

Oracle® Banking Enterprise Product Manufacturing

Installation Guide - Silent Installation

Release 2.7.0.0.0

F11754-01

November 2018

Oracle Banking Enterprise Product Manufacturing Installation Guide - Silent Installation, Release 2.7.0.0.0

F11754-01

Copyright © 2017, 2018, 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	16
Audience	16
Documentation Accessibility	16
Organization of the Guide	16
Related Documents	17
Conventions	18
1 Getting Started	20
1.1 About Oracle Banking Enterprise Product Manufacturing	20
1.2 About This Document	20
1.3 Assumptions	20
1.4 Limitations	21
1.5 Exclusions	21
2 Pre-Installation Configuration	22
2.1 Setup Prerequisites	22
2.1.1 Hardware Environment	22
2.1.2 Software Environment	22
2.1.2.1 Certification Details	22
2.2 Installation Process Overview	25
2.3 Installation Checklist	26
2.3.1 Updating installobp***.properties	27
2.3.2 Database and WebLogic Domain Configuration	61
2.4 OID Schema Setup – Custom OBEPM Schema	63
2.4.1 Prerequisite – OID setup	63
2.4.2 Verify the OID installation	63

2.4.2.1 Start and Verify the OID processes	63
2.4.2.2 OPSS/OID Performance Tuning	63
2.4.2.3 Import OBEPM Specific LDIF files	69
2.4.2.4 Verify the import using ODSM or JXplorer	71
3 Oracle Banking Enterprise Product Manufacturing SOA Media Pack Installation	74
3.1 Installation and Configuration Procedure	74
3.1.1 Preparatory Steps	74
3.1.2 Pre-Installation Steps	74
3.1.3 Installation Steps	75
3.2 Post Installation Configuration	80
4 Oracle Banking Enterprise Product Manufacturing Host Media Pack Installation	84
4.1 Installation and Configuration Procedure	84
4.1.1 Preparatory Steps	84
4.1.2 Pre-Installation Steps	84
4.1.3 Installation Steps	85
4.2 Post Installation Configuration	95
5 Oracle Banking Enterprise Product Manufacturing Presentation Media Pack Installation	102
5.1 Installation and Configuration Procedure	102
5.1.1 Preparatory Steps	102
5.1.2 Pre-Installation Steps	102
5.1.3 Installation Steps	103
5.2 Post Installation Configuration	110
6 Standalone Database Setup	118
6.1 Pre-Installation Steps	118

6.2 OBEPM Database Setup – RCU Installation	118
6.3 Oracle Banking Enterprise Product Manufacturing Database Installation	119
6.3.1 Host DB Schema Creation and Verification	119
6.3.2 HOST DB schema ddl execution	119
6.3.3 HOST DB Schema Seeding	120
6.3.4 System Configuration DB Update Script Execution	120
7 Oracle Banking Enterprise Product Manufacturing and IPM Integration	122
7.1 IPM Application Setup for OBEPM Content Management	122
7.1.1 UCM Connection	122
7.1.2 Main Application Configuration	129
7.1.2.1 Manage Application Configuration	129
7.1.2.2 Manage Searches	135
7.1.3 Temp Application Configuration	142
7.1.3.1 Manage Application Configuration	142
7.1.3.2 Manage Searches	148
7.2 IPM Configuration for Bulk Upload Process Setup	156
7.2.1 Prerequisites	156
7.2.2 Setting up the Connection Name	156
7.2.3 Setting up Input Agent Path	162
7.2.4 Create SOA Connection	164
7.2.5 Manage Workflow Configuration	169
7.2.6 Manage Inputs for Input Agents	176
7.2.7 Additional Steps	181
7.2.8 SSL Handshake Resolution	182
7.3 IPM Report Upload Setup	183
7.3.1 Prerequisites	183

7.3.2 Setting up the Connection Name	184
7.3.3 Setting up Input Agent Path	189
7.3.4 Create SOA Connection	191
7.3.5 Manage Application Configuration	196
7.3.6 Manage Inputs for Input Agents	205
7.3.7 Manage Searches	210
7.3.8 Additional Steps	217
8 ODI Configuration	220
8.1 Configuration Procedure	220
9 Monitoring Servers Using Oracle Enterprise Manager	222
10 Post Installation Verification	224
10.1 UI Domain Verification	224
10.2 Host Domain Verification	229
10.3 SOA Domain Verification	235
10.4 BPM Worklist Window Setting	238
11 Errors and Remedies	240
11.1 OBEPM Domain Installation	240
11.2 OBEPM Security Policy Seeding	240
11.3 OBEPM Domain Post Installation	240
11.4 Error on First Log in	241
11.5 Log in Issues	242
11.6 SOA Setup in Cluster	242
11.6.1 "COMPONENTTYPE": invalid identifier error	242
11.7 BPM Worklist Task Issue	243
11.8 Artifacts Issue for SM500 page	244
11.9 ra/FCRJConnectorSOA connector issue	245

11.10 Humantask Startup Issue	245
11.11 Collection Mocking	246
12 Uninstalling the Application	248
12.1 Manual Uninstall	248

List of Figures

Figure 2–1 Installation Overview	26
Figure 2–2 Values for updating installobp***.properties	27
Figure 2–3 JXplorer	72
Figure 3–1 Steps in installobpsoa.sh script	76
Figure 3–2 Verification of Properties	77
Figure 3–3 Verification of Properties	77
Figure 3–4 Confirmation to Proceed Domain Installation	78
Figure 3–5 Copying and Extraction of obpininstall-soa.zip	78
Figure 3–6 Copying and Extraction of obpininstall-soa.zip	79
Figure 3–7 Copying and Extraction of obpininstall-soa.zip	79
Figure 3–8 Domain Creation Confirmation	79
Figure 3–9 Starting Post Installation	81
Figure 3–10 Starting Post Installation (contd)	81
Figure 3–11 SOA Post Installation Completion	82
Figure 4–1 Steps in installobphost.sh script	86
Figure 4–2 Verification of Properties	87
Figure 4–3 Verification of Properties (contd)	87
Figure 4–4 Verification of Properties (contd)	88
Figure 4–5 Verification of Properties (contd)	88
Figure 4–6 Confirmation and Copying of Installables to Target Machine	89
Figure 4–7 Confirmation and Copying of Installables to Target Machine (contd)	89
Figure 4–8 Confirmation and Copying of Installables to Target Machine (contd)	90
Figure 4–9 Domain Installation Confirmation	90
Figure 4–10 Untar the policyStoreSetup and Copy on destination location	91

Figure 4–11 Untar the policyStoreSetup and Copy on destination location (contd) ..	92
Figure 4–12 Untar the policyStoreSetup and Copy on destination location (contd) ..	93
Figure 4–13 Policy Seeding	94
Figure 4–14 Policy Seeding (contd)	95
Figure 4–15 Host Domain Admin Server Credentials	96
Figure 4–16 Host Domain Post Installation Script Execution	97
Figure 4–17 Host Domain Post Installation Script Execution (contd)	98
Figure 4–18 Host Domain Post Installation Script Execution (contd)	99
Figure 4–19 Host Domain Post Installation Script Execution (contd)	99
Figure 4–20 Host Domain Post Installation Script Execution Summary	100
Figure 5–1 Steps in installobpui.sh script	104
Figure 5–2 Confirmation to Proceed Domain Installation	105
Figure 5–3 Confirmation to Proceed Domain Installation (contd)	106
Figure 5–4 Confirmation to Proceed Domain Installation (contd)	107
Figure 5–5 Copying and Extraction of obpinstall-ui.zip	108
Figure 5–6 Copying and Extraction of obpinstall-ui.zip (contd)	109
Figure 5–7 Domain Creation Confirmation	110
Figure 5–8 UI Admin Server Credentials	111
Figure 5–9 UI Admin Server Running	111
Figure 5–10 UI Admin Server Running (contd)	112
Figure 5–11 Starting Post Installation	113
Figure 5–12 Starting Post Installation (contd)	114
Figure 5–13 Continuation of Post-Installation	115
Figure 5–14 Continuation of Post-Installation (contd)	116
Figure 7–1 IPM Imaging Console - Login page	123
Figure 7–2 IPM - Welcome page	124

Figure 7–3 Create Content Server Connection	125
Figure 7–4 UCM: Basic information	126
Figure 7–5 UCM: Connection Settings	127
Figure 7–6 UCM: Connection Security	128
Figure 7–7 UCM: Review Settings	129
Figure 7–8 Main: General Properties	130
Figure 7–9 Main: Field Definitions	131
Figure 7–10 Field Definitions (cont.)	131
Figure 7–11 Main: Application Security	132
Figure 7–12 Main: Document Security	133
Figure 7–13 Main: Storage Policy	134
Figure 7–14 Main: Review Settings	135
Figure 7–15 Main: Properties	136
Figure 7–16 Main: Results Formatting	137
Figure 7–17 Main: Conditions	138
Figure 7–18 Main: Parameters	139
Figure 7–19 Main: Search Security	140
Figure 7–20 Main: Preview and Test	141
Figure 7–21 Main: Review Settings	142
Figure 7–22 Temporary: General Properties	143
Figure 7–23 Temporary: Field Definitions	144
Figure 7–24 Temporary: Application Security	145
Figure 7–25 Temporary: Document Security	146
Figure 7–26 Temporary: Storage Policy	147
Figure 7–27 Temporary: Review Settings	148
Figure 7–28 Temporary: Properties	149

Figure 7–29 Temporary: Results Formatting	150
Figure 7–30 Temporary: Conditions	151
Figure 7–31 Temporary: Parameters	152
Figure 7–32 Temporary: Search Security	153
Figure 7–33 Temporary: Preview and Test	154
Figure 7–34 Temporary: Review Settings	155
Figure 7–35 EM Console Login	157
Figure 7–36 Click Weblogic Domain: ipm domain	158
Figure 7–37 Navigate to Weblogic Domain --> Security --> Credentials	159
Figure 7–38 Create Map oracle.wsm.security	160
Figure 7–39 Create Key basic.credentials	161
Figure 7–40 ipm_domain: Credentials Created	162
Figure 7–41 Navigate to Weblogic Domain --> System MBean Browser	163
Figure 7–42 InputDirectories: Enter Input Agent Path	164
Figure 7–43 Manage Connections: Create Workflow Connection	165
Figure 7–44 IUTSOA: Basic Information	166
Figure 7–45 IUTSOA: Workflow Settings	167
Figure 7–46 IUTSOA: Connection Security	168
Figure 7–47 IUTSOA: Review Settings	169
Figure 7–48 Main: Application Summary	170
Figure 7–49 Manage Applications - Server Properties	171
Figure 7–50 Manage Applications - Component Properties	172
Figure 7–51 Manage Applications - Payload Properties	173
Figure 7–52 Manage Applications - Workflow Configuration	174
Figure 7–53 Field Definitions	175
Figure 7–54 Main: Application Summary	176

Figure 7–55 Input Agent: Basic Information	177
Figure 7–56 Input Agent: Input Mask	178
Figure 7–57 Input Agent: File Parameters	179
Figure 7–58 Input Agent: Fields Mapping	180
Figure 7–59 Input Agent: Summary	181
Figure 7–60 flx_fw_config_all_b table	182
Figure 7–61 SSL Handshake Resolution	183
Figure 7–62 Log in to Enterprise Manager (EM) console	184
Figure 7–63 Click Weblogic Domain: ipm domain	185
Figure 7–64 Navigate to Weblogic Domain --> Security --> Credentials	186
Figure 7–65 Create Map oracle.wsm.security	187
Figure 7–66 Create Key: basic.credentials	188
Figure 7–67 ipm_domain: Credentials Created	189
Figure 7–68 Navigate to Weblogic Domain --> System MBean Browser	190
Figure 7–69 InputDirectories: Enter Input Agent Path	191
Figure 7–70 Manage Connections: Create Workflow Connection	192
Figure 7–71 IUTSOA: Basic Information	193
Figure 7–72 IUTSOA: Workflow Settings	194
Figure 7–73 IUTSOA: Connection Security	195
Figure 7–74 IUTSOA: Review Settings	196
Figure 7–75 Create Application: General Properties	197
Figure 7–76 Report: Field Definitions	198
Figure 7–77 Create Application: Applications Security	199
Figure 7–78 Create Application: Document Security	200
Figure 7–79 Create Application: Storage Policy	201
Figure 7–80 Report: Workflow Configuration - Server Properties	202

Figure 7–81 Report: Workflow Configuration - Component Properties	203
Figure 7–82 Report: Application Summary	204
Figure 7–83 Create Application: Review Settings	205
Figure 7–84 Manage Inputs	206
Figure 7–85 Input Agent Details: Input Mask	207
Figure 7–86 Input Agent Details: Field Mapping	208
Figure 7–87 Input Agent Details: Security	209
Figure 7–88 Input Agent Details: Review Settings	210
Figure 7–89 Create Search: Properties	211
Figure 7–90 Create Search: Results Formatting	212
Figure 7–91 Create Search: Conditions	213
Figure 7–92 Create Search: Parameters	214
Figure 7–93 Create Search: Security	215
Figure 7–94 Create Search: Preview and Test	216
Figure 7–95 Create Search: Review Settings	217
Figure 7–96 Component Properties	219
Figure 10–1 UI WebLogic Console	225
Figure 10–2 UI WebLogic Console	226
Figure 10–3 UI EM Console Status Check	227
Figure 10–4 UI Admin wsm-pm Validator	228
Figure 10–5 UI managed wsm-pm validator	229
Figure 10–6 Host WebLogic Console	231
Figure 10–7 Host WebLogic Console	232
Figure 10–8 Host WebLogic Console - JMS Modules	232
Figure 10–9 Host WebLogic Console - jmsAnalyticsModule	232
Figure 10–10 Host WebLogic Console - jmsAsyncAuditModule	233

Figure 10–11 Host WebLogic Console - jmsBatchModule	233
Figure 10–12 Host WebLogic Console - jmsDocumentOutboundModule	233
Figure 10–13 Host WebLogic Console - jmsRuleModule	233
Figure 10–14 Host WebLogic Console - jmsWorkflowModule	233
Figure 10–15 HOST admin wsm-pm validator	234
Figure 10–16 HOST managed wsm-pm validator	235
Figure 10–17 SOA WebLogic Console	237
Figure 10–18 SOA WebLogic Console	237
Figure 10–19 BPM Worklist Window Settings	238
Figure 11–1 OBEPM SOA Domain Error	240
Figure 11–2 Error on First Log In	242
Figure 11–3 BPM Worklist Task issue	244
Figure 11–4 Artifacts Issue for SM500 page	244
Figure 11–5 Settings for javax.resource.cci.ConnectionFactory page	245

List of Tables

Table 2–1 Hardware and OS	22
Table 2–2 List of Software	23
Table 2–3 Notes	24
Table 2–4 Oracle Banking Enterprise Product Manufacturing DB and WebLogic Domain Configuration	61
Table 2–5 Parameter Values to be Changed	63
Table 2–6 Suggested values for Tuning and Alter Command	65
Table 2–7 Properties	68
Table 2–8 Order of Execution	70
Table 7–1 PROP ID Values	182
Table 7–2 PROP ID Values	217

Preface

The Oracle Banking Enterprise Product Manufacturing Installation Guide - Silent Installation contains information on silent installation and configuration of Oracle Banking Enterprise Product Manufacturing software and its associated products.

This preface contains the following topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Organization of the Guide](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This guide is primarily meant as a step-by-step installation manual for IT deployment teams and onshore implementations at client locations to install a complete Oracle Banking Enterprise Product Manufacturing system in a UNIX based environment.

The reader is expected to have an acquaintance with UNIX platform, Oracle WebLogic server and Oracle Fusion platform firmware such as Oracle JDeveloper, Oracle OID and Oracle SOA Suite.

