export To Excel											
	~										
Name of Shell	Status	Trend [Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Cutoff Prologue	Not Started	Trend (00:00:00								
¢											>

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

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

Figure 4–3 Cutoff Category - Start

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

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

Figure 4–4 Cutoff Category - Complete

								Fast Path/Screen Name 🔍 🗏 🛧	Posting Date Jul 24, 2017	τ3010	• •••
fod10 ×											
End of Day									Print d	🗉 Clear	🗙 Exit
✓ Category Details											
* Process Category Cutoff	\sim							Category Status Completed			
* Job Type GROUP 🗸								Process Date Jul 21, 2017			
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017			
Category Start Time 03-Apr-2018 11:58:	1							Category End Time 03-Apr-2018 11:58:11			
Polling Interval								Last Refreshed Time 03-Apr-2018 11:58:20			
' ⊿ Process									Restart	Start	Recover
⊿ Shell Details											Ģ
Clear All Filters											
View 👻 🎢 Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Cutoff Prologue	Complete	-	00:00:00		0	0					

4.1.4 End of Day (EOD) Category Execution

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

To execute the End of Day category:

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

Process Category	End of Day
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–5 EOD Category - Not Started

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

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

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

Figure 4–6 EOD Category - Start

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

Figure 4–7 EOD Category - In Progress

								Fast Path/Screen Name Q	目 ★·	Posting I Jul 24, 2	Date 017 t3010	-
f EOD1 <u>0</u> ×												
End of Day										Print	Z Clear	🗙 Exit
✓ Category Details												^
* Process Category End of Day	~							Category Status In Progress				
* Job Type GROUP 💙								Process Date Jul 21, 2017				
* Job Code BRN_GRP_1 V								Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12:00	40							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:01:08				
✓ Process									Ģ	Restart	Start Re	cover
⊿ Shell Details												Ģ
Clear All Filters												
View 🔻 彈 Export To Excel 📴 🗟 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Insurance EOD Shell	Complete	-	00:00:00		0	0	0%					^
▶ Processing of Reverse Sweep	Complete	-	00:00:00		0	0	0%					
												~

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

Figure 4–8 EOD Category - Complete

E ORACLE [®]							Fast Path/Screen Name Q 🗏 🛧 - Posting Date 13010 -	
fi EOD1 <u>0</u> ×								
End of Day							Print Z Clear 🗙 E	žit
✓ Category Details								^
* Process Category End of Day	~						Category Status Completed	L
* Job Type GROUP 🗸							Process Date Jul 21, 2017	L
Job Code BRN_GRP_1 V							Next Process Date Jul 24, 2017	L
Category Start Time 03-Apr-2018 12:00:4	0						Category End Time 03-Apr-2018 12:01:30	L
Polling Interval							Last Refreshed Time 03-Apr-2018 12:02:05	
▲ Process							Q Restart Start Recover	
▲ Shell Details							<i>θ</i>	
Clear All Filters								
View 👻 🎟 Export To Excel 📴 📰 Detach								
	~							
Name of Shell	Status	Trend Dura	tion No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
DD Instruction Rearrangement For Calender Change	Complete	- 00:0	0:00	0	0		^	
Customer Value Date EOD Shell	Complete	- 00:0	0:00	0	0			
PC Reports	Complete	- 00:0	0:00	0	0			~

4.1.5 Internal System EOD Category Execution

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

To execute the Internal System EOD category:

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

Process Category	Internal System EOD
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–9 Internal S	vstem EOD	Category - Not	t Started
g	,		

							Fast Path/Screen Name 9	∃ ★·	Posting Da Jul 24, 201	te 7 t3010	
FOD10 ×											
End of Day									Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details											^
Process Category Internal System EC	D						Category Status Fresh Start				
* Job Type GROUP 🗸							Process Date Jul 21, 2017				- 11
Job Code BRN_GRP_1							Next Process Date Jul 24, 2017				- 11
Category Start Time							Category End Time				- 11
Polling Interval							Last Refreshed Time 03-Apr-2018 12:03:09				
Process								Q I	Restart S	tart Rec	over
▲ Shell Details											Ģ
Clear All Filters											
View 👻 💯 Export To Excel 📴 🔛 Detach						G	3				
	×										
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Lending Account Statistics Shell	Not Started Trend	00:00:00									^
Account Action Internal EOD Shell	Not Started Trend	00:00:00									
											~

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

								Fast Path/Screen Name Q	E ★ - Posting Date Jul 24, 2017 13010 -
rie EoD10 ×									
End of Day									Print 🗷 Clear 🗙
✓ Category Details			 Info 	rmation		:	×		
* Process Category Internal	System EOD		The catego	ory has starte	ed. Logging Leve	I = WARNING	6	Category Status Fresh Start	
* Job Type GROUP	~					ОК		Process Date Jul 21, 2017	
* Job Code BRN_GF	₽_1 ¥							Next Process Date Jul 24, 2017	
Category Start Time								Category End Time	
Polling Interval	>							Last Refreshed Time 03-Apr-2018 12:04:21	
A Process									Q Restart Start Recover
▲ Shell Details									c
Clear All Filters									
View 👻 🎟 Export To Excel 📴 🔝 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Party EOD Shell	In Progress		00:00:00		0	0	0%		

Figure 4–10 Internal System EOD Category - Start

Figure 4–11 Internal System EOD Category - In Progress

								Fast Path/Screen Name Q	∎ ★	Posting Jul 24,	2017 t3010	
FOD1 <u>0</u> ×												
End of Day										Prin	t 🧷 Cjear	🗙 E <u>x</u> it
✓ Category Details												^
Process Category Internal System E	DD V							Category Status In Progress				
• Job Type GROUP 🗸								Process Date Jul 21, 2017				
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12:04	21							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:04:33				
⊿ Process									C	Restart	Start R	ecover
▲ Shell Details												Ģ
Clear All Filters												
View 🔻 彈 Export To Excel 📴 🔛 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Interest Shell	In Progress	Ş	00:00:12		26.03	94	0%	03-Apr-2018 08:04:33				^
Accounting batch Verification Shell https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.	Not Started	Trend	00:00:00		-	-	-	-				~

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

Figure 4–12 Internal System EOD Category - Complete

≡ (DRACLE®									(Fast Path/Screen Name 🔍 🗏 🛧 - Posting Date 3010 -	
<u>*</u> E	DD1 <u>0</u> ×										_
End	of Day									Print 🗷 Clear 💥	Exit
⊿ Ca	tegory Details										^
	* Process Category	Internal System EOE	~							Category Status Completed	Ш
	* Job Type	GROUP 🗸								Process Date Jul 21, 2017	Ш
	* Job Code	BRN_GRP_1 ~								Next Process Date Jul 24, 2017	Ш
	Category Start Time	03-Apr-2018 12:04:21								Category End Time 03-Apr-2018 12:05:33	Ш
	Polling Interval	~								Last Refreshed Time 03-Apr-2018 12:05:33	Ш
Pr	ocess									Q Restart Start Recover	
⊿ Sh	ell Details									Q	
Clear	All Filters										
View	r 👻 🎵 Export To Excel 🛛 🕞 Detach										
			~								
	Name of Shell		Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
+	Account Action Internal EOD Shell		Complete	-	00:00:00		0	0		,	•
-	Interest Shell		Complete	÷	00:00:21		26	94			
•	Accounting batch Verification Shell		Complete	-	00-00-02		n	n			~

4.1.6 Beginning of Day (BOD) Category Execution

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

To execute the Beginning of Day category:

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

Process Category	Beginning of Day
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–13 BOD Category - Not Started

								Fast Path/Screen Name Q Image: the strength of the strenge strength	•••
fi EOD1 <u>0</u> ×									
End of Day								Print 🗷 Clear 🕻	C Exit
✓ Category Details									^
* Process Category Beginning of Day	~							Category Status Fresh Start	Ш
* Job Type GROUP								Process Date Jul 24, 2017	-11
Job Code								Next Process Date Jul 27, 2017	11
Category Start Time								Category End Time	11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:06:42	11
Y ⊿ Process								Q Restart Start Recov	er
✓ Shell Details									Ģ
Clear All Filters									
View 👻 🎟 Export To Excel 📴 📰 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
➢ Reg CC Schedule Release BOD Shell	Not Started	Trend	00:00:00						^
Business Transfer Periodic Execution BOD Shell	Not Started	Trend	00:00:00						
									~

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

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

Figure 4–14 BOD Category - Started

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

Figure 4–15 BOD Category - In Progress

								Fast Path/Screen Name Q	Postin Jul 24	g Date 2017 t301	0
fi EOD10 ×											
End of Day									Prir	it 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Beginning of Day	~							Category Status In Progress			
• Job Type GROUP 🗸								Process Date Jul 24, 2017			
Job Code BRN_GRP_1 V								Next Process Date Jul 27, 2017			
Category Start Time 03-Apr-2018 12:07	14							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:07:26			
⁴ Process									Q Restart	Start F	ecover
✓ Shell Details											Ģ
Clear All Filters											
View 👻 ৃ Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Untanking Adjustment Posting	In Progress	٠	00:00:12		14.5	4	0%	03-Apr-2018 08:07:26			^
Customer Value Date BOD Shell	Complete	-	00:00:00		0	0	0%				~

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

Figure 4–16 BOD Category - Completed

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

4.1.7 Housekeeping Category Execution

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

To execute the Housekeeping category:

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

Process Category	Housekeeping				
Job Type	GROUP				
Job Code	BRN_GRP_1				

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

							Fast Path/Screen Name	. 🗉 1	Posting Jul 24, 1	Date 2017 t3010) ~
f EOD10 ×											
End of Day									Print	<u> </u>	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Housekeeping	~						Category Status Fresh Start				
* Job Type GROUP 🗸							Process Date Jul 24, 2017				
* Job Code BRN_GRP_1							Next Process Date Jul 27, 2017				
Category Start Time							Category End Time				
Polling Interval							Last Refreshed Time 03-Apr-2018 12:09:14				
Process									G Restart	Start Re	cover
✓ Shell Details											Ģ
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	6		*	Ψ.
Facility Auto Closure Shell	Not Started Tren	d 00:00:00									^
Accounting Event History Shell	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.*

Figure 4–18 Housekeeping Category - In Progress

								Fast Path/Screen Name 9	🗏 🛧 - 🖁	osting Date I 24, 2017 t30	10 - 🚥
FOD10 ×											
End of Day										Print Z Clea	ar 🗙 E <u>x</u> it
✓ Category Details											^
Process Category Housekeeping	~							Category Status In Progress			
* Job Type GROUP 🗸								Process Date Jul 24, 2017			
Job Code BRN_GRP_1								Next Process Date Jul 27, 2017			
Category Start Time 03-Apr-2018 12:1	0:03							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:10:16			- 1
▲ Process									Q Re	tart Start I	Recover
✓ Shell Details											Ģ
Clear All Filters											
View 👻 彈 Export To Excel 📴 📰 Detach											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Move driver table data to History table	Complete	Trend	00:00:00		-		0%				^
Accounting Event History Shell	Complete	Trend	00:00:00		-	-	0%				÷

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

Figure 4–19 Housekeeping Category - Completed

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

4.1.8 Alert Generation Category Execution

This category is used to generate previously logged alerts.

To execute the Alert Generation category:

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

Process Category	Alerts Generation
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

							Fast Path/Screen Name Q	E 🛧 - Posting Date Jul 24, 2017 13010 - 🚥
f EOD10 ×								
End of Day								Print 🧷 Clear 🗙 Exit
✓ Category Details								^
* Process Category Alert Generation	~						Category Status Fresh Start	
• Job Type GROUP 💙							Process Date Jan 1, 2016	
Job Code BRN_GRP_1							Next Process Date Jan 4, 2016	
Category Start Time							Category End Time	
Polling Interval							Last Refreshed Time 03-Apr-2018 12:23:24	
✓ Process								Q Restart Start Recover
▲ Shell Details								Ģ
Clear All Filters								
View 🔻 🎵 Export To Excel 📴 🛒 Detach								
	~							
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Alert generation Shell	Not Started Trend	00:00:00						
								~

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

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

Figure 4–21 Alert Generation Category - In Progress

								Fast Path/Screen Name Q	Post	ing Date 4, 2017 t301	0
for EOD10 ×											
End of Day									Pr	int 🛛 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Alert Generation	\sim							Category Status In Progress			
* Job Type GROUP 🗸								Process Date Jan 1, 2016			
* Job Code BRN_GRP_1 V								Next Process Date Jan 4, 2016			
Category Start Time 03-Apr-2018 12:23	51							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:00			- 1
Process									Q Resta	t Start R	ecover
⊿ Shell Details											Ģ
Clear All Filters											
View 👻 💬 Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Alert generation Shell	In Progress	-	00:00:09		276.32	84	0%	03-Apr-2018 08:24:00			
Alert generation Shell Shell Details	spx#										~

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

								Fast Path/Screen Name 🔍 🗏 ★ - Posting Date Jul 24, 2017 t3010 -	
fodi <u>o</u> ×									
End of Day								Print 🧷 Clear 🗙	Exit
✓ Category Details									^
Process Category Alert Generation	~			6				Category Status Completed	L
• Job Type GROUP 💙								Process Date Jan 1, 2016	
* Job Code BRN_GRP_1 🗸								Next Process Date Jan 4, 2016	
Category Start Time 03-Apr-2018 12:23:5	1							Category End Time 03-Apr-2018 12:24:11	
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:58	
▲ Process								Q Restart Start Recove	r
✓ Shell Details								c	5
Clear All Filters									
View * 💬 Export To Excel 📴 🗟 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Alert generation Shell	Complete	-	00:00:20		276	84			
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.js	px#								~

4.2 Batch Exception Recovery

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

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

This section explains the steps involved in Batch Exception Recovery.

Batch exception recovery actions can be broadly classified in two categories:

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

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

To navigate to the Batch Exception Recovery page:

- 1. Log in to the Admin application.
- Navigate to Batch Exception Recovery page either by entering the Fast Path OPA007 or through the menu Administration > Batch Exception Recovery.
- 3. Select the relevant Category Details as shown in the following table:

Branch Group Code	BRN_GRP_1
Category	End of Day

4. Click OK. The Exception Details appear.

Figure 4–22 Exception Details

	racle Banking Platform		•		1				1		100	_	-	1000	- 1 K			-0-
A Inpulati	981942541012/com.of	stcainiew/faces/	ملافر ليوز بنيت	op-18230428	0.008, #1114	towNedex18_st	httindowid-nullå,	yd al-adu du	pthy,2			1	7 C 🚺 - Gog	pir	_			0-4
RACLE	PostingCally 2	1-Jul-2026												i •	ж ъ	۰.	OFSSU	• •
			Account •	Back Office 🔹	CASA 🕶	Collection •	Oreff Card •	Insurance +	LON .	Loan 🕶	Origination •	Party +	Payment And Col	lection •	Term Depos	۰.	FutPub	
Offage7																		
fich Exceptio	n Recovery																	
																<u>s</u> h n	et 🖌 Cyc	De
Batch Detai	is .																	
	• 80	nch-Group Code	BRILGRP_1									atopoy D	dofDay 💌					
																		OK
	F	iter to she	wreproc	essed rec	cords													
/ Exception (iter to sho	owreproc	essed rec	cords													
4 Exception C		Rer to she	owreproc	essed rec	cords		Cu	rent state	ofexcep	tion re	ecord							
i Exception (owreproc	essed rec	cords		Cu	rent state	of excep	rtion re	ecord							
		4	эмтергос	essed rec	cords		Cu	rent state	ofexcep	tion re	ecord							
	betails	4	омтергос	essed rec	cords		cu	rent state	of excep	tion re	ecord							
2 Export To Exc	el Chose Reprocesse	4	Error Code	essed rec		Dest	Cu	rent state	of excep	tion re	ecord							
2 Export To Exc	el Chose Reprocesse	Records			6m/		-	rent state	of excep	ation re	ecord							
ig Expect To Exc Subgery Ind of Exp	Details	Electrical Data Run N250721	Eror Code	Module	Env		NUM NOTED	rent state	of excep	tion re	ecord							
② ExportTo Exc Callegory End of Day	Details	Electrical Data Run N250721	Eror Code 2875	Module	Env	ofasteta.	NUM NOTED	rent state	of excep	ption re	ecord							
2 Expert To Exc Salling ony India of Day India of Day	Details	Racords Sale Run ROSET211 ROSET21	Error Code 2875 2875	Madule Lill Lill	6m/ 0%	utu teta	Adam NSSORD PENDING		of excep	ation re	ecord							
⊋ ExportToExc Callegory End of Day End of Day	Details Details Deal Colors Limbs And Colors Limbs And Colors Limbs And Colors	Sale Run Sale Run SIZSET771 SIZSET771	Error Code 2875 2875	Madule Lill Lill	6m/ 0%	utu teta	Adam NSSORD PENDING			ntion re								
Depart To Exc Selegary Ind of Day Ind of Day	Details	Records	Envr Code 2075 2075	Madule Lill Lill	6m/ 0%	utu teta	Adam NSSORD PENDING		Band		42991							
2 Depart To Dace allegary ne of Day Ne of Day	etails Inve Reposes Deal Dea	Records Date Run 10260721 SIZE0721 SIZE0721 SIZE0721	Envr Code 2075 2075	Madule Lill Lill	6m/ 0%	utu teta	Adam NSSORD PENDING		Band	h Code da	42991							
2 Expert to Exc depoy to def Day to def Day	etails InterReprocess InterReprocess Units And Col	Racodi Date Run N250721 B260721 And Collateral Collaterals Batch 6	Error Code 2075 2075 2075	Lindule Lin Lin Error Refere	6m/ 0%	utu teta	Adam NSSORD PENDING		Dianch S Lastigoda	h Code da	82994 M 015-06-24 15-28	02						
2 Equat To Exc Setupor Interat Day Interat Day Interat Day Interations	beau	Racords Date Run 2020/271 8258/271 8258/271 And Collaters Collaters Batch 6 Kwas not found fo	Error Code 2075 2075 dis Batch with h	Lindule Lin Lin Error Refere	6m/ 0%	utu teta	Adam NSSORD PENDING		Drand 1 Lastigdan Error	h Code (8) Module (8) Ie Time (8)	42091 M 015-06-04 15-28 675	-02						
Depart to Dec Company tors of Day Dec of Day All Exception 1 Deception	Avails	Racords Date Run 2020/271 8258/271 8258/271 And Collaters Collaters Batch 6 Kwas not found fo	Error Code 2075 2075 dis Batch with h	Lindule Lin Lin Error Refere	6m/ 0%	utu teta	Adam NSSORD PENDING		Drand 1 Lastigdan Error	h Code da Notale Li In Time 21 r Code 21 Adon Pi	42091 M 015-06-04 15-28 675	-02						

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

Figure 4–23 Exception Record Details

	Pasting Data (Et-Jan-)	2016										1 × × 5 5	- OFSIGURE	
		Accest •	Back Office	• CASA	• Collection •	Credit Card • Insur	no • 10	· Lost ·	Organition •	Party +	Payment And Collector	· Tem Depent ·	FactPath	
-														
n Exception P	Recovery													
													Paul 🥜 Cpur	
of Day	Account Level Accel C	20101234	.NP. 107	10	com after 8, Party	work batch avoighter Batch	framework .	PENDING						
of Day A	Account Level Accel Cl.	20101231 40	MP_007	NP .	com after 8, harry	work halds a copilor late	dames F y	rention	record	detai	le.			
r0ay A	Account Level Accel (1	20181231 40	JAP	1.0	com after 9, hans	work batch anception Batch	strafever.	PENDING		ciccai				
r0au A	Account Level Accel Co.	20151234 40	NP.307	1.0	con after 8, frame	with batch avception Batch	Manager and a	PENDING						
r0au A	Account Level Accel () . Account Level Accel () .	2010/221	JNP.337	5 5	con also 3, have	erot bath e-ceptor bat erot bath e-ceptor bat		PENDING	_					
rDey A		2010/221	JNP.337	v	con also 3, have	erent hantet an capitor Bart			_	、				
rDes A	Account Level Accel () .	2010/221	JNP.337	v	con also 3, have	erent hantet an capitor Bart			100	١				
rDay A	Account Level Accel () .	20101231 PC	un jur	v	con also 3, have	erent hantet an capitor Bart		PENDING		١				
Ous A	Account Level Accel ().	20101231 PC	un jur	v	con also 3, have	erent hantet an capitor Bart		PENDING Branch Code						
rDey A	Account Level Accel Cl.	20101221 PC	unification o	v	con also 3, have	erent hantet an capitor Bart		PENCING Branch-Colle Medule Last Updale Time						
Cher A	Account Level Account Le Instary for Account Le Instary End of Day Druft Account Level A an Run 31:12-2015	20101221 PC	unification o	v	con also 3, have	erent hantet an capitor Bart		PENDING Branch Code Minture LearUpdate Time Draw Code	NP 2015-01-16.04.3			dedaction	for on	
Cher A	Account Level Accel (). Immary for Account Le Import End of Day Immil Account Level A Immil Account Level A Immil Account Level A	20101221 PC	unification o	ut Erver fo	con also 3, have	erent hantet an capitor Bart	farmant.	PENDING Branch Code Minture LearUpdate Time Draw Code	NP 2015-01-16.04.3 FC_NP_202		ecommen	dedactior	1 for ope	1
rDay A	Account Level Accel (). Image Net Account Level Image State Account Level A Image State Account Level Account Level A Image State Account Level Account Level Account Level Account Account Level Account Accou	2015/231 PC	astication r	ut Erver fo	con also 3, have	erent hantet an capitor Bart	farmant.	PENDING Branch Code Module Last Updale Time Error Code Actor	NP 2015-01-16.04.3 PC_NP_032 PDIDING		ecommen	ded action	1 for ope	11
rDay A	Account (and Acad C). Intrary for Account (an integer) End of Dec Time Account (and Ac Account (and Ac Account (and Ac Account (and Acad Account (and Acad Account (and Acad Acad Account (and Acad Acad Account (and Acad Ac	2015/231 PC	astication r	ut Erver fo	con also 3, have	erent hantet an capitor Bart	farmenat.	PENDING Branch Code Modula Cast'Optide Time Error Code Adam	NP 2015-01-16.04.3 PC_NP_032 PDIDING		ecommen	ded action	1 for ope	
Poly A	Account (and Acad C). Intrary for Account (an integer) End of Dec Time Account (and Ac Account (and Ac Account (and Ac Account (and Acad Account (and Acad Account (and Acad Acad Account (and Acad Acad Account (and Acad Ac	2015/231 PC	astication r	ut Erver fo	con also 3, have	erent hantet an capitor Bart	farmenat.	PENDING Branch Code Modula Cast'Optide Time Error Code Adam	NP 2015-01-16.04.3 PC_NP_032 PDIDING		ecommen	ded action	1 for ope	

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.

	8001, fintegration/workfistapp, faces, froma jups", afd, oop = 743471012964120158, aft Windowkho 3 per 🗋 nef 🕒 68F Der-Ope 📓 Offic Decesion Fac. 📓 ADF Faces Fach Cite. 👘 graf. 🗋 Deeboy Winag 18	
	In Table11 → → X Mass + S B Q + (0.11) (and 1) In Table 21 → X Mass + S B Q + (0.11) (and 1) In Table 21 → X + S + S + S + S + S + S + S + S + S +	Human task for business Judget and Judget a
n Skand Ha Tanke (20) April 100 Sand Tanin Banch en Sand Tanin Cabend en sonstanter Tanin Cabend en Sand Tanin Cabend en Sand Tanin Cabend en Sand Sand En Sand Sand En Sand Sand En Sand Sand Sand Sand Sand Sand Sand Sand	In Each De 10 (10 (10)) Foundation Language Annual An Annual Annual Annu	Les tables for a Michol St Michol St Benderic de Roll Roll (1997) Les and State (1997) Recommended Action August (1997) Recommended Action August (1997)
- Tanka	4 All Ten Tels	The state of the s
	Connext	Sector States and Sector States of Association
	The Advance Servership and searching. Converse Internation Bank of Toge 1 Faulty (p. 1	
	Control to OP323am (2018) - un-2015/02113 of (1453-23) represent Connent	Salpet represent

Figure 4–24 Exception record in Worklist application

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

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. It gives the details of the Administration User Interface (UI) offered by Oracle Banking Channels Bank User Experience, which the administrator can use to perform a bank and a branch setup.

5.1 Common Services Day 0 Setup

The Common Services setup includes the following sections.