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 Getting Started](#)

This chapter presents an overview of Oracle Banking Enterprise Product Manufacturing and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

[Chapter 2 Pre-Installation Configuration](#)

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Enterprise Product Manufacturing.

[Chapter 3 Oracle Banking Enterprise Product Manufacturing SOA Media Pack Installation](#)

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Product Manufacturing SOA (Integration Server) Media pack.

Chapter 4 Oracle Banking Enterprise Product Manufacturing Host Media Pack Installation

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Product Manufacturing Host Media Pack.

Chapter 5 Oracle Banking Enterprise Product Manufacturing Presentation Media Pack Installation

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Product Manufacturing Presentation (UI) Media Pack.

Chapter 6 Standalone Database Setup

This chapter explains the steps involved in Oracle Banking Enterprise Product Manufacturing Database which are primarily concerned with importing an existing database dump of the QA database.

Chapter 7 Oracle Banking Enterprise Product Manufacturing and IPM Integration

This chapter explains the steps involved in the integration of Oracle Banking Enterprise Product Manufacturing and Oracle Imaging and Process Management (IPM).

Chapter 8 ODI Configuration

This chapter explains the steps involved in the configuration of ODI using Oracle Banking Enterprise Product Manufacturing HOST Media Pack.

Chapter 9 Monitoring Servers Using Oracle Enterprise Manager

This chapter explains the steps required to monitor servers using Oracle Enterprise Manager (EM).

Chapter 10 Post Installation Verification

This chapter explains the steps required to verify the Oracle Banking Enterprise Product Manufacturing installation.

Chapter 11 Errors and Remedies

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Enterprise Product Manufacturing.

Chapter 12 Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Enterprise Product Manufacturing.

Related Documents

For more information, see the following documentation:

- For information necessary for the installation and configuration of integration components to create a complete solution using Oracle Banking Enterprise Product Manufacturing and Oracle Documaker, see the installation and configuration guides at http://docs.oracle.com/cd/E22582_01/e22582_01_index.html.
- Information on Oracle Fusion Middleware Install-Config Checklist is available at <http://aseng-wiki.us.oracle.com/asengwiki/display/ASMWArchPM/FMW+Install-Config+Checklist+Page>.
- For a comprehensive overview of security, see the Oracle Banking Enterprise Product Manufacturing Security Guide.
- For the complete list of licensed products and the third-party licenses included with the license, see the Oracle Banking Enterprise Product Manufacturing Licensing Guide.

- For information related to setting up a bank or a branch, and other operational and administrative functions, see the Oracle Banking Enterprise Product Manufacturing Administrator's Guide.
- For information related to customization and extension, see the Oracle Banking Enterprise Product Manufacturing Extensibility Guide.
- For information on the functionality and features, see the respective Oracle Banking Enterprise Product Manufacturing Functional Overview document.
- For recommendations of secure usage of extensible components, see the Oracle Banking Enterprise Product Manufacturing 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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

The following acronyms are used in this document:

Acronym	Meaning
DB or db	Oracle Database
HOST	Middleware Host Tier
IPM	Imaging and Process Management
OBEPM	Oracle Banking Enterprise Product Manufacturing
ODI	Oracle Data Integrator
OEL	Oracle Enterprise Linux
OEM	Oracle Enterprise Manager
OID	Oracle Internet Directory
OIM	Oracle Identity Manager
RCU	Repository Creation Utility
sh	Unix Shell file
SOA	Service Oriented Architecture Tier
SVN	Source Code Version Repository
UI	User Interface, that is Presentation Tier
WLS	WebLogic Server

1 Getting Started

This chapter presents an overview of Oracle Banking Enterprise Product Manufacturing and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

1.1 About Oracle Banking Enterprise Product Manufacturing

Oracle Banking Enterprise Product Manufacturing (OBEPM) provides a comprehensive and a flexible framework for configuring various banking products and their requisite maintenances. You can define a variety product groups, products and offers in a hierarchical structure. OBEPM can also liaise with third party systems for origination and servicing of accounts. It also helps the banks in creating and publishing the products or offers to the market within a very limited time and without any system changes.

1.2 About This Document

This document guides you through the installation of the Oracle Banking Enterprise Product Manufacturing. This document guides in deploying the following parts of the application:

- Presentation Server (ADF Presentation UI deployment on WebLogic)
- Application Server (Banking Services hosted on WebLogic)
- Integration Server (Oracle Banking Enterprise Product Manufacturing Integration and Approval Processes hosted on Oracle SOA)
- Security Configuration (Seeding security to OID)
- Seed Data Configuration (Seeding data to Core banking OLTP Database Server)

There are multiple prerequisites that need to be done before the start of the installation. The prerequisites section lists down the requirements. This document does not attempt to guide you through the prerequisites installation. The readers are expected to see the appropriate platform documentation to install the prerequisites.

This document prescribes bare minimum hardware requirements to have a functional application configuration. The sizing for a production environment is not prescribed here.

Due care has been taken to make this document as complete as possible. In case of any anomalies please mail to obp-deployment-support@oracle.com.

There are certain steps in the installation that *may* not be optimal yet. Further releases will optimize the deployment further.

1.3 Assumptions

It is assumed that the reader is aware of the technologies involved and is capable of installing the prerequisite software products mentioned in [Section 2.1.2 Software Environment](#).

The following are the assumptions regarding the environment and setup with regard to carrying out this installation:

- The OBEPM installables are downloaded and copied onto a Linux machine or Linux VM.
- The reader has taken a remote connection to the Linux machine via Windows box.
- The reader is able to take an 'ssh' connection to the servers on which various OBEPM components have to be installed from the Linux machine.
- The user is aware of the process of creating required db schema using RCU prior to initiation of OBEPM installation.

1.4 Limitations

Whenever the installation gets aborted or is served a timeout for various reasons, rerun the installation from the beginning with domain cleanup.

1.5 Exclusions

Though some of the software and products listed in prerequisites section may work on Windows, such qualification has not been carried out and shall not be the focus of this guide. It is advisable to use the mentioned Operating System (OS) for the best experience.

2 Pre-Installation Configuration

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Enterprise Product Manufacturing.

2.1 Setup Prerequisites

This section lists down the requirements from an environment perspective including minimum hardware requirements with Operating System (OS) and the middleware software products, which the Oracle Banking Enterprise Product Manufacturing solution depends and runs on (for example, Database or WebLogic) or interfaces with (for example, OID or IPM).

2.1.1 Hardware Environment

The minimum hardware requirements for Oracle Banking Enterprise Product Manufacturing solution to install and function decently are listed below:

Table 2–1 Hardware and OS

Sr. No.	CPU (2+GHz)	RAM (GB)	Disk (GB)	OS Version	Purpose
1	4	16	200	OEL 6.8 or OEL 7.1	OBEPM Oracle Database
2	4	32	200	OEL 6.8 or OEL 7.1	OBEPM ADF UI Presentation Server
3	4	32	200	OEL 6.8 or OEL 7.1	OBEPM Services Middleware Host Server
4	2	16	200	As per OID certification matrix.	Oracle OID Server
5	2	16	200	As per IPM certification matrix.	Oracle IPM Server
6	4	32	200	As per SOA certification matrix.	Oracle SOA Server

2.1.2 Software Environment

It is assumed that the following products are installed and are available on the server on which the Oracle Banking Enterprise Product Manufacturing installation will be performed.

2.1.2.1 Certification Details

The following software are mandatory:

Table 2–2 List of Software

Sr. No.	Components	Zone	Software
1	OBEPM UI Presentation	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
2	SOA	Banking App	Oracle SOA Suite 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
3	OBEPM HOST	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
4	OID	Security	Oracle Internet Directory 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
5	IPM	Document	Oracle WebCenter - Content 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
6	ODI	Integration	Oracle Data Integrator 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
7	OIM	Security	Oracle Identity Manager 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
8	OAAM	Security	Oracle IAM 11.1.2.3 Suite Oracle Weblogic Server 10.3.6 Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
9	OAM	Security	Oracle Access Manager 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 6.8 / 7.1 64-bit
10	OEM	Management	Oracle Enterprise Manager 13.2.0.0.0 As per certification matrix of Oracle Enterprise Manager 13.2.0.0.0
11	EM Agent	Management	Push from OEM Console

Sr. No.	Components	Zone	Software
	Installation		
12	OBEPM Database	Database	Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 Oracle Linux 6.8 / 7.1 64-bit
13	HTTP Server	Web Server	Oracle HTTP Server 12.2.1.3.0

The following are some notes related to the software.

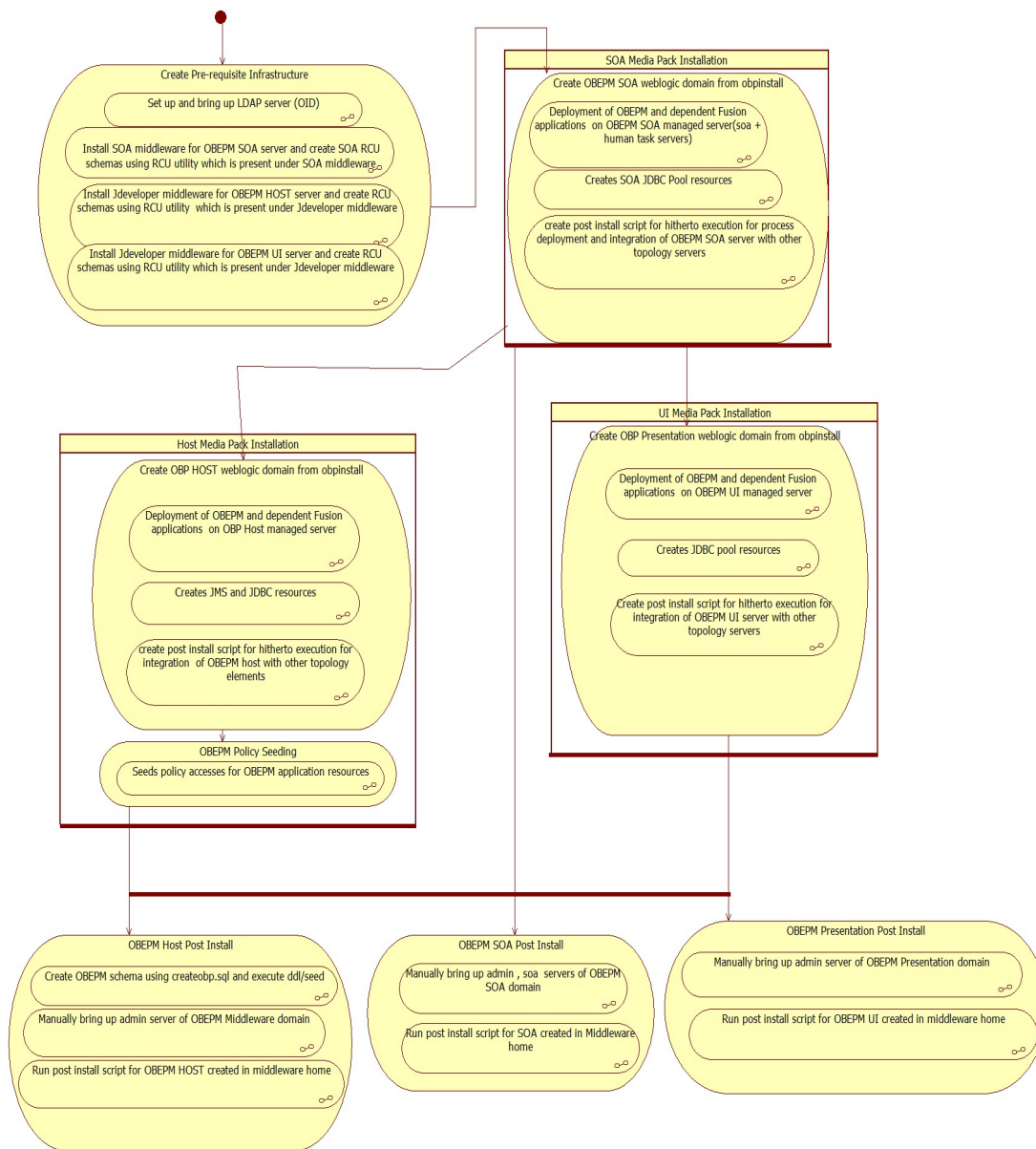
Table 2–3 Notes

Serial Number	Description
1	OBEPM release has been certified with OEL version 6.8 and above (7.0 and 7.1) during the release cycle. It is strongly recommended to use the versions on which the release is certified.
2	<p>ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD</p> <p>The OBEPM installer will not abort the installation if this component is not present. It can be installed later.</p> <p>However, it is strongly recommended to use the actual property values instead of default property values during the installation.</p> <p>Else, the actual values for ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorODI' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.</p>
3	<p>The OBEPM installer will not abort the installation if this component is not present. It can be installed later.</p> <p>It is strongly recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database after the entire installation completes.</p>
4	<p>OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD</p> <p>The OBEPM installer will not abort the installation if this component is not present. It can be installed later.</p> <p>It is recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database. Also, actual values for OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorOIM' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.</p>
5	Oracle Access Manager can be installed later.
6	During installation, password of unix user will be asked multiple times for “scp” “ssh”. There is a time limit for entering password. If not entered within specified limit, the installation is likely to exit. User should take care of this.
7	It is mandatory for machine nodes on which OBEPM UI, Host, and SOA Media pack installation is planned, to install the Java Cryptography Extensions Unlimited Strength Jurisdiction Policy Files, to enable additional encryption strengths.

Serial Number	Description
8	<p>Download the jce_policy.zip from Oracle website for the current Java version being used. For jdk1.8.0_xx, download Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8 jce_policy-8.zip from the below link:</p> <p>https://www.oracle.com/technetwork/java/javase/downloads/jce-all-download-5170447.html</p> <p>Copy "local_policy.jar" and "US_export_policy.jar" from inside this zip file in the path mentioned below.</p> <p>JAVA_HOME/jre/lib/security/</p>
9	<p>It is mandatory that the team installing OBEPM reads and understands the system requirements and specifications for the fusion middleware specified in the following link:</p> <p>https://docs.oracle.com/html/E82037_01/toc.htm</p> <p>The url details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.3.0) products.</p> <p>Changes necessary at a system level for the fusion middleware should be made prior to executing OBEPM media packs.</p> <p>For example, the number of open files should be increased from the default value as specified in the following link:</p> <p>https://docs.oracle.com/html/E82037_01/toc.htm#GUID-95BCDEF2-F2FC-4E30-A8EF-B966F817B1D4</p>
10	<p>The value of property SOA_SERVER_NAME in installer properties should not be changed. The default value of soa_server1, that is shipped along with media pack, should be retained AS IS. Managed servers, that are required inside the cluster as per the naming onsite conventions, should be added after the media pack installation is complete.</p>

2.2 Installation Process Overview

The following diagram provides an overview of the steps that need to be followed to install and configure Oracle Banking Enterprise Product Manufacturing:

Figure 2–1 Installation Overview

2.3 Installation Checklist

It is mandatory that the team installing OBEPM reads and understands the system requirements and specifications for the fusion middleware specified in the following link:

https://docs.oracle.com/html/E82037_01/toc.htm

The link details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.3.0) products.

Changes necessary at a system level for the fusion middleware should be made prior to executing OBEPM media packs.

For example, the number of open files should be increased from the default value as specified in the following link:

https://docs.oracle.com/html/E82037_01/toc.htm#GUID-95BCDEF2-F2FC-4E30-A8EF-B966F817B1D4

To make the installation experience quick and easy, a checklist of information is provided, which should be filled and kept handy. The checklist has been made more intuitive and relevant by ensuring that the Key for properties defined in the installation property file is same as the Name column in the first table of the checklist.

2.3.1 Updating installobp***.properties

This checklist provides values for updating installobp***.properties.