5.1.1 Core Maintenances

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

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

- Bank Codes (Fast path: CS01)
- Business Group (Fast path: CS02)
- Bank Parameters (Fast path: CS03)
- Branch Parameters (Fast path: CS06)
- Country Codes (Fast path: CS09)
- Financial Cycle (Fast path: CS10)
- Define Payment Calender Codes (Fast path: CS15)
- Reason Codes (Fast path: CS16)
- State Codes (Fast path: CS17)
- 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)

Note

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

5.1.1.1 Head Office Setup

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

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

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

Note

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

5.1.2 Currency Maintenances

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

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

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

Note

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

5.1.3 Calendar Maintenances

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

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

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

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

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

Note

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

5.3 Product Manufacturing Day 0 Setup

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

Prerequisites

Following are the prerequisites for Product Manufacturing Day 0 Maintenances:

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

Day 0 Maintenances

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

- Define Party Bank Policy (Fast path: PI314)
- Define CASA Bank Policy (Fast path: PM002)
- Define TD Bank Policy (Fast path: PM003)
- Define 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 Investment Product
- Define Insurance Product
- Define Product Interest Linkage (Fast path: PM017)
- Link Dependent Offers (Fast path: PM018)
- Define Bonus Interest Parameters (Fast path: PM019)
- Define CASA Offer
- Define TD Offer
- Define Loan Offer
- Define Credit Card Offer
- Define Investment Offer
- Define Insurance Offer
- Installment Rule Details (Fast path: PM058)
- Loan Schedule Type (Fast path: PM059)
- Define Campaigns (Fast path: PM024)
- Link Offers for Principal Offset Facility (Fast path: PM025)
- Define Offer Bundle (Fast path: PM026)
- Define Transaction Restriction (Fast path: PM027)
- Define Domain Category Settlement Mode (Fast path: PM030)
- Define Product Settlement Mode (Fast path: PM031)
- Define Affinity (Fast path: PM042)
- Define Question Sets (Fast path: PM046)

Note

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

6 Setting Up Sales Offer Handoff

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

6.1 Day Zero Setup (Configuration)

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

6.1.1 Changes to be done in OBP

Following are the steps:

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

FLX_PM_SALES_OFFER_STG FLX_PM_SALES_OFFER_STG_H FLX_PM_CC_SALES_OFFER_STG FLX_PM_CC_SALES_OFFER_STG_H FLX_PM_CS_SALES_OFFER_STG FLX_PM_TD_SALES_OFFER_STG FLX_PM_TD_SALES_OFFER_STG_H FLX_PM_LN_SALES_OFFER_STG_H FLX_PM_LN_SALES_OFFER_STG_H

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

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

6.1.2 Changes to be done in ODI

Following are the steps:

Step 1 Connect to Repository

To connect to a repository:

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

Figure 6–1 Repository Connection Information

Login Name:	ODI_PMU	evelop
User:	SUPERVISOR	dmini
Password:	•••••	-
Database Conne	ction (Master Repository)	
User:	ODIPMU_ODI_REPO	
Password:	•••••	
Driver List:	Oracle jDBC Driver 🔹 🔍	II Onli
Driver Name:	oracle.jdbc.OracleDriver	
URL:	jdbc:oracle:thin:@10.180.4.60:1521/PD8460A	7, 201
Work Repositor	У	1,200
🔘 Master Rej	ository Only	
Work Report	sitory WORKREP	
Default Conne	ction	
<u>H</u> elp	Test OK Cancel	

Step 2 Physical Architecture

To generate a physical architecture:

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

Figure 6–2 Physical Architecture - New Data Server

signer Operator Topology × Security			🕐 Start Page 🐣		
		- 🌆 -			
Physical Architecture					EGRAT
🖶 🕛 Informix		-		V	
🗄 📴 Ingres					
🖶 🔁 Interbase					Learn &
₽ JAX-WS					
iie 🕞 JMS Queue iie 🕞 JMS Queue XML				him out a block	
⊕ 😈 JMS Queue XML ⊕ 🕞 JMS Topic				What's New	Fea
E [] JMS Topic XML				Release Notes	
B-G Java BeanShell				Release Notes	Get
🗄 🕞 JavaScript				Training Resources	
B-0 Jython				Training Resources	Cre
🗄 🕞 LDAP		0			Wo
🗄 🕛 Microsoft Access					
Microsoft Excel					Cri a T
Microsoft SQL Server					aı
æ~ <mark>] MySQL</mark> ∎ <mark>]</mark> NetRexx					Cre
• Netezza					cre
E- ODI Tools					Cre
- OWB Runtime Repository					cit
🗊 🕞 Operating System					
- Oracle					
Den Open					All
B-B Da B New				Show on Startup	
Duplicate Selection					
Delete Oracle	Delete				
🗊 🦳 Oracle 💕 New Data Server					
Oracle Datatypes <u>Reverse-Engineering</u>					
Oracle	d				
🗄 🗍 Parado Import	•				
Brig Export					
Postgr Group are with Export File					
B - C Progre Expand					
B. SAP At G SAP JayOllapse					

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

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

Figure 6–3 Data Server - Definition

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

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

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

Figure 6–4 Data Server - JDBC

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

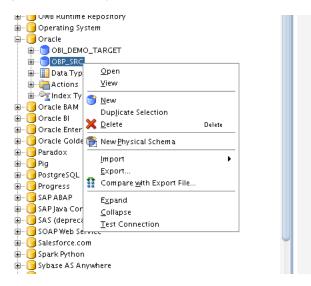
5. Repeat the above steps to make a new target data server.

Figure 6–5 Create New Target Data Server

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

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

Figure 6–6 New Physical Schema



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

Definition	💕 Physical Schema (Da	ical Schema [Data Server: OBP_SRC]		
Context Version	Name:	OBP_SRC.R26PML		
Privileges	Schema (Schema):	R26PMU		
Flexfields	Schema (Work Schema):			
	Default			
	Work Tables Prefix			
	Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: DX\$_			
	Journalizing elements	prefixes		
	Datastores: J\$	Views: J	/\$ Triggers: T\$	
	Dilamina Dulas			
	Naming Rules			
	Character Encoding:		BASE38	
	Local Object Mask:		%SCHEMA.%OBJECT %SCHEMA.%OBJECT@%DSERVER %SCHEMA.%OBJECT PARTITION(%PARTITION) %SCHEMA.%OBJECT SUBPARTITION(%PARTITION)	
	Remote Object Mask			
	Partition Mask:			
	Sub-Partition Mask:			
	Local Sequence Mask	c	%SCHEMA.%OBJECT.nextval	
	Remote Sequence Ma		SCHEMA.%OBJECT.nextval@%DSERVER	
	Local Sequence Curr		%SCHEMA.%OBJECT.currval	
	Remote Sequence Cu	Remote Sequence Current Value Mask: %SCHEMA.%OBJECT.currval@%DSERVE		

Figure 6–7 Physical Schema - Definition

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

Figure 6–8 Physical Schema - Target Data Server

	😤 obp_src.rz6pmu × 👹 obi_demo_target.obi_demo 🐣						
• •	Definition	Physical Schema [Data Server: OBI_DEMO_TARGET]					
	Context						
1	Version	Name:	DBI_DEMO_TARG	ET.OBI_DEMO			
	Privileges Flexfields	Schema (Schema):	DBI_DEMO				
	. I CARLOND	Schema (Work Schema):	DBI_DEMO				
		Default					
		Work Tables Prefix					
		Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_					
		Journalizing elements prefixes					
		Datastores: J\$ Views: JV\$ Triggers: T\$					
		Naming Rules					
			۶ 				
		Character Encoding:		BASE38			
		Local Object Mask:		%SCHEMA,%OBJECT			
		Remote Object Mask:		%SCHEMA.%OBJECT@%DSERVER			
		Partition Mask:		%SCHEMA.%OBJECT PARTITION(%PARTITION)			
		Sub-Partition Mask:		%SCHEMA.%OBJECT SUBPARTITION(%PARTITION)			
		Local Sequence Mask:		%SCHEMA.%OBJECT.nextval			
		Remote Sequence Mas	k:	%SCHEMA.%OBJECT.nextval@%DSERVER			
		Local Sequence Currer	nt Value Mask:	%SCHEMA.%OBJECT.currval			
U		Remote Sequence Curr	rent Value Mask:	%SCHEMA.%OBJECT.currval@%DSERVER			

Figure 6–9 Physical Schema List



Step 3 Logical Architecture

To generate a logical architecture:

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

Designer Operator	Topology ×	Security				Ę
62					<u>- M</u>	1
🗄 Physical Architecture						ľ
± Contexts				M .	•	
🖃 Logical Architecture						
					-	
🗄 🥛 In-Memory Engi	ne					
🗈 📴 Informix						
🗄 🦳 Ingres						
⊞… 📁 Interbase ⊞… 📔 JAX-WS						
IMS Queue						
Ims Queue XML						
🖶 🥛 JMS Topic						
🗈 🧻 JMS Topic XML						
🕀 📔 Java BeanShell						
🗄 [JavaScript						
🕀 🔁 Jython						
Microsoft Excel	2					
Microsoft SQL Se	erver					
🕀 🥛 NetRexx						
🕀 🧊 Netezza						
🕀 📔 ODI Tools						
🕀 📔 OWB Runtime Re						
🔒 🦳 Operating System	m					
in the second se]		
⊡ View						
🚛 👔 问 <u>N</u> ew						
Duplicate	Selection					
⊕ 🕞 c X Delete			Delete			
🕀 🐨 🔽 C 📸 New Logic	al <u>S</u> chema					
	<u>R</u> everse-Engine	ering				
			•			
■ 📃 P <u>E</u> xport						
⊕ □ P € Compare: ⊕ □ P	<u>w</u> ith Export File					
⊞ P ⊕ ि S Expand						
⊕ 👩 SOllapse						
B GAS (deprecated)			1		0

Figure 6–10 Logical Architecture - New Logical Schema

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

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

4. Set its context to its corresponding physical schema.

Figure 6–11 Logical Schema - Definition

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

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

Figure 6–12 Physical Schema - Set Context

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

The architecture is now complete.

Step 4 Creating Model

To create a model:

1. Navigate to Designer tab -> Models.

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

```
Figure 6–13 New Model
```

	<u>R</u> un <u>H</u> elp
Designer × Operator Topology Security	□ → OBP_SRC × ↓ → OBP_SRC × ↓ → OBP_SRC × ↓ → OBP_SRC ×
± Projects 글 Models	Cefinition Cefinition Reverse Engineer
₽	New Model Folder New Model New Model Import Model Folder Import Model Folder Import Model Version Browser Model Folders Version Browser Model
	Version

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

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

Figure 6–14 OBP_SRC Model - Definition

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

Figure 6–15 OBP_SRC Model - Reverse Engineer

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

4. Repeat the steps for the other model.

Figure 6–16 OBI_DEMO_TARGET Model - Definition

efinition	🔚 Model	
everse Engineer elective Reverse-Engineering	Name:	OBI_DEMO_TARGET
ontrol ournalizing	Code:	OBI_DEMO_TARGET
ournalized Tables	Technology:	Oracle
ervices arkers	Logical Schema:	
emo	Action Group:	<generic action=""></generic>
ersion rivileges exfields	Default Folder:	Display the Metadata changes in the Model tree

Figure 6–17 OBI_DEMO_TARGET Model - Reverse Engineer

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

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

Figure 6–18 Click Reverse Engineer

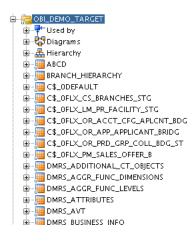
Definition Reverse Engineer	🔚 Model	
elective Reverse-Engineering Control ournalizing ournalized Tables Services Markers Markers Memo	Name: Code: Technology: Logical Schema: Action Group: Default Folder:	OBP_SRC OBP_SRC Oracle OBP_SRC <generic action=""></generic>
Privileges Flexfields	Description:	Display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

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

Figure 6–19 OBP_SRC DB Tables

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

Figure 6–20 OBI_DEMO_TARGET DB Tables

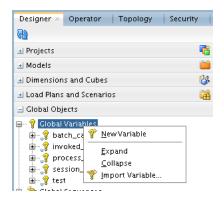


Step 5 Creating Global Variables

To create global variables:

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

Figure 6–21 New Variable



3. Enter the following values:

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

Figure 6–22 Variable - Definition

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

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

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

Figure 6–23 Variable - Refreshing

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

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

Name: invoked_scenario Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

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

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

Name: process_date Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

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

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

Name: session_id Datatype: Numeric Keep History: No

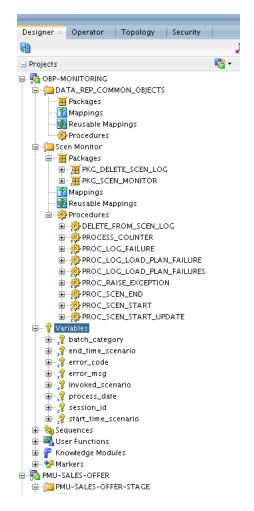
In the Refreshing tab, enter the following values:

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

Step 6 Projects Required in ODI

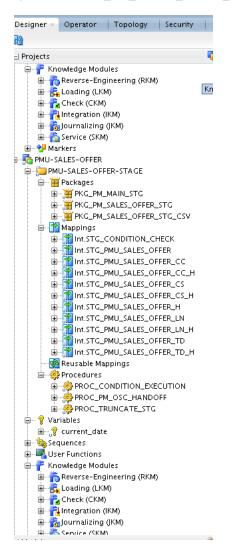
Modify the projects, scenarios, package, mappings of PMU-SALES-OFFER and OBP-MONITORING.





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

Figure 6-25 PKG_PM_SALES_OFFER_STG



Step 7 CSV File Generation and Exporting it to Required Server

The procedure is as follows:

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

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

e Edit Yiew Search ODI Tools Window Team ? 🗃 🗃 🔍 🍇 🕨 🔹 🍓 🆓 🔹 🌄 🛀			
signer × Operator Topology Security	💿 ③ Start Page × 💥 PKG_PM_SALES_	_OFFER_STC 🐣 👔 Int.STC_PMU_SALES_OFFER 🗧	
	🙏 • 📘 🔜 🖦 🖦 🔁 🗃 🖽 😏 🖻	● ※ 昌 切 ▲	
rojects 📑 🖥	Toolbox	7	
	A. A		IN STC FMU SALE. IN STC FMU SALE.
ibal Objects	😂 SAP	SQL Query select txt from (
	🗁 Utilities	4	
abels 😽 -	2 Overview Diagram		
Messages - Log Variables	2 Overheid Diegram		
Messages - Log Variables			🔒 SUPERVISOR 🍕 ODIPMU_ODI_REPO 🔩

Figure 6–26 PKG_PM_SALES_OFFER_STG Properties

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

Figure 6–27 Export the .csv File



7 Setting Up Product

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

7.1 Creating New Product

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

Following are the steps to configure new Product in OCH:

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

User ID: sadmin

Password: sadmin

Figure 7–1 Log on to UCM

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

2. Navigate to Site Map.

Figure 7–2 Sitemap

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

3. Click the Administration - Product link.

Figure 7–3 Administration - Product

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

4. Navigate to the Products view.

Figure 7–4 Products View

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

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

Provide the following details:

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

Figure 7–5 Product List

																• ×
			e?SWECmd=GotoVie	w&SWEView=1SS+	Product+Administra	tion+View&SWER	F=1&SWEHo=ofss	3131440.in.oracle.com&SWEBU=1&SWEA	lp ≠ C Sear	ch					P-	↑ ★ ☆
Product Administration: OBP P.				_		_	_		_	_	_	_	-			
Administration - Pro		LE' File Ec	dit View Navi	gate Query	Tools Help								<u>_</u>	* All Pro N	4 9	P 0 2
Q ⊕ ⊉ ₺ % III □ Products ▼ Product	● ₩															
Products											+	- 0	۹	ф 3-	- 16 of 17	 ^
Update Commerce App	Release	Synchronize		~		•										
Name Part #	T) Product	ts:Release UCt Typ	e Description	Product Line	Product Class	Locked Flag	Locked By	Check Eligibility Inclusive Eligibilit	Revision	Status	1	rendor	Billab	le Flag	Report	t Header
Customer Note SEBLRSVNP1																
Penalty Charges	Product		Penalty Charges							Active						
PS Generic Veh	Product	Vehicle														
Write-in Event	Product	Event Order Iter	n													
Write-in Menu I	Product	Menu Item														
Write-in Menu	Product	Menu Per Perso	n													
Write-in Packag	Product	Package Each											2			
Write-in Packag	Product	Package Item P														
Write-in Packag	Product	Package Per Pe														
Transportation Trans	Transportation	Transportation														
OBP Product	Product	Fin Account	New Asset Pro				SADMIN									
CASA001	Product	Fin Account														
NCS007	Asset	Fin Account	Reward Saver							Active			2			_
TestProduct	Product	Fin Account	To test Accoun													
						P	(44 HP HI									
More Info 🔻																
										+	Ô	۹	•	13 of 17	• • •	
Product + OBP Pro	duct D	roduct Type: Fin	Account		rganization: Defau	t Orozoit 📼		Orderable: 🗹								
		Status:			roduct Line:	at organiz 💿		Bundle:								
Description: New Ass	et 🗘	Status.			100000 Lante.	80		purvie.								

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

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

Figure 7–6 Product Activities

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

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

Figure 7–7 More Info - Select Category

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

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

Figure 7–8 More Info - Select Type

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

12. Press Ctrl+S to save the record.

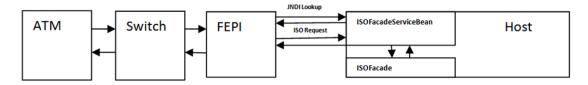
8 Setting Up Channels

This chapter describes the process of setting up the channels.

8.1 Channel Setup

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

Figure 8–1 Transaction Message Flows



The Channels setup involves three main steps as follows:

Step 1 Front End Processing Interface (FEPI) Application Installation

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

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

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

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

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

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

Note

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

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

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

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

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

Note

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

8.2 Front End Processing Interface (FEPI)

This section contains information related to FEPI.

8.2.1 Installation

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

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

For example, BANK_CODE=335

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

For example, LISTENER_PORT=9999

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

For example, COMMAND_PORT=9998

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

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

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

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

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

8.2.2 ATM And POS Trace Logs

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

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

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

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

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

8.2.4 Multiple Instances

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

For example, for the ATM FEPI server:

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

9 Application Monitoring Using Administration Application

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

9.1 Dynamic Monitoring Service (DMS)

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

What is DMS?

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

9.1.1 Usage

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

Developers

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

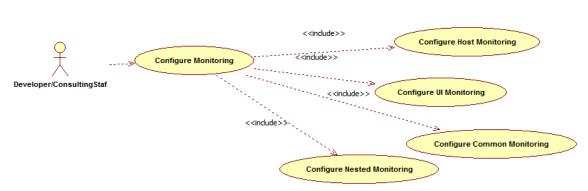
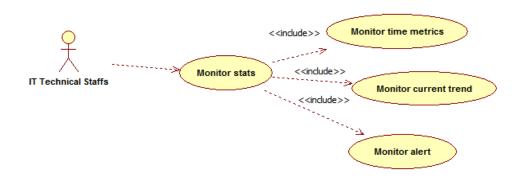


Figure 9–1 Developers

IT Technical Staff

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

Figure 9–2 IT Technical Staff



9.1.2 Monitoring Application using the OPA001 page

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

9.1.2.1 Monitoring Application Performance (Fast path: OPA001)

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

Figure	9-3	Monitor	ring App	olication	Performance	e
						•

																	🚔 Prir	* 🗳
f Mo	nitor App	plication Perfor	mance															
4 40	plication P	Performance Sum	mao/										0.	Dafaad		2015 11:40:12 AM		1
100	plication P	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		Task Code		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:

9.1.2.1.1 Application Performance Summary

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

Figure 9–4 Application Performance Summary

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

Following are the few notification about the channels:

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

9.1.2.1.2 Log Level

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

Figure 9–5 Log Level

Ja Log Level

9.1.2.1.3 Application Performance

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

Trend

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

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

Alert

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

Figure 9–6 Alert State

		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.

Table 9–1 Alert State	Table	9–1	Alert	State
-----------------------	-------	-----	-------	-------

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

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

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

Figure 9–7 Select Task Code

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

Detailed Transaction View

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

Figure 9–8 Selection of Desired Transaction

											Print	🛛 Ex
Inquire Detailed Application (Spi OR	IGINATION OR2	23)										
	erver Name	Tread	Trend Reference Queue	Last Alert User	Average	Max	Min	Active	Transac	tion Count		
	erver ivame	Trend	Trend Reference Queue	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 Ch	annel BRN				⊿ Tra	nsaction Me	trics	Average 60	3			^
	annel BRN				Î.			Average 60: Max 3.8				Î
Se	rvice BaseApplica	ationServic	eSpi.inquireDetailedApplication	n				Min 33	2			
Transa	ction Inquire Deta	illed Applic	ation		-			Success 27				-
Alert and Trend Details					⊿ Fai	lure Events						
Last Ale	tUser asavant						Failure Secu	rity Event 0				Â
Alert Even	t Time 27-May-20	15 10:39:2	5				2	FA Event 0				- 1
	Queue 383. 343. 3						Failure Databa					

Figure 9–9 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
	ofss3121059.in.oracle.com
Host Server Name	ofss3121059.in.oracle.com

Figure 9–10 Transaction Metrics

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

Figure 9–11 Alert and Trend Details

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

Figure 9–12 Failure Events

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

Configurations

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

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

These configurations can be made in DMSConfig.properties.

9.2 Batch Performance Monitoring

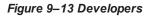
Most of the enterprise applications would require bulk processing of records to perform business operations in real time environments. These business operations include complex processing of large volumes of information that is most efficiently processed with minimal or no user interaction. Such operations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

9.2.1 Use Cases

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

Developers

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





IT Technical Staff

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

Figure 9–14 IT Technical Staff

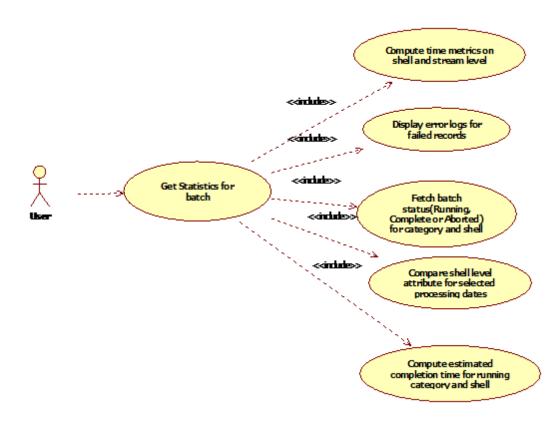
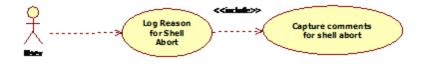


Figure 9–15 IT Technical Staff - Monitor Batch Stats



9.2.2 Monitoring Batch Performance Using OPA003 page

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

9.2.2.1 Monitor Batch Performance (Fast path: OPA003)

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

Figure 9–16 Batch Performance Monitoring

OPA003 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 9–17 Batch Performance Monitoring - Shell Details

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



Figure 9–18 Batch Performance Monitoring - Relative Performance Summary

The batch statistics are monitored at different levels as follows:

- Category Level
- Shell Level
- Record level

Category Details

The parameter monitored at category level as given as below:

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

Table 9–2 Category Details

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

Shell Details

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

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

Table 9–3 Shell Details

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

Figure 9–19 Shell Details

8
A

Figure 9–20 Shell Details - DDA Standing Instructions

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



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

Comments Table

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

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

Stream Details Table

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

Table 9–4 Stream Detai

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

Figure 9–22 Stream Based Shells

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

Note

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

Exception Log

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

Figure 9–23 Exception Log

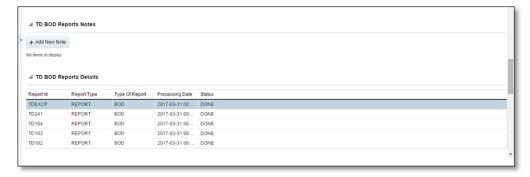
DRACLE'	Posting Date	28-Feb-2017											i	• × 4	*	bhakti	n 🔻 .
		Account 🔻	Back Office 🔻	CASA 🔻	Collection 🔻	Credit Card 🔻	Insurance 🔻	LCM 🔻	Loan 🔻	Origination v	Party 🔻	Payment And Colle	ction 🔻	Term Deposit	F	ast Path	
OPA <u>0</u> 03 ×																	
Monitor Batch Perf	ormance																
														🚔 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 9–24 Report Based Shells



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

Figure 9–25 Status of Report Based Shell

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

Exception Report

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

Figure 9–26 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 9–27 displays sample report for a particular shell.

Figure 9–27 Sample Report

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

Exception Log Table

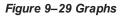
The figure below provides the details of the exception log.

Figure 9–28 Exception Log Table

ERROR CODE	ERROR DESCRIPTION	SUMMARY
kException: An error occurred in batch process.862-8203-0444- 6360		
Time Of Last Update : 2013-09-11 11:28:51.438 Error reference Number :802-8182-2552-7227Error msg :An error occurred in batch process Error cause :com.ofss.fc.framework.batc h.exception. BatchFramewor KException: An error occurred in batch process.862-8182-2552- 7227	com ofss fc.framework.batch.exception.BatchFrameworkException: An error occurred in batch process. at com.ofss.fc.framework.batch.process.BatchProcess.execute(BatchProcess.java:910) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:432) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:432)	
Time Of Last Update : 2013-09-11 11:28:53.868 Error reference Number :862-8206-5767-2044Error msg :An error occurred in batch process.Error cause :com.ofss.fc.framework.batc h.exception.BatchFramewor kException: An error occurred in batch process.862-8206-5767- 2044	com ofss fc.framework.batch.exception.BatchFrameworkException: An error occurred in batch process. at com ofss.fc.framework.batch.process.BatchProcess.execute(BatchProcess.java:910) at ocm ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:432) at com ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:432)	

9.2.3 Histogram of Shell Attribute Comparison

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





9.3 ODI Batch Handoff Monitoring

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

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

Figure 9–30 Input Parameters for Batch Handoff

	tor Batch Performa	ance												
										Ē	Print 🗸	0 <u>k</u> 🤣	Clear	× E
								P	ofroch Timo	02 Jun 20	15 11:12:34	AM OMT.	05-20	ଜ
								R.	enesii time	03-5011-20				
			_	_								Auto Refresh	Off	`
		Select Category	Analytics Batch Di	-				Job Type	GROUP					
		Processing Date	15-Dec-2016	1				Job Code	BRN_GRF	_1 Q				
									Adho	c Genera	te and Viev	w		
											Generate	Document		
													Doc	ument
⊿ B	atch Summary													
	Category Nam	e Analytics Batch	h Data Hand-off		Start Time	28 May 2015 16:1	1:19		W	ait Time 🛛 🕻	2:29:36			
	Statu	IS ABORTED			Estimated Completion Time	03 Jun 2015 11:27	7:34 *		Elapse	ed Time 1	139:01:15			
	Statu # of Abort	ABORTED			Time	03 Jun 2015 11:27 DELAYED BY 835			Elapse	ed Time 1	139:01:15			
	# of Abort	ABORTED			Time				Elapse	ed Time 1	139:01:15			
		ABORTED			Time				Elapse	ed Time 1	139:01:15			জি
3	# of Abort	ABORTED			Time				Elaps	ed Time 1	139:01:15			ଜ
3	# of Abort hell Details r All Filters	ts ABORTED	Detach		Time				Elapse	ed Time 1	139:01:15			ଜ
Clea	# of Abort hell Details r All Filters	ts ABORTED	Detach		Time				Elapse	ed Time 1	139:01:15			ଜ
Clea	# of Abort hell Details r All Filters v	IS ABORTED IS 12 Excel	Detach	Duration	Time			Status			139:01:15	e		ଜ
Clea	# of Abort hell Details r All Filters v V R Export To Name of Shell	Excel	Detach	Duration 00:00:00	Time Status	DELAYED BY 835	56 mins	Status 0%				e		હ્ય
Clea	# of Abort hell Details r All Filters v	Excel	Detach		Time Status	DELAYED BY 835	56 mins		E			e		दि

Execution Unit

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

This table contains the following attributes:

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

Figure 9–31 Execution Unit

, many acc Data mana-o)ff Details							
Module Code	ום	Wa	it Time -			Pending Time -		
Number of Streams		No of	Aborts			commentCount 0		
Start Time	2015-05-28 16:11:19	Records Pro	cessed -					
End Time		5-8-4 D						
End Time	2015-05-28 16:12:26	Failed R	ecords -					
Analytics Data Hand-O	off 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	FACES 28-May-2015 16:12:2	7 28-May-2015 16:13:34	Aborts				Records Processed	
ecution Unit Kg_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIERS	FACES 28-May-2015 16:12:2	7 28-May-2015 16:13:34 6 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	FACES 28-May-2015 16:12:2 S 28-May-2015 16:12:2	7 28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 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 GG_LN_CONTRACT_INTERF GG_ACCOUNT_RATE_TIERS (G_AS_ACCOUNT_ENTRY KG_TD_INTERFACES	FACES 28-May-2015 16:12:2 S 28-May-2015 16:12:2 28-May-2015 16:12:2	28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 28-May-2015 18:05:03 3 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 GLN_CONTRACT_INTERF (Q_ACCOUNT_RATE_TIERS G_AS_ACCOUNT_ENTRY (G_TD_INTERFACES (Q_FM_INTERFACES	FACES 28-May-2015 16:12:2 S 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:1 28-May-2015 16:12:2	28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 28-May-2015 18:05:03 3 28-May-2015 18:34:17 3 28-May-2015 16:12:32	Aborts 0 0 1 1 1	00:01:07 00:00:15 01:52:37 02:21:54	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C	Records Processed	
ecution Unit Go_LN_CONTRACT_INTERF (G_AS_ACCOUNT_RATE_TIERS G_TD_INTERFACES (G_PM_INTERFACES GG_PARTY_FIN_INTERFACES	FACES 28-May-2015 16:12:2 S 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:1 28-May-2015 16:12:2	28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 28-May-2015 18:05:03 3 28-May-2015 18:34:17 3 28-May-2015 16:12:32 8 28-May-2015 16:12:27	Aborts 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00:01:07 00:00:15 01:52:37 02:21:54 00:00:19	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C C C	Records Processed	
Kecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIERS KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES KG_PM_INTERFACES	FACES 28-May-2015 16:12:2 S 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:2 28-May-2015 16:12:1 28-May-2015 16:12:1 28-May-2015 16:12:1 28-May-2015 16:11:5	28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 28-May-2015 18:05:03 3 28-May-2015 18:04:03 28-May-2015 16:12:32 28-May-2015 8 28-May-2015 16:12:27 5 28-May-2015 16:12:38	Aborts 0 1 1 0 0 0	00:01:07 00:00:15 01:52:37 02:21:54 00:00:19 00:00:29	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C C C C C C C C C C C C C	Records Processed	
+ Add New Note xecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_ENTRY KG_D_INTERFACES KG_PM_INTERFACES KG_PARTY_FIN_INTERFACES KG_OR_INTERFACES KG_MITIOANT_INTERFACES	FACES 28-May-2015 16.12.2 S 28-May-2015 16.12.2 28-May-2015 16.12.2 28-May-2015 16.12.2 28-May-2015 16.12.2 28-May-2015 16.11.5 28-May-2015 16.11.5 28-May-2015 16.11.5	7 28-May-2015 16:13:34 6 28-May-2015 16:12:41 6 28-May-2015 18:05:03 3 28-May-2015 18:34:17 3 28-May-2015 18:12:32 8 28-May-2015 16:12:32 8 28-May-2015 16:12:27 5 28-May-2015 16:12:32 3 28-May-2015 16:12:49	Aborts 0 1 1 0 0 0 0 0 0 0 0 0 0 0	00:01:07 00:00:15 01:52:37 02:21:54 00:00:19 00:00:29 00:00:043	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C C C C C C C C C C C C C	Records Processed	

Abort Statistics

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

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

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

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

Sector Batch Performance Print V Os V Clex I VKG_GR_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.00.04 ODL_SERVICE_PROVIDER A VKG_UNITIGANIT_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.00.05 ODL_SERVICE_PROVIDER A VKG_UNITIGANIT_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.00.05 ODL_SERVICE_PROVIDER A VKG_UNITIGANIT_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.00.05 ODL_SERVICE_PROVIDER A VKG_GL_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.00.04 ODL_SERVICE_PROVIDER A VKG_GL_INTERFACES 24-Jun-2014 1 25-Jun-2014 1 25-Jun-2014 0 2 13.43.42 ODL_SERVICE_PROVIDER A VKG_GDA_INTERFACES 24-Jun-2014 1 25-Jun-2014 0 2 13.43.39 ODL_SERVICE_PROVIDER A	RING PLATFORM Posting Date 21-Fe	0-2017 Head Office, AUD, OFSSUser Last Log	in 25-Jun-2014 09:04:21 AM		Business	Unit CEP Business Unit 🔹 🏰 📍	100
Distor Batch Performance Imit ✓ Og ✓ Clex I N0_OR_NTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 000004 ODU_SERVICE_PROVIDER A N0_OR_NTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 000005 ODU_SERVICE_PROVIDER A N0_OR_NTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 000005 ODU_SERVICE_PROVIDER A N0_OR_NTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 000005 ODU_SERVICE_PROVIDER A N0_OR_NTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13:43:42 ODU_SERVICE_PROVIDER A N0_OUT_NTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13:43:39 ODU_SERVICE_PROVIDER A N0_OUT_NTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13:43:39 ODU_SERVICE_PROVIDER A N0_OUT_NTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13:43:39 ODU_SERVICE_PROVIDER A N0_OUT_NTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00015 OU_SERVICE_PROVIDER A N0_OUT_RTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00015 OU_SERVICE_PROVIDER A N0	ount * Back Office * CASA * C	ollection * Credit Card * LCM * Loan *	Origination * Party * Pi	ayment And Collection *	Term Deposit *	Refe 🚸 🕺 FastPath 🚃	
WG_CR_RTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.004 OCL_SERVICE_PROVIDER A WG_SUTIGANT_INTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 OCL_SERVICE_PROVIDER A WG_CU_RTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 OCL_SERVICE_PROVIDER A WG_U_RTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 OCL_SERVICE_PROVIDER A WG_GU_RTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 2 13.43.42 OCL_SERVICE_PROVIDER A WG_CURT_INTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13.43.42 OCL_SERVICE_PROVIDER A WG_CURT_INTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13.43.39 OCL_SERVICE_PROVIDER A WG_CURT_INTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 10.00.15 OCL_SERVICE_PROVIDER A Verie * ImatchCode BranchGreepCode BunComt ImatchCode BranchGreepCode BunComt ImatchCode ImatchCode ImatchCode 2 2 0000000 BRU_GRP_1 0 ImatchCode ImatchCode ImatchCode ImatchCode	CRYTER A						
ND_UNTGRANT_INTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 ODL/SERVICE_PROVIDER A ND_UNTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 ODL/SERVICE_PROVIDER A ND_UNTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 00.005 ODL/SERVICE_PROVIDER A ND_UNTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13.43.42 ODL/SERVICE_PROVIDER A ND_OUT_INTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13.43.42 ODL/SERVICE_PROVIDER A ND_OUT_INTERFACES 24-Jun-2014 1. 25-Jun-2014 0. 2 13.43.39 ODL/SERVICE_PROVIDER A ND_OUTS_INTERFACES 24-Jun-2014 1. 24-Jun-2014 1. 1 10.01.15 ODL/SERVICE_PROVIDER A Veri * Imatch Imatch Imatch Imatch Imatch Imatch Veri * Imatch Imatch Imatch Imatch Imatch Imatch Imatch Imatch 2 080000 BRIL_GRP_1 0 Imatch Imatch Imatch Imatch Imatch Ima	onitor Batch Performance					int Print ✓ Og	🕈 Clear 🛯
NG_UL_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.005 OD_BERINCE_PROVIDER A NG_GU_RITERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.0014 OD_SERINCE_PROVIDER A NG_GU_RITERFACES 24-Jun-2014 1 25-Jun-2014 1 2 13.43.42 OD_SERINCE_PROVIDER A NG_COLUTY_INTERFACES 24-Jun-2014 1 25-Jun-2014 1 2 13.43.39 OD_SERINCE_PROVIDER A NG_COLUTY_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.015 OD_SERINCE_PROVIDER A NG_COLUTY_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00.015 OD_SERINCE_PROVIDER A View • Imach Imach Imach Imach Imach Imach 2 000000 BRIL_GRP_1 0 Imach Imach Imach Imach 2 000000 BRIL_GRP_1 0 Imach Imach Imach Imach Imach 2 000000 BRIL_GRP_1 0 Imach Imach Imach Imach Imach <		24-Jun-2014 1 24-Jun-2014 1 1			A		
NG_GU_INTERFACES 24-Jun-2014 1 1 00.004 OD_SERVICE_PROVIDER A NG_FACUITY_INTERFACES 24-Jun-2014 1 2 13.43.42 OD_SERVICE_PROVIDER A NG_COL_INTERFACES 24-Jun-2014 1 2 13.43.23 OD_SERVICE_PROVIDER A NG_COL_INTERFACES 24-Jun-2014 1 2 13.43.24 OD_SERVICE_PROVIDER A NG_COL_INTERFACES 24-Jun-2014 1 2 13.43.29 OD_SERVICE_PROVIDER A					A		
NO_FACULTY_INTERFACES 24-Jun-2014 1. 2 13.43.42 OD_BERINCE_PROVIDER A NO_EDA_INTERFACES 24-Jun-2014 1. 2 13.43.33 OD_BERINCE_PROVIDER A NO_EDUST_INTERFACES 24-Jun-2014 1. 2 13.43.33 OD_BERINCE_PROVIDER A NO_EDUST_INTERFACES 24-Jun-2014 1. 24.Jun-2014 1. 0.0015 OD_BERINCE_PROVIDER A NO_EDEACH Image: Another and Ano		24-Jun-2014 1 24-Jun-2014 1 1			A		
NO_ECA_INTERFACES 24-Jun-2014 125-Jun-2014 02 13.43.39 OD_ERRICE_PROVIDER A NO_CUST_INTERFACES 24-Jun-2014 124-Jun-2014 11 00.015 OD_ERRICE_PROVIDER A View Image: Detach		24-Jun-2014 1 24-Jun-2014 1 1			A		
NO_CUST_INTERFACES 24-Jun-2014 1 24-Jun-2014 1 1 00 00 15 ODL/SERVICE_PROVIDER A		24-Jun-2014 1 25-Jun-2014 0 2			*		
View ♥ Cotach ErrorCode ProcessResult BranchCroupCode RunCourt 2 2 0080000 BRNLGRP_1 0 Failure at tet STG_TD_IAASTER. Check Operator loss at 2014-06-24 19:22:01.6 for tuffer exits Cot Cancel	KG_DDA_INTERFACES	24-Jun-2014 1 25-Jun-2014 0 2			*		
ErrorCole Processiliesuit BranchCole BranchGroupCode NunCount 2 2 069090 BRN_GRP_1 0 Failure at rdST-G_TD_MASTER. Check Operator logs at 2014-05-24 19:22:01:0 for further details. ICK Canon	PKG_CUST_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00.00.15 ODL	SERVICE_PROVIDER	A		
	ErrorCode ProcessResult E	000000 BRN_GRP_1 0 F4	Int.STG_TD_MASTER. Check 2014-05-24 19:22:01.0 for fu	k Operator logs ither details.			
	ErrorCode ProcessResult E	000000 BRN_GRP_1 0 F4	Int.STG_TD_MASTER. Check 2014-05-24 19:22:01.0 for fu	k Operator logs ether details. K. Cancel	etail for inte	erface	
	ErrorCode ProcessResult E	000000 BRN_GRP_1 0 F4	Int.STG_TD_MASTER. Check 2014-05-24 19:22:01.0 for fu	k Operator logs ether details. K. Cancel	etail for inte	erface	
Relative Performance Summary	ErrorCade Processilesuit I	000000 BRN_GRP_1 0 F4	Int.STG_TD_MASTER. Check 2014-05-24 19:22:01.0 for fu	k Operator logs ether details. K. Cancel	etail for int	erface	
	ErrorCode Processiliesuit E 2 2 2 0 Relative Performance Summary	NODODO BRN_GRP_1 0 f	int 510_10_UNSTER Check 2014-05-24 19 22 01 0 for fu	Concel	etail for int	erface	
	ErrorCode Processiliesuit E 2 2 2 0 Relative Performance Summary	NODODO BRN_GRP_1 0 f	int 510_10_UNSTER Check 2014-05-24 19 22 01 0 for fu	Concel	etail for int	erface	
Relative Performance Summary ompare Date (14Feb-2017 (%) Shell Athrbute (Records Processed) Module (Censue)	ErrorCode Processiliesuit E 2 2 2 0 Relative Performance Summary	NODODO BRN_GRP_1 0 f	int 510_10_UNSTER Check 2014-05-24 19 22 01 0 for fu	Concel	etail for inte	erface	

10 Application Monitoring Using EM Plugin

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

10.1 Monitoring Application Using EM Plugin

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

10.1.1 Oracle Enterprise Manager (EM)

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

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

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

Some notations in EM are provided below:

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

Table 10–1 Notations in EM

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

Figure 10–1 Oracle Enterprise Manager

Services											Auto Re	fresh Off	\sim	Page	Refres	hed Nov	1, 2017 5:04	31 PM IST 🐧
Services Features																		
Type ALL 🗸 Name	36	🔍 Adva	nced Search															
View 👻 🎽 Create 👻 🗙 Remo	we																	
Name	Service Level Incidents Agreement Type Status Availability Status System		System	Key	Compo	nents			Key	Tests								
				~				man	Us	age		Status		Incid	ents		Statue	Monitori
					•	•	3 🔺		8		•	Status	•	8	▲		tatus E	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_UI_Service	Generic Service	+	Tests	-	-			-	-		/SMOKEPROD261_UI_ofss310490_in_oracle_co /ui_domain	n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_OID_Service	Generic Service	+	Tests	×.				-	-		/SMOKEPROD261_OID_ofss3121155_in_oracle /IDMDomain	n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_View	Aggregate Service	+	Sub	-	-			-	-		n/a	† 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.

10.1.2 UI

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

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

		ise Manager Cloud	I Control 13c						iterprise 🔻	<u> </u>	🔶 Ea	vorites 🔻 (Histor	·• 🔅	<u>S</u> etup ▼	0	SYS	SMAN 🔻 🚥
	obpui_cluster	0															📕 ofss3105	524.in.oracle.com
t=	NebLogic Cluster 👻	Startup	Shutdown	🗧 Create Bla	ackout	🕞 End Bla	ckout								Page Refr	eshed Nov 3	, 2017 4:17:26	Б АМ GMT 🕥
Serve	r Performance												^ N	letric F	Palette			
Past	2 hours								Da	2 hours	15 minutes	▶ Slider @		1 Targe	ts			
	Lindaro											_		View 🔻	Search			9
Charl	Set Default 🗸 Sav	e Chart Set View	v Compare V								Hide Me	tric Palette			🔄 obpui_c	luster1		
		_									Availability				🕨 🤮 Clus	stered Applic	cation Deployn	nent (2)
	02:20 AM 02:30 November 03, 2017	02:40 02:5	50 03:00	03:10	03:20	03:30	03:40	03:50	04:00	04:10				2	🕨 🔚 obp	ui_server1		
	10									/	×	en sert s		F	Related	Targets		
	2 5										Active S	essions		∉ Metric	:s 占 obp	ui_server1		
	1.5										×		8	View 🔻	Search			Q
	1.0 0.5								_		■ obpui_s Usage (*	erver1: CPU %)		×.	Certificat	e Monitoring		^
	4,000													. ⊢ i	Connecti	on Pool Metri	ics By Server	
Æ	2,000										× eobpui_s	erver1:			Datasour			
Σ	2,000										Heap Us	age (MB)			EJB Cach			
	02:20 AM 02:30 November 03, 2017	02:40 02:5	50 03:00	03:10	03:20	03:30	03:40	03:50	04:00	04:10			-		EJB Pool		ics By Server	
	150							_			× obpui s	erver1:			JMS Dest			
1	50		~ ~						~~		obpui_s Request Time (m	Processing s)			JMS Metr			
	. 30		~						-				~	F	JMS Serv	er Metrics		~

Figure 10–2 UI Cluster in EM

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

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

The following figure displays the WebLogic domain for UI.

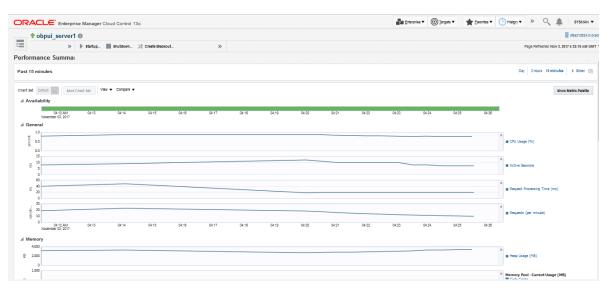
Figure 10–3 WebLogic Domain for UI

	e Ma	anager Cloud Control 13c	Interprise ▼ (③] Iargets ▼ ★ Eavorites ▼ (④ History ▼ ☆ Setup ▼ ▲ SYSMAN ▼
ui_domain 🚯			ets310524 in oracle com
🔄 🦉 WebLogic Domain 👻	•	Startup Shutdown	D Page Refreshed Nov 3, 2017 4:21:28 AM GNT 🕥
Summary		General	
Administration Server Administration Server Nov 2, 2017 10:55:32 AM GMT WebLogic Domain Refreshed	Þ	Administration Server Administration Server Host Listen Port SSL Listen Port WebLogic Domain Refreshed Version	ofss316524 in oracle.com 7001 7002
2 up	•	Domain Home JRF Monitoring and Diagnostics	
Clusters	•	Incidents Descendant Target Incidents Configuration Changes	0
Deployments		Diagnostic Findings Support Workbench Problems	
· · ·			

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

The following figure displays the metrics chart.

Figure 10–4 Metrics Chart



10.1.3 Host

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

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

Figure 10–5 Host Cluster in EM



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

Figure 10–6 Host Target in EM

	e Manager Cloud Control 13c		Enterprise V	<u> </u>	★ <u>Eavorites</u> ▼	History V	Setu	्र्	SYSMAN V
host_domain 🚯									ofss310519.in.oracle.o
* *	▶ Startup ≫					0	Page Refres	ned Nov 3,	2017 5:59:34 AM GMT 👈
Summary	General								
AdminServer Administration Server	Administration Server	AdminServer							
Nov 2. 2017 10:57:42 AM GMT	Administration Server Host	ofss310519.in.oracle.com							
WebLogic Domain Refreshed	Listen Port	7001							
	SSL Listen Port								
Servers		Nov 2, 2017 10:57:42 AM GMT							
-		12.2.1.2.0							
2 Up		/scratch/app/product/fmw/user_projects/domains/host_domain							
	JRF	Full							
	Monitoring and Diagnostics								
Clusters	Incidents	0							
	Descendant Target Incidents	O 1							
1 Up	Configuration Changes	46							
l up	Diagnostic Findings	۰ 0							
	Support Workbench Problems	s 0							
Deployments									
opioj mento									
1 Down	•								
8 Up									
-									

The following figure displays the metric charts.