Figure 2–2 Values for updating installobp*.properties**

Sr.No	Name	Description	Example Value	Value
1	SILENT_INSTALL	Flag for installing silent or interactive mode	Y	
2	IPM_INSTALLED	Flag to make sure IPM is installed	Y	
3	BIP_INSTALLED	Flag to make sure BIP is installed	Y	This must be N for OBEPM Host installation
4	OID_FARM_AND_POLICY_SEEDING_FLAG	Flag for policy seeding	Y	
5	BIP_REPORTS_UPLOADING_FLAG	Flag for BIP reports uploading	Y	This must be N for OBEPM Host installation
6	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
7	SECURITY_ENABLED	Flag for security enable	Y	
8	LOCAL_IP	I/P of the local machine which	10.180.84.110	

Sr.No	Name	Description	Example Value	Value
		could be a windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.		
9	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0	
10	DOMAIN_NAME	Weblogic Domain name	host_domain or ui_domain or base_domain	
11	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
12	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	
13	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
14	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.110 (Do not use localhost)	
15	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
16	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen port	7002	
17	MANAGED_SERVER_LISTEN_ADDRESS	Managed server listen address	10.180.84.110	
18	MANAGED_SERVER_LISTEN_PORT	Managed server listen port	8001	
19	MANAGED_SERVER_SSL_LISTEN_PORT	SSL listen port for managed server	8002	

Sr.No	Name	Description	Example Value	Value
20	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
21	OID_IP	I/P address of the OID server.	10.180.84.113	
22	OID_PORT	Port of the OID process instance.	3060	
23	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrator.	cn= orcladmin	
24	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	
25	OID_GROUP_DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
26	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	cn=Users,dc=in,dc=oracle,dc=com	
27	NODE_MGR_PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing weblogic node manager should be installed to listen on this port when the same is started.	5556	
28	HOST_CLUSTER_NAME	Refers to HOST cluster name	obphost_cluster1	

Sr.No	Name	Description	Example Value	Value
29	HOST_SERVER_NAME	Refers to HOST server name	obphost_server1	
30	HOST_JAVA_HOME	Refers to the home directory of java installation of the host machine. The version of java installed should be 1.8.0 or above. This is used to execute the OBP security policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
31	OUI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.8.101. This is used for OBP patching.	/scratch/app/product/jdk1.8.0_101	
32	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oraInventory	
33	HOST_IP	I/P address of the server on which the OBP host or middleware layer should be installed.	10.180.84.110(Always use i/p , don't use localhost)	
34	HOST_TARGET	Refers to a location on the Host server where the installable can be transferred. The user id used for installation of	/scratch/install/target	

Sr.No	Name	Description	Example Value	Value
		OBP should have read, write and execute privileges on this directory.		
35	HOST_MW_HOME	Refers to the middleware home of the weblogic installation on the Host server.	/scratch/app/product/fmw	
36	UI_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of UI Admin server	10.180.84.111	
37	UI_ADMIN_SERVER_LISTEN_PORT	Listen port of UI Admin server	7001	
38	UI_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of UI managed server	10.180.84.111	
39	UI_MANAGED_SERVER_LISTEN_PORT	Listen port of UI managed server	8001	
40	UI_MANAGED_SERVER_SSL_LISTEN_PORT	Listen ssl port of UI managed server	8002	
41	SOA_ORACLE_HOME	Name of Oracle SOA which is present in fusion middleware.	soa	
42	SOA_IP	i/p address of SOA machine	10.180.84.112	
43	SOA_UNIX_USER	Unix username of SOA machine	ofssobp	
44	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
45	SOA_DOMAIN_NAME	Refers to the	base_domain	

Sr.No	Name	Description	Example Value	Value
		middleware home of the weblogic installation on the SOA server.		
46	SOA_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
47	SOA_ADMIN_SERVER_LISTEN_PORT	Listen port of SOA Admin server	7001	
48	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
49	SOA_WEBLOGIC_USERNAME	Username of the server of SOA domain	weblogic	
50	SOA_WEBLOGIC_PASSWORD	Password of the server of SOA domain	weblogic1	
51	UI_IP	I/P address of the server on which the OBP presentation or UI layer should be installed.	10.180.84.111	
52	UI_UNIX_USER	Linux login user id used to install the OBP UI solution.	ofssobp	
53	UI_DOMAIN_HOME	Refers to the domain name to be used for the weblogic domain of the OBP Presentation server	/scratch/app/product /fmw/user_projects /domains /ui_domain	
54	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
55	BIP_SERVER_IP	I/P of the BIP server to host OBP reports	10.180.84.115	

Sr.No	Name	Description	Example Value	Value
56	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9502	
57	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
58	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
59	BIP_INSTANCE_PATH	Oracle BIP Instance directory on BIP server	/scratch/app/product/fmw/user_projects/domains/bi_domain/bidata/	
60	BIP_SERVER_USER	Oracle BIP server user id	weblogic	
61	BIP_SERVER_PSWD	Oracle BIP server user password	weblogic1	
62	BIP_REPORT_BASE_PATH	Logical Base Path on Oracle BIP server under which OBP reports would be hosted	OBEPM27/R27INSTALLER	
63	BIP_DATASOURCE_NAME	OBP Host database user used by OBP report to fetch data for reports	OBEPM27	
64	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	
65	IPM_SERVER_IP	IP of Oracle Image and Processing Server for OBP Content Management	10.180.84.114	
66	IPM_SERVER_PORT	Port of Oracle Image and Processing Server for OBP Content Management	16000	

Sr.No	Name	Description	Example Value	Value
67	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/Oracle_ECM1	
68	OAAM_SERVER_IP	OAAM server IP for 2FA. OAAM_SERVER_IP refers to the ip address of OAAM Server (i.e. the IP of default server name as oaam_server_server1)	oaam-ofss.com	
69	OAAM_SERVER_PORT	OAAM server Port for 2FA. OAAM_SERVER_PORT refers to the port of OAAM Server (default server name as oaam_server_server1)	14000	
70	OIM_SERVER_IP	Oracle Identity Manager IP	oim-ofss.com	
71	OIM_SERVER_PORT	Oracle Identity Manager Port	16000	
72	OFSA_SERVER_IP	OFSA Server IP	ofsaa-ofss.com	
73	OFSA_SERVER_PORT	OFSA Server Port	17000	
74	DOCUMAKER_SERVER_IP	i/p address of Documaker server	documaker-ofss.com	
75	DOCUMAKER_SERVER_PORT	Listen port of Documaker server	15000	
76	BAM_SERVER_NAME	Bam sever listen address	bam-ofss.com	
77	BAM_SERVER_PORT	BAM managed server port	9003	
78	ODI_SERVER_NAME	ODI server listen address	odi-ofss.com	

Sr.No	Name	Description	Example Value	Value
79	ODI_SERVER_PORT	ODI server listen port	8001	
80	OBP_HOST_DB_USER	OBP Host database user	OBEPM27	
81	OBP_HOST_DB_PASSWORD	OBP Host database password	welcome1	
82	OBP_HOST_DB_IP	OBP Host database i/p address	10.180.84.113	
83	OBP_HOST_DB_PORT	OBP Host database port	1521	
84	OBP_HOST_DB_SERVICE_NAME	OBP Host database service name	P84113A	
85	ONS_NODE	i/p address of ONS service	10.180.84.113	
86	ONS_PORT	Listen port of ONS service	6250	
87	OPSS_HOST_SCHEMA_USER	OPSS Host schema user	PRDHOST_OPSS	
88	OPSS_HOST_SCHEMA_PASSWORD	OPSS Host schema password	welcome1	
89	OPSS_HOST_DB_IP	OPSS Host DB IP	10.180.84.113	
90	OPSS_HOST_DB_PORT	OPSS Host DB Port	1521	
91	OPSS_HOST_DB_SERVICE_NAME	OPSS Host database service name	P84113A	
92	LOCAL_DATASOURCE	STB datasource schema name	PRDHOST_STB	
93	MDS_HOST_DB_USER	MDS schema user to be used by UI and Host domain	UI2601_MDS	
94	MDS_HOST_DB_PASSWORD	MDS schema Password of MDS schema user to be used by UI and Host domain	welcome1	

Sr.No	Name	Description	Example Value	Value
95	MDS_HOST_DB_IP	MDS DB IP address of MDS schema user to be used by UI and Host domain	10.180.84.113	
96	MDS_HOST_DB_PORT	MDS db port of MDS schema user to be used by UI and Host domain	1521	
97	MDS_HOST_DB_SERVICE_NAME	MDS db service name of MDS schema user to be used by UI and Host domain	P84113A	
98	OPSS_SOA_SCHEMA_USER	SOA OPSS schema name	SOA27_OPSS	
99	OPSS_SOA_AUDIT_DBDS	SOA OPSS Audit schema name	SOA27_IAU_APPEND	
100	OPSS_SOA_AUDIT_VIEWDS	SOA OPSS Audit View schema name	SOA27_IAU_VIEWER	
101	OPSS_SOA_SCHEMA_PASSWORD	Password of SOA OPSS schema name	welcome1	
102	OPSS_SOA_DB_IP	IP address of SOA OPSS DB machine	10.180.84.113	
103	OPSS_SOA_DB_PORT	Port of SOA OPSS DB	1521	
104	OPSS_SOA_DB_SERVICE_NAME	Service name of SOA OPSS DB	P84113A	
105	HOST_ADMIN_JVM_PARAMS	Host domain admin JVM startup parameters	-Xms1024m -Xmx4096m	
106	HOST_MANAGED_JVM_PARAMS	Host domain managed JVM startup parameters	Xms8g -Xmx8g -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:	

Sr.No	Name	Description	Example Value	Value
			+CMSParallelRemarkEnabled - XX:+UseConcMarkSweepGC - XX:CMSInitiatingOccupancyFraction= 75	
107	KEYSTORE_PASSWORD	Password for generating certificate	welcome1	
108	IPM_OUTBOUND_USERNAME	IPM Username created in connector	weblogic	
109	IPM_OUTBOUND_PASSWORD	Password for the IPM user in connector	weblogic1	
110	BIP_OUTBOUND_USERNAME	BIP Username created in connector	weblogic	
111	BIP_OUTBOUND_PASSWORD	Password for the BIP user in connector	weblogic1	
112	ODI_OUTBOUND_USERNAME	ODI Username created in connector	weblogic	
113	ODI_OUTBOUND_PASSWORD	Password for the ODI user in connector	weblogic1	
114	OIM_OUTBOUND_USERNAME	OIM Username created in connector	weblogic	
115	OIM_OUTBOUND_PASSWORD	Password for the OIM user in connector	weblogic1	
116	WCM_OUTBOUND_USERNAME	WCM Username created in connector	weblogic	
117	WCM_OUTBOUND_PASSWORD	Password for the WCM user in connector	weblogic1	
118	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Offline Username created in connector	offlineuser	
119	OFFLINE_CHANNEL_OUTBOUND_PASSWORD	Password for the Offline user in connector	welcome1	

Sr.No	Name	Description	Example Value	Value
120	SAML_ISSUER_OUTBOUND_USERNAME	SAML ISSUER Username created in connector	weblogic	
121	SAML_ISSUER_OUTBOUND_PASSWORD	Password for the SAML ISSUER user in connector	weblogic1	
122	BPEL_ENCRYPTION_OUTBOUND_USERNAME	BPEL ENCRYPTION Username created in connector	weblogic	
123	BPEL_ENCRYPTION_OUTBOUND_PASSWORD	Password for the BPEL ENCRYPTION user in connector	weblogic1	
124	FTP_IPM_OUTBOUND_USERNAME	FTP IPM Username created in connector	weblogic	
125	FTP_IPM_OUTBOUND_PASSWORD	Password for the FTP IPM user in connector	weblogic1	
126	FTP_BIP_OUTBOUND_USERNAME	FTP BIP Username created in connector	weblogic	
127	FTP_BIP_OUTBOUND_PASSWORD	Password for the FTP BIP user in connector	weblogic1	
128	BIP_USR_OUTBOUND_USERNAME	BIP Username created in connector	weblogic	
129	BIP_USR_OUTBOUND_PASSWORD	Password for the BIP user in connector	weblogic1	
130	SOA_PURGING_OUTBOUND_USERNAME	SOA Username created in connector	weblogic	
131	SOA_PURGING_OUTBOUND_PASSWORD	Password for the SOA user in connector	weblogic1	

Sr.No	Name	Description	Example Value	Value
132	SOA_OUTBOUND_USERNAME	SOA Username created in connector	weblogic	
133	SOA_OUTBOUND_PASSWORD	Password for the SOA user in connector	weblogic1	
134	ATMUSER_OUTBOUND_USERNAME	ATM Username created in connector	ATMUser	
135	ATMUSER_OUTBOUND_PASSWORD	Password for the ATM user in connector	welcome1	
136	POSUSER_OUTBOUND_USERNAME	POS Username created in connector	POSUser	
137	POSUSER_OUTBOUND_PASSWORD	Password for the POS user in connector	welcome1	
138	DMSHOST_OUTBOUND_USERNAME	DMS HOST Username created in connector	weblogic	
139	DMSHOST_OUTBOUND_PASSWORD	Password for the DMS HOST user in connector	weblogic1	
140	DMSUI_OUTBOUND_USERNAME	DMS UI Username created in connector	weblogic	
141	DMSUI_OUTBOUND_PASSWORD	Password for the DMS UI user in connector	weblogic1	
142	OCH_OUTBOUND_USERNAME	OCH Username created in connector	weblogic	
143	OCH_OUTBOUND_PASSWORD	Password for the OCH user in connector	weblogic1	
144	WS_MFT_OUTBOUND_USERNAME	WS_MFT Username	weblogic	

Sr.No	Name	Description	Example Value	Value
	USERNAME	created in connector		
145	WS_MFT_OUTBOUND_PASSWORD	Password for the WS_MFT user in connector	weblogic1	
146	OP_OUTBOUND_USERNAME	OP Username created in connector	weblogic	
147	OP_OUTBOUND_PASSWORD	Password for the OP user in connector	weblogic1	
148	ICS_OUTBOUND_USERNAME	Username for ICS connector	weblogic	
149	ICS_OUTBOUND_PASSWORD	Password for ICS connector	Weblogic1	
150	OBDX_OUTBOUND_USERNAME	Username for OBDX connector	1518675030085dean.white@test.com	
151	OBDX_OUTBOUND_PASSWORD	Password for OBDX connector	Welcome@1	
152	CARD_USERNAME	Username of Card connector	orakey	
153	CARD_PASSWORD	Password of Card connector	welcome1	
154	RULE_USERNAME	Username of Rule connector	orakey	
155	RULE_PASSWORD	Password of Rule connector	welcome1	
156	BAM_USERNAME	Username of BAM connector	weblogic	
157	BAM_PASSWORD	Password of BAM connector	weblogic1	
158	COMMON_OUTBOUND_USERNAME	Username for common connector	Weblogic1	
159	COMMON_OUTBOUND_PASSWORD	Password for common connector	Weblogic1	
160	PM_OUTBOUND_USERNAME	Username for PM connector	weblogic	

Sr.No	Name	Description	Example Value	Value
161	PM_OUTBOUND_PASSWORD	Password for PM connector		
162	LENDING_OUTBOUND_USERNAME	Username for lending connector	weblogic	
163	LENDING_OUTBOUND_PASSWORD	Password for lending connector		
164	DEPOSITS_OUTBOUND_USERNAME		weblogic	
165	DEPOSITS_OUTBOUND_PASSWORD			
166	FW_OUTBOUND_USERNAME		weblogic	
167	FW_OUTBOUND_PASSWORD			
168	COLLECTION_OUTBOUND_USERNAME		weblogic	
169	COLLECTION_OUTBOUND_PASSWORD			
170	OR_OUTBOUND_USERNAME		weblogic	
171	OR_OUTBOUND_PASSWORD			
172	PARTY_OUTBOUND_USERNAME		weblogic	
173	PARTY_OUTBOUND_PASSWORD			
174	PRODPROC_OUTBOUND_USERNAME		weblogic	
175	PRODPROC_OUTBOUND_PASSWORD			
176	RECOVERY_OUTBOUND_USERNAME		weblogic	
177	RECOVERY_OUTBOUND_PASSWORD			