Figure 10–7 Metrics Chart

אאת		E' Enterp	rise Ma	nager Cl	oud Cont	rol 13c													a ga	ergeneral *			The second	. 0	· · · · · · · · · · · · · · · · · · ·	🛟 Setup 🕇	~\ ÷	SYSMAN
1	t obpl	host_serv	ver1 0																									dtss310519.in/
	- WebLog	io Server 💌)⊨ star	up	Shutdown	_ ≫ c	reate Blacks	out. 🕞	End Blackov	ıt																Page Re	streshed Nov 3, 2	017 5:19:57 AM GI
erfor	mance	e Summa	iry																									
ast 2	hours																									Day 2 hr	ours 15 minutes	i 🕨 Silder 🟥
	t Default		e Chart Se	View	▼ Compa	are 🔻																					Sho	w Metric Palette
a Av	03:20 AM		03:30	03:35	03:40	03:45	03:50	03:55	04:00	04:05	04:10	04:15	04:20	04:25	04:30	04:35	04:40	04:45	04:50	04:55	05:00	05:05	05:10	05:15				
í Ge	neral																											
percent.	5.0 2.5																								×	CPU Usage (%)		
	2																								×			
-	§ 1																									Active Sessions		
	600															_									×			
SII (400 200																									Request Processin	ng Time (ms)	
	0															_			_						×			
operati	0.05																								112	Requests (per mir	nute)	
	0.00 03.20 AM Nove	03:25 mber 03, 2017	03:30	03:35	03:40	03:45	03:50	03:55	04:00	04:05	04:10	04:15	04:20	04:25	04:30	04:35	04:40	04:45	04:50	04:55	05:00	05:05	05:10	05:15				
Me	mory																											
	5,000																								×			
	2,000																								- 1	Heap Usage (MB)		
	1.0																											

10.1.4 SOA

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

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

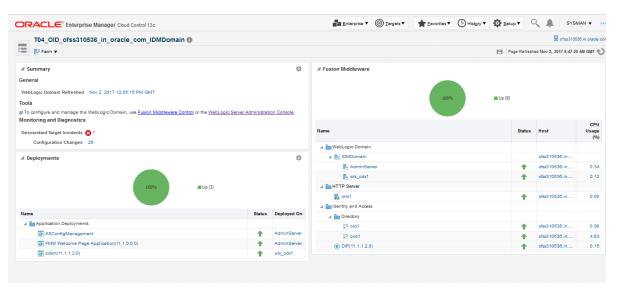
Figure 10–8 Viewing Process List

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
내 defaulticom ofts fa approval submissionfinancialspi_submitfinancialcapture [1.0] 내일 defaulticom ofts fa approval oreditisectisionspi_waivecollateralvaluation [1.0]		1	(per minute) 0.00	(per minute) 0.00	Rate (%) 0.00	Faults 0	Faults 0	Faults 0 0	Policy Violations 0	Instances
- •∰ default/com ofis fo approval submissionfinancialspi_submittinancialcapture (1.0)		†	(per minute) 0.00 0.00	(per minute) 0.00 0.00	Rate (%) 0.00 0.00	Faults 0	Faults 0 0	Faults 0 0 0	Policy Violations 0 0	Instances
Image: Stand		1 1 1	(per minute) 0.00 0.00	(per minute) 0.00 0.00 0.00	Rate (%) 0.00 0.00 0.00	Faults 0 0	Faults 0 0 0	Faults 0 0 0 0	Policy Violations 0 0 0 0	Instances
역 defaulticom oftis fic approval submissionfinencialispi_submittinancialcopture [1.0] 약 defaulticom oftis fic approval cedificacionepi_valvecoltatean/autation [1.0] 약 defaulticom oftis fic workflow process: CapturePartyFinencials [1.0] 약 defaulticom oftis fic workflow process: StructureDepositSolution [1.0] 약 defaulticom oftis fic workflow process: StructureDepositSolution [1.0]		1 1 1 1	(per minute) 0.00 0.00 0.00	(per minute) 0.00 0.00 0.00	Rate (%) 0.00 0.00 0.00	Faults 0 0 0	Faults 0 0 0 0 0 0 0 0 0 0	Faults 0 0 0 0 0	Policy Violations 0 0 0 0	Instances
defaulticom ofts fc approval submissionfinancialspi_submitfinancialcapture [1.0] Mig defaulticom ofts fc approval ceditidecisionpi_walvecoltateatralutation [1.0] Mig defaulticom ofts fc workflow process. Capture Party Financials [1.0] Mig defaulticom ofts fc workflow process. ProcessLoanRollower [1.0] Mig defaulticom ofts fc workflow process. ProcessLoanRollower [1.0] Mig defaulticom ofts fc workflow process. ProcessLoanRollower [1.0] Mig defaulticom ofts fc workflow process. ProcessCould CardApplication [1.0] Mig defaulticom ofts fc workflow process. ProcessCreditCardApplication [1.0]		1 1 1 1 1 1 1	(per minute) 0.00 0.00 0.00 0.00	(per minute) 0.00 0.00 0.00 0.00	Rate (%) 0.00 0.00 0.00 0.00 0.00	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Policy Violations 0 0 0 0 0 0 0	Instances () () () () () () () () () () () () ()
Mill default/com.ofts fc.approval submissionfinancialspL_submitfinancialcapture [1.0] Mill default/com.ofts fc.approval ceditidecisionpic_waivecollateralvaluation [1.0] Mill default/com.ofts fc.ucoffice.process CapturePertyFinancials [1.0] Mill default/com.ofts fc.ucoffice.process ProcessLeanRollove [1.0] Mill default/com.ofts fc.ucoffice.process ProcessLeanRollove [1.0]		1 1 1 1 1 1 1 1 1 1 1	(per minute) 0.00 0.00 0.00 0.00 0.00	(per minute) 0.00 0.00 0.00 0.00 0.00	Rate (%) 0.00 0.00 0.00 0.00 0.00	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Faults 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Policy Violations 0 0 0 0 0 0 0	Instances 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

10.1.5 Security Stack (OID and OAM)

OID and OAM are also deployed as WebLogic domain.

Figure 10–9 OID WebLogic Domain



10.1.6 Document Generation Outbound Components (Documaker, 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) as well as Documaker. From EM, we check whether that webservice is up and running or not, which gives the status of these components. The following figure displays the status from EM.

Figure 10–10 Document Generation Status

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

Oracle Analytics Publisher is also deployed on WebLogic domain.

Figure 10–11 Oracle Analytics Publisher Deployment

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

10.1.7 ATM and POS (Point Of Sales) Channels

ATM and POS work on socket listener mechanism.

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

The following figure displays the status from EM.

Figure 10–12 EM Monitoring



10.1.8 Outbound OFSAA call

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

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

Figure 10–13 Web Monitoring



10.1.9 Monitoring Views

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

10.1.9.1 Batch Monitoring

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

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

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

	ORACLE Enterprise Manager Cloud Control 13c					Eavorites C	list <u>o</u> ry • 🚺 Setup	• • • #	SYSMAN V		
OBP_T04_VIEW ()								۵.	mum00bhd.in.oraol		
OBP View 🔻							Page	Refreshed Nov 4, 2017	7 11:19:42 AM IST		
Summary	Application Services User Interface Origination Use	r Interface Integratio	Batch Monito	ring							
Status Current Status T Up Up Since Nov 2, 2017 6:37 pm IST											
	shellName	duration	noOfAborts	throughput	totalRecords	processedCo	startTime	endTime			
Availability % 100.0%	ac_action_relog_sh	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16	-		
······	ac_bundle_exp_poller	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47			
	ac_bundle_fee_shell	00:00:03	0	206	14	14	03-nov-2017 10:16	03-nov-2017 10:18			
	ac_stl_pyt_eod_shell	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16			
	as_eod_check	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47			
	dd_auto_statuschange	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16			
	dd_eod_action1	00:00:15	9	78	193	193	03-nov-2017 16:45	03-nov-2017 16:45			
	dd_eod_action2	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:46			
	dd_eod_action3	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:48			
	dd_eod_action4	00:00:00	0	332	2	2	03-nov-2017 16:46	03-nov-2017 16:46			
	dd_eod_action5	00:00:00	0	0	0	0		03-nov-2017 16:47			
	shellName streamNumber streamFir	stRow 1 streamCurr	entR stream	nLastRow	duration	processedCount	serverName	dbinstanceName			
	Demand Deposit EC 1 1	194	193		15	193	obphost_server1	COBPB2			

Figure 10–14 Database Server Info

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

The following figure displays the status from EM.

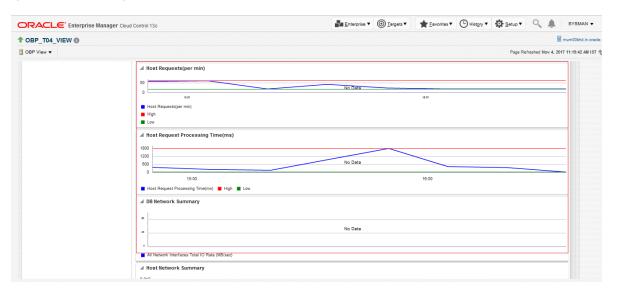
Figure 10–15 Batch Monitoring Status

									📃 mum00	
•_T04_VIEW								Pr	age Refreshed Nov 4, 2017 11:19	
	shellName	streamNumber		▲ streamCurrentR	streamLastRow	duration	processedCount	serverName	dbinstanceName	
	Demand Deposit E	C 1	1	194	193	15	193	obphost_server1	COBPB2	
	d DB CPU Utiliza	tion(%)								
	a0									
					No Data					
	40								100	
	•									
	•	n(%) 📕 High 🔳 Low								
	•									
	a DB CPU Utilizatio									
	a DB CPU Utilizatio				Nr: Oata					
	DB CPU Utilizatic M Host CPU Utilizatic				No Data		200			

Figure 10–16 Batch Configuration

ORACLE' Enterprise Manager Cloud	Control 13c	Enterprise V	<u> </u>	★ <u>Favorites</u> ▼	History •	Setup V	् 🌲	SYSMAN V
↑ OBP_T04_VIEW ●							1	mum00bhd.in.oracle.o
🗒 OBP View 🔻						Page Re	freshed Nov 4, 2	017 11:19:42 AM IST 👈
	Old Heap Free After GC(%)							
	▲ DB Active Sessions							
	48	No Data						
	Active Sessions Using CPU							
	▲ Host Open JDBC Connections							
	4							-
	2	No Data						
	15:00			16:00				
	Open JDBC Connections High Low							
	Host Active Threads							
		No Data	_					
	Active Threads			16:00				
	High							
	Low							
	# DB ThroughPut							

Figure 10–17 WebLogic Service Info



10.1.9.2 Application Monitoring

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

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

10.1.9.2.1 Application Services

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

For cluster details, click the Show Cluster Details link.

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

DRACLE' Enterprise Manager Clou	ud Control 13c						<u>Enterpris</u>	se • 🔘	Eargets V	+ Eavorites	• 🕒 Hist	<u>ery</u> ▼ 🔅	Setup V	्र 🌲 🛙 🖻	SYSMAN .
OBP_T04_VIEW														🗏 mur	m00bhd.in.o
OBP View 🔻													Page Refres	hed Nov 4, 2017 11	:19:42 AM I
▲ Summary	Application Services	User Interface	Originatio	n User Interfa	ce Integra	tion Batch	Monitoring								
	reprinted of the second														
Status Current Status 1 Lin	Show Cluster Details														
Up Since Nov 2, 2017 6:37 pm IST							SERVER								
Availability % 100.0%	► 🗀 CLUSTER														
realizability is 100.010															
	Export To Excel														
	Name	Channel	TaskC	AvgTi	MaxTi	MinTime	Succe	Alert	AlertU	Trend	Trend	Transa	Serve	Actual	
	Fetch Purchase Propertie	BRN	OR232	96.7	165	56	10	false		73, 165, 77	UPWARDS	Transaction	obphost_se	LendingAp	
	Fetch Credit Restriction L	BRN	WL000	76	94	58	2	false		94.58	DOWNWAR	Transaction	obphost_se	Con ditt Disate	
	Feich Gredit Restriction L	Diate			0.1	00	2			01,00	Dominia	manipalotron	obpriost_se	Creditikestr	
	Fetch Associated Party	BRN	WL000	103	189	17	2	false		189, 17	DOWNWAR			AssociatedF =	
				103 434				false false					obphost_se		
	Fetch Associated Party	BRN BRN	WL000		189	17	2			189, 17		Transaction	obphost_se obphost_se	AssociatedF =	
	Fetch Associated Party Inquire DD Transactions	BRN BRN	WL000 ACCT003	434	189 434	17 434	2	false		189, 17 434	DOWNWAR	Transaction Transaction	obphost_se obphost_se obphost_se	AssociatedF = StatementI	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie	BRN BRN BRN BRN	WL000 ACCT003 WL000	434 58.5	189 434 62	17 434 55	2 1 2	false false		189, 17 434 62, 55	DOWNWAR	Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se	AssociatedF StatementI Submission	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details	BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003	434 58.5 87	189 434 62 87	17 434 55 87	2 1 2 1	false false false		189, 17 434 62, 55 87	DOWNWAR	Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F Statementl Submission DDAInquiry	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configura	BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000	434 58.5 87 1457	189 434 62 87 1457 92	17 434 55 87 1457	2 1 2 1 1	false false false false		189, 17 434 62, 55 87 1457 92	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F Statement Submission DDAInquiry OverdraftAc	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configure Fetch Related Parties	BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000 WL000	434 58.5 87 1457 92	189 434 62 87 1457 92	17 434 55 87 1457 92	2 1 2 1 1 1	false false false false false		189, 17 434 62, 55 87 1457 92	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F StatementI Submission DDAInquiry OverdraftAc PartyDraftA	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configura Fetch Related Parties Fetch Settlement Instruct	BRN BRN BRN BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000 WL000 WL000	434 58.5 87 1457 92 305.592592	189 434 62 87 1457 92 1020	17 434 55 87 1457 92 77	2 1 2 1 1 1 27	false false false false false false		189, 17 434 62, 55 87 1457 92 287, 201, 2	DOWNWAR NEUTRAL UPWARDS	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F Statement Submission DDAInquiry OverdraftAc PartyDraftA Settlement	

Figure 10–18 Application Metrics of Application Services for all servers in cluster

Expand CLUSTER to get a list of all the servers.

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

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

RACLE' Enterprise Manager Clou	d Control 13c					4	<u>E</u> nterprise	• (0)	argets 🔻	* Eavorites	• 🕒 Hist	ery 🕶 🖸	<u>S</u> etup ▼	्र 🌲	SYSMAN ¥
OBP_T04_VIEW															mum00bhd.in.ora
OBP View 🔻													Page Refres	hed Nov 4, 2017	7 11:19:42 AM IST
▲ Summary	Application Services	Jser Interface	Originatio	n User Interfac	e Integration	Batch Mo	onitoring								-
Status	Show Cluster Details														
Current Status 👚 Up							SERVER								
Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER														
Availability % 100.0%	/T04_HOST_ofss3	10519_in_ora	cle_com_hos	t_domain/host	_domain/obpho	st_server1									
	Export To Excel														
	Name	Channel	TaskC	AvgTi	MaxTi	tinTime S	Succe	Alert	AlertU	Trend	Trend	Transa	Serve	Actual	
	Name Fetch Credit Restriction L		TaskC WL000	AvgTi 76				Alert	AlertU	Trend 94, 58	Trend DOWNWAR	Transa Transaction		Actual CreditRestri	•
					94 8	58	2 f		AlertU				obphost_se		-
	Fetch Credit Restriction L	BRN BRN	WL000	76	94 § 189 î	17	2 f 2 f	alse	AlertU	94, 58	DOWNWAR DOWNWAR	Transaction	obphost_se obphost_se	CreditRestri	
	Fetch Credit Restriction L Fetch Associated Party	BRN BRN BRN	WL000 WL000	76 103	94 5 189 1 201 5	58 17 57	2 f 2 f 3 t	alse alse		94, 58 189, 17	DOWNWAR DOWNWAR	Transaction Transaction	obphost_se obphost_se obphost_se	CreditRestri AssociatedF	•
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn	BRN BRN BRN BRN	WL000 WL000 OR241	76 103 128	94 5 189 1 201 5 103 5	18 17 57 59	2 f 2 f 3 t 6 f	alse alse rue		94, 58 189, 17 126, 57, 20	DOWNWAR DOWNWAR UPWARDS NEUTRAL	Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT	
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det	BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232	76 103 128 83	94 § 189 1 201 § 103 § 3292 1	17 17 19 15	2 f 2 f 3 t 6 f 145 f	alse ialse rue ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16,	DOWNWAR DOWNWAR UPWARDS NEUTRAL	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar	•
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc	BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000	76 103 128 83 56.5103448	94 8 189 1 201 8 103 8 3292 1 350 7	17 17 15 15 15	2 f 2 f 3 t 6 f 145 f 3 f	alse ialse rue ialse ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16,	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar DocumentIr	
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate	BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000	76 103 128 83 58.5103448 168	94 8 189 1 201 8 103 8 3292 1 350 7 60 6	18 17 17 15 15 15 16 10	2 f 2 f 3 t 6 f 145 f 3 f 1 f	alse ialse rue ialse ialse ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16, 350, 79, 75 60	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL	Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai Documentli LookupHier	Ξ
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate Fetch By Version	BRN BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000 LCM07	76 103 128 83 56.5103448 168 60	94 8 189 1 201 8 103 8 3292 1 350 7 60 6 240 4	58 55 59 55 50 55 50 50 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 51 5	2 f 2 f 3 t 8 f 145 f 3 f 1 f 25 f	ialse iulse iulse ialse ialse ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 18, 18, 350, 79, 75 60 145, 123, 9	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai Documentli LookupHier CollateralC	=
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Summ Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate Fetch By Version Search	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000 LCM07 PI028	76 103 128 83 56.5103448 168 60 97.52	94 & 189 1 201 201 201 3292 1 350 1 240 4 98 1	58 57 57 57 57 57 57 57 57 57 57 57 57 57	2 f 2 f 3 t 6 f 145 f 1 15 f 25 f 7 f	ialse ialse ialse ialse ialse ialse ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 18, 18, 350, 79, 75 60 145, 123, 9	DOWNWAR DOWNWAR UPWARDS NEUTRAL DOWNWAR UPWARDS UPWARDS	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai DocumentI LookupHier CollateralC DocumentA	Ξ
	Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Summ Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate Fetch By Version Search Fetch Submission Summ	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 UCM07 PI028 WL000	76 103 128 83 56.5103448 168 60 97.52 337.571428	94 8 189 1 201 8 103 8 3292 1 350 7 60 6 240 4 498 1 13638 2	58 57 55 57 55 50 50 50 50 50 50 50 50 50 50 50 50	2 f 2 f 3 t 6 f 145 f 1 45 f 1 1 f 25 f 7 f 18 f	ialse ialse rue ialse ialse ialse ialse ialse		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16, 350, 79, 75 60 145, 123, 9 168, 233, 3	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL DOWNWAR UPWARDS UPWARDS	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai DocumentII LookupHier CollateralC DocumentP Submission	Ξ

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

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

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

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

10.1.9.2.2 User Interface

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

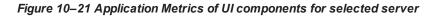
For cluster details, click the Show Cluster Details link.

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

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

RACLE' Enterprise Manager Cloud	d Control 13c					P Ente	erprise 🔻	O Targets	• 🔺	<u>F</u> avorites ▼	History	• 🗘 🛚	etup 🔻 🤇	्र	SYSMAN ¥
OBP_T04_VIEW ()														ş	mum00bhd.in.ora
DBP View 🔻													Page Refres	hed Nov 4, 20	17 11:19:42 AM IST
Summary	Application Services User Interface	Drigination Use	er Interface	Integra	tion Bate	h Monitorin	D								<u> </u>
Status	Show Cluster Details														
Current Status 🕈 Up						SERVE	R								
Up Since Nov 2, 2017 6:37 pm IST Availability % 100.0%	► 🗀 CLUSTER														
	Export To Excel														
	Export To Excel	Chan	Task	AvgT	MaxT	MinTi	Succ	Alert	Alert	Tren	Tren	Tran	Serv	Actual Se	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	Succ	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name	BRN		15937			_		Alert		Tren	Transactio		Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Cate
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	Collateral	Caste

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.



RACLE' Enterprise Manager Cloud	d Control 13c				Enterp	prise 🔻 🤇	Iargets	1	avorites v	Histo	v D	<u>S</u> etup ▼	< ₽	SYSI
BP_T04_VIEW													💂 m	im00bi
3P View ▼												Page Refre	shed Nov 4, 2017	1:19:4
Summary	Application Services User Interface C	Drigination User Inter	ace Integra	tion Batch	n Monitoring									^
Status	Show Cluster Details													
rrrent Status 🕇 Up					SERVER	۶								
Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER													
vailability % 100.0%	/T04_UI_ofss310524_in_oracle_com	n_ui_domain/ui_don	ain/obpui_ser	er1										
	Export To Excel													
	Export To Excel Name CollisteralCategoryPreferanceMint.update	Chan Task BRN LCM	AvgT	MaxT	MinTi	Succ	Alert	Alert	Tren 15937	Tren	Tran	Serv	Actual Se	
	Name		7 15937					Alert		Tren	Transac	tic obpui_se		
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	
	Name CollateralCategoryPreferanceMnt.update	BRN LCM	7 15937	15937	15937	1	false	Alert	15937	Tren	Transac	tic obpui_se	r CollateralCate	

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

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

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

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

10.1.9.2.3 Origination User Interface

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

For cluster details, click the Show Cluster Details link.

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

DRACLE' Enterprise Manager Clou	d Control 13c						Enterpris	se • ()	Largets V	E avorites	• Оны	20 T	Setup V	~ ÷	SYSMAN
OBP_T04_VIEW															📕 mum00bhd.in.
OBP View 🔻													Page Refre	shed Nov 4, 2	2017 11:19:42 AM
▲ Summary	Application Services Us	ser Interface	Originatio	n User Interfa	e Integra	tion Batch	Monitoring								-
Status	Show Cluster Details														
Current Status 🏦 Up							SERVER								
Up Since Nov 2, 2017 6:37 pm IST	E CLUSTER														
Availability % 100.0%															
	Export To Excel														
	Export To Excel	Channel	TaskC	AvgTi	MaxTi	MinTime	Succe	Alert	AlertU	Trend	Trend	Trans	Serve	Actual	
	L	Channel	TaskC	AvgTi 1057.54545		MinTime 26	Succe 11	Alert	AlertU	Trend 33, 69, 28,	Trend DOWNWAR				St 🔺
	Name		TaskC						AlertU				obpui_serve	Applicant	
	Name Applicant StepExit	BRN	OR097	1057.54545	11118	28	11	false	AlertU	33, 69, 28,		Transaction	obpui_servi obpui_servi	Applicant BasicStep	H.
	Name Applicant StepExit Basic BeforeStepEntry	BRN BRN BRN		1057.54545 3	11118 3	26 3	11	false false	AlertU	33, 69, 28, 3		Transaction Transaction	obpui_serve obpui_serve obpui_serve	Applicant BasicStep BasicStep	64. 64.
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit	BRN BRN BRN BRN	OR097	1057.54545 3 633	11118 3 633	26 3 633	11 1 1	false false false	AlertU	33, 69, 28, 3 633		Transaction Transaction Transaction	obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep BasicStep Financial	ifi Ifi
	Name Applicent StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl	BRN BRN BRN BRN	OR097	1057.54545 3 633 0	11118 3 633 0	28 3 633 0	11 1 1 1	false false false false	AlertU	33, 69, 28, 3 633 0		Transaction Transaction Transaction Transaction Transaction	obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep BasicStep Financial StructureS	HL HL Ph So
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEx	BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800	11118 3 633 0 800	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_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep BasicStep Financial Structures FundingS	HH HH Bh So te
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEx Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5	11118 3 633 0 800 2176	26 3 633 0 800 247	11 1 1 1 1 2	false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep BasicStep Financial StructureS FundingS Instruction	HL HL Sio Sio Sis
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEy Funding BeforeStepExit Instructions BeforeStepExit	BRN BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5 6	11118 3 633 0 800 2178 6	28 3 633 0 800 247 6	11 1 1 1 1 2 1	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep Financial StructureS FundingS Instruction FeesStep	644 PPA 300 1145 HB =
	Name Applicant StepExit Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEx Funding BeforeStepExit Instructions BeforeStepExit Fees StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5 6 0	111118 3 633 0 800 2176 6 0	28 3 633 0 800 247 6 0	11 1 1 1 1 2 1 1 1	false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6 0	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve obpui_serve	Applicant BasicStep Financial StructureS FundingS Instruction FeesStep FundingS	HL HL So So So So So
	Name Applicant StepExit Basic BeforeStepExity Basic BeforeStepExit FinancaliProfile TrainFint StructureSolution StepEy Funding BeforeStepExit Instructions BeforeStepEy Fees StepEntry Funding StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN	OR097 OR097 OR097 OR097	1057.54545 3 633 0 800 1211.5 6 0 272	111118 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 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	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	Applicant BasicStep BasicStep Financial Structures FundingS Instruction FeesStep FundingS Individua	HA HA Ph So So So So So So So So So So So So So

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

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

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

RACLE [®] Enterprise Manager Clou														
OBP_T04_VIEW 🚯														📃 mum(
OBP View V													Page Refres	hed Nov 4, 2017 11:1
Summary	Application Services Us	ser Interface	Origination U	User Interfac	e Integrati	ion Batch Me	onitoring							
Status	Show Cluster Details													
Current Status 🕇 Up							SERVER							
Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER													
Availability % 100.0%	/T04_UI_ofss31052	24_in_oracle	_com_ui_domai	in/ui_domair	/obpui_serve	er1								
	Export To Excel													
	Export To Excel	Channel	TaskC A	AvgTi	MaxTi	MinTime S	Succe	Alert	AlertU	Trend	Trend	Trans	Serve	Actual
		Channel		AvgTi 1057.54545			Succe	Alert	AlertU	Trend 33, 69, 28,	Trend DOWNWAR			Actual
	Name					28			AlertU				obpui_servi	
	Name Applicant StepExit	BRN		1057.54545	11118	26 3	11	false	AlertU	33, 69, 28,		Transaction	obpui_servi obpui_servi	ApplicantSt *
	Name Applicant StepExit Basic BeforeStepEntry	BRN BRN BRN	OR097	1057.54545 3	11118 3	26 3 633	11	false false	AlertU	33, 69, 28, 3		Transactior Transactior	obpui_servi obpui_servi obpui_servi	ApplicantSt
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit	BRN BRN BRN BRN	OR097 0 OR097 0	1057.54545 3 833	11118 3 633	28 3 633 0	11 1 1	false false false	AlertU	33, 69, 28, 3 633		Transactior Transactior Transactior	obpui_serv obpui_serv obpui_serv obpui_serv	ApplicantSt * BasicStepHi BasicStepHi
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin	BRN BRN BRN BRN BRN	OR097 (OR097 (OR097 (1057.54545 3 633 0	11118 3 633 0	28 3 633 0 800	11 1 1 1	false false false false	AlertU	33, 69, 28, 3 633 0	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepH BasicStepH FinancialPn
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE:	BRN BRN BRN BRN BRN BRN	OR097 0 OR097 0 OR097 0	1057.54545 3 633 0 800	11118 3 633 0 800	28 3 633 0 800 205	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_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt * BasicStepHi BasicStepHi FinancialPn StructureSo
	Name Applicant StepExit Basic BeforeStepExit Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN	OR097 (OR097 (OR097 (OR097 (OR097 ()	1057.54545 3 633 0 800 876	11118 3 633 0 800 2176	28 3 633 0 800 205 6	11 1 1 1 1 1 3	false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247,	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepExit Instructions BeforeStepE	BRN BRN BRN BRN BRN BRN BRN	OR097 0 OR097 0 OR097 0 OR097 0 0	1057.54545 3 633 0 800 876 6	11118 3 633 0 800 2176 6	28 3 3 633 6 800 6 205 6 0 6	11 1 1 1 1 3 1	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247, 6	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte InstructionsS
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepExit Instructions BeforeStepE Fees StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN	OR097 4 OR097 4 OR097 4 OR097 4 OR097 4 OR097 4	1057.54545 3 633 0 800 876 6 0	11118 3 633 0 800 2176 6 0	28 3 3 633 0 800 0 205 6 0 1 106 3	11 1 1 1 1 3 1 1 1	false false false false false false false false	AlertJ	33, 69, 28, 3 633 0 800 2176, 247, 6 0	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte InstructionsS FeesStepHa
	Name Applicant StepExit Basic BeforeStepEnty Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepE Fees StepEnty Funding StepEnty	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	OR097 0 OR097 0 OR097 0 OR097 1 OR097 1 OR097 1 OR097 1	1057.54545 3 833 0 800 876 6 0 233	11118 3 633 0 800 2176 6 0 438	28 3 3 633 0 800 0 205 6 0 106 1 47 3	11 1 1 1 1 3 1 1 3 3	false false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247, 6 0 438, 106, 1 144, 47	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepH BasicStepH FinancialPn StructureSo FundingSte InstructionsS FeesStepHa FundingSte

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

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

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

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

10.1.9.2.4 Integration

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

For cluster details, click the Show Cluster Details link.

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

DRACLE Enterprise Manager Clo	ud Control 13c						<u>E</u> nterprise	• • 0 1	argets 🔻	Eavorites •	(L) Histor	• 🗘 🔤	tup 🔻 🔍	SYSMA
OBP_T04_VIEW														📒 mum00bhd.
OBP View 🔻												1	Page Refreshed	Nov 4, 2017 11:19:42
▲ Summary	Application Services Us	ser Interface	Origination	User Interface	Integration	Batch M	onitoring							
Status	Show Cluster Details					_								
Current Status 🕇 Up							SERVER							
Up Since Nov 2, 2017 6:37 pm IST Availability % 100.0%	CLUSTER													
	Export To Excel													
	Name	Channel	TaskC	AvgTime	MaxTi	MinTime	Succe	Alert	AlertU	TrendR	TrendE			
			-	-				-	rucito					Actual
	CommonSecurityManage			9.11089448		0	6134	false	/ucrto	1, 2, 2, 1, 1		Transaction	obphost_se	CommonSe
	CommonSecurityManage CommonSecurityManage Generate Set Of Docume	BRN		9.11069448 0 5976.85714	0	0 0 4127	8134 0 14	-	rishika	1, 2, 2, 1, 1		Transaction Transaction		CommonSe CommonSe
	CommonSecurityManage	BRN BRN		0	0 10267	0	0	false		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0 5976.85714	0 10267	0 4127	0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonSe CommonSe Documaker

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

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

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

DRACLE' Enterprise Manager Cloud	d Control 13c						<u>Enterprise</u>	• 01	argets 🔻	🚖 <u>F</u> avorites 🔻	Histor	▼ \$ ≥	etup ▼ O	A S	SMAN 1
OBP_T04_VIEW														🗐 mum	00bhd.in.c
OBP View 🔻													Page Refreshed	Nov 4, 2017 11:	19:42 AM
▲ Summary	Application Services Us	ser Interface	Origination	User Interface	Integratio	n Batch M	onitoring							-	
Status	Show Cluster Details														
Current Status 🏦 Up							SERVER								
Up Since Nov 2, 2017 6:37 pm IST	V DOLUSTER														
Availability % 100.0%	/T04_HOST_ofss3	10519_in_o	racle_com_hos	st_domain/host	_domain/obp	host_server1									
	Export To Excel														
	Name	Channel	TaskC	AvgTime	MaxTi	MinTime	Succe	Alert	AlertU	TrendR	TrendE	Transa	Server	Actual	
	CommonSecurityManage	BRN		9.01911132	2580	0	6279	false		1, 1, 0, 30,	DOWNWAR	Transaction	obphost_se	CommonSe	
				0	0	0	0					Transaction	obphost_se	CommonSe	
	CommonSecurityManage	BRN		•											
	CommonSecurityManage Generate Set Of Docume			5976.85714		4127	14	true	rishika	4138, 7190	UPWARDS	Transaction	obphost_se	Documaker	
		BRN			10267	4127 10	14 7	true false	rishika	4138, 7190 23, 29, 39,			obphost_se		
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						

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

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

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

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

11 Configuration Export-Import Operations

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

11.1 Objective

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

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

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

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

11.2 Export

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

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

11.3 Import

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

11.4 Export All

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

Export Request

Export request xml is provided below:

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

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

Export Response

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

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

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

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

11.5 Import All

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

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

Import Request

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

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

Import Respose

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

11.6 Config Compare

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

such as it contains following information:

Present only in TO database (presently working environment)

Present only in FROM database (configurable DB environment)

Present in both, but data is different

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

11.7 Data Store Configuration

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

11.7.1 DB Data Store

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

1. In FLX_FW_CONFIG_ALL_B table, maintain DataSourceType=File

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

Note

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

11.7.2 File Data Store

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

1. In FLX_FW_CONFIG_ALL_B table, maintain DataSourceType=FILE.

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

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

Figure 11–1 File Data Store

2	/sc	ratcl	/app/j	orod	uct/f	mw/	user_	proje	ects/	/doma	ains/	host	_dom	ain/b	in/se	etDomainEnv.sh - OCH_HOST_10.180.5.23
I	, le			Ж	Ē	\times	(a)	l in	Ω.	<i>4</i> 4	pa A≯B	<u>ب</u>	•	•		;
	er	1.000		Tec		1.5	'l - «'		F.a. 1	io di	· /		at ah	/	/====	oduct/fmw/obpinstall/obp/Export Import"
le	-91.	rogr	rrors	100	onse)Tet	Iag)	- 0.	10.1	10.01	LT=/	SCL	auch	/ app	/pro	Sauce/Imw/Obbinstall/Obb/Export_Import

11.7.2.1 Configuration for Export

The configuration for export requires the following changes:

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

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

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

11.7.2.2 Configuration for Import

The configuration for import requires the following changes:

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

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

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

11.8 How to Export Records

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

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

11.8.1 Exporting Single Record

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

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

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

The request parameters to this service are:

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

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

Sample request and response are as follows:

Export Single Request

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

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

Export Single Response

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- <actiondtoepapp:alertTemplate>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- <subscriberactiondtoepapp:keyDTO>

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

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

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

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

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

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

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

11.8.2 Exporting All Records

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

The request parameters to this service are:

- SessionContext
- TaskCode

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

Sample request and response are as follows:

Export All Request

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

Export All Response

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

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

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

		à 68. Mi ^. ≩ ?		🔒 🔒 ष 🦷	D: 🕞 🕀		
· 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_contro	Jaca Item where cask_co	de- Pholi and con	iig_ver_no-		porc
Procedures							
Packages							
Package bodies							
Types							
Type bodies							
Triggers	(T)						
Java sources	🗄 - 🛞 +	- 🗸 🗟 🗄	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 11–2 Exported Data

Figure 11–3 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			

11.9 How to Import Records

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

11.9.1 Importing Single Record

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

11.9.1.1 Using API Client

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

The request parameters to this service are:

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

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

Sample request and response are as below:

Import All Request

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

Import All Response

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

```
<work:WorkContext
```

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

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

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

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

11.9.2 Importing All Records

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

The request parameters to this service are:

- TaskCode
- ConfigVersionNo

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

Sample request and response are as below:

Import All Request

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

Import All Response

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

```
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
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>
```

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

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

File Project Edit Sessio	on Debug Tools Ma	cro Documents Reports Window Hel	p					- 8
: 🖙 • 🖬 🛔 🖴	N 04 👗 🛙	6 🚯 🗛 🔩 🕘 - 🕞 - 🗋	3) 🕸 🕸 🖨 🖨	b b	" E			
- 🔿 / 💩 d	336	š ?						
	SQL Output S	atistics						
♦ – # 4 %								
bjects	select * fro	m flx ops config data item who	ere task code='PMO	11' and co	nfig ver no='104'	and operatio	n type='Export'	
Recent objects			-					
Recycle bin	select * fro	m flx_ops_config_data_item whe	ere task_code='PMO	11' and co	nfig_ver_no='104'	and operatio	n_type='Import'	
Functions								
Procedures								
Packages								
Package bodies								
Types								
Type bodies								
Triggers	-							
Java sources	🗄 - 🕀 +	- 🗸 🔻 🖉 🗛 🥖 🏫 🗸 4	🦽 🖬 🖀 🛍 -	•			-	
📄 Jobs	SERIAL	ED ENTITY CREATION DATE	OPERATION TYPE	STATUS	CONFIG_VER_N0	TASK CODE	EXCEPTION DESC	ID
								_
		04 0C 2012 11/21/54 AM	Import		104	DM011		
Queue tables	▶ 1 <blob></blob>	··· 04-06-2013 11:31:54 AM		success		PM011		
Queue tables Libraries	▶ 1 <8L0B> 2 <8L0B>	··· 04-06-2013 11:31:54 AM	Import	success		PM011	-	· 8a
Gueue tables Ubraries Directories	1 <8LOB>2 <8LOB>3 <8LOB>	··· 04-06-2013 11:31:54 AM · ··· 04-06-2013 11:31:54 AM ·	Import Import	success success	··· 104 ··· 104	PM011 PM011		8a
Queue tables Libraries Directories Tables	 ▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 	 04-06-2013 11:31:54 AM 04-06-2013 11:31:54 AM 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 PM011	-	8a. 8a. 8a.
Queue tables Libraries Directories Tables Views	▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B>	 04-06-2013 11:31:54 AM 	Import Import Import	success success	··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011 PM011		8a 8a 8a 8a
Queue tables Ubraries Directories Tables Views Materialized views	 ▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 	 04-06-2013 11:31:54 AM 04-06-2013 11:31:54 AM 04-06-2013 11:31:54 AM 04-06-2013 11:31:54 AM 	Import Import Import Import	success success success	··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011		8a 8a 8a 8a
Queue tables Libraries Directories Tables Views Materialized views Sequences	▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B>	 04-06-2013 11:31:54 AM 	Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011		8a 8a 8a 8a 8a
Queue tables Libraries Directories Tables Views Materialized views Sequences Users	 ▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B> 6 <8L0B> 	 04-06-2013 11:31:54 AM 	Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011		8a 8a 8a 8a 8a 8a 8a
Queue tables Libraties Directories Tables Views Materialized views Sequences Users Profiles	▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B> 6 <8L0B> 7 <8L0B>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:54 AM	Import Import Import Import Import Import	SUCCESS SUCCES	··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011 PM011 PM011 PM011		8a 8a 8a 8a 8a 8a 8a
Queue tables Libraties Directories Tables Views Materialized views Sequences Users Profiles Roles	 ▶ 1 <8LOB> 2 <8LOB> 3 <8LOB> 	 04-06-2013 11:31:54 AM 	Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Ubrates Directories Tables Vervis Materialized views Sequences Profiles Roles Synonyms	 ▶ 1 <8L08> 2 <8L08> 3 <8L08> 4 <8L08> 5 <8L08> 6 <8L08> 7 <8L08> 8 <8L08> 9 <8L08> 10 <8L08> 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:54 AM	Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Libraise Directories Tables Vens Sequences Usen Profiles Roles Synonyms Diabasee links	 ▶ 1 <8LOB> 2 <8LOB> 3 <8LOB> 4 <8LOB> 6 <8LOB> 6 <8LOB> 7 <8LOB> 8 <8LOB> 9 <8LOB> 10 <8LOB> 11 <8LOB> 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Oueue tables Libraise Directories Tables Vews Sequences Uses Profiles Roles Synoryms Database linka	 1 (8L0B) 2 (8L0B) 3 (8L0B) 4 (8L0B) 5 (8L0B) 6 (8L0B) 7 (8L0B) 8 (8L0B) 9 (8L0B) 10 (8L0B) 11 (8L0B) 11 (8L0B) 12 (8L0B) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM - 04-06-2013 11:31:55 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		883 883 883 883 883 883 883 883 883 883
Queue tables Librates Detectories Tables Vews Sequences Uers Profiles Roles Synoryms Database linka	 1 (8L0B) 2 (8L0B) 3 (8L0B) 4 (8L0B) 5 (8L0B) 6 (8L0B) 7 (8L0B) 8 (8L0B) 9 (8L0B) 10 (8L0B) 11 (8L0B) 12 (8L0B) 13 (8L0B) 	- 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	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Librates Detectories Tables Vews Sequences Uers Profiles Roles Synoryms Database linka	 1 (8L08) 2 (8L08) 3 (8L08) 4 (8L08) 5 (8L08) 6 (8L08) 7 (8L08) 8 (8L08) 9 (8L08) 10 (8L08) 10 (8L08) 11 (8L08) 12 (8L08) 13 (8L08) 14 (8L08) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Oueue tables Libraise Directories Tables Vews Sequences Uses Profiles Roles Synoryms Database linka	 1 (8L0B) 2 (8L0B) 3 (8L0B) 4 (8L0B) 5 (8L0B) 6 (8L0B) 7 (8L0B) 8 (8L0B) 9 (8L0B) 10 (8L0B) 11 (8L0B) 12 (8L0B) 13 (8L0B) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Librates Detectories Tables Vews Sequences Uers Profiles Roles Synoryms Database linka	 1 (8L08) 2 (8L08) 3 (8L08) 4 (8L08) 5 (8L08) 6 (8L08) 7 (8L08) 8 (8L08) 9 (8L08) 10 (8L08) 10 (8L08) 11 (8L08) 12 (8L08) 13 (8L08) 14 (8L08) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Librates Detectories Tables Vews Sequences Uers Profiles Roles Synoryms Database linka	 1 (8L08) 2 (8L08) 3 (8L08) 4 (8L08) 5 (8L08) 6 (8L08) 7 (8L08) 8 (8L08) 9 (8L08) 10 (8L08) 10 (8L08) 11 (8L08) 12 (8L08) 13 (8L08) 14 (8L08) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Librates Dectories Tables Vews Materialized views Sequences Profiles Roles Synoryms Database linka	 1 (8L08) 2 (8L08) 3 (8L08) 4 (8L08) 5 (8L08) 6 (8L08) 7 (8L08) 8 (8L08) 9 (8L08) 10 (8L08) 10 (8L08) 11 (8L08) 12 (8L08) 13 (8L08) 14 (8L08) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queues Queue tables Ubraries Ubraries Ubraries Vervs Vervs Materialized views Sequences Usen Profiles Sinoryms Database links Tablespoces Quiters	 1 (8L08) 2 (8L08) 3 (8L08) 4 (8L08) 5 (8L08) 6 (8L08) 7 (8L08) 8 (8L08) 9 (8L08) 10 (8L08) 10 (8L08) 11 (8L08) 12 (8L08) 13 (8L08) 14 (8L08) 	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3

11.10 Configuration Comparison

This section describes the details of configuration comparison.

11.10.1 Compare Business Configuration (Fast Path: OPA005)

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

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

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

• Present in both, but data is different.

11.10.2 Usage

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

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

Figure 11–5 Entity Comparison

ompare Bus	iness Configurat	ions			
				🗎 Print 🗸 Ok 🖌 Clear	🛛 E
		No d	ata to display	10	
_				10	
View View	port To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
	PM008	PM008 - Dorma			
	PLS003	PLS003 - Produ			
	PLS003 PLS002	PLS003 - Produ PLS002 - Produ			
)					
	PLS002	PLS002 - Produ			
)))	PLS002 PLS001	PLS002 - Produ PLS001 - GAAP			
	PLS002 PLS001 PM002	PLS002 - Produ PLS001 - GAAP PM002 - Define			

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

Figure 11–6 Entity Comparison Results

				🚔 Print 🗸 Oli 🅜 Clear 🛽	Exi
_		1			
2			1		
View 🗸 📕	Export To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
0	COR17	COR17 - State Code Summary	25		
	PM008	PM008 - Dormancy Rule Configuration			
	PLS003	PLS003 - Product Ledger - Branch Parameters			
	PLS002	PLS002 - Product Ledger - Bank Parameters			
	PLS001	PLS001 - GAAP Code Definition			
	PM002	PM002 - Define CASA Bank Policy			
	CNM09	CNM09 - Layout Resolution Policy			
	ACCT010	ACCT010 - Warning Indicators			
	PM034	PM034 - Product Group Role Mapping			
1	PM037	PM037 - Domain Category Accounting Entry Template			
	PM032	PM032 - Product Group Accounting Entry Template			
	PM025	PM025 - Link offers for Principal Offset Facility			

Progress bar denoting that the compare operation has finished.

Figure 11–7 Progress Bar

	ness Configurat				
			Ca.		Print 🗸 OK 🖌 Clear 🛛
			3		
			3		
0				4.0	
View - Ex	port To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
√	PM008	PM008 - Dorma	16.67		
4	PLS003	PLS003 - Produ	100		
1	PLS002	PLS002 - Produ	100		
	PLS001	PLS001 - GAAP			
•					
	PM002	PM002 - Define			
•	PM002 CNM09	PM002 - Define CNM09 - Layou			

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

Figure 11–8 Comparison Details

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

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

Figure 11–9 Attributes Difference

EARKing PLATE Posting Date 15-Mar-2017				Comparison Details X				i 🗸 💥 🎄 🛊 🗸 OFSSUser 🔻			
M7.		Account ¥ Back Office ¥ CASA	⊿ Comp	arison Result Keys			n 🕶	Party 🔻	Payment And Collection 👻	Term Deposit 👻 Fast Path	
OPA005			View -	View 🔻 📄 Detach							
OPA <u>0</u> 05	×		Entity Key	То	From						
Compare Busi	iness Configura	tions	ACT#AU	ACT#AU	ACT#AU						
			NT#AU	NT#AU	NT#AU					🚔 Print 🗸 🕼 🥔 Clear 💼 Exi	
			TAS#AU	TAS#AU	TAS#AU						
		1	QLD#AU	QLD#AU	QLD#AU						
		1	SA#AU	SAWAU	SA#AU						
0			WA#AU	WA#AU	WA#AU						
View - E	port To Excel										
Select	Task Code	Task Description									
COR17 COR		COR17 - State Code Summary 2			Field Key L	ist					
	PM008 PM008 - Dormancy Rule Configuration		.∡ Comparison Results								
	PLS003	PLS003 - Product Ledger - Branch Parameters	View								
PLS002 PLS002 - Product Ledger - Bank Parameters		PLS002 - Product Ledger - Bank Parameters	Label Valu	е То	From	Field The Television Field					
•	PLS001	PLS001 - GAAP Code Definition	State Nam	e Australian Capital	Australian Capital Territ.	State.stateName					
	PM002	PM002 - Define CASA Bank Policy									
	CNM09	CNM09 - Layout Resolution Policy									
•	ACCT010	ACCT010 - Warning Indicators									
8	PM034	PM034 - Product Group Role Mapping									
	PM037	PM037 - Domain Category Accounting Entry Template									
	PM032	PM032 - Product Group Accounting Entry Template									
	PM025	PM025 - Link offers for Principal Offset Facility									

11.11 Application Configuration

This section describes the application configuration details.

11.11.1 Cache Configuration

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

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

Sample entries in Preferences.xml are as below:

Preferences.xml

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

Important parameters in preferences.xml are as follows:

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

12 Batch Shells in OBP

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

12.1 Batch Shells Description

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

Table 12-1	Batch Shell	Descriptions
------------	-------------	--------------

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
1	0	Reports Health Check	reports_chk_ shell	Reports Health Check	FW	This is dummy shell. It is used to check whether report framework is ready to process reports and to check if there is any issue on framework or not.
2	1	End of Day	ac_action_ relog_sh	Relog actions on holiday	AC	The actions are logged into the base tables (Module Specific). When there change in calendars, this shell rearranges the pickup dates for all the affected future actions, as per the new calendar dates.
3	1	End of Day	ac_bundle_ fee_shell	Bundle Fee Shell	BN	This shell charges the bundle period fees defined while originating CASA.
4	1	End of Day	bundle_ report_shell	Bundle Reports	BN	This shell generates the various bundle offer related reports.
5	1	End of Day	dd_auto_ statuschange	DDA Auto status change shell	DD	The shell marks the accounts whose last activity date is breached and can be either auto closed or identified for manual closure. Similarly based on last activity date, the account can be auto unclaimed or identified for unclaim that could be unclaimed after taking an operational decision.
6	1	End of Day	ins_quote_ exp_eod	Expire Quote EOD Shell	LM	This shell processes all the Insurance quote's quote status to Expired on quote expiry date.
7	1	End of Day	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE	This shell checks if each of the single entry batches are balanced, and if not it passes a suspense entry into the branch suspense GL under the same branch. It checks for the balancing Branch wise (Contingent/Real) or Period Code wise.
8	1	End of Day	pc_blr_remit_	Biller	PC	This shell does the consolidation biller amount settlement in EOD, for example,

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
			shell	Remittance Shell		selected settlement mode of biller like CASA or GL during biller setup.
9	1	End of Day	pc_value_ date_eod_sh	Value Date EOD Shell	PC	This shell moves the funds from unclear to clear balance, where float of instrument is getting over at EOD. This is the 1st shell that runs post cut off. Value Date Clearing shell is run for 0 Day float items. Hence, it becomes mandatory to run it with the current process date even though cut off has been run. This is taken care of by the Value Date Clearing Shell. As the float realization is derived based on branch dates, the date is always set to the working day of the branch.
10	1	End of Day	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell	PI	This shell handles de-activation of Service Orders based on Service Order end date. (US localization specific shell)
11	1	End of Day	py_bank_val_ date_eod	Bank Value Date EOD Shell	PY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Bank Value Date for any valid transaction posted successfully in Payments module. The respective account module will update the Bank Float Balance bucket for the respective accounts on this date which is taken further for interest calculations. The funds are still not available for the customer.
12	1	End of Day	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell	PY	This shell will pick the valid transactions posted in Payments module and generate the schedule of fund availability for the respective account (Reg CC capable CASA accounts only) as per the rules defined in the system for Reg CC. (US localization specific shell)
13	1	End of Day	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell	PY	This shell will process only the accounts which follow the RegCC contract in the US localization. This shell will make funds available to the customer as per the generated schedule from "Reg CC Schedule Generation EOD Shell". (US localization specific shell)
14	1	End of Day	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	This shell rearranges instruction pickup dates after calendar change for SI and sweep outs.
15	1	End of Day	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	This shell performs the following activities:1. Moves the Journal Entries (Single and Multi) details into history.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						2. Flushes the Batch codes table (Single and Multi).
						 Drops the Sequences related to the above batch codes which are used to generate the Journal Entry Reference numbers.
16	1	End of Day	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	This shell updates the GL balance of all the online transactions in the day. If the GL balance is updated using MDB, then there is contention for huge number of entries and hence batch shell to update the GL balance ap_as_gl_bal_update_on
17	1	End of Day	pc_report_ shell	PC Reports	PC	This shell generates Payments and Clearing Reports.
18	1	End of Day	py_cust_val_ date_eod	Customer Value Date EOD Shell	PY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Customer Value Date for any valid transaction posted successfully in Payments module. The respective account module will make the funds available for the customer on this date. This will process the transactions in EOD.
19	1	End of Day	eod_preval	EOD pre validation Shell	DD	Reprice Failed Accounts Verify. The shell is to cross check if there are still pending accounts, for which repricing was failed. EOD will not start if there are such pending accounts.
20	1	End of Day	pr_price_ changes_eod	Price change action log shell for account opened today	PR	This shell identifies the accounts (which are opened today) eligible for rate and fee changes and logs action for further processing in pr_reprice_acn_eod shell.
21	1	End of Day	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	This shell processes accounts (which are opened today) for interest or fee changes happened in the system.
22	1	End of Day	dd_si_eod	DDA Standing Instruction EOD Shell	DD	This shell executes all Standing Instructions that need to be executed for the day, based on holiday processing parameter.
23	1	End of Day	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are executed. This is executed in EOD based on customers preference.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
24	1	End of Day	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction EOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 above to avoid conflicts among accounts.
25	1	End of Day	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	This shell removes the sweep hold marked during the day.
26	1	End of Day	In_contri_ eod_shell	Loan Contribution EOD Shell	LN	This shell processes customer's Contribution Instruction set at time of Origination.
27	1	End of Day	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell	AC	Thi shell execute settlement pay out instructions that are maintained on CASA & Loan Accounts
28	1	End of Day	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	During sweep in process, when CASA is short of funds, funds will be taken from TD as provider account by marking lien to TD account. If CASA is not funded before EOD processing, system will remove the lien from TD account and debit TD account.
29	1	End of Day	In_split_eod_ shell	Split Loan Account Opening EOD Shell	LN	Split Loan Account Opening and Disbursement request execution
30	1	End of Day	td_eod_ action	Term Deposit EOD Shell	TD	 This shell logs the following actions: Lien Expiry - mark lien as inactive during EOD process. Back dated Interest computation - For Contract Modification OR Backdated rate Change. Balance Change - Balance change (at time of contact modification) due to Contract Modification, Part Redemption.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						 Interest Capitalization - Interest capitalization to TD.
						 TD statement generation - Generates TD statements.
						 Account Closure - Close the TD account due for that day.
						This shell performs the following actions:
						Interest Charging
						Interest Compounding
		End of Day		Loans Action Due EOD Shell	LN	■ Interest Cap
31	1		In_actn_eod_ shell			■ Fee Cap
						 Customer Initiated Rollover
						 Auto Disbursement
						 Repayment Review (Apply and Generate) also called as periodic reschedule
32	1	End of Day	td_eod_ report_shell	TD EOD Reports	TD	This shell generates TD related reports in EOD.
33	1	End of Day	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell	LN	When a backdated index change is done and as part of the processing in EOD, it fails due to a proper business reason (funds not there or beyond redraw) as part of the replay process, the backdated rate change is skipped. Subsequently, when a payment happens on the account action for retrying the backdated rate change is logged on the account which gets picked up in Loan Post Action Due EOD Shell. It will get picked up if the action date happens to be a holiday.
34	1	End of Day	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	All periodic fees that applicable to CASA will be applied in EOD. For example, account keeping fees or debit card annual fees. Once SI is complete, the charges that need to be levied are available and this is then executed for all accounts, based on holiday processing parameter.
35	1	End of Day	In_report_ shell	Loan Reports	LN	Loan Related Reports
36	1	End of Day	dd_rev_swp_	Processing of	DD	This shell reverses any extra funds available in CASA account which is fetched