Sr.No	Name	Description	Example Value	Value
	PASSWORD			
178	PRICING_OUTBOUND_USERNAME		weblogic	
179	PRICING_OUTBOUND_PASSWORD			
180	LCM_OUTBOUND_USERNAME		weblogic	
181	LCM_OUTBOUND_PASSWORD			
182	MDM_OUTBOUND_USERNAME		weblogic	
183	MDM_OUTBOUND_PASSWORD			
184	COMMUNICATIONS_OUTBOUND_USERNAME		weblogic	
185	COMMUNICATIONS_OUTBOUND_PASSWORD			
186	APPCAPTURE_OUTBOUND_USERNAME		weblogic	
187	APPCAPTURE_OUTBOUND_PASSWORD			
188	USER_TIMEZONE	Time zone entry	+5:30	
189	HOST_SSL_PASSWORD	Password for configuring SSL in HOST domain	welcome1	
190	SILENT_INSTALL	Flag for executing installer remotely	Y	
191	SECURITY_ENABLED	Flag for security enable	Y	
192	IPM_INSTALLED	Flag for if IPM is installed	Y	
193	BIP_INSTALLED	Flag for if BIP is installed	N	This value must be

Sr.No	Name	Description	Example Value	Value
				N.
194	LOCAL_IP	I/P address of the local machine which could be a windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.	10.180.84.111	
195	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0	
196	DOMAIN_NAME	Weblogic Domain name	Host_domain or ui_domain or base_domain	
197	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
198	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	
199	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
200	LOCAL_DATASOURCE	Username of LOCAL_DATASOURCE	PRDUI_STB	
201	OPSS_UI_SCHEMA_USER	OPSS UI schema name	PRDUI_OPSS	
202	OPSS_UI_SCHEMA_PASSWORD	OPSS UI schema password	Welcome1	
203	OPSS_UI_DB_IP	OPSS UI DB IP	10.180.84.113	
204	OPSS_UI_DB_PORT	OPSS UI DB	1521	

Sr.No	Name	Description	Example Value	Value
		PORT		
205	OPSS_UI_DB_SERVICE_NAME	OPSS UI DB SERVICE NAME	P84113A	
206	MDS_SCHEMA_USER	MDS schema name	PRDUI_MDS	
207	MDS_SCHEMA_PASSWORD	Password of MDS schema	welcome1	
208	MDS_DB_IP	MDS DB IP	10.180.84.113	
209	MDS_DB_PORT	MDS DB PORT	1521	
210	MDS_DB_SERVICE_NAME	MDS DB SERVICE NAME	P84113A	
211	OPSS_SOA_SCHEMA_USER	SOA OPSS Schema name	PRDSOA_OPSS	
212	OPSS_SOA_AUDIT_DBDS	SOA OPSS AUDIT schema name	PRDSOA_IAU_APPEND	
213	OPSS_SOA_AUDIT_VIEWDS	SOA OPSS AUDIT VIEWDB Schema name	PRDSOA_IAU_VIEWER	
214	OPSS_SOA_SCHEMA_PASSWORD	SOA OPSS password for above three OPSS schema	welcome1	
215	OPSS_SOA_DB_IP	Service name of UI OPSS DB	10.180.84.113	
216	OPSS_SOA_DB_PORT	SOA OPSS DB PORT	1521	
217	OPSS_SOA_DB_SERVICE_NAME	SOA OPSS DB SERVICE NAME	P84113A	
218	HOST_SCHEMA_USER	OBP Host Database username	OBEP27	
219	HOST_SCHEMA_PASSWORD	OBP Host Database password	welcome1	
220	HOST_DB_IP	OBP Host Database i/p address	10.180.84.113	

Sr.No	Name	Description	Example Value	Value
221	HOST_DB_PORT	OBP Host Database listen port	1521	
222	HOST_DB_SERVICE_NAME	OBP Host Database service name	P84113A	
223	ONS_NODE	i/p address of ONS service	10.180.84.113	
224	ONS_PORT	Listen port of ONS service	6250	
225	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.111	
226	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
227	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen port	7002	
228	MANAGED_SERVER_LISTEN_ADDRESS	Managed server listen address	10.180.84.111	
229	MANAGED_SERVER_LISTEN_PORT	Managed server listen port	8001	
230	MANAGED_SERVER_SSL_LISTEN_PORT	Managed server SSL listen port	8002	
231	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
232	OID_IP	I/P address of the OID server	10.180.84.113	
233	OID_PORT	Port of the OID process instance.	3060	
234	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrator.	cn=orcladmin	
235	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	

Sr.No	Name	Description	Example Value	Value
236	OID_GROUP_DSN	The DSN used for object class Groups in the OID Idap.	cn=Groups,dc=in,dc=oracle,dc=com	
237	OID_USER_DSN	The DSN used for object class Users in the OID Idap.	cn=Users,dc=in,dc=oracle,dc=com	
238	NODE_MGR_PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing weblogic node manager should be installed to listen on this port when the same is started	5556	
239	UI_IP	I/P address of the server on which the OBP presentation or UI layer should be installed.	10.180.84.111	
240	UI_CLUSTER_NAME	Name of UI Managed Cluster	obpui_cluster1	
241	UI_SERVER_NAME	Name of UI Managed Server	obpui_server1	
242	UI_TARGET	Refers to a location on the UI server where the installables can be transferred. The user id of the use used for installation of OBP should have read, write and	/scratch/install/target	

Sr.No	Name	Description	Example Value	Value
		execute privileges on this directory.		
243	UI_MW_HOME	Refers to the middleware home of the weblogic installation on the UI server.	/scratch/app/product/fmw	
244	UI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.8.0 or above. This is used to execute the OBP security policies policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
245	OUI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.8.0 . This is used for OBP patching.	/scratch/app/product/jdk1.8.0_101	
246	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oraInventory	
247	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
248	IPM_UNIX_USER	Linux login user id of IPM server	ofssobp	
249	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
250	IPM_SERVER_PORT	Listen port of IPM server	16000	

Sr.No	Name	Description	Example Value	Value
251	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/Oracle_ECM1	
252	BIP_SERVER_IP	i/p address of BIP server	10.180.84.115	
253	BIP_SERVER_PORT	Listen port of BIP server	9502	
254	BIP_UNIX_USER	Linux login user id of BIP server	ofssobp	
255	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
256	OAAM_SERVER_IP	OAAM server IP for 2FA. OAAM_SERVER_IP refers to the ip address of OAAM Server (i.e. the IP of default server name as oaam_server_server1)	oaam-ofss.com	
257	OAAM_SERVER_PORT	OAAM server Port for 2FA. OAAM_SERVER_PORT refers to the port of OAAM Server (default server name as oaam_server_server1)	14000	
258	OIM_SERVER_IP	Oracle Identity Manager i/p address	oim-ofss.com	
259	OIM_SERVER_PORT	Oracle Identity Manager Listen Port	16000	
260	OFSA_SERVER_IP	OFSA Server i/p address	ofsaa-ofss.com	
261	OFSA_SERVER_PORT	OFSA Server listen port	17000	

Sr.No	Name	Description	Example Value	Value
262	UI_ADMIN_JVM_PARAMS	UI domain admin JVM startup parameters	-Xms2048m -Xmx4096m	
263	UI_MANAGED_JVM_PARAMS	UI domain managed JVM startup parameters	-Djbo.ampool l.doampooling=false -Xms6g -Xmx6g -XX:NewSize=512m -XX:MaxNewSize =2048m -XX:+UseParNewGC -XX:+CMSParallel RemarkEnabled -XX:+UseConcMark SweepGC -XX:CMSInitiating Occupancy Fraction=75 -Djbo.load.com ponents.lazily=true	
264	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	
265	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	7001	
266	HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of host managed server	10.180.84.110	
267	HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of host managed server	8001	
268	SOA_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
269	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
270	SOA_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of Admin SOA server	10.180.84.112	
271	SOA_ADMIN_SERVER_LISTEN_PORT	Listen port of Admin SOA server	7001	

Sr.No	Name	Description	Example Value	Value
272	KEYSTORE_PASSWORD	Password for generating certificate	welcome1	
273	UI_SSL_PASSWORD	Password for configuring SSL in UI domain	welcome1	
274	UCM_READ_FROM_URL	<p>Flag for getting UCM URL from properties file.</p> <p>These values are used by the Webcenter Portal application for internet banking. Hence values for UCM_READ_FROM_URL and UCM_IP, UCM_PORT below can be left as is for installations, which do not use the Webcenter portal for hosting their internet banking application.</p> <p>However, as a best practice, it is recommended that we configure values for UCP_IP and UCM_PORT correctly from day 1</p>	true/false	
275	UCM_IP	UCM_IP the IP address of the UCM WebLogic managed server.	ofss.ucm.com	

Sr.No	Name	Description	Example Value	Value
276	UCM_PORT	Port of UCM.	4444	
277	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Offline username created in connector	offlineuser	
278	OFFLINE_CHANNEL_OUTBOUND_PASSWORD	Password for the Offlineuser user in connector	welcome1	
279	CARD_USERNAME	Username of Card connector.	orakey	
280	CARD_PASSWORD	Password of Card connector.	welcome1	
281	RULE_USERNAME	Username of Rule connector	orakey	
282	RULE_PASSWORD	Password of Rule connector	welcome1	
283	USER_TIMEZONE	Time zone entry	+5:30	
284	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
285	IPM_USERNAME	Username of IPM connector	weblogic	
286	IPM_PASSWORD	Password of IPM connector	weblogic1	
287	FTP_IPM_USERNAME	Username of FTP_IPM connector	ofssobp	
288	FTP_IPM_PASSWORD	Password of FTP_IPM connector	ofssobp123	
289	FTP_IPM_BATCH_USERNAME	Username of FTP_IPM_BATCH	ofssobp	
290	FTP_IPM_BATCH_PASSWORD	Password of FTP_IPM_BATCH	ofssobp123	
291	HOST_UNIX_USER	Linux login user id for HOST server	ofssobp	

Sr.No	Name	Description	Example Value	Value
292	HOST_MW_HOME	Refers to the middleware home of the weblogic installation on the Host server.	/scratch/app/product/fmw	
293	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
294	SOA_DOMAIN_NAME	SOA Domain Name	base_domain	
295	SILENT_INSTALL	Flag for installing silent or interactive mode	y	
296	SECURITY_ENABLED	Flag for security enable	Y	
297	IPM_INSTALLED	Flag for if IPM is installed	Y	
298	BIP_INSTALLED	Flag for if BIP is installed	Y	
299	LOCAL_IP	I/P of the local machine which could be a windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.	10.180.84.112	
300	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0	
301	DOMAIN_NAME	Name of the	Host_domain or ui_domain or base_	

Sr.No	Name	Description	Example Value	Value
		weblogic domain to be created	domain	
302	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
303	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	
304	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
305	MDS_SCHEMA_USER	MDS schema user for SOA domain	SOA27_MDS	
306	SOA_INFRASTRUCTURE_SCHEMA_USER	SOA infrastructure schema user for SOA domain	SOA27_SOAINFRA	
307	LOCAL_DATASOURCE	Local schema user for SOA domain	SOA27_STB	
308	UMS_DATASOURCE	UMS schema user for SOA domain	SOA27_UMS	
309	DB_SCHEMA_PASSWORD	Password for MDS schema user	welcome1	
310	DB_IP	i/p address of MDS db machine	10.180.84.113	
311	DB_PORT	Port of MDS db port	1521	
312	DB_SERVICE_NAME	Service Name of MDS user	P84113A	
313	HOST_SCHEMA_USER	OBP Host Database username	OBEPM27	
314	HOST_SCHEMA_PASSWORD	OBP Host Database password	welcome1	
315	HOST_DB_IP	OBP Host	10.180.84.113	

Sr.No	Name	Description	Example Value	Value
		Database i/p address		
316	HOST_DB_PORT	OBP Host Database port	1521	
317	HOST_DB_SERVICE_NAME	OBP Host Database service name	P84113A	
318	ONS_NODE	i/p address of ONS service	10.180.84.113	
319	ONS_PORT	Port of ONS service	6250	
320	OPSS_SOA_SCHEMA_USER	SOA OPSS Schema Name	SOA27_OPSS	
321	OPSS_SOA_AUDIT_DBDS	SOA OPSS AUDIT Schema name	SOA27_IAU_APPEND	
322	OPSS_SOA_AUDIT_VIEWDS	SOA OPSS AUDIT VIEWDS Schema name	SOA27_IAU_VIEWER	
323	OPSS_SOA_SCHEMA_PASSWORD	Password of OPSS_SOA_SCHEMA_USER	welcome1	
324	OPSS_SOA_DB_IP	i/p address of SOA OPSS DB.	10.180.84.113	
325	OPSS_SOA_DB_PORT	Port of SOA OPSS DB.	1521	
326	OPSS_SOA_DB_SERVICE_NAME	Service name of SOA OPSS DB.	P84113A	
327	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.112	
328	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
329	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen address	7002	
330	SOA_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
331	SOA_SERVER_LISTEN_PORT	Listen port of SOA server	8001	

Sr.No	Name	Description	Example Value	Value
332	SOA_SERVER_SSL_LISTEN_PORT	SSL Listen port of SOA server	8002	
333	HUMANTASK_SERVER_LISTEN_ADDRESS	Listen address of humantask server	10.180.84.112	
334	HUMANTASK_SERVER_LISTEN_PORT	Listen port of humantask server	9001	
335	HUMANTASK_SERVER_SSL_LISTEN_PORT	SSL listen port of humantask server	9002	
336	BAM_SERVER_LISTEN_ADDRESS	Listen address of BAM server	10.180.84.112	
337	BAM_SERVER_LISTEN_PORT	Listen port of BAM server	9003	
338	BAM_SERVER_SSL_LISTEN_PORT	SSL Listen port of BAM server	9004	
339	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	
340	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	7001	
341	HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of host managed server	10.180.84.110	
342	HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of host managed server	8001	
343	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
344	OID_IP	I/P address of the OID server.	10.180.84.113	
345	OID_PORT	Port of the OID process instance.	389	
346	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrator.	cn	

Sr.No	Name	Description	Example Value	Value
347	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	
348	OID_GROUP_DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
349	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	cn=Users,dc=in,dc=oracle,dc=com	
350	NODE_MGR_PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing weblogic node manager should be installed to listen on this port when the same is started	5556	
351	SOA_IP	i/p address of SOA server	10.180.84.112	
352	SOA_CLUSTER_NAME	Cluster name of SOA server	obpsoa_cluster1	
353	SOA_SERVER_NAME	Server name of SOA server	soa_server1	
354	HUMAN_TASK_CLUSTER_NAME	Cluster name of Humantask server	obphumantask_cluster1	
355	HUMAN_TASK_SERVER_NAME	Server name of Humantask server	obphumantask_server1	
356	SOA_TARGET	Target folder of SOA machine where files will be copied temporarily during	/scratch/install/target	

Sr.No	Name	Description	Example Value	Value
		installation		
357	SOA_JAVA_HOME	Refers to the home directory of java installation of the SOA machine. The version of java installed should be 1.8.0 or above. This is used to execute the OBP security policies policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
358	OUI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.8.0 . This is used for OBP patching.	/scratch/app/product/jdk1.8.0_101	
359	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/orainventory/	
360	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
361	UI_IP	i/p address of UI server	10.180.84.111	
362	UI_UNIX_USER	Linux login user id for UI server	ofssobp	
363	UI_DOMAIN_HOME	Full path of UI domain	/scratch/app/product/fmw/user_projects/domains/ui_domain	