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
			eod	Reverse Sweep		during online sweep-in.
37	1	End of Day	ins_eod_ action	Insurance EOD Shell	LM	This shell is used for insurance expiry alerts. Customer gets the notification about expired insurances.
						Amortization of fees - Guided by holiday processing logic This shell runs actions of non-alternate and non-OD accounts and actions, except interest related, for non-alternate OD and non-OD accounts with alternate account. All transactions on alternate account are done before their EOD actions are performed. Interest related actions on OD accounts are performed in a separate shell as proportionate OD calculations are done after balance freeze (Proportionate OD calculation logic needs to be specified/doc linked). Following actions are performed as per holiday processing parameter:
		End of Day	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	 Execute any applicable rate changes (batch based) for the account. Holiday treatment: Next Working Day
						 Based on the cheques under clearing if there are any advance under unclear funds that need update that function is executed. Holiday treatment: Next Working Day
38	1					 Computation of Minimum Average Balance. Holiday treatment: Next Working Day
						 Balance Change Action: After making adjustments for balances, system executes an interest computation action (Done in Interest Module). These snapshot balances are used to compute interest and also form the basis for the future audits and rebuild of balances when the back dated transactions are done. This is done only for accounts which are not OD.
						 Credit and Debit Interest Settlement - All cases where capitalization of interest needs to be executed, are picked up and processed. Interest adjustment for back dated transactions happen. It is run for non-OD accounts. Holiday treatment: obtained from IRD.
						 Product based events log for alerts and outbound documentation. Holiday treatment: Next Working Day

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						 Statement generation. Holiday treatment: Next Working Day
						 All status checks and updates are done such as inactivity, unclaimed, dormancy. Holiday treatment: Next Working Day
						 Reward Credit action is performed. Holiday treatment: Next Working Day
						 Offset linkage/expiry action is performed for both offset account and alternate account. Holiday treatment: Next Working Day
39	1	End of Day	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	This shell is run for all actions of accounts which are alternates and all actions except interest related actions for accounts which are alternate with OD facility. It will run the same set of actions as the shell above, based on holiday processing parameter.
40	1	End of Day	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	This shell does Proportionate OD calculation and Offset balances calculation.
41	1	End of Day	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	 This shell is run for interest related actions of alternate accounts which are OD. Following actions are performed based on holiday processing parameter: Proportionate OD action: Calculation and stamping of proportionate OD and OL utilization. This action is done on any balance change on accounts which share the same facility. Offset interest benefit: calculation of total offset balance for a beneficiary account. This action will be done on balance change on any of the offset accounts. Intimate interest for computation: After the above two actions are executed, interest will be intimated for computation. Credit and Debit Interest Settlement: All cases where capitalization of interest needs to be executed are picked up and processed. Interest adjustment for back dated transactions happens. This is run for accounts which are OD.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						 Statement generation
42	1	End of Day	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	This shell is run for interest related actions for non-alternate accounts which have OD and for non-OD accounts that have alternate. It runs the set of actions as the above shell, based on holiday processing parameter.
43	1	End of Day	lm_market_ reval	Market Revaluation Shell	LM	This shell revaluates the Collaterals as per current market values.
44	1	End of Day	lm_util_reval	Utilization Revaluation	LM	If the utilization of the credit facility is done in a currency which is not the same as its currency, then revaluation process will be triggered as part of the End of the Day process.
45	1	End of Day	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	This shell is used to form a group of lcm eod actions for processing in multi streams.
46	1	End of Day	lm_batch_ eod_shell	Limits And Collaterals Batch	LM	Credit Facility Review: Credit Facility can be subjected to review based on the parameters set during the creation of the facility. On the review date, the facility is submitted to the rule engine for processing. The rule ID is maintained as part of the facility category. On successful completion the next review date, facility conduct is updated on the credit facility. Credit Facility Earmarking Expiry: LCM system provides an option to block/earmark the credit facility for a certain amount. This amount will not contribute towards the available amount of the facility. On the start date, the amount has to be moved into the earmarked amount column which will ensure that the amount will not be utilized. A reinstatement of the earmarked amount is to be done on the earmark expiry date. Credit Facility Transfer Expiry: LCM system provides option of transfer of the available amount of the facility. The facility transfer is bound by a start and end date. On the facility transfer expiry date, the transfer amount needs to be reinstated to the facility. This is handled in the batch. Facility Amount Schedule Processing: System provides an option define the facility amount in schedules. The amount sored is the effective amount. On the start date, the effective amount. The amount will become the effective Limit of the facility. On the end date, the amount sored is the effective Limit of the facility. On the end date, the amount sored is the effective Limit of the facility. On the end date, the amount will be removed and the new limit amount will be calculated.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						Credit Facility Availment Expiry Date: The credit facility created is expected to be utilized within a particular date. For example, first drawdown of the loan has to be done before the Availment expiry date. In case it is not done, the facility will be made unavailable. Facility Expiry Date Processing: The facility being created can have an expiry date. On the expiry date of the facility, system is expected to make the facility unavailable for further utilization.
47	1	End of Day	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	This shell handles offset expiry actions.
48	1	End of Day	In_intrst_ comp_shell	Loan Interest Computation EOD Shell	LN	This shell does Interest Computation (balance change).
49	1	End of Day	In_stmt_log_ shell	Loan Statement logging Shell	LN	Statement Item generation based on frequency maintained at the product level Records from the last statement generation date to current date is copied to Statement Item. Statement Generation is not done in this shell. Data is copied from Loan Financial Statement to Statement Item.
50	1	End of Day	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	This shell maintains Track Bundle expiry.
51	1	End of Day	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	The shell calculates and credits interest, if eligible for offset saving accounts. Based on priority, if there are offset accounts whose balance is not used to offset loan or overdraft account, then the unused balance gets the credit interest.
52	1	End of Day	np_eod_acion	Asset Classification EOD action	NP	This shell processes all EOD actions of Asset Classification module using action framework.
53	1	End of Day	ch_eod_ report_shell	CASA EOD Reports	СН	This shell generates CASA related batch reports.
54	1	End of Day	np_account_ classify	Account Level Asset Classification	NP	This is the first and mandatory shell for asset classification which processes all the Loan, CASA, and OD accounts which are due for classification as per the current processing date. The process derives the expected classification code using the

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						rule setup on the product class. The rule is based on arrears information received from the module along with other information like limit expiry, TOD or overline. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the expected classification code is stamped and the process continues with the next account. In case of Automatic classification, the expected classification code and actual classification code will be stamped the same. Necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
55	1	End of Day	np_party_ classify	Party Level Asset Classification	NP	This shell runs immediately after account shell, if the asset classification applicability level is Party. This process first determines the worst classification of the party by comparing the expected code of all accounts under the party that have been classified today and actual code of the remaining accounts under the party. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the worst classification code will be stamped as the expected classification code of the party and the same will be propagated as the expected code of all accounts under the party, and the process continues with the next party. In case of Automatic classification, the worst classification code will be stamped as the expected classification code and actual classification code of the party. The same will be propagated as the expected classification code of all accounts under the party. For each account under the party, necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
56	1	End of Day	np_facility_ classify	Facility Level Asset Classification	NP	This shell runs immediately after account shell, if the asset classification applicability level is Facility. This process first determines the worst classification of the facility by comparing the expected code returned from the facility rule, the expected code of all accounts under the facility that have been classified today and actual code of the remaining accounts under the facility. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the worst classification code will be stamped as the expected classification code of the facility and the

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						same is propagated as the expected code of all accounts under the facility, and the process continues with the next facility. In case of Automatic classification, the worst classification code will be stamped as the expected classification code and actual classification code of the facility. The same is propagated as the expected classification code and actual classification code of all accounts under the facility. For each account under the facility, necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
57	1	End of Day	eod_report_ shell	EOD Reports	AL	This shell generates reports in EOD.
58	1	End of Day	as_eod_ check	Accounting Verification	AS	This shell ensures that the Accounting events raised for the day are processed and all the balances updated. It also verifies whether the system is balanced (Credits and Debits match) for certain criteria for all the accounting entries raised and also for the period balance update.
59	1	End of Day	eod_epilogue	EOD Epilogue	EO	This shell waits for all the reports to be generated and changes the Process date.
60	2	Beginning of Day	as_untank_ adjustment	Untanking Adjustment Posting	AS	The shell is used to process Untanking Adjustment entries during the batch.
61	2	Beginning of Day	ins_bod_ action	Insurance BOD Shell	LM	This shell is responsible for renewing the premium of CCI policy for next review period. If CCI is loan funded, then next review premium is charged on the nominated loan or OD account.
62	2	Beginning of Day	lz_pi_child_ exmpt_sh	Exemption code BOD shell	PI	The shell is used to automatically update the Identification Type to TFN and Identification value to NO TFN of a party (onboarded as child) when the party turns 17 years. (Australia localization specific shell)
63	2	Beginning of Day	pc_business_ transfr	Business Transfer Periodic Execution BOD Shell	PC	Business Transfer SI Execution Shell

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
64	2	Beginning of Day	pc_value_ date_shell	Value Date BOD Shell	PC	This shell moves the funds from unclear to clear balance, where float of instrument is getting over at BOD. Value Date Clearing shell in BOD is run for more than 0 day float items. Hence it becomes mandatory to run this with the current process date, even though cut off has been run. This is taken care of by the Value Date Clearing Shell. As the float realization will be derived based on branch dates, the date will be always set to the working day of the branch.
65	2	Beginning of Day	pi_srv_ord_ sta_bod	Service Order Activation BOD Shell	PI	This shell handles activation of Service Orders based on Service Order start date. (US localization specific shell)
66	2	Beginning of Day	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	ΡY	This shell processes records for outward collection transactions and intimate the respective modules (CASA/LOANS) on customer value date configured in the Bank Float Definition. This shell is effective only if the Bank Float Definition is configured to not wait for network settlement in case of non-unclear balance method treatment.
67	2	Beginning of Day	py_cust_val_ date_bod	Customer Value Date BOD Shell	PY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Customer Value Date for any valid transaction successfully posted in Payments module. The respective account module will make the funds available for the customer on this date. This will process the transactions in BOD.
68	2	Beginning of Day	py_regcc_ sch_rel_bod	Reg CC Schedule Release BOD Shell	ΡY	This shell will intimate the account module (Reg CC capable CASA accounts only) with fund value that has to be made available for the customer on this date as per the schedule generated in Reg CC Schedule Generation EOD Shell for the respective accounts. (US localization specific shell)
69	2	Beginning of Day	as_untank_ bod_shell	Accounting Un- tanking Shell	AS	This shell is used to un-tank the accounting entries during batch process. Online Transactions during EOD do not process accounting entries but are tanked. This shell processes accounting of the tanked records.
70	2	Beginning of Day	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	This shell is used to form a group of lcm bod actions for processing in multi streams.
71	2	Beginning of Day	pc_activ_ date_shell	Activation Date BOD Shell	PC	This shell takes the data of those transacation which are getting activated for processing for that day. For e.g- transcation like Outward collection, flat extended inward and outward clearing, future dated outgoing payments etc
72	2	Beginning of	lm_batch_	Limits Bod	LM	Same as Limits And Collaterals Batch shell in EOD Category

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
		Day	bod_shell	Batch		
						This shell logs the following actions:Maturity Processing - Maturity proceeds till yesterday will be credited to
		Desirations f		T. D		chosen settlement mode.
73	2	Beginning of Day	td_bod_ action	Term Deposit BOD Shell	TD	 Future dated Redemption - Process the future dated redemption request due for that day.
						 Interest Payout - Interest payout to settlement mode.
						 Unclaim Processing - Movement of Unclaim TD to Unclaim GL.
74	2	Beginning of Day	ln_post_ trans_bod	Loan Transaction BOD shell	LN	This shell processes all the transactions done after cutoff is run.
75	2	Beginning of Day	td_bod_ report_shell	TD BOD Reports	TD	This shell generates TD related reports in BOD.
76	2	Beginning of Day	In_contri_ bod_shell	Loan Contribution BOD Shell	LN	This shell processes customer's Contribution Instruction set at time of Origination.
						This shell runs in BOD before other CASA shells in BOD. It handles the following actions:
77	2	Beginning of Day	dd_bod_ action	Demand Deposit BOD	DD	 Earmark expiry. Holiday treatment: Next Working Day
		Day	action	Shell		 OD linkage action. Holiday treatment: Next Working Day
						 Offset account linkage action. Holiday treatment: Next Working Day
78	2	Beginning of Day	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell	DD	In case of OD, if facility is shared, the shell proportionates the utilized amount among all the stake holders.
79	2	Beginning of	dd_si_bod	DDA Standing	DD	This shell executes all Standing Instructions that need to be executed for the day -

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
		Day		Instruction BOD Shell		Based on holiday processing parameter
80	2	Beginning of Day	dd_swp_bod_ default	DDA Sweepout Instruction BOD Shell Default Level	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are executed. This is executed in BOD based on customer's preference.
81	2	Beginning of Day	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction BOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 and above to avoid conflicts among accounts.
82	2	Beginning of Day	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell	AC	This shell executes settlement pay out instructions that are maintained on CASA and Loan Accounts.
83	2	Beginning of Day	In_split_bod_ shell	Split Loan Account Opening BOD Shell	LN	Split Loan Account Opening and Disbursement request execution - Guided by holiday processing logic
84	2	Beginning of Day	In_actn_bod_ shell	Loan Action due BOD shell	LN	 This shell does the following actions: Interest Charging Interest Compounding Interest Cap Fee Cap Customer Initiated Rollover Auto Disbursement - Guided by holiday processing logic Repayment Review (Apply and Generate) also called as periodic reschedule - Guided by holiday processing logic

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						 Backdated PPF - These transactions will get processed as a part of host EOD.
						 Back dated installment - These transactions will get processed as a part of host EOD.
85	2	Beginning of Day	ln_actn_ post_bod_sh	Loan Post Action due BOD shell	LN	When a backdated index change is done and as part of the processing in EOD, it fails due to a proper business reason (funds not there or beyond redraw) as part of the replay process, the backdated rate change is skipped. Subsequently, when a payment happens on the account, action for retrying the backdated rate change is logged on the account which gets picked up in Loan Post Action Due BOD Shell.
86	2	Beginning of Day	ch_bod_ report_shell	CASA BOD Reports	СН	This shell generates CASA Reports in BOD.
87	2	Beginning of Day	bod_report_ shell	BOD Reports	AL	This shell generates reports.
88	2	Beginning of Day	bod_epilogue	BOD Epilogue	EO	This shell waits for all the reports to be generated.
89	2	Beginning of Day	br_open_ batch	Open Teller and Branch Batch Shell	BR	This batch job is for automation of opening of branch batches and non-cash teller batches for branches in current branch group.
90	3	Cut Off	br_batch_ closure	Teller Branch Batch Closure	BR	This batch job is for automation of closure of non-cash teller batches and branch batches for branches in current branch group.
91	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.)
92	10	Settlement Notification Processing	or_setl_notif_ rtv	Settlement Notification Retrieval	OR	This shell retrieves Settlement Workspace Notifications.
93	10	Settlement Notification Processing	or_setl_notif_ prc	Settlement Notification Processing	OR	This shell executed the Settlement Workspace Notifications.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
94	12	FSDF master data hand-off	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	This shell initializes the start time of CSA (Common staging area) data handoff time frame.
95	12	FSDF master data hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.
96	12	FSDF master data hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
97	13	FSDF EOD data hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.
98	13	FSDF EOD data hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
99	14	FSDF Txn data Hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.
100	14	FSDF Txn data Hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
101	15	Analytics Batch Data Hand-off	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	This shell initializes the start time of CSA (Common staging area) data handoff time frame.
102	15	Analytics Batch Data Hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.
103	15	Analytics Batch Data Hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
104	16	Internal System EOD	ac_actn_ ieod_shell	Account Action Internal EOD Shell	LN	This shell processes all Internal EOD actions of Account module using action framework.
105	16	Internal	interest_eod_	Interest Shell	IN	This shell does following activities:

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						 Interest Accrual Process: When interest accrual is done, system raises events for the current working day, even though the cut off has been executed. This is required to enable posting of transaction on the current date and not for the next working day. It looks up at the host date.
		System EOD	action			 Interest Capitalization: Based on holiday processing logic.
						 Interest Compounding: Based on holiday processing parameter.
						 Related tax events for any of the above functions, as configured, based on holiday processing parameter.
106	16	Internal System EOD	lending_acct_ stat	Lending Account Statistics Shell	AC	This shell is responsible for recording data required for reporting purposes of a Loan and LOC account. Delinquency, account status, arrears of an account are populated which is further extracted for reporting purposes.
107	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.
			as batch		AS	There are certain checks and validations that are done as part of the Accounting in the EOD framework. These checks ensure that the system has balanced accounting entries, correct ledger balances and system account balances. Some of the checks are listed below:
		Internal		Accounting batch		 Ensure that all the accounting events raised for the day are processed.
108	16	System EOD	verify	Verification Shell		 Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.
						 Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.
						 Ensure that period balances for ledger and system account are balanced.
109	16	Internal System EOD	pl_ledg_bal_ upd	Deferred Ledger Balance Update	AS	For all the events raised during the batch process, the ledger balances will not be updated near online (no messages will be put into the Balance queue for processing). The ledger balances for such events will be Deferred and the balance will be updated through a procedure in the Internal EOD and as part of BOD (last batch in BOD). This is done to ensure that there is no lock on the ledgers when the balance update happens. (Scenario: when most of the accounts are mapped to the

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						same product and hence update the same GL.)
110	16	Internal System EOD	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell	AS	This shell is used to adjust the system account balances if there are any change in the account, party and product attributes.
111	16	Internal System EOD	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	 Some of the checks that are done are listed below: Ensure that all the accounting events raised for the day are processed. Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances. Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise. Ensure that period balances for ledger and system account are balanced.
112	16	Internal System EOD	pl_reval_eod_ shell	Revaluation Shell	AS	Ledgers whose balances are maintained in the Foreign Currency will be revalued (if required) based on a specific Reval Rate. This is done when all the batch transactions are completed in the OBP system, since the current/closing balance of the ledgers are used for this purpose.
113	16	Internal System EOD	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	Same as per accounting verification.
114	16	Internal System EOD	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	It creates the system period FIN whenever applicable.
115	16	Internal System EOD	pl_finclose_ eod_shel	Financial Closure Shell	AS	When the financial cycle changes, the system has to calculate the Profit/Loss for the current financial year and has to post to the Profit/Loss ledgers maintained. This will include the zeroization of the Income/Expense Ledgers and posting the profit or loss to the Profit/Loss Accounts maintained. This operation is done on the system period code FIN. All the accounting entries created for this purpose are posted in the FIN period.
116	16	Internal	as_verify_	Accounting	AS	Same as per accounting verification

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
		System EOD	prerptglns	batch Pre Reporting Lines Verify Shell		
117	16	Internal System EOD	pl_rptglns_ eod_shell	ReportingLines Shell	AS	If the bank requires Central Bank and Head Office Reporting system obtains the rule code maintained for the ledger, derives the Reporting GL and creates balances for the Reporting ledger.
		Internal System EOD				There are certain checks and validations that are done as part of the Accounting in the EOD framework. These validations are to ensure that the system has balanced accounting entries, correct ledger balances and system account balances. Some of the checks are listed below:
			as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell		Ensure that all the accounting events raised for the day are processed.
118	16				AS	 Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.
						 Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.
						 Ensure that period balances for ledger and system account are balanced.
						All the checks are with respect to each account branch and not branch group.
119	16	Internal System EOD	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	This shell generates Ledger related reports in EOD.
120	16	Internal System EOD	pl_balance_ history	Periodic PL balance history	PL	This shell archives GL Period balances.
121	16	Internal System EOD	pl_period_ bod_shell	Balance Period Creation Shell	AS	If there is a period change, then the system moves the period balances of the last month to the current month. The opening balances are updated and the movements for the current period is set to 0. The period balance update and the working of this shell are tightly coupled.
122	16	Internal System EOD	int_eod_ report_shell	Internal EOD Reports	AL	This shell generates Reports during Internal system EOD.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
123	16	Internal System EOD	int_eod_ epilogue	Int EOD Epilogue	EO	This shell waits for all the reports to be generated.
124	18	Clearing	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC	This shell reprocesses Reject Items.
125	18	Clearing	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC	Honored Items Poller
126	18	Clearing	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	OC Return Shell
127	17	Sales Offer Handoff	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ	
128	17	Sales Offer Handoff	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.
129	17	Sales Offer Handoff	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
130	19	CMD Hand- off	cmd_ handoff_shell	CMD Hand-Off Shell	DI	This shell initiates ODI task for Datamart population for Credit Monitor Dashboard.
131	19	CMD Hand- off	cmd_ epilogue_ shell	CMD epilogue Shell	DI	This shell monitors and allows for restart of ODI task for Datamart population for Credit Monitor Dashboard.
132	23	Global Float	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC	Global Float Extension
133	24	CCM Scheduler	lm_ titlesearch_ shell	Collateral Title Search Report Fetch Shell	LM	
134	30	Scan Payment Queue	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC	Rejected Items Poller