Sr.No	Name	Description	Example Value	Value
364	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
365	SOA_ADMIN_JVM_PARAMS	SOA domain admin JVM startup parameters	-Xms1024m -Xmx2048m	
366	SOA_HUMANTASKSERVER_JVM_PARAMS	SOA domain human task server's JVM startup parameters	-Djbo.ampool. doampooling=false -Xms12g -Xmx12g -XX:NewSize=512m -XX:MaxNewSize=2048m -XX: +UseParNewGC -XX:+ CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http. maxRetryCount=1 -Dobp.http. .socketBufferSize=81	
367	SOA_MANAGED_JVM_PARAMS	SOA domain managed soa server's JVM startup parameters	-XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX: +CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Xms11g -Xmx11g	

Sr.No	Name	Description	Example Value	Value
368	KEYSTORE_PASSWORD	Password for generating certificate	welcome1	
369	UI_MANAGED_SERVER_LISTEN_ADDRESS	i/p address of UI Managed server	10.180.84.111	
370	UI_MANAGED_SERVER_LISTEN_PORT	Listen port of UI Managed server	8001	
371	UI_ADMIN_SERVER_LISTEN_ADDRESS	i/p address of UI Admin server	10.180.84.111	
372	UI_ADMIN_SERVER_LISTEN_PORT	Listen port of UI Admin server	7001	
373	DEFAULT_BANK_CODE	Default bank code will be set while configuring SOA domain	8	
374	DEFAULT_TRANSACTION_BRANCH_CODE	Default branch code will be set while configuring SOA domain	89999	
375	DEFAULT_TARGET_UNIT	Default target unit will be set while configuring SOA domain	OBP_BU	
346	CARD_USERNAME	Username of Card connector.	orakey	
377	CARD_PASSWORD	Password of Card connector	welcome1	
378	RULE_USERNAME	Username of Rule connector	orakey	
379	RULE_PASSWORD	Password of Rule connector	welcome1	
380	USER_TIMEZONE	Time zone entry	+5:30	
381	SOA_SSL_PASSWORD	Password for configuring SSL in SOA domain	welcome1	

Sr.No	Name	Description	Example Value	Value
382	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
383	BAM_INSTALLATION	During SOA installation value should be 'N' During BAM installation value should be Y.	N	
384	IPM_USERNAME	Username of IPM connector	ofssobp	
385	IPM_PASSWORD	Password of IPM connector	welcome1	
386	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Username of offline connector	offlineuser	
387	OFFLINE_CHANNEL_OUTBOUND_PASSWORD	Password of offline connector	welcome1	
388	FTP_IPM_USERNAME	Username of FTP_IPM connector	ofssobp	
389	FTP_IPM_PASSWORD	Password of FTP_IPM connector	ofssobp123	
390	FTP_IPM_BATCH_USERNAME	Username of FTP_IPM_BATCH connector	ofssobp	
391	FTP_IPM_BATCH_PASSWORD	Password of FTP_IPM_BATCH connector	ofssobp123	
392	SOA_OUTBOUND_USERNAME	Username of SOA connector	weblogic	
393	SOA_OUTBOUND_PASSWORD	Password of SOA connector	weblogic1	
394	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
395	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	

Sr.No	Name	Description	Example Value	Value
396	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/Oracle_ECM1	
397	BIP_SERVER_IP	I/P of the BIP server to host OBP reports	10.180.84.115	
398	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9502	
399	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
400	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	

2.3.2 Database and WebLogic Domain Configuration

The following table lists the other information which should be kept handy to make this installation easy.

Table 2–4 Oracle Banking Enterprise Product Manufacturing DB and WebLogic Domain Configuration

Sr. No.	Name	Description and Example	Value
UI and Host Linux user login details			
1.	UI / Presentation Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
2.	UI / Presentation Linux server user password	Password for the user specified against INSTALL_AS.	
3.	Host Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
4.	Host Linux server user password	Password for the user specified against INSTALL_AS.	
Database Details			
5.	IP address of the OBEPM Oracle DB server	10.180.90.30	
6.	Port of the OBEPM Oracle DB instance	1521	
7.	OBEPM DB Service Name	OBEPMDB	
8.	OBEPM DB sys	*****	

Sr. No.	Name	Description and Example	Value
	password		
9.	ONS NODE	10.180.90.30, Make sure ons service is started on DB.	
10.	ONS Port	6250	
Additional UI Install Checklist			
11.	Admin user id and password for the OBEPM UI domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
12.	List of port numbers for the OBEPM UI domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	
13.	Password for the key generated to establish trust between the OBEPM UI and Host.	Decide on the password to be used and note it. This is required for the post installation tasks of UI domain.	
14.	Password for keystore generated to establish trust.	Decide on the password to be used and note it. This is required for the post installation tasks UI domain.	
Additional Host Install Checklist			
15.	Admin user id and password for the OBEPM Host domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
16.	List of port numbers for the OBEPM Host domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	
17.	Password for the key generated to establish trust between the OBEPM UI and Host.	This is same as password in row 11. This is required for the post installation tasks of host domain.	
18.	Password for keystore generated to establish trust.	This is same as password in row 12. This is required for the post installation tasks of host domain.	

2.4 OID Schema Setup – Custom OBEPM Schema

This section describes the OID Schema setup which is a pre-installation configuration required for Oracle Banking Enterprise Product Manufacturing setup.

2.4.1 Prerequisite – OID setup

It is assumed that OID 12.2.1.3.0 is installed with ODSM and configured. We can thereafter proceed to the next step of setting up the OBP policy store. OID works better when installed on OEL. See [Section 2.1.2 Software Environment](#) for version information of the software products.

2.4.2 Verify the OID installation

This section describes the procedure to verify the OID installation.

2.4.2.1 Start and Verify the OID processes

Log in to the Linux console with user id `oracle`, navigate to the 'bin' directory of the OID instance and start the OID processes using the commands as follows:

For example, if the OID installation is in `/scratch/app/product/fmw/user_projects/domains/oid_domain/bin`

```
cd /scratch/app/product/fmw/user_projects/domains/oid_domain/bin
./startComponent.sh oid1
```

To start the OID, use `startComponent` script and pass the component name as a parameter. Before starting OID, make sure Admin Server and NodeManager are up and running.

2.4.2.2 OPSS/OID Performance Tuning

The following changes are required in OID before initiating OBEPM installation:

Parameters

Change the parameter values as provided below.

Table 2–5 Parameter Values to be Changed

Parameter Name	Value
orclmaxcc (Number of DB Connections per Server Process)	10
orclserverprocs (Number of OID LDAP Server Processes)	4
orclgeneratechangelog (Change log Generation)	0
orclldapconntimeout (LDAP Connection Timeout)	60
orclmatchdenabled (Enable MatchDN Processing)	0

Advanced OID tuning

The steps to perform advanced OID tuning are as follows:

1. Create a `.ldif` file with any name. For example, `tune.ldif`.
2. Enter the following information in that file and save it:

dn: cn=dsaconfig,cn=configsets,cn=oracle internet directory

changetype: modify

replace: orclecachemaxsize

orclecachemaxsize: 3g

-

replace: orclecachemaxentries

orclecachemaxentries: 500000

Sample tune.ldif file

dn: cn=oid1,cn=osldapd,cn=subconfigsubentry

changetype: modify

replace: orclserverprocs

orclserverprocs: 4

dn: cn=oid1,cn=osldapd,cn=subconfigsubentry

changetype: modify

replace: orclmaxcc

orclmaxcc: 10

dn: cn=oid1,cn=osldapd,cn=subconfigsubentry

changetype: modify

replace: orclgeneratechangelog

orclgeneratechangelog: 0

dn: cn=oid1,cn=osldapd,cn=subconfigsubentry

changetype: modify

replace: orclldapconntimeout

orclldapconntimeout: 60

dn: cn=oid1,cn=osldapd,cn=subconfigsubentry

changetype: modify

replace: orclmatchdenabled

orclmatchdenabled: 0

Refer OID tuning guide available at <https://docs.oracle.com/en/middleware/lifecycle/12.2.1.3/asper/oracle-internet-directory-performance-tuning.html#GUID-254611A2-0B71-4FBE-90D1-4D13A41B5F47>.

OPSS Tuning

The steps to perform advanced OPSS tuning are as follows:

1. IDM Database recommendations

- a. The following table presents the suggested values of parameters and alter scripts executed in system for which the user needs to change the parameters.

Table 2–6 Suggested values for Tuning and Alter Command

Sr. No.	DB Property Name	Suggested Value for Tuning	Alter Command
1	Process	1500	ALTER SYSTEM SET processes = 1500 SCOPE = spfile;
2	SGA Target	3G	ALTER SYSTEM SET sga_target = 3221225472 SCOPE = spfile;
3	Audit Trail	None	ALTER SYSTEM SET audit_sys_operations=FALSE SCOPE =SPFILE; ALTER SYSTEM SET audit_trail = NONE SCOPE = spfile;
4	Open Cursor	500	ALTER SYSTEM SET open_cursors = 500 SCOPE = spfile;
5	PGA_Aggregate_Target	1.5GB	ALTER SYSTEM SET pga_aggregate_target = 1610612736 SCOPE = spfile;
6	NLS Sort	Binary	ALTER SYSTEM SET nls_sort = BINARY SCOPE = spfile;
7	Filesystemio_Options	SETALL	ALTER SYSTEM SET filesystemio_options = SETALL SCOPE = spfile;
8	Fast_start_mttr_target	3600	ALTER SYSTEM SET fast_start_mttr_target = 3600 SCOPE = spfile;
9	db_securefile	ALWAYS	ALTER SYSTEM SET db_securefile = ALWAYS SCOPE = spfile;
10	Session_cached_cursors	500	ALTER SYSTEM SET session_cached_cursors = 500 SCOPE = spfile;
11	plsql_code_type	NATIVE	ALTER SYSTEM SET plsql_code_type = NATIVE SCOPE = spfile;
12	_b_tree_bitmap_plans	false	ALTER SYSTEM SET "_b_tree_bitmap_plans" = FALSE scope=spfile;
13	Memory_target	0	ALTER SYSTEM SET memory_target=0 SCOPE = SPFILE;

- b. Redo log file.

Allocated Disk Space for Redo Log Files

```
ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo01.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo02.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo03.log') SIZE 4G REUSE;
```

c. Undo tablespace.

Increase Disk Space Allocated for UNDO Tablespace

```
ALTER DATABASE DATAFILE '<oradata directory>/ORA4212/undotbs01.dbf'
RESIZE 20G NEXT 1G;
```

2. jps-config.xml (All servers of OBP-UI, OBP-Host, OBP-SOA domains)

- a. Remove the following properties from <serviceInstance name="pdp.service" provider="pdp.service.provider"> in jps_config.xml.

```
<property
name="oracle.security.jps.runtime.pd.client.policyDistri
butionMode" value="mixed"/>
<property
name="oracle.security.jps.runtime.instance.name"
value="OracleIDM"/>
<property name="oracle.security.jps.runtime.pd.client.sm_
name" value="OracleIDM"/>
<property
name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
```

- b. Add following properties:

<DOMAIN-HOME>/config/fmwconfig/jps-config.xml

```
<propertySet name="props.db.1">
<property name="authorization_cache_enabled"
value="true"/>
<property name="connection.pool.min.size" value="20"/>
<property name="connection.pool.max.size" value="40"/>
<property name="connection.pool.provider.type"
value="IDM"/>
<property name="connection.pool.timeout" value="300000"/>
<property name="connection.pool.provider.type"
value="5"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.t
ype" value="STATIC"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
trategy" value="NONE"/>
```

```
<property
name="oracle.security.jps.policystore.rolemember.cache.s
ize" value="100"/>
<property
name="oracle.security.jps.policystore.policy.lazy.load.e
nable" value="true"/>
<property
name="oracle.security.jps.policystore.policy.cache.strat
egy" value="NONE"/>
<property
name="oracle.security.jps.policystore.policy.cache.size"
value="1000000"/>
<property
name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
<property
name="oracle.security.jps.policystore.refresh.purge.time
out" value="43200000"/>
<property
name="oracle.security.jps.ldap.policystore.refresh.inter
val" value="6000000"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.w
armup.enable" value="true"/>
</propertySet>
```

- c. All the above properties should also be added in the <pdp.service> service-instance.

```
<serviceInstance name="pdp.service"
provider="pdp.service.provider">
<description>Runtime PDP service instance</description>
<property name="authorization_cache_enabled"
value="true"/>
<property name="connection.pool.min.size" value="20"/>
<property name="connection.pool.max.size" value="40"/>
<property name="connection.pool.provider.type"
value="IDM"/>
<property name="connection.pool.timeout" value="300000"/>
<property name="connection.pool.provider.type"
value="5"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.t
ype" value="STATIC"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
trategy" value="NONE"/>
<property
```

```

name="oracle.security.jps.policystore.rolemember.cache.size" value="100"/>
<property
name="oracle.security.jps.policystore.policy.lazy.load.enable" value="true"/>
<property
name="oracle.security.jps.policystore.policy.cache.strategy" value="NONE"/>
<property
name="oracle.security.jps.policystore.policy.cache.size" value="1000000"/>
<property
name="oracle.security.jps.policystore.refresh.enable" value="true"/>
<property
name="oracle.security.jps.policystore.refresh.purge.timeout" value="43200000"/>
<property
name="oracle.security.jps.ldap.policystore.refresh.interval" value="6000000"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.warmup.enable" value="true"/>
</serviceInstance>

```

3. adf-config.xml (optional)

In adf-config.xml, maintain **authorizationEnforce="true"**

4. setDomainEnv.sh

In setDomainEnv.sh file, include the following java properties. These are absolutely necessary, if authorizationEnforce = true (previous point).

Table 2–7 Properties

Property	Description
-Djps.combiner.optimize=true	This system property is used to cache the protection domains for a given subject. Setting – <code>Djps.combiner.optimize=true</code> can improve Java authorization performance.
-Djps.combiner.optimize.lazyeval=true	This system property is used to evaluate a subject's protection domain when a checkPermission occurs. Setting – <code>Djps.combiner.optimize.lazyeval=true</code> can improve Java authorization performance.
-Djps.policystore.hybrid.mode=false	This 'hybrid mode' property is used to facilitate transition from SUN java.security.Policy to OPSS Java Policy Provider.

Property	Description
-Djps.authz=ACC	Delegates the call to JDK API AccessController.checkPermission which can reduce the performance impact at run time or while debugging.
DUSE_JAAS=false	
Djps.auth=ACC	Delegates the call to JDK API AccessController.checkPermission which can reduce the performance impact at run time or while debugging
Djps.auth.debug=false	Turn off debugging. This is turned on to debug access denied errors.
Djps.subject.cache.key=5	JPS uses a Subject Resolver to convert a platform subject to JpsSubject which contains user/enterprise-role information, as well as ApplicationRole information. This information is represented as principals in the subject. Value = 5: Instead of using the whole subject as the key, this settings uses a subset of the principal set inside the subject as the key (actually use principals of WLSUserImpl type). This setting will accelerate the cache retrieval operation if the subject has a large principal set.
Djps.subject.cache.ttl=600000	Cache's Time To Live (TTL) for case '5' (above). This system property controls how long the cache is valid. When the time expired, the cached value is dumped. The setting can be controlled by the flag of -Djps.subject.cache.ttl=xxxx, where 'xxx' is the duration in milliseconds. Consider setting the duration of this TTL setting to the same value as the value used for the group and user cache TTL in WLS LDAP authenticator.

Example:

```

JAVA_PROPERTIES="-Djps.combiner.optimize=true -
Djps.combiner.optimize.lazyeval=true -Djps.policystore.hybrid.mode=false
-Djps.authz=ACC ${JAVA_PROPERTIES} ${WLP_JAVA_PROPERTIES}"
export JAVA_PROPERTIES

```

2.4.2.3 Import OBEPM Specific LDIF files

If OIM (Oracle Identity Manager) is installed as the user provisioning product, use the ldif files from the location <HOST_TARGET>. These ldif files do not contain any predefined users and roles other than some crucial system users that are needed during startup. The privileges of these users are contained. OIM is used for creation of first user in OBEPM.

If OIM is not part of the ecosystem and an initial sanity test of the OBEPM installation is needed, the sample ldif files present at the location<HOST_TARGET> can be used for creation of Users and Groups. These sample files can be used directly or can be modified as per requirements. In production after initial verification these users have to be removed.

Note

Ensure that 'ldapadd' and 'ldapmodify' are available on the machine.

1. Extract the 'host.zip' to obtain 'obpinstall-host.zip'. It contains ldif.zip and sampleLdif.zip.
2. Extract ldif.zip. It will create a folder named ldif with ldif files or extract sampleLdif.zip, which will create a folder named ldif, with ldif files as follows:
 - fcPerson.ldif
 - obp_ou.ldif
 - jpsroot.ldif
 - Users.ldif
 - Groups.ldif
 - WebLogic.ldif
 - Administrators.ldif
3. These are to be used and updated in the OID if necessary. The execution commands for uploading these LDIF files are given below. The execution order must be maintained as described.

Table 2–8 Order of Execution

Sr. No.	LDIF File Name	Description
1	fcPerson	Creates fcPerson object class
2	obp_ou	Creates obp user Users
3	Jpsroot	Creates jpsroot and jpscontext
4	Users	Creates OFSSUser
5	Groups	Creates OFSS_Role and offlinerole
6	WebLogic	Creates WebLogic user
7	Administrators	Creates Administrators Group

4. DNS should be changed as per the requirement of the bank in the LDIF files for:
 - Users
 - Groups
 - WebLogic
 - Administrators

Note

While executing fcPerson.ldif, “value already exist” problem may appear in console.

For this problem, the objectClasses value is required to be changed.

It can be found, at the end of the file as:

```
"add:objectClasses  
objectClasses:(2.5.6.47"
```

To resolve this problem, change the value (default, it is 2.5.6.47) of object classes, then run it again.

5. Before executing the following commands, navigate to the location where the LDIF files reside (that is, inside LDIF folder) in Host machine, where OpenLDAP has been installed as mentioned in prerequisite section.

ldapadd fcPerson.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
fcPerson.ldif
```

ldapadd obp_ou.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
obp_ou.ldif
```

ldapadd jpsroot.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
jpsroot.ldif
```

ldapadd Users.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
Users.ldif
```

ldapadd Groups.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
Groups.ldif
```

ldapadd WebLogic.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
Weblogic.ldif
```

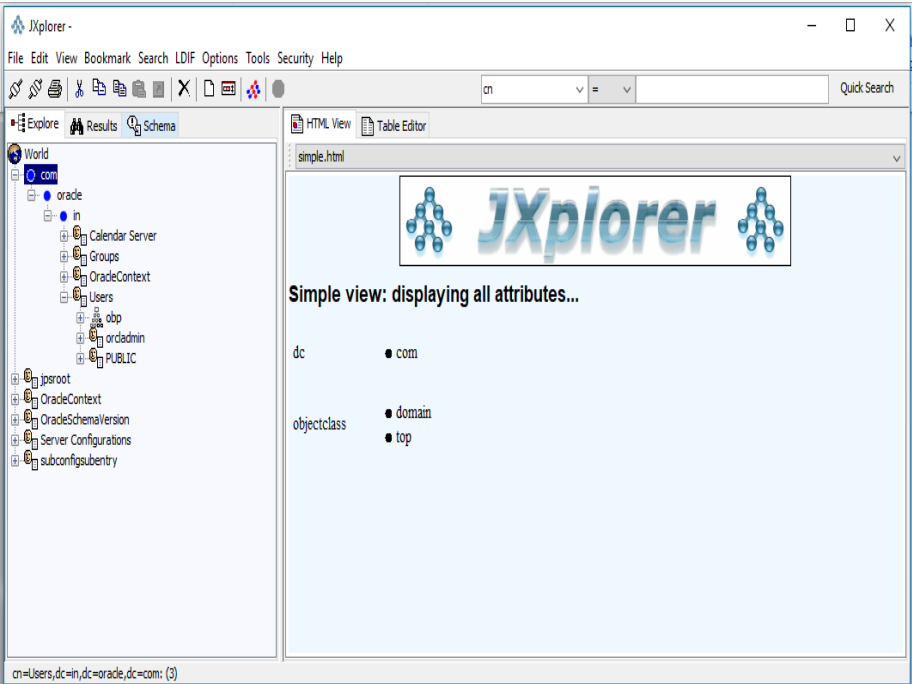
ldapadd Administrators.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f  
Administrators.ldif
```

2.4.2.4 Verify the import using ODSM or JXplorer

The import of Oracle Banking Enterprise Product Manufacturing specific LDIF files can be verified using JXplorer.

Figure 2–3 JXplorer



3 Oracle Banking Enterprise Product Manufacturing SOA Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Product Manufacturing SOA (Integration Server) Media pack. The subsequent section refers to the variable names specified in [Section 2.3 Installation Checklist](#).

3.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Enterprise Product Manufacturing SOA Media Pack.

3.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Enterprise Product Manufacturing SOA Media Pack installation.

Step 1 Procuring Installables

Download the appropriate SOA media pack from the following location:

<http://edelivery.oracle.com/>

Step 2 Extracting the Installables

Copy the 'soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'soa.zip'. Three files will be extracted:

- A zip file 'obpinstall-soa.zip'
- The installation script 'installobpsa.sh'
- The install configuration property file 'installobpsa.properties'

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3 Installation Checklist](#) of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

3.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Enterprise Product Manufacturing SOA Media Pack installation.

Step 1 Updating installobpsa.properties

Navigate to the directory where the files obpinstall-soa.zip, installobpsa.sh and installobpsa.properties are placed and update installobpsa.properties with relevant values from the checklist.

Step 2 Checklist for a new setup

Before initiating installation, check the following:

- Make sure that the required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBEPM Database Setup – RCU Installation](#).
- Increase the size of tablespace (at least 4GB and the auto extend mode must be on) for MDS, SOAINFRA and OPSS schema used for SOA domain.
- Node manager must not be running on the target machine.
- Create a dummy folder named target and mention its path against SOA_TARGET property.
- Values given in installobpui.properties must be correct. At run time, no option is given to change the values.
- No processes should be running on the ports given in installobpsoa.properties.
- In case of a re-installation ensure that the directory paths against SOA_TARGET and SOA_MW_HOME specified in installobpsoa.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- Before initiating the installation, ensure that all the values given in installobpsoa.properties are correct. At the time of installation, the values will only be displayed once for verification, and it will not be possible to change the values once the installation begins.

Step 3 OS Level Tuning

OBEPM libraries are usually copied on an NFS mount. During startup a lot of time is spent fetching these libraries for classloading and resource loading. The last access time on the files gets imprinted on the file metadata, which actually incurs a WRITE. Since, this is over NFS, this has a performance impact.

The mount points should be mounted using the "noatime" flag to disable updating the access time. This is a recommended parameter as per FMW MAA shared storage WP.

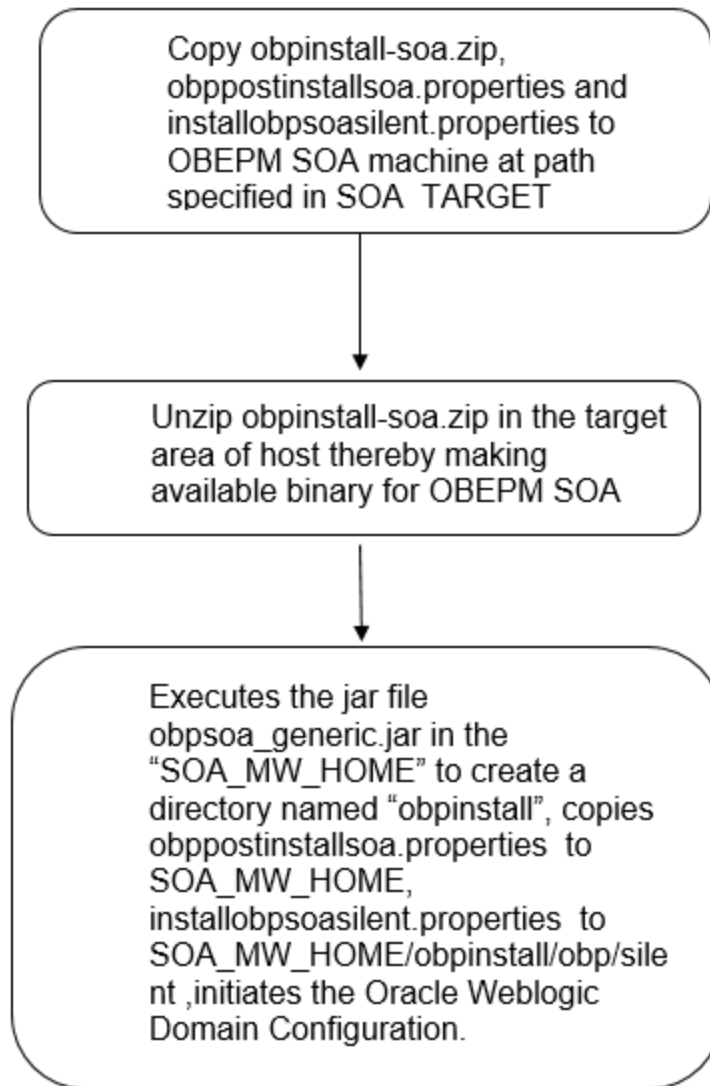
For more information, see Page 12 of the following document:

<http://www.oracle.com/technetwork/database/availability/maa-fmwsharedstoragebestpractices-402094.pdf>

3.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Platform SOA Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobpsoa.sh. The installation script shall echo the values entered in the installobpsoa.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 3–1 Steps in installobpsoa.sh script

A sample output is given here.

./installobpsoa.sh

Figure 3–2 Verification of Properties

```

[ofssobp@mum00bjc install]$ ./installobpsa.sh
The present working directory is /scratch/install. It is assumed that all installables are present in this directory.
Printing the information entered above
SILENT_INSTALL                : y
LOCAL_IP                      : 10.180.57.23
LOCAL_DISPLAY_VALUE           : 0.0
DOMAIN_NAME                   : base_domain
DOMAIN_DIRECTORY_LOCATION     : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME             : weblogic
WEBLOGIC_PASSWORD             : weblogic1
MDS_SCHEMA_USER               : PMUSOA_MDS
SOA_INFRASTRUCTURE_SCHEMA_USER : PMUSOA_SOAINFRA
DB_SCHEMA_PASSWORD            : welcome1
DB_IP                         : 10.180.34.177
DB_PORT                       : 1521
DB_SERVICE_NAME               : P34177A
HOST_SCHEMA_USER              : MPOBEPM
HOST_SCHEMA_PASSWORD          : welcome1
HOST_DB_IP                    : 10.180.34.177
HOST_DB_PORT                  : 1521
HOST_DB_SERVICE_NAME          : P34177A
ADMIN_SERVER_LISTEN_ADDRESS   : 10.180.35.214
ADMIN_SERVER_LISTEN_PORT     : 7001
ADMIN_SERVER_SSL_LISTEN_PORT  : 7002
SOA_SERVER_LISTEN_ADDRESS     : 10.180.35.214
SOA_SERVER_LISTEN_PORT       : 8001
SOA_SERVER_SSL_LISTEN_PORT    : 8002
HUMANTASK_SERVER_LISTEN_ADDRESS : 10.180.35.214
HUMANTASK_SERVER_LISTEN_PORT  : 9001
HUMANTASK_SERVER_SSL_LISTEN_PORT : 9002
BAM_SERVER_LISTEN_ADDRESS     : 10.180.35.214
BAM_SERVER_LISTEN_PORT       : 9003
BAM_SERVER_SSL_LISTEN_PORT    : 9004
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.34.124
HOST_MANAGED_SERVER_LISTEN_PORT : 8001
LDAP_PROVIDER                 : OID
OID_IP                        : 10.180.34.177

```

Figure 3–3 Verification of Properties

```

OID_IP                        : 10.180.34.177
OID_PORT                     : 3060
OID_ADMIN_USER               : cn=orcladmin
OID_ADMIN_PWD                : welcome1
OID_GROUP_DSN                : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                 : ou=obp,cn=Users,dc=in,dc=oracle,dc=com
OPSS_SOA_SCHEMA_USER         : PMUSOA_OPSS
OPSS_SOA_SCHEMA_PASSWORD     : welcome1
OPSS_SOA_DB_IP               : 10.180.34.177
OPSS_SOA_DB_PORT             : 1521
OPSS_SOA_DB_SERVICE_NAME     : P34177A
NODE_MGR_PORT                : 5556
SOA_IP                       : 10.180.35.214
SOA_CLUSTER_NAME             : obpsa_cluster1
SOA_SERVER_NAME              : soa_server1
HUMAN_TASK_CLUSTER_NAME      : obphumantask_cluster1
HUMAN_TASK_SERVER_NAME       : obphumantask_server1
SOA_TARGET                   : /scratch/install/target
SOA_JAVA_HOME                 : /scratch/app/product/jdk1.8.0_172
OUT_JAVA_HOME                 : /scratch/app/product/jdk1.8.0_172
CENTRAL_INVENTORY_LOC        : /scratch/app/orainventory/
SOA_MW_HOME                   : /scratch/app/product/fmw
UI_IP                        : 10.180.34.169
UI_UNIX_USER                  : ofssobp
UI_DOMAIN_HOME               : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                   : ofssobp
SOA_ADMIN_JVM_PARAMS          : -Xms2g -Xmx2g
SOA_MANAGED_JVM_PARAMS        : -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSwe
epGC -XX:CMSInitiatingOccupancyFraction=75 -Xms11g -Xmx11g
SOA_HUMANTASKSERVER_JVM_PARAMS : -Djbo.ampool.doampooling=false -Xms12g -Xmx12g -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX
:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=
8192 -Dobp.http.maxConnectionsPerHost=20 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.connectionTimeout=600000
-Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=true
KEYSTORE_PASSWORD            : welcome1
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.34.169
UI_MANAGED_SERVER_LISTEN_PORT : 8001
DEFAULT_BANK_CODE             : 08

```

Figure 3–4 Confirmation to Proceed Domain Installation

```

DEFAULT_BANK_CODE           : 08
DEFAULT_TRANSACTION_BRANCH_CODE : 089999
DEFAULT_TARGET_UNIT         : OBP_BU
CARD_USERNAME               : orakey
CARD_PASSWORD               : welcome1
RULE_USERNAME               : orakey
RULE_PASSWORD               : welcome1
USER_TIMEZONE               : +5:30
SOA_SSL_PASSWORD            : welcome1
REMOTE_EXECUTION             : Y
BAM_INSTALLATION             : N
IPM_USERNAME                 : weblogic
IPM_PASSWORD                 : weblogic1
FTP_IPM_USERNAME             : ofssobp
FTP_IPM_PASSWORD             : ofssobp123
FTP_IPM_BATCH_USERNAME       : ofssobp
FTP_IPM_BATCH_PASSWORD       : ofssobp123
IPM_HOME                     : /scratch/app/product/fmw/wccontent
IPM_SERVER_IP                : 10.180.34.117
BIP_SERVER_IP                : 10.180.35.26
BIP_SERVER_PORT              : 9502
BIP_UNIX_USER                : ofssobp
BIP_HOME                     : /scratch/app/product/fmw/obi/bi