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
		Process				
135	63	Business Transfer	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC	Business Collection Credit
136	63	Business Transfer	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC	Business Payment Debit
137	63	Business Transfer	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	Business Collection Debit
138	63	Business Transfer	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	Business Payment Credit
139	69	mdm_Publish	mdm_ publish_shell	mdm Publish	IN	 This shell publishes to OCH following status updates taken place during EOD: Account closures during batch execution Account opening during batch execution KYC updates during batch execution
140	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.
141	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.
142	101	Metro2 reporting data population	m2_date_ initialise	Metro2 Hand- Off Initialisation Shell	DI	This batch job is used to initiate shell to setup the date duration for metro2 data population.
143	101	Metro2 reporting data	m2_handoff_ shell	Metro2 Hand- Off Shell	DI	This batch job is used to send ODI request to ODI server for metro2 data population.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
		population				
144	101	Metro2 reporting data population	m2_epilogue_ shell	Metro2 epilogue Shell	DI	This batch job is used to monitor all the scenario execution status initiated during Metro2 Hand-Off Shell.
145	102	Analytics Result Upload	rslt_handoff_ shell	Analytics Result Upload Shell	DI	This shell initiates OFSAA LLFP result area data upload scenario execution.
146	102	Analytics Result Upload	rslt_epilogue_ shell	Analytics Result Upload Epilogue Shell	DI	This shell checks OFSAA LLFP result area data upload scenario execution status. If any error occurs, the scenario execution is restarted after resolve.
147	103	Debt cancelllation data population	debtcan_ initialise	Debtcan Hand- Off Initialisation Shell	DI	This batch job is used to initiate shell to setup the date duration for cancellation of debt (1099C) data population.
148	103	Debt cancelllation data population	debt_ handoff_shell	Debtcan Hand- Off Shell	DI	This batch job is used to send ODI request to ODI server for for cancellation of debt (1099C) data population.
149	103	Debt cancelllation data population	debt_ epilogue_ shell	Debtcan epilogue Shell	DI	This batch job is used to monitor all the scenario execution status initiated during Debtcan Hand-Off Shell.
150	117	Housekeeping	ac_arrear_ history	Arrear history shell.	AC	This shell moves the details from FLX_AC_ARREAR_DETAILS_B to FLX_AC_ ARREAR_DETAILS_H.
151	117	Housekeeping	ac_casa_ housekeeping	CASA housekeeping shell.	AC	This shell updates the account statistics by moving the details to history in last day of the month.
152	117	Housekeeping	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD	This shell executes the recurring alerts.
153	117	Housekeeping	acct_benefit_	Account	AC	This shell calculates amount benefited due to offset account.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
			shell	Benefit Shell		
154	117	Housekeeping	as_hist_log_ eod_shel	Accounting Transaction History Log Shell	AS	This shell archives accounting events and accounting entries into history table.
155	117	Housekeeping	ba_purge_ shell_proc	Procedure based Purge shell to be run during Housekeeping	DD	This procedure based shell purges data with desired retention policy at configured purge frequency. This shell works on purge configuration (seed data) that stores purge related configuration like when to purge, how much data to retain, at what frequency, any additional where clause if any, whether or not to move data to history table, etc.
156	117	Housekeeping	bd_ unclaimed_ shell	Bank Darft unclaimed shell	PC	The bank draft which has breached unclaimed period, is picked up and marked the instrument status as Unclaimed.
157	117	Housekeeping	da_event_h_ eod_shel	Accounting Event History Shell	AS	This shell archives accounting events and accounting entries into history table.
158	117	Housekeeping	dd_hsk_ actions	Processing of House Keeping shell	DD	This shell logs periodic alerts and maintain counters for CASA account.
159	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.
160	117	Housekeeping	lm_exp_ track_shell	Exposure Tracking Shell	LM	The exposures for the bank is tracked across the dimensions party and account. LCM tracks all the exposure of the transaction based on the facts that are created for the account and party. The exposure values are calculated and shown across each fact values. For example, the bank might require to track the exposure under different currency. The account fact is defined as the currency code and each transaction in the system will be tracked against the account currency and the exposures are calculated under each different currency.
161	117	Housekeeping	lm_insider_ exp	Insider Exposure Tracking Shell	LM	This shell calculates the exposure of an insider. This data will be used while creating/amending the facility to check the total exposure of an insider for breach calculation.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
162	117	Housekeeping	In_adv_alert_ shell	Loan Advance Alert Action BOD Shell	LN	This shell sends alerts based on Lead and Lag Days defined at product levels.
163	117	Housekeeping	move_drv_ table_data	Move driver table data to History table	DD	This shell moves Driver table data into History Table.
164	117	Housekeeping	np_prvsn_ updt_shell	Account Level Provision Update	NP	This shell is used for Account Level Provision Update.
165	117	Housekeeping	or_pr_apr_ exp_shell	Submission Pricing Approval EOD Expiry Shell	OR	This shell is use to mark status of Submission Level Pricing Approval as Expired.
166	117	Housekeeping	or_sub_exp_ shell	Submission EOD Expiry Shell	OR	This shell expires the submission IDs which have breached the defined submission period.
167	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.
168	117	Housekeeping	td_stmt_gen_ shell	TD Statement Generation Shell	TD	This shell generates TD statements.
169	117	Housekeeping	In_stmt_gen_ shell	Loan Statement Generation EOD Shell	LN	This shell generates all the loan account statements.
170	117	Housekeeping	In_stm_log_ shell_bod	Loan Statement logging Shell BOD	LN	This batch job is responsible for logging of non-financial statement entries in case of a rate value change on an account.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
171	117	Housekeeping	dd_stmt_ gen_shell	CASA Statement Generation Shell	DD	This shell generates CASA statements.
172	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.
173	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.
174	125	Adhoc Scheduler Online	as_online_ ledg_upd	Online Ledger Balance Update Shell	AS	This shell handles the Ledger balance posting of online accounting entries.
175	125	Adhoc Scheduler Online	dd_acct_ online	Adhoc action shell for CASA	DD	
176	125	Adhoc Scheduler Online	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD	
177	127	Human Task Action	wf_task_ resume_shell	Human Task Resume Shell	WF	
178	128	Party Export	pi_export_ handoff	Party Export Hand-Off Shell	DI	
179	128	Party Export	pi_export_ epilogue	Party Export Epilogue Shell	DI	
180	247	Reprice	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR	This shell identifies accounts and performs fee accrual.
181	247	Reprice	pr_price_ changes	Price change log online shell	PR	This shell identifies the accounts (which are not opened today) eligible for rate and fee changes and logs action for further processing in pr_reprice_action shell.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
182	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.
183	248	Payment outbound message online Shell	py_out_msg_ action	Payment outbound message online Shell	ΡY	
184	352	Account Reprocess	or_acc_ reprocess_sh	Account Reprocess Shell	OR	

12.2 Batch Shells Execution Sequence

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

Table 12–2 Shell Execution Sequence

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
1	0	Reports Health Check	Optional	1	reports_chk_ shell	Reports Health Check	FW		
2	1	End of Day	Mandatory	1	ac_action_ relog_sh	Relog actions on holiday	AC		
3	1	End of Day	Mandatory	1	ac_bundle_ fee_shell	Bundle Fee Shell	BN		
4	1	End of Day	Mandatory	1	bundle_ report_shell	Bundle Reports	BN		
5	1	End of Day	Mandatory	1	dd_auto_ statuschange	DDA Auto status change shell	DD		
6	1	End of Day	Mandatory	1	ins_quote_ exp_eod	Expire Quote EOD Shell	LM		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
7	1	End of Day	Mandatory	1	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE		
8	1	End of Day	Mandatory	1	pc_blr_remit_ shell	Biller Remittance Shell	PC		
9	1	End of Day	Mandatory	1	pc_value_ date_eod_sh	Value Date EOD Shell	PC		
10	1	End of Day	Mandatory	1	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell (US localization specific shell)	PI		
11	1	End of Day	Mandatory	1	py_bank_val_ date_eod	Bank Value Date EOD Shell	PY		
12	1	End of Day	Mandatory	1	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell (US localization specific shell)	ΡY		
13	1	End of Day	Mandatory	1	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell (US localization specific shell)	PY		
14	1	End of Day	Mandatory	2	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	ac_action_ relog_sh	Relog actions on holiday
15	1	End of Day	Mandatory	2	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell
16	1	End of Day	Mandatory	2	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
17	1	End of Day	Mandatory	2	pc_report_ shell	PC Reports	PC	pc_value_ date_eod_sh	Value Date EOD Shell
18	1	End of Day	Mandatory	2	py_cust_val_ date_eod	Customer Value Date EOD Shell	PY	py_bank_ val_date_eod	Bank Value Date EOD Shell
19	1	End of Day	Mandatory	3	eod_preval	EOD pre validation Shell	DD	pc_report_ shell	PC Reports
20	1	End of Day	Mandatory	4	pr_price_ changes_eod	Price change action log shell for account opened today	PR	eod_preval	EOD pre validation Shell
21	1	End of Day	Mandatory	5	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	pr_price_ changes_eod	Price change action log shell for account opened today
22	1	End of Day	Mandatory	6	dd_si_eod	DDA Standing Instruction EOD Shell	DD	ac_bundle_ fee_shell dd_auto_ statuschange pr_reprice_ acn_eod	Bundle Fee Shell DDA Auto status change shell Reprice Action shell for account opened today
23	1	End of Day	Mandatory	7	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	dd_si_eod	DDA Standing Instruction EOD Shell
24	1	End of Day	Mandatory	8	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell Non Default Level	DD	dd_swp_ eod_default	DDA Sweepout Instruction EOD Shell Default Level
25	1	End of Day	Mandatory	9	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	dd_swp_ eod_non_def	DDA Sweepout Instruction EOD Shell Non Default Level
26	1	End of Day	Mandatory	9	ln_contri_ eod_shell	Loan Contribution EOD Shell	LN	dd_swp_ eod_non_def	DDA Sweepout Instruction EOD Shell Non Default Level

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
27	1	End of Day	Mandatory	10	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell	AC	In_contri_ eod_shell	Loan Contribution EOD Shell
28	1	End of Day	Mandatory	10	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	dd_swp_ hold_remove	SweepIn Hold Removal shell
29	1	End of Day	Mandatory	11	In_split_eod_ shell	Split Loan Account Opening EOD Shell	LN	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell
30	1	End of Day	Mandatory	11	td_eod_ action	Term Deposit EOD Shell	TD	td_remove_ swpin_lien	TD Remove Sweep In Shell
31	1	End of Day	Mandatory	12	In_actn_eod_ shell	Loans Action Due EOD Shell	LN	In_split_eod_ shell	Split Loan Account Opening EOD Shell
32	1	End of Day	Mandatory	12	td_eod_ report_shell	TD EOD Reports	TD	td_eod_ action	Term Deposit EOD Shell
33	1	End of Day	Mandatory	13	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell	LN	In_actn_eod_ shell	Loans Action Due EOD Shell
34	1	End of Day	Mandatory	14	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell
35	1	End of Day	Mandatory	14	In_report_ shell	Loan Reports	LN	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell
36	1	End of Day	Mandatory	15	dd_rev_swp_ eod	Processing of Reverse Sweep	DD	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell
37	1	End of Day	Mandatory	15	ins_eod_ action	Insurance EOD Shell	LM	In_report_ shell	Loan Reports
38	1	End of Day	Mandatory	16	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	dd_rev_swp_ eod	Processing of Reverse Sweep
39	1	End of Day	Mandatory	17	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
40	1	End of Day	Mandatory	18	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	dd_eod_ action2	Demand Deposit EOD Shell Alternate
41	1	End of Day	Mandatory	19	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell
42	1	End of Day	Mandatory	20	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD
43	1	End of Day	Mandatory	21	lm_market_ reval	Market Revaluation Shell	LM	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD
44	1	End of Day	Mandatory	22	lm_util_reval	Utilization Revaluation	LM	lm_market_ reval	Market Revaluation Shell
45	1	End of Day	Mandatory	23	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	lm_util_reval	Utilization Revaluation
46	1	End of Day	Mandatory	24	lm_batch_ eod_shell	Limits And Collaterals Batch	LM	lm_batch_p_ eod_shell	LCM EOD Pre Processor
47	1	End of Day	Mandatory	25	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	lm_batch_ eod_shell	Limits And Collaterals Batch
48	1	End of Day	Mandatory	26	In_intrst_ comp_shell	Loan Interest Computation EOD Shell	LN	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry
49	1	End of Day	Mandatory	26	In_stmt_log_ shell	Loan Statement logging Shell	LN	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry
50	1	End of Day	Mandatory	27	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	In_intrst_ comp_shell	Loan Interest Computation EOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
51	1	End of Day	Mandatory	27	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
52	1	End of Day	Mandatory	27	np_eod_acion	Asset Classification EOD action	NP	ln_intrst_ comp_shell	Loan Interest Computation EOD Shell
53	1	End of Day	Mandatory	28	ch_eod_ report_shell	CASA EOD Reports	СН	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell
54	1	End of Day	Mandatory	28	np_account_ classify	Account Level Asset Classification	NP	np_eod_ acion	Asset Classification EOD action
55	1	End of Day	Mandatory	29	np_party_ classify	Party Level Asset Classification	NP	np_account_ classify	Account Level Asset Classification
56	1	End of Day	Mandatory	30	np_facility_ classify	Facility Level Asset Classification	NP	np_party_ classify	Party Level Asset Classification
57	1	End of Day	Mandatory	31	eod_report_ shell	EOD Reports	AL	bundle_ report_shell ch_eod_ report_shell np_facility_ classify	Bundle Reports CASA EOD Reports Facility Level Asset Classification
58	1	End of Day	Mandatory	32	as_eod_ check	Accounting Verification	AS	eod_report_ shell td_eod_ report_shell ch_eod_ report_shell	EOD Reports TD EOD Reports CASA EOD Reports
59	1	End of Day	Mandatory	33	eod_epilogue	EOD Epilogue	EO	as_eod_ check	Accounting Verification
60	2	Beginning of Day	Mandatory	1	as_untank_ adjustment	Untanking Adjustment Posting	AS		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
61	2	Beginning of Day	Mandatory	1	ins_bod_ action	Insurance BOD Shell	LM		
62	2	Beginning of Day	Mandatory	1	lz_pi_child_ exmpt_sh	Exemption code BOD shell (Australia localization specific shell)	PI		
63	2	Beginning of Day	Mandatory	1	pc_business_ transfr	Business Transfer Periodic Execution BOD Shell	PC		
64	2	Beginning of Day	Mandatory	1	pc_value_ date_shell	Value Date BOD Shell	PC		
65	2	Beginning of Day	Mandatory	1	pi_srv_ord_ sta_bod	Service Order Activation BOD Shell (US localization specific shell)	PI		
66	2	Beginning of Day	Mandatory	1	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	PY		
67	2	Beginning of Day	Mandatory	1	py_cust_val_ date_bod	Customer Value Date BOD Shell	PY		
68	2	Beginning of Day	Mandatory	1	py_regcc_ sch_rel_bod	Reg CC Schedule Release BOD Shell (US localization specific shell)	PY		
69	2	Beginning of Day	Mandatory	2	as_untank_ bod_shell	Accounting Un-tanking Shell	AS	as_untank_ adjustment	Untanking Adjustment Posting
70	2	Beginning of Day	Mandatory	2	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	ins_bod_ action	Insurance BOD Shell
71	2	Beginning of Day	Mandatory	2	pc_activ_ date_shell	Activation Date BOD Shell	PC	pc_value_ date_shell	Value Date BOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
72	2	Beginning of Day	Mandatory	3	lm_batch_ bod_shell	Limits Bod Batch	LM	lm_batch_p_ bod_shell	LCM BOD Pre Processor
73	2	Beginning of Day	Mandatory	3	td_bod_ action	Term Deposit BOD Shell	TD	pc_activ_ date_shell	Activation Date BOD Shell
74	2	Beginning of Day	Mandatory	4	In_post_ trans_bod	Loan Transaction BOD shell	LN	td_bod_ action	Term Deposit BOD Shell
75	2	Beginning of Day	Mandatory	4	td_bod_ report_shell	TD BOD Reports	TD	td_bod_ action	Term Deposit BOD Shell
76	2	Beginning of Day	Mandatory	5	In_contri_ bod_shell	Loan Contribution BOD Shell	LN	In_post_ trans_bod	Loan Transaction BOD shell
77	2	Beginning of Day	Mandatory	6	dd_bod_ action	Demand Deposit BOD Shell	DD	ins_bod_ action Im_batch_ bod_shell In_contri_ bod_shell	Insurance BOD Shell Limits Bod Batch Loan Contribution BOD Shell
78	2	Beginning of Day	Mandatory	7	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell	DD	dd_bod_ action	Demand Deposit BOD Shell
79	2	Beginning of Day	Mandatory	8	dd_si_bod	DDA Standing Instruction BOD Shell	DD	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell
80	2	Beginning of Day	Mandatory	9	dd_swp_bod_ default	DDA Sweepout Instruction BOD Shell Default Level	DD	dd_si_bod	DDA Standing Instruction BOD Shell
81	2	Beginning of Day	Mandatory	10	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	dd_swp_ bod_default	DDA Sweepout Instruction BOD Shell Default Level
82	2	Beginning of Day	Mandatory	11	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell	AC	dd_swp_ bod_non_def	DDA Sweepout Instruction BOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
									Non Default Level
83	2	Beginning of Day	Mandatory	12	In_split_bod_ shell	Split Loan Account Opening BOD Shell	LN	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell
84	2	Beginning of Day	Mandatory	13	In_actn_bod_ shell	Loan Action due BOD shell	LN	In_split_bod_ shell	Split Loan Account Opening BOD Shell
85	2	Beginning of Day	Mandatory	14	ln_actn_ post_bod_sh	Loan Post Action due BOD shell	LN	In_actn_bod_ shell	Loan Action due BOD shell
86	2	Beginning of Day	Mandatory	15	ch_bod_ report_shell	CASA BOD Reports	СН	ln_actn_ post_bod_sh	Loan Post Action due BOD shell
87	2	Beginning of Day	Mandatory	16	bod_report_ shell	BOD Reports	AL	ch_bod_ report_shell	CASA BOD Reports
88	2	Beginning of Day	Mandatory	17	bod_epilogue	BOD Epilogue	EO	bod_report_ shell ln_actn_ post_bod_sh	BOD Reports Loan Post Action due BOD shell
89	2	Beginning of Day	Mandatory	18	br_open_ batch	Open Teller and Branch Batch Shell	BR		
90	3	Cut Off	Mandatory	1	br_batch_ closure	Teller Branch Batch Closure	BR		
91	3	Cut Off	Mandatory	2	co_cutoff_ prologue	Cutoff Prologue	со		
92	10	Settlement Notification Processing	Optional	1	or_setl_notif_ rtv	Settlement Notification Retrieval	OR		
93	10	Settlement Notification Processing	Optional	2	or_setl_notif_ prc	Settlement Notification Processing	OR	or_setl_notif_ rtv	Settlement Notification Retrieval
94	12	FSDF master	Optional	1	handoff_	Analytics Hand-Off	DI	co_cutoff_	Cutoff Prologue

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
		data hand-off			initialise	Initialisation Shell		prologue	
95	12	FSDF master data hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff_ initialise	Analytics Hand-Off Initialisation Shell
96	12	FSDF master data hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
97	13	FSDF EOD data hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
98	13	FSDF EOD data hand-off	Optional	2	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
99	14	FSDF Txn data Hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
100	14	FSDF Txn data Hand-off	Optional	2	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
101	15	Analytics Batch Data Hand-off	Optional	1	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI		
102	15	Analytics Batch Data Hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff_ initialise	Analytics Hand-Off Initialisation Shell
103	15	Analytics Batch Data Hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
104	16	Internal System EOD	Mandatory	1	ac_actn_ ieod_shell	Account Action Internal EOD Shell	LN		
105	16	Internal System EOD	Mandatory	1	interest_eod_ action	Interest Shell	IN		
106	16	Internal System EOD	Mandatory	1	lending_acct_ stat	Lending Account Statistics Shell	AC		
107	16	Internal System EOD	Mandatory	1	pi_eod_shell	Party EOD Shell	PI		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
108	16	Internal System EOD	Mandatory	2	as_batch_ verify	Accounting batch Verification Shell	AS	interest_eod_ action	Interest Shell
109	16	Internal System EOD	Mandatory	3	pl_ledg_bal_ upd	Deferred Ledger Balance Update	AS	as_batch_ verify	Accounting batch Verification Shell
110	16	Internal System EOD	Mandatory	4	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell	AS	pl_ledg_bal_ upd	Deferred Ledger Balance Update
111	16	Internal System EOD	Mandatory	5	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell
112	16	Internal System EOD	Mandatory	6	pl_reval_eod_ shell	Revaluation Shell	AS	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell
113	16	Internal System EOD	Mandatory	7	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	pl_reval_ eod_shell	Revaluation Shell
114	16	Internal System EOD	Mandatory	8	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell
115	16	Internal System EOD	Mandatory	9	pl_finclose_ eod_shel	Financial Closure Shell	AS	pl_fin_ period_shell	Balance FIN Period Creation Shell
116	16	Internal System EOD	Mandatory	10	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	pl_finclose_ eod_shel	Financial Closure Shell
117	16	Internal System EOD	Mandatory	11	pl_rptglns_ eod_shell	ReportingLines Shell	AS	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell
118	16	Internal System EOD	Mandatory	12	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell	AS	pl_rptglns_ eod_shell	ReportingLines Shell
119	16	Internal System EOD	Mandatory	13	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
120	16	Internal System EOD	Mandatory	14	pl_balance_ history	Periodic PL balance history	PL	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell
121	16	Internal System EOD	Mandatory	15	pl_period_ bod_shell	Balance Period Creation Shell	AS	pl_balance_ history	Periodic PL balance history
122	16	Internal System EOD	Mandatory	16	int_eod_ report_shell	Internal EOD Reports	AL	pl_period_ bod_shell	Balance Period Creation Shell
123	16	Internal System EOD	Mandatory	17	int_eod_ epilogue	Int EOD Epilogue	EO	int_eod_ report_shell	Internal EOD Reports
124	18	Clearing	Optional	1	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC		
125	18	Clearing	Optional	1	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC		
126	18	Clearing	Optional	2	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	pc_rej_ reproc_shell	Scan Reject Reprocess Shell
127	17	Sales Offer Handoff	Optional	1	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ		
128	17	Sales Offer Handoff	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	pm_sales_ offer_hoff	Sales Offer Handoff Shell
129	17	Sales Offer Handoff	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
130	19	CMD Hand-off	Optional	1	cmd_ handoff_shell	CMD Hand-Off Shell	DI		
131	19	CMD Hand-off	Optional	2	cmd_ epilogue_ shell	CMD epilogue Shell	DI	cmd_ handoff_shell	CMD Hand-Off Shell
132	23	Global Float	Optional	1	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
133	24	CCM Scheduler	Optional	1	lm_ titlesearch_ shell	Collateral Title Search Report Fetch Shell	LM		
134	30	Scan Payment Queue Process	Optional	1	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC		
135	63	Business Transfer	Optional	1	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC		
136	63	Business Transfer	Optional	1	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC		
137	63	Business Transfer	Optional	2	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	pc_b_colln_ cdt_shell	Business Collection Credit Shell
138	63	Business Transfer	Optional	2	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	pc_b_pymt_ dbt_shell	Business Payment Debit Shell
139	69	mdm_Publish	Optional	1	mdm_ publish_shell	mdm Publish	IN		
140	100	Health Check	Optional	1	health_chk_ shell	Health Checkup Shell	FW		
141	100	Health Check	Optional	1	excep_ pending_shell	Batch Exceptions Pending Check Shell	FW		
142	101	Metro2 reporting data population	Optional	1	m2_date_ initialise	Metro2 Hand-Off Initialisation Shell	DI		
143	101	Metro2 reporting data population	Optional	2	m2_handoff_ shell	Metro2 Hand-Off Shell	DI	m2_date_ initialise	Metro2 Hand-Off Initialisation Shell
144	101	Metro2 reporting data population	Optional	3	m2_epilogue_ shell	Metro2 epilogue Shell	DI	m2_handoff_ shell	Metro2 Hand-Off Shell
145	102	Analytics Result Upload	Optional	1	rslt_handoff_ shell	Analytics Result Upload Shell	DI		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
146	102	Analytics Result Upload	Optional	2	rslt_epilogue_ shell	Analytics Result Upload Epilogue Shell	DI	rslt_handoff_ shell	Analytics Result Upload Shell
147	103	Debt cancellation data population	Optional	1	debtcan_ initialise	Debtcan Hand-Off Initialisation Shell	DI		
148	103	Debt cancellation data population	Optional	2	debt_ handoff_shell	Debtcan Hand-Off Shell	DI	debtcan_ initialise	Debtcan Hand-Off Initialisation Shell
149	103	Debt cancellation data population	Optional	3	debt_ epilogue_ shelll	Debtcan epilogue Shell	DI	debt_ handoff_shell	Debtcan Hand-Off Shell
150	117	Housekeeping	Mandatory	1	ac_arrear_ history	Arrear history shell.	AC		
151	117	Housekeeping	Mandatory	1	ac_casa_ housekeeping	CASA housekeeping shell.	AC		
152	117	Housekeeping	Mandatory	1	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD		
153	117	Housekeeping	Mandatory	1	acct_benefit_ shell	Account Benefit Shell	AC		
154	117	Housekeeping	Mandatory	1	as_hist_log_ eod_shel	Accounting Transaction History Log Shell	AS		
155	117	Housekeeping	Mandatory	1	ba_purge_ shell_proc	Procedure based Purge shell to be run during Housekeeping	DD		
156	117	Housekeeping	Mandatory	1	bd_ unclaimed_ shell	Bank Darft unclaimed shell	PC		
157	117	Housekeeping	Mandatory	1	da_event_h_ eod_shel	Accounting Event History Shell	AS		
158	117	Housekeeping	Mandatory	1	dd_hsk_	Processing of House	DD		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
					actions	Keeping shell			
159	117	Housekeeping	Mandatory	1	lm_auto_ closur_shell	Facility Auto Closure Shell	LM		
160	117	Housekeeping	Mandatory	1	lm_exp_ track_shell	Exposure Tracking Shell	LM		
161	117	Housekeeping	Mandatory	1	lm_insider_ exp	Insider Exposure Tracking Shell	LM		
162	117	Housekeeping	Mandatory	1	In_adv_alert_ shell	Loan Advance Alert Action BOD Shell	LN		
163	117	Housekeeping	Mandatory	1	move_drv_ table_data	Move driver table data to History table	DD		
164	117	Housekeeping	Mandatory	1	np_prvsn_ updt_shell	Account Level Provision Update	NP		
165	117	Housekeeping	Mandatory	1	or_pr_apr_ exp_shell	Submission Pricing Approval EOD Expiry Shell	OR		
166	117	Housekeeping	Mandatory	1	or_sub_exp_ shell	Submission EOD Expiry Shell	OR		
167	117	Housekeeping	Mandatory	1	pi_bod_shell	Party BOD Shell	PI		
168	117	Housekeeping	Mandatory	1	td_stmt_gen_ shell	TD Statement Generation Shell	TD		
169	117	Housekeeping	Mandatory	2	In_stmt_gen_ shell	Loan Statement Generation EOD Shell	LN	td_stmt_ gen_shell	TD Statement Generation Shell
170	117	Housekeeping	Mandatory	3	In_stm_log_ shell_bod	Loan Statement logging Shell BOD	LN	In_stmt_gen_ shell	Loan Statement Generation EOD Shell
171	117	Housekeeping	Mandatory	4	dd_stmt_ gen_shell	CASA Statement Generation Shell	DD	ln_stm_log_ shell_bod	Loan Statement logging Shell BOD

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
172	117	Housekeeping	Mandatory	5	ac_pop_ domain_ind	Indexing for Transactional Search	AC	dd_stmt_ gen_shell	CASA Statement Generation Shell
173	120	Alert Generation	Optional	1	ep_ generation_ shell	Alert generation Shell	DI		
174	125	Adhoc Scheduler Online	Optional	1	as_online_ ledg_upd	Online Ledger Balance Update Shell	AS		
175	125	Adhoc Scheduler Online	Optional	1	dd_acct_ online	Adhoc action shell for CASA	DD		
176	125	Adhoc Scheduler Online	Optional	1	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD		
177	127	Human Task Action	Optional	1	wf_task_ resume_shell	Human Task Resume Shell	WF		
178	128	Party Export	Optional	1	pi_export_ handoff	Party Export Hand-Off Shell	DI		
179	128	Party Export	Optional	2	pi_export_ epilogue	Party Export Epilogue Shell	DI	pi_export_ handoff	Party Export Hand-Off Shell
180	247	Reprice	Default	1	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR		
181	247	Reprice	Default	1	pr_price_ changes	Price change log online shell	PR		
182	247	Reprice	Default	2	pr_reprice_ action	Reprice action online Shell	PR	pr_price_ changes	Price change log online shell
183	248	Payment outbound message online Shell	Optional	1	py_out_msg_ action	Payment outbound message online Shell	ΡY		
184	352	Account Reprocess	Optional	1	or_acc_ reprocess_sh	Account Reprocess Shell	OR		

13 Information Lifecycle Management (ILM)

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

Information Lifecycle Management is a set of techniques and technologies available from Oracle that assist in managing the lifecycle of data to support business needs and minimize storage costs. OBP drives ILM at the Oracle database level using database options and features to manage and move data as it evolves during its lifetime.

13.1 Configuration

The following values for the duration of data retention need to be determined. These values are used to drive ILM configuration.

Pattern Name	Partition Range Type	Data Retention in Active Tier	Data Retention in Less Active Tier	Data Retention in Historical Tier	Purge After
Lifecycle_ Pattern_1	MONTH	2 month	N/A	2 year	2 year
Lifecycle_ Pattern_2	MONTH	6 month	Will be provided by business	N/A	Will be provided by business
Lifecycle_ Pattern_3	YEAR	N/A	N/A	N/A	Will be provided by business
Lifecycle_ Pattern_4	YEAR	1 year	Will be provided by business		N/A
Lifecycle_ Pattern_5	YEAR	1 year	N/A	Will be provided by business	
Lifecycle_ Pattern_6	MONTH	1 month			1 month

Table 13–1 Values for ILM Configuration

13.2 Installation

This section explains the process of ILM installation.

13.2.1 Prepare Scripts

Operator needs to create partition creation script and ADO policy creation script manually based on data provided in ILM_Config.xlsx for each ILM qualified table and attached lifecycle pattern.

Parameters required for populating partition creation script are as follows:

- Table Name (OBP Tables Worksheet)
- ILM Column (OBP Tables Worksheet)
- Partition Range Type (Lifecycle Pattern Worksheet)

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

- Table Name (OBP Tables Worksheet)
- Lifecycle Definition (OBP Tables Worksheet)
- Data retention in different tier (Lifecycle Pattern Worksheet)
- Purging time (Lifecycle Pattern Worksheet)

The following sections describe the steps to be performed during the OBP database creation.

13.2.2 Create Tablespace

Separate tablespaces need to be created for the following tiers:

- Active tier
- Less Active tier
- Historical tier

The following command is to be used for creation of the above tiers:

CREATE TABLESPACE <tablespace_name> datafile <datafile_name> SIZE <allocated_ size> SEGMENT SPACE management auto extent management local autoallocate;

For example:

CREATE TABLESPACE less_active_data datafile '/oracleE2POC/data01/s2poc/less_ active_data01.dbf' SIZE 10m SEGMENT SPACE management auto extent management local autoallocate;

13.2.3 Create Partition Script

Partitioning script can be generated through partition script creation utility. For ILM qualified tables, the tables should always be partitioned based on range. Partition script can be generated based on Day, Month and Year. The following parameters need to be provided to the utility:

- Table Name
- ILM Column Name
- Schema Name (decided by DBA)
- Partition Interval (Default 1)
- Partition Type (DAY, MONTH and YEAR)
- Directory where partition script will be created (decided by DBA)

This utility can be run as follows:

- 1. Connect to OBP Database.
- 2. Run the following SQL statement:

DECLARE PI TABLE NAME VARCHAR2(200);

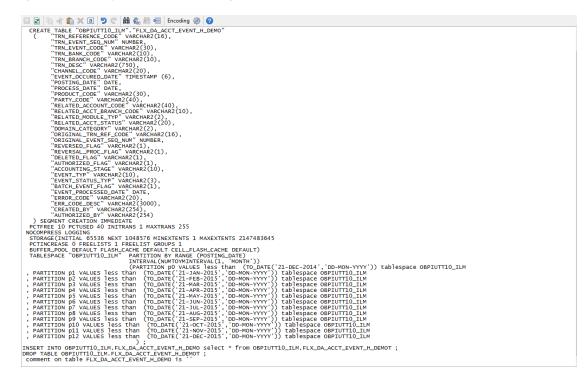
```
PARTITION COLUMN NAME VARCHAR2(200);
SRC SCHEMA NAME VARCHAR2(200);
PARTITION INTERVAL NUMBER;
PARTITION TYPE VARCHAR2(200);
DIRECTORY NAME VARCHAR2(200);
DURATION NUMBER;
DURATION TYPE VARCHAR2(200);
BEGIN
PI TABLE NAME := <ILM qualified table name>;
PARTITION COLUMN NAME := <ILM column name>;
SRC SCHEMA NAME := <Source schema name>;
PARTITION INTERVAL := <Duration>;
PARTITION TYPE :=< Partition type as DAY, MONTH or YEAR>;
DIRECTORY NAME := <Location where partition script will be
created>;
DURATION := 0;
DURATION TYPE := NULL;
AP OPA ILM CREATE PARTITION (
PI TABLE NAME => PI TABLE NAME,
PARTITION COLUMN NAME => PARTITION COLUMN NAME,
SRC SCHEMA NAME => SRC SCHEMA NAME,
PARTITION INTERVAL => PARTITION INTERVAL,
PARTITION TYPE => PARTITION TYPE,
DIRECTORY NAME => DIRECTORY NAME,
DURATION => DURATION,
DURATION TYPE => DURATION TYPE
);
--rollback;
END
```





3. After execution, the utility table creation script appears as shown in the below figure.

Figure 13–2 Utility Table Creation Script



13.2.4 Run Partition Script

The steps to run the partition script are as follows:

- 1. Download the newly created partition script from specified directory.
- 2. Verify created partition script before running.
- 3. Execute the script on OBP database as follows:
 - a. Connect to OBP Database.
 - b. Run partition creation script:

@ <Tablename>par.sql

For example:

@ /scratch/app/ILM_PARTITION_DIR/FLX_DA_ACCT_EVENT_H_DEMOpar.sql

13.2.5 Create and Register ADO Policies based on Lifecycle Pattern

Automatic Data Optimization (ADO) is used to create policies and automate actions based on those policies, for implementing the ILM strategy. The data is moved across storage tiers. The following script needs to be executed to create the ADO policies:

- 1. Connect to OBP Database.
- 2. Run ADO policy creation script:
 - @ <Tablename>ado.sql

For example:

@ /scratch/app/ILM_ADO_DIR/FLX_DA_ACCT_EVENT_H_DEMOado.sql

13.2.6 Verify Registered ADO Policies

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

Figure 13–3 Verify ADO Policies

Enterprise 🔻 🧿	Targets 👻 📩 Eav	vorites 🔻 🥝 Hist <u>o</u> ry 👻				Search Target Name	
NCONT65A	0					Logged in as 😽 🔒	mum00aro.in.oracle
Oracle Database	 Performance 	Availability 👻 Security	▼ Schema ▼ Administratio	•		Page Refreshed Dec 22, 20	15 5:25:10 AM GMT
formation Lif	ecycle Manag	ement					
Policy Summa		olicy Execution Sum	mary for Last 24 Hours	Top Table	cy Action		
Policies		Jobs		1	-		
Compression	0	Completed 0 Failed 0					
Storage							
Objects		Active 0					
With Policier	Enabled 12	Policies			Compression		
With Policies		Completed 0			Storage Tiering		
Evaluations	Disabled 0	Failed 0			Both		
		Objects					
Completed							
	Evaluate	Compressed 0 Moved 0			100.0%		
		Moved 0					
Automatic Data	a Optimization I	Policies					
60 Policy Details	6d Execution Hi	story 🖹 Execute Polic	:y				
Name	Action Type	Scope		atus			
P163	STORAGE	SEGMENT		nabled			
P167	STORAGE	SEGMENT		nabled			
P169 P162	STORAGE	SEGMENT		nabled nabled			
P 162 P 166	STORAGE	SEGMENT		nabled			
P100	STORAGE	SEGMENT		nabled			
P 165	STORAGE	SEGMENT		nabled			
P170	STORAGE	SEGMENT		nabled			
P161	STORAGE	SEGMENT		nabled			
P168	STORAGE	SEGMENT	1 E	nabled			
P164	STORAGE	SEGMENT	1 E	nabled			
P171	STORAGE	SEGMENT		nabled			

13.3 Policy Execution

ADO policies are required to be scheduled to execute automatically by configuring the database maintenance period. This can be determined during the implementation phase.

These ADO policies can be additionally executed manually with the following command:

```
declare
v_executionid number;
begin
dbms_ilm.execute_ilm (ilm_scope=>dbms_ilm.scope_schema,
execution_mode=>dbms_ilm.ilm_execution_offline,
task_id=>v_executionid);
end;
/
```

14 Transparent Data Encryption (TDE)

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

Transparent Data Encryption is a technology used to encrypt database files. This feature enables you to protect sensitive data in database columns stored in operating system files by encrypting it. Then, to prevent unauthorized decryption, it stores encryption keys in a security module external to the database.

14.1 Configuration

The following is the classification of information related to OBP. This information is used to drives TDE configuration.

Classification	Details	Access and Distribution	Action
Public	This information is not sensitive, and there is no value with it remaining confidential to Bank.	No restrictions	No Encryption
Confidential Internal	It is important that this information remains confidential to Bank.	May be accessed by and distributed to all support person. Distribution to third parties must be authorized by the information owner and requires that an appropriate confidential disclosure agreement be in place.	No Encryption
Confidential Restricted	It is very important that this information remains confidential to Bank and that access within bank is restricted on a need-to- know basis.	Internal access/distribution must be on a business need-to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during TDE
Confidential Highly Restricted	It is essential that this information remains confidential to Bank and that access within bank is restricted on a need-to- know basis.	Internal access/distribution must be very limited and is on a stringent business need-to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during TDE

Table 14–1 TDE Configuration

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

14.2 Installation

This section explains the installation process.

14.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create alter script to encrypt sensitive data. The utility tool (obpencryption.sh) is used to create this alter script for TDE. To run the tool, the following prerequisites are required.

Prerequisites

- Create a folder "obpencryption" where user wants to run the tool.
- Upload Sensitive_Data_List.xlsx, obp-encryption-script-gen.jar, obpencryption.sh, DB_ RESOURCEBUNDLE.properties. These files are available in maskingencryption.zip. The maskingencryption.zip is part of host.zip available in installer.
- Update database details in DB_RESOURCEBUNDLE.properties file before running the script.
- Update value "encryptLocation" variable with obp encryption path in obpencryption.sh at line 6.

For example: encryptLocation="/scratch/app/product/obpencryption"

Run Encryption Tool

 Create update scripts for all the tables containing sensitive data. Run obpencryption.sh with TDE and ENCRYPT.

For example: /obpencryption.sh TDE ENCRYPT

14.2.2 Create TDE Keystore

Perform these steps to create keystore which is required for encryption and decryption. Perform the following steps.

Create keystore location with mkdir -p <location>.

For example: mkdir -p /scratch/app/admin/TDE/encryption_keystore/

Log in to database with sysdba.

For example: sqlplus / as sysdba

- Run the following sql instruction:
 - ADMINISTER KEY MANAGEMENT CREATE KEYSTORE '{Keystore loaction}' IDENTIFIED BY {Password}

For example: SQL>ADMINISTER KEY MANAGEMENT CREATE KEYSTORE
'/scratch/app/admin/TDE/encryption_keystore/' IDENTIFIED BY
myPassword

 ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED BY welcome1 CONTAINER=ALL;

For example: SQL>ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED
BY welcome1 CONTAINER=ALL;

 ADMINISTER KEY MANAGEMENT CREATE KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER =all; For example: SQL>ADMINISTER KEY MANAGEMENT CREATE KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER =all;

 ADMINISTER KEY MANAGEMENT SET KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER=ALL

For example: SQL>ADMINISTER KEY MANAGEMENT SET KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER=ALL;

Check the encryption keys generated.

For example: SQL> SELECT con id, key id FROM v\$encryption keys;

Check the wallet status.

For example: SQL> SELECT * FROM v\$encryption_wallet;

14.2.3 Edit sqlnet.ora file

Perform this step to enter the TDE wallet location.

- Take a backup of sqlnet.ora file before update for TDE.
- Add entries of sqlnet.ora file as follows:

```
ENCRYPTION_WALLET_LOCATION =
(SOURCE =(METHOD = FILE)(METHOD_DATA =
(DIRECTORY = {Keystore location})
For example:ENCRYPTION_WALLET_LOCATION =
(SOURCE = (METHOD = FILE) (METHOD_DATA =
(DIRECTORY = /scratch/app/admin/TDE/encryption keystore/)
```

14.2.4 Run Created Alter Script

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

15 Masking Customer Private Data

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

15.1 Configuration

The following is the classification of information related to OBP. This information is used to drive TDE configuration.

Classification	Details	Access and Distribution	Action
Public	This information is not sensitive, and there is no value with it remaining confidential to Bank.	No restrictions	No Encryption
Confidential Internal	It is important that this information remains confidential to Bank.	May be accessed by and distributed to all support persons. Distribution to third parties must be authorized by the information owner and requires that an appropriate confidential disclosure agreement is in place.	No Encryption
Confidential Restricted	It is very important that this information remains confidential to Bank and that access within bank is restricted on a need-to-know basis.	Internal access/distribution must be on a business need- to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during masking Tables containing this type of data will be accessed through view for RO user. Synonym needs to be created for the tables and views containing this type of data for RO and ERO user.
Confidential Highly Restricted	It is essential that this information remain confidential to Bank and that access within bank is restricted on a need-to-know basis.	Internal access/distribution must be very limited and is on a stringent business need-to- know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during masking. Tables containing this type of data will be accessed through view for RO user. Synonym needs to be created for the tables and views containing this type of data for RO and ERO user.

Table 15–1 TDE Configuration

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

15.2 Installation

This section explains the installation process.

15.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create the following script for masking sensitive data.

- View creation script of the tables containing sensitive data and mask them for RO (Read only) user.
- Synonym creation script of created view of the containing sensitive data for RO (Read only) user.
- Synonym creation script of tables containing sensitive data for ERO (E Read only) user.

The utility tool (obpencryption.sh) is used to create above script. To run the tool, the following prerequisites are required.

Prerequisites

- Create a folder "obpencryption" where user wants to run the tool.
- Upload Sensitive_Data_List.xlsx, obp-encryption-script-gen.jar, obpencryption.sh, DB_ RESOURCEBUNDLE.properties. These files are available in maskingencryption.zip. The maskingencryption.zip is part of host.zip available in installer.
- Update database details in DB_RESOURCEBUNDLE.properties file before running the script.
- Update value "encryptLocation" variable with obp encryption path in obpencryption.sh at line 6.

For example: encryptLocation="/scratch/app/product/obpencryption"

Run Encryption Tool for View Creation script and mask data

 Create view creation scripts for all the tables containing sensitive data after mask. Run obpencryption.sh with MASK and VIEWCREATE as parameter.

For example: /obpencryption.sh MASK VIEWCREATE

Run Encryption Tool for Synonym Creation script for RO user

 Create synonym creation scripts for all the created containing sensitive data. Run obpencryption.sh with MASK and SYNONYMRO as parameter.

For example: /obpencryption.sh MASK SYNONYMRO

Run Encryption Tool for Synonym Creation script for ERO user

 Create synonym creation scripts for all the tables containing sensitive data. Run obpencryption.sh with MASK and SYNONYMEERO as parameter.

For example: /obpencryption.sh MASK SYNONYMERO

15.2.2 Create Schema for RO and ERO User

To create schema for RO and ERO user, execute the following steps.

- Create Read-Only (RO) and E Read-Only (ERO) user for accessing masked data from view and table.
- Grant for proper access.

15.2.3 Execute Created Scripts through Encryption Tool

Run all created scripts through the encryption tool for the following task.

- Mask sensitive data for RO user.
- Create view for tables contain sensitive data.
- Create synonym to access the view.
- Create synonym to access the table for ERO user.

To do the above tasks, perform the following steps.

- Get all view creation scripts from obpencryption /generatedScript/masking/viewforRO location and run after logging in to database.
- Get synonym creation script (MaskingSynonymForRO.sql) for RO user from obpencryption/generatedScript/masking/synonymForRO and run after logging in to database.
- Get synonym creation script (MaskingSynonymForERO.sql) for ERO user from obpencryption/generatedScript/masking/ synonymForERO and run after logging in to database.

16 Configure ODI for Inbound Document Upload

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

For document upload ODI execution, complete the following configurations:

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

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

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

Framework configuration:

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

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

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

3. Configure Temporary directory:

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

4. Configure Archive directory:

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

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

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

Figure 16–1 Credentials

ew 💌	🕂 Create Map 🔶 Create Key	🖍 Edit 🗙 Delete	Credential Key Name	Detach		
Creder	ntial				Туре	Descriptio
4 💼	oracle.obp.credmap					
	IPM_SERVICE				Password	
	<pre> OBP_USER </pre>				Password	
4 👝	oracle.odi.credmap					
	§ SUPERVISOR				Password	
	odi_domain				Password	

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

Figure 16–2 Example of premissions

Create Sy	vstem Grant		
	different types of system policies supported by application server: principal po ase can be either absolute path or relative path.	licy and codebase policy. Principal policy grants permissions and privileg	es to a list of users or roles. Codebase policy grants pe
Grant To	Codebase •		
* Codebase	file:/scratch/app/product/fmw/obp/obp.odi.domain/com.ofss.fc.document.upl	oad.ipm.jar	
Permissions			
View 🔻	🕂 Add 🖍 Edit 🗙 Delete 📰 Detach		
Permissi	ion Class	Resource Name	Permission Actions
java.secu	rity.AllPermission	read	read
4			

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

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

Figure 16–3 Connection details

Designer Topology ×		📀 Start Page 🛛 🔵 ORA	CLE_HOST ×			
62	<u> -</u>	Test Connection				
Physical Architecture OBP_FSDF OBP_OCH		Definition JDBC On Connect/Disconnect	JDBC Driver:	oracle.jdbc.OracleDriver jdbc:oracle:thin:@10.180.6.102:1521/PDB6102		_
		Datasources Version	JDBC URL:	Jupr: oracle: unit: @ 10, 100.0, 102: 1321/PD60102		
	-	Privileges Flexfields	Properties			-
Data Types			Key		Value	

17 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

17.1 SOA Related

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

17.1.1 Enable Auto Purge Job

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

Figure 17–1 Auto Purge

ORACLE Enterprise Manager Fusion Middleware Control 12c	😸 WebLogic Domain 🔻 🛛 weblogic 🔻 🚥
te soa-Infra e + soa Infrastructure *	Apr 19, 2018 7:52:11 PM GMT+05:30 👈
Auto Purge	
Purge jobs must be run regularly to free up the database from older data associated with flow instances, adapter reports, and fault alerts. It is strongly recommended to enable Auto Purge to ensure an optimal performance of your runtime environment.	
Auto Purge Job SOA Flow Purge Job 1	Apply
Schedule	
Enter a valid calendaring expression. 👔	
* Job Schedule freq-daily; byhour=0; bysecond=0	
Configuration	
* Purge Type SINGLE 🗸	
Retain Data 5 🔺 🗸 days	
Data within this interval ia NOT purged when the job runs	
Batch Size 20000 A V	
More Auto Purge Configuration Properties	

17.1.2 Enable Lazy Loading

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

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

Figure 17–2 Lazy Loading Settings

RACLE Enterprise Manager Fus	sion Middleware Co	ontrol 12	2c			KebLogic Domain 💌	weblogic =	* ·
🕇 soa-infra 👩							1	2
SOA Infrastructure 👻						Apr 19, 2018 7:57:07	PM GMT+0)5:30 🔦
stem MBean Browser								
🝸 oracle.as.soainfr 🗟	А	Applic	cation Defined MBean	s: SoaInfraConfig:soa-infra			Apply	Reve
Application Defined MBeans		🚹 Info	rmation					
a 📩 oracle.as.soainfra.config		The	changes made on this mbean	are not managed by the configuration session. The chang	es will be	applied immediately. You cannot undo the changes from the Change Center.		
A Server: soa_server1	1	Show	w MBean Information					
⊿ 🚡 SoainfraConfig ● soa-infra		Attribu	tes Operations Notifications	S				
		Name		Description	Access	Value		
		1	AuditConfig	Audit Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.managem	ent.openm.	1 '
		2	AuditLevel	Audit level. The possible values are Off, Production and Dev	RW	Production		
		3	AutodeployDir	The composite auto deployment directory.	RW			
		4	BulkRecoveryConfig	Configuration for bulk recovery of faults.	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management	ent.openm.	1
		5	CacheConfig	Cache 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.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeDataSupport(compositeDataSupport(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.compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.management.openmbean.compositeType=javax.pavax.management	ent.openm.	۱
		6	CallbackServerURL	This URL is sent by the server as part of the asynchronous $\ensuremath{c}\xspace$	RW			
		7	CompositeLazyDeployment	Flag to indicate whether SOA composites will be lazily loaded	RW	faise		~
		8	CompositeLazyLoading	Flag to indicate whether SOA composites will be lazily loaded	RW	true		~
		9	ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true		_
		10	CreateWSCallTrackingMBean	The flag that controls the creation of mbeans to track elapse	RW	false	-	~
		11	DatasourceJndi	The JNDI name for the server datasource. This datasource	RW	jdbc/SOALocalTxDataSource		

17.2 BPM Worklist Related

This section mentions certain recommendations on usage of BPM worklist.

17.2.1 Disable Claim Action from Task Details Page

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

Figure 17–3 Claim Action

ORACLE' BPM Worklist											
My Tas	ks(24) 🔻 🕂 🥖 💥	Actions 🔻 🛛 🛛	🔍 💌 Me & My Group All 🗸 Assigned 🗸 🔂 🗮 🖛								
Status	• title	Reassign									
Ē	Verify Application APP20	Escalate	mission SUB200620180014610								
	Structure Solution of Len	Suspend	80010612003 and Submission SUB200620180014610								
	Overview of Credit Decis	Start Task	0180014610								
8-	Offer Letter Acceptance	Claim	0010763001 and Submission SUB200620180014764								
8:	Overview of Credit Decis	Create To-Do Task	-0180014764								
8-	Structure Solution of Len	ang appreciation and 20002	- 80010761001 and Submission SUB200620180014758								

17.2.2 Always Open Human Task Details in External Window

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

Figure 17–4 Enable External Window option

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