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.

```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 3–5 Copying and Extraction of obpinstall-soa.zip

```

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.
The authenticity of host '10.180.85.159 (10.180.85.159)' can't be established.
ECDSA key fingerprint is dc:11:29:24:4c:e0:17:08:45:ad:6b:b0:b8:ac:1b:4a.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.180.85.159' (ECDSA) to the list of known hosts.
ofssobp@10.180.85.159's password:
obpinstall-soa.zip                               100% 357MB 178.6MB/s 00:02
installobpsosilent.properties                   100% 1551 1.5KB/s 00:00
The configuration of OBP SOA domain shall begin immediately thereafter.
ofssobp@10.180.85.159's password:
Archive: /scratch/install/target/obpinstall-soa.zip
  inflating: /scratch/install/target/obpsoa_generic.jar
  inflating: /scratch/install/target/installdomain.sh
  inflating: /scratch/install/target/installdomain_silent.sh
  inflating: /scratch/install/target/obp-soa-post-install.sh
  inflating: /scratch/install/target/obp-soa-post-install.py
  inflating: /scratch/install/target/update-syncMaxTimeWait.py
  inflating: /scratch/install/target/deployProcesses.py
  inflating: /scratch/install/target/bam.sh
  inflating: /scratch/install/target/metadataSOAUpdate.sh
  inflating: /scratch/install/target/encryptPassword.py
  inflating: /scratch/install/target/docutils-0.12.tar.gz
  inflating: /scratch/install/target/JPyepel-0.5.7.tar.gz
  inflating: /scratch/install/target/PyYAML-3.11.tar.gz
  inflating: /scratch/install/target/SOAPpy-0.12.5.tar.gz
  inflating: /scratch/install/target/suds-0.4.tar.gz
  inflating: /scratch/install/target/wstools-0.4.3.tar.gz
  extracting: /scratch/install/target/bam.zip
  inflating: /scratch/install/target/bpel-config.xml.xml
  inflating: /scratch/install/target/Plan.xml.tpl
  inflating: /scratch/install/target/BAMCommandConfig.xml.tpl
-> /scratch/app/product/jdk1.8.0_101/bin/java -jar /scratch/install/target/obpsoa_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpinstall
INVENTORY_LOCATION=/scratch/app/orainventory/

```

Figure 3–6 Copying and Extraction of obpininstall-soa.zip

```
INVENTORY_LOCATION=/scratch/app/orainventory/
Launcher log file is /tmp/OraInstall2018-05-03_02-59-31PM/launcher2018-05-03_02-59-31PM.log.
Extracting files.....
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz.    Actual 2693.561 MHz    Passed
Checking swap space: must be greater than 512 MB.    Actual 23790572 MB    Passed
Checking if this platform requires a 64-bit JVM.    Actual 64    Passed (64-bit not required)
Checking temp space: must be greater than 300 MB.    Actual 30364 MB    Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2018-05-03_02-59-31PM
Installation Summary

Disk Space : Required 1,338 MB, Available 650,535 MB
Feature Sets to Install:
  OBP SOA Server FeatureSet 2.6.2.0.0
  Next Generation Install Core 13.2.0.0.0
  OPatch 13.2.0.0.0

You can find the log of this install session at:
  /tmp/OraInstall2018-05-03_02-59-31PM/install2018-05-03_02-59-31PM.log

Loading products list. Please wait.
..... 1%
..... 40%

Loading products. Please wait.
..... 44%
..... 47%
..... 50%
..... 53%
..... 56%
..... 60%
..... 63%
```

Figure 3–7 Copying and Extraction of obpininstall-soa.zip

```
..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 89%
..... 93%
..... 96%
..... 99%

..... 23% Done.
..... 46% Done.
..... 70% Done.

Installation in progress (Thursday, May 3, 2018 2:59:53 PM IST)
74% Done.

Install successful

Linking in progress (Thursday, May 3, 2018 2:59:53 PM IST)
Link successful

Setup in progress (Thursday, May 3, 2018 2:59:53 PM IST)
Setup successful

Saving inventory (Thursday, May 3, 2018 2:59:53 PM IST)
Saving inventory complete
Configuration complete

End of install phases.(Thursday, May 3, 2018 2:59:53 PM IST)
Logs successfully copied to /scratch/app/orainventory/logs.

Initializing WebLogic Scripting Tool (WLST) ...

Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.
```

Figure 3–8 Domain Creation Confirmation

```
Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Error: No domain or domain template has been read.
Error: No domain or domain template has been read.
Read domain /scratch/app/product/fmw/user_projects/domains/base_domain to applyJRF
Target JRF components to "obpsoa.cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/base_domain/config/fmwconfig/servers/soa_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/base_domain in offline mode
Target JRF components to "obphumantask.cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/base_domain/config/fmwconfig/servers/obphumantask_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/base_domain in offline mode
Domain created successfully
[ofssobp@mum00abp soa]$
```

3.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Enterprise Product Manufacturing SOA Media Pack.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for SOA, ensure the following:

- Create a backup of the existing file `setStartupEnv.sh`, and rename `setStartupEnvSOA.sh` to `setStartupEnv.sh`. This file is present at `<middleware home>/user_projects/domains/obpsoadomain/bin`.
- Replace `/scratch/app/product/fmw` path with your middleware home path.
- Node manager is not running on the SOA machine.
- All values in `obppostinstallsoa.properties` are correct
- `OID_DOMAIN_NAME` given in `obppostinstallsoa.properties` must not exist.
- Node manager port should be free. You can verify using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

Post Installation Configuration

1. Start the Oracle Banking Enterprise Product Manufacturing SOA domain admin WebLogic server by executing the `startWebLogic.sh` script in the domain directory.

```
cd <middleware home>
cd user_projects/domains/obpsoadomain/bin
./startWebLogic.sh
```

2. Enter the username and password when prompted.
3. Start the managed server – `soa_server1`.

```
cd <middleware home>
cd user_projects/domains/obpsoadomain/bin
./startManagedWebLogic.sh soa_server1 t3://localhost:<admin_server_port>
```

Note

Do not run the post-install as soon as SOA server comes up.

Wait until it loads all the processes and displays the message *SOA platform is running and accepting requests*.

Initiate post-install after getting this message in the console.

4. Once the SOA admin and managed servers are running, execute the post install script '`obp-soa-post-install.sh`' created under middleware directory just like other domains.
5. Navigate to the middleware location and give executable permission to the post install script:

3.2 Post Installation Configuration

```
$cd <soa middleware home>
```

Then execute following script:

```
$. /obp-soa-post-install.sh
```

A sample output is given here:

Figure 3–9 Starting Post Installation

```
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...
The authenticity of host '10.180.6.143 (10.180.6.143)' can't be established.
RSA key fingerprint is 36:d8:2d:c8:3f:d1:c3:4e:cd:38:f7:19:48:be:33:8c.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.180.6.143' (RSA) to the list of known hosts.
ofssobp@10.180.6.143's password:
i18nAPI v3.jar                                100% 904KB 904.4KB/s 00:00
i18nAPI v3.jar copied from BIP machine
ofssobp@10.180.6.143's password:
xdcore.jar                                    100% 9060KB 8.9MB/s 00:00
xdcore.jar copied from BIP machine
ofssobp@10.180.6.143's password:
versioninfo.jar                              100% 6204KB 6.1MB/s 00:00
versioninfo.jar copied from BIP machine
ofssobp@10.180.6.143's password:
imaging-client.jar                           100% 863KB 863.3KB/s 00:00
imaging-client.jar copied from IPM machine
ofssobp@10.180.6.143's password:
oracle.ucm.ridc-11.1.1.jar                   100% 619KB 618.9KB/s 00:00
oracle.ucm.ridc-11.1.1.jar copied from IPM machine
base_domain
*****
** Setting up SOA specific environment...
*****
EXTRA_JAVA_PROPERTIES= -da:org.apache.xmlbeans...
LD_LIBRARY_PATH=:/scratch/app/product/fmw/wlserver/server/native/linux/x86_64:/scratch/app/product/fmw/wlserver/server/native/linux/x86_64/oci920_8
:
*****
** End SOA specific environment setup
*****
Logging MLS stderr to /scratch/app/product/fmw/user_projects/domains/base_domain/servers/AdminServer/stderr.log
Verifying OBP ORACLE_HOME /scratch/app/product/fmw/obpinstall/obp
Buildfile: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/replace.xml
```

Figure 3–10 Starting Post Installation (contd)

```
Buildfile: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/replace.xml
replace:
[unzip] Expanding: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/Metadata_soa.zip into /scratch/app/product/fmw/obpinstall/obp/o
b.soa.process/metadata/metadata
[unjar] Expanding: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar into /scratch/app/product/fmw/obpi
ninstall/obp/ob.soa.process/metadata/metadata/sharedResources
[delete] Deleting: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar
[jar] Building jar: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar
[zip] Building zip: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/Metadata_updated.zip
[delete] Deleting directory /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata
BUILD SUCCESSFUL
Total time: 10 seconds
Archive: BPELRecoveryConfig.zip
  inflating: recoveryconfig.sh
  inflating: BPELRecoveryConfig.jar
50
Updating RecurringScheduleConfig.maxMessageRaiseSize from 50 to 0
Updating StartupScheduleConfig.maxMessageRaiseSize from 50 to 0
javax.management.openbean.CompositeDataSupport(compositeType=javax.management.openbean.CompositeType(name=RecurringScheduleConfig,items=((itemName=m
axMessageRaiseSize,itemType=javax.management.openbean.SimpleType(name=java.lang.Integer)),(itemName=startWindowTime,itemType=javax.management.openbea
n.SimpleType(name=java.lang.String)),(itemName=stopWindowTime,itemType=javax.management.openbean.SimpleType(name=java.lang.String)),(itemName=subseq
uentTriggerDelay,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)),(itemName=thresholdTimeInMinutes,itemType=javax.management.open
mbean.SimpleType(name=java.lang.Integer)))),contents={maxMessageRaiseSize=0, startWindowTime=00:00, stopWindowTime=23:59, subsequentTriggerDelay=300,
thresholdTimeInMinutes=10})
null
javax.management.openbean.CompositeDataSupport(compositeType=javax.management.openbean.CompositeType(name=RecoveryConfig,items=((itemName=ClusterCon
fig,itemType=javax.management.openbean.CompositeType(name=ClusterConfig,items=((itemName=ClusterDbTimeRefresh,itemType=javax.management.openbean.Sim
pleType(name=java.lang.Long)),(itemName=heartBeatInterval,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)),(itemName=masteAliveThr
eshold,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)),(itemName=nodeReapInterval,itemType=javax.management.openbean.SimpleType(
name=java.lang.Long)),(itemName=nodeReapThreshold,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)))),(itemName=RecurringScheduleC
onfig,itemType=javax.management.openbean.CompositeType(name=RecurringScheduleConfig,items=((itemName=maxMessageRaiseSize,itemType=javax.management.op
enbean.SimpleType(name=java.lang.Integer)),(itemName=startWindowTime,itemType=javax.management.openbean.SimpleType(name=java.lang.String)),(itemName
=stopWindowTime,itemType=javax.management.openbean.SimpleType(name=java.lang.String)),(itemName=subsequentTriggerDelay,itemType=javax.management.open
mbean.SimpleType(name=java.lang.Long)),(itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.SimpleType(name=java.lang.Integer))))),i
temName=StartupScheduleConfig,itemType=javax.management.openbean.CompositeType(name=StartupScheduleConfig,items=((itemName=maxMessageRaiseSize,itemType
```

Figure 3–11 SOA Post Installation Completion

```

[java]          </column>
[java]          <operator>IN</operator>
[java]          <valueList>
[java]            <value>http://process.workflow.fc.ofss.com/PerformSettlement/PerformSettlementProcess</value>
[java]            <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementInstructionSpi_ConfirmSkipSettleInstructions/
HT_SettlementInstructionSpi_ConfirmSkipSettleInstructions</value>
[java]            <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementInstructionSpi_SubmitSettlementInstruction/HT
SettlementInstructionSpi_SubmitSettlementInstruction</value>
[java]            <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementPayoutSpi_DisburseFunds/HT_SettlementPayoutSp
i_DisburseFunds</value>
[java]          </valueList>
[java]        </clause>
[java]      </predicate>
[java]    </viewPredicate>
[java]    <viewOrdering>
[java]      <clause xmlns="http://xmlns.oracle.com/bpel/workflow/taskQuery">
[java]        <column>createdDate</column>
[java]        <sortOrder>ASCENDING</sortOrder>
[java]        <nullFirst>false</nullFirst>
[java]      </clause>
[java]    </viewOrdering>
[java]    <grantees>
[java]      <grantee type="GROUP" grantType="SHARE_DEFINITION">
[java]        <realm xmlns="http://xmlns.oracle.com/bpel/workflow/common">jazn.com</realm>
[java]        <name xmlns="http://xmlns.oracle.com/bpel/workflow/common">Administrators</name>
[java]      </grantee>
[java]    </grantees>
[java]  </userViewDetail>
[java]
[java] [SUCCESS] :: createUserTaskView succeeded for viewName: Settled

BUILD SUCCESSFUL
Total time: 4 seconds
Certificate stored in file <mum00abp.in.oracle.com.cer>
Certificate was added to keystore
Certificate was added to keystore
[ofssobp@mum00abp fmw]$

```

6. For monitoring the script run, check the following log files created under the SOA domain directory:

```

deploy-composite-SOA-WLST.log
post-obp-SOA-WLST.log
post-soa-GrantAndPolicySet-log.log
post-soa-taskflow-grants.log
update-syncMaxTimeWait.log
obp-soa-install-log.txt

```


4 Oracle Banking Enterprise Product Manufacturing Host Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Product Manufacturing Host Media pack. The subsequent section refers to the variable names specified in [Section 2.3 Installation Checklist](#).

4.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Enterprise Product Manufacturing Host Media Pack.

4.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Enterprise Product Manufacturing Host Media Pack installation.

Step 1 Procuring Installables

Download the appropriate host media pack from the following location:

<http://edelivery.oracle.com/>

Step 2 Extracting the Installables

Copy the 'host.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'host.zip'. Four files will be extracted:

- A zip file 'obpininstall-host.zip'
- The installation script 'installobphost.sh'
- The install configuration property file 'installobphost.properties'
- A zip file 'em_monitor.zip' that is used for monitoring (For more information, see [Chapter 9 Monitoring Servers Using Oracle Enterprise Manager](#)).

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3 Installation Checklist](#) of this guide and note the values applicable for each point in the last column for "Value" so that the same is handy during the actual installation.

4.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Enterprise Product Manufacturing Host Media Pack installation. The procedure can be started after UI pre-installation steps are executed.

Step 1 Updating installobphost.properties

Navigate to the directory where the files obpininstall-host.zip, installobphost.sh and installobphost.properties are placed and update installobphost.properties with relevant values from the checklist.

Step 2 Checklist for a new setup

Before initiating installation on a completely new setup, check the following:

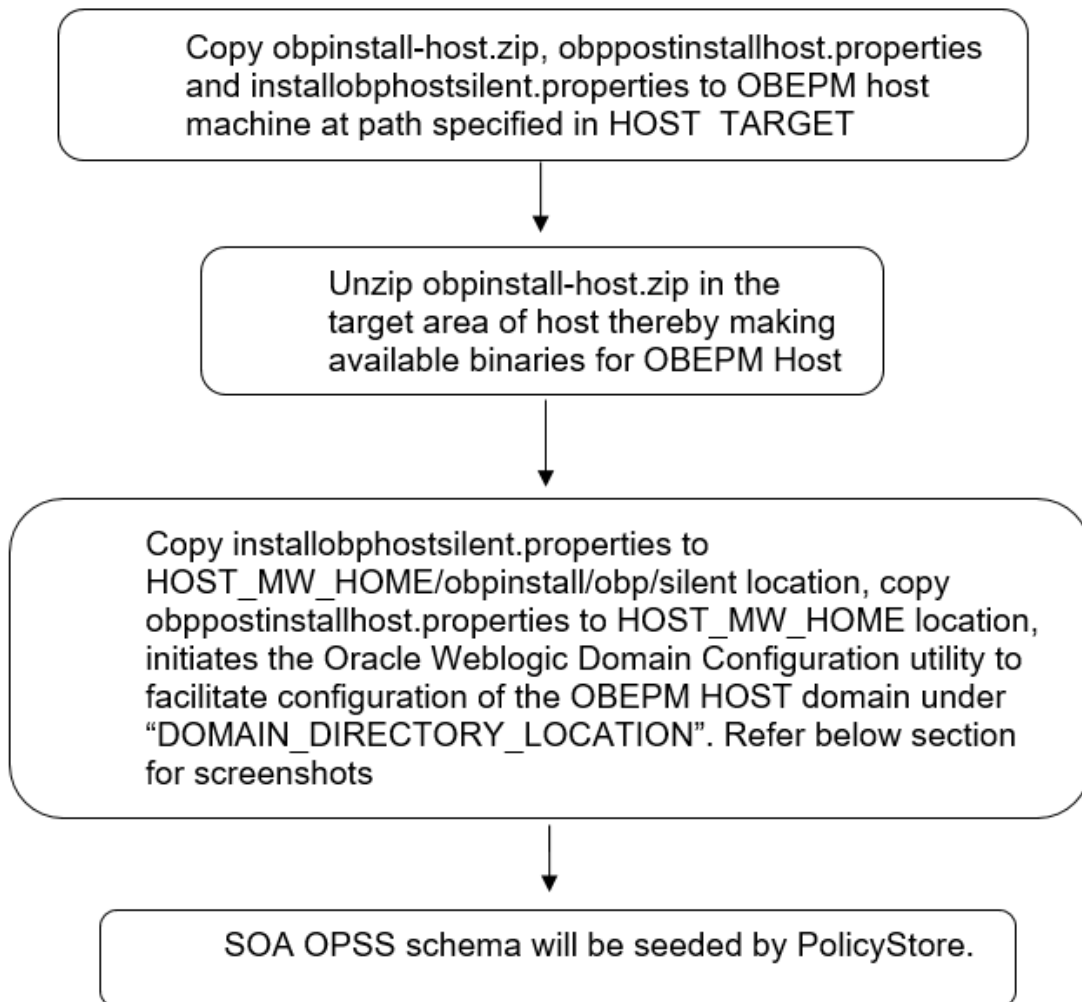
- Make sure that the required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBEPM Database Setup – RCU Installation](#).
- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against HOST_TARGET property.
- In case of re-installation ensure that the directory paths against DOMAIN_DIRECTORY_LOCATION, HOST_TARGET and HOST_MW_HOME specified in installobphost.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the port in HOST machine given in installobphost.properties.
- Values in installobphost.properties must be correct. At run time no option is given to change them.
- No other schema should exist in db with the same prefix as HOST_DB_SCHEMA_PREFIX specified in installobphost.properties. OBP_HOST_DB_USER should be given on the basis of HOST_DB_SCHEMA_PREFIX.

For example, if HOST_DB_SCHEMA_PREFIX is DEV, then OBP_HOST_DB_USER should be DEV_OBP.
- OID_DOMAIN_NAME in installobphost.properties should match with the OID_DOMAIN_NAME given in installobpui.properties. Any other domain with the same name must not exist in OID. The domain in OID will be created in host pre-install.
- The following schemas are manually created prior to installation and are available for updation in the checklist:
 - OBP_HOST_DB_USER (by RCU)
- MDS_HOST_DB_USER as updated in installobphost.properties and MDS_SCHEMA_USER as updated in installobpui.properties should point to the same MDS db schema.

4.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Platform Host Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobphost.sh. The installation script shall echo the values entered in the installobpui.properties file and ask for confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 4–1 Steps in installobphost.sh script

A sample output is given here.

Figure 4–2 Verification of Properties

```

/scratch/install/host
[ofssobp@mum00adh host]$ ./installobphost.sh
The present working directory is /scratch/install/host. It is assumed that all installables are present in this directory.
Printing the information:
SILENT_INSTALL                : Y
OID_FARM_AND_POLICY_SEEDING_FLAG : Y
BIP_REPORTS_UPLOADING_FLAG    : Y
LOCAL_IP                      : 10.180.85.195
LOCAL_DISPLAY_VALUE           : 0.0
DOMAIN_NAME                   : host_domain
DOMAIN_DIRECTORY_LOCATION     : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME             : weblogic
WEBLOGIC_PASSWORD             : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS   : 10.180.85.195
ADMIN_SERVER_LISTEN_PORT      : 7001
ADMIN_SERVER_SSL_LISTEN_PORT  : 7002
MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.195
MANAGED_SERVER_LISTEN_PORT    : 8001
MANAGED_SERVER_SSL_LISTEN_PORT : 8002
LDAP_PROVIDER                 : OID
OID_IP                        : 10.180.87.84
OID_ADMIN_USER                : cn=orcladmin
OID_ADMIN_PWD                  : welcome1
OID_GROUP_DSN                  : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                   : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT                  : 5556
HOST_SERVER_NAME               : obphost_server1
HOST_CLUSTER_NAME              : obphost_cluster1
HOST_IP                        : 10.180.85.195
HOST_TARGET                    : /scratch/install/target
HOST_JAVA_HOME                 : /scratch/app/product/jdk1.8.0_101
OUI_JAVA_HOME                  : /scratch/app/product/jdk1.8.0_101
CENTRAL_INVENTORY_LOC         : /scratch/app/oraInventory
HOST_MW_HOME                   : /scratch/app/product/fmw
UI_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.196
UI_ADMIN_SERVER_LISTEN_PORT    : 7001
UI_MANAGED_SERVER_SSL_LISTEN_PORT : 8002
SOA_ORACLE_HOME                : soa

```

Figure 4–3 Verification of Properties (contd)

```

SOA_ORACLE_HOME                : soa
SOA_IP                        : 10.180.85.159
SOA_UNIX_USER                  : ofssobp
SOA_MW_HOME                    : /scratch/app/product/fmw
SOA_WEBLOGIC_USERNAME          : weblogic
SOA_WEBLOGIC_PASSWORD          : weblogic1
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT  : 8001
SOA_ADMIN_SERVER_LISTEN_PORT    : 7001
UI_IP                          : 10.180.85.196
UI_UNIX_USER                   : ofssobp
UI_DOMAIN_HOME                 : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                     : ofssobp
BIP_SERVER_IP                  : 10.180.6.143
BIP_SERVER_PORT                 : 9502
BIP_UNIX_USER                   : ofssobp
BIP_HOME                       : /scratch/app/product/fmw_bip/bi
BIP_INSTANCE_PATH              : /scratch/app/product/fmw_bip/user_projects/domains/bi_domain/bidata/service_instances/ssi/metadata/content/catalog/root/users/weblogic
BIP_SERVER_USER                 : weblogic
BIP_SERVER_PSWD                 : weblogic1
BIP_REPORT_BASE_PATH           : OBP/R262INSTALLER
BIP_DATASOURCE_NAME            : OBP262
IPM_SERVER_IP                   : 10.180.6.143
IPM_SERVER_PORT                 : 16000
IPM_UNIX_USER                   : ofssobp
IPM_HOME                       : /scratch/app/product/fmw_ipm/Oracle_ECM1
OFSAA_SERVER_IP                : ofsaa-ofss.com
OFSAA_SERVER_PORT               : 17000
OAAM_SERVER_IP                 : oaam-ofss.com
OAAM_SERVER_PORT               : 14000
OIM_SERVER_IP                  : oim-ofss.com
OIM_SERVER_PORT                 : 16000
DOCUMAKER_SERVER_IP            : documaker-ofss.com
DOCUMAKER_SERVER_PORT          : 15000
OBP_HOST_DB_USER                : OBP262
OBP_HOST_DB_PASSWORD           : welcome1
OBP_HOST_DB_IP                 : 10.180.87.84

```

Figure 4–4 Verification of Properties (contd)

```

DBP_HOST_DB_IP           : 10.180.87.84
DBP_HOST_DB_PORT         : 1521
DBP_HOST_DB_SERVICE_NAME : P8784A
MDS_HOST_DB_USER         : P8DMOST_MDS
MDS_HOST_DB_PASSWORD     : welcome1
MDS_HOST_DB_IP           : 10.180.87.84
MDS_HOST_DB_PORT         : 1521
MDS_HOST_DB_SERVICE_NAME : P8784A
HOST_ADMIN_JVM_PARAMS    : -Xms1024m -Xmx4096m
HOST_MANAGED_JVM_PARAMS  : -Xms4096m -Xmx8192m -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+U
  (e)concMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75
IPM_OUTBOUND_USERNAME    : weblogic
IPM_OUTBOUND_PASSWORD    : weblogic1
BIP_OUTBOUND_USERNAME    : weblogic
BIP_OUTBOUND_PASSWORD    : weblogic1
ODI_OUTBOUND_USERNAME    : weblogic
ODI_OUTBOUND_PASSWORD    : weblogic1
OIM_OUTBOUND_USERNAME    : weblogic
OIM_OUTBOUND_PASSWORD    : weblogic1
OIM_OUTBOUND_USERNAME    : weblogic
OIM_OUTBOUND_PASSWORD    : weblogic1
OCH_OUTBOUND_USERNAME    : weblogic
OCH_OUTBOUND_PASSWORD    : weblogic1
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : welcome1
SAML_ISSUER_OUTBOUND_USERNAME : weblogic
SAML_ISSUER_OUTBOUND_PASSWORD : weblogic1
SPEL_ENCRYPTION_OUTBOUND_USERNAME : weblogic
SPEL_ENCRYPTION_OUTBOUND_PASSWORD : weblogic1
FTP_IPM_OUTBOUND_USERNAME : weblogic
FTP_IPM_OUTBOUND_PASSWORD : weblogic1
BIP_USR_OUTBOUND_USERNAME : weblogic
BIP_USR_OUTBOUND_PASSWORD : weblogic1
SOA_PURGING_OUTBOUND_USERNAME : weblogic
SOA_PURGING_OUTBOUND_PASSWORD : weblogic1
SOA_OUTBOUND_USERNAME    : weblogic
SOA_OUTBOUND_PASSWORD    : weblogic1
ATHUSER_OUTBOUND_USERNAME : ATHUser
ATHUSER_OUTBOUND_PASSWORD : welcome1
POSUSER_OUTBOUND_USERNAME : POSUser

```

Figure 4–5 Verification of Properties (contd)

```

POSUSER_OUTBOUND_USERNAME : POSUser
POSUSER_OUTBOUND_PASSWORD : welcome1
DMSHOST_OUTBOUND_USERNAME : weblogic
DMSHOST_OUTBOUND_PASSWORD : weblogic1
DMSUI_OUTBOUND_USERNAME   : weblogic
DMSUI_OUTBOUND_PASSWORD   : weblogic1
OCH_OUTBOUND_USERNAME     : weblogic
OCH_OUTBOUND_PASSWORD     : weblogic1
KEYSTORE_PASSWORD         : welcome1
SOA_IP                     : 10.180.85.159
SOA_UNIX_USER              : ofssobp
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.196
UI_MANAGED_SERVER_LISTEN_PORT  : 8001
CARD_USERNAME              : orakey
CARD_PASSWORD              : welcome1
RULE_USERNAME              : orakey
RULE_PASSWORD              : welcome1
BAM_USERNAME               : weblogic
BAM_PASSWORD               : weblogic1
USER_TIMEZONE              : +5:30
HOST_SSL_PASSWORD          : welcome1
REMOTE_EXECUTION           : Y
SECURITY_ENABLED           : Y

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.

```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 4–6 Confirmation and Copying of Installables to Target Machine

```

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.
The authenticity of host '10.180.85.195 (10.180.85.195)' can't be established.
ECDSA key fingerprint is d2:0d:11:1e:f1:e3:6c:ca:96:55:94:61:21:3a:56:56.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.180.85.195' (ECDSA) to the list of known hosts.
ofssobp@10.180.85.195's password:
obpinstall-host.zip                                100% 888MB 221.9MB/s  00:04
installobphostsilent.properties                  100% 1317    1.3KB/s  00:00
ofssobp@10.180.85.195's password:
Archive: /scratch/install/target/obpinstall-host.zip
  inflating: /scratch/install/target/obphost_generic.jar
  inflating: /scratch/install/target/obp-host-post-install.sh
  inflating: /scratch/install/target/obp-host-post-install.py
  inflating: /scratch/install/target/installdomain.sh
  inflating: /scratch/install/target/installdomain_silent.sh
  extracting: /scratch/install/target/ldif.zip
  extracting: /scratch/install/target/sampleldif.zip
  inflating: /scratch/install/target/PolicyStoreSetup.tar.gz
  inflating: /scratch/install/target/jps-config.xml.tmpl
  inflating: /scratch/install/target/updateSystemDetails.sql.tmpl
  inflating: /scratch/install/target/seedoid.sh
  inflating: /scratch/install/target/metadataSOAUpdate.sh
  inflating: /scratch/install/target/encryptPassword.py
  inflating: /scratch/install/target/docutils-0.12.tar.gz
  inflating: /scratch/install/target/JPyaml-0.5.7.tar.gz
  inflating: /scratch/install/target/PyYAML-3.11.tar.gz
  inflating: /scratch/install/target/SOAPpy-0.12.5.tar.gz
  inflating: /scratch/install/target/suds-0.4.tar.gz
  inflating: /scratch/install/target/wstools-0.4.3.tar.gz
Finished copying the installables to the target server.
The configuration of OBP Host domain shall begin immediately thereafter. Press any key to begin.
Installation will begin in Silent Mode in sometime. Please wait for the first screen to come up
ofssobp@10.180.85.195's password:
--> /scratch/app/product/jdk1.8.0_101/bin/java -jar /scratch/install/target/obphost_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpinstal

```

Figure 4–7 Confirmation and Copying of Installables to Target Machine (contd)

```

Installation will begin in Silent Mode in sometime. Please wait for the first screen to come up
ofssobp@10.180.85.195's password:
--> /scratch/app/product/jdk1.8.0_101/bin/java -jar /scratch/install/target/obphost_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpinstal
l INVENTORY_LOCATION=/scratch/app/oraInventory
Launcher log file is /tmp/OraInstall2018-05-03_02-55-30PM/launcher2018-05-03_02-55-30PM.log.
Extracting files.....
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz. Actual 2693.527 MHz Passed
Checking swap space: must be greater than 512 MB. Actual 16057324 MB Passed
Checking if this platform requires a 64-bit JVM. Actual 64 Passed (64-bit not required)
Checking temp space: must be greater than 300 MB. Actual 30062 MB Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2018-05-03_02-55-30PM
.....
Installation Summary
.....
Disk Space : Required 827 MB, Available 295,999 MB
Feature Sets to Install:
  OBP Host Server FeatureSet 2.6.2.0.0
  Next Generation Install Core 13.2.0.0.0
  OPatch 13.2.0.0.0
.....
You can find the log of this install session at:
  /tmp/OraInstall2018-05-03_02-55-30PM/install2018-05-03_02-55-30PM.log

Loading products list. Please wait.
..... 1%
..... 40%

Loading products. Please wait.
..... 44%
..... 47%
..... 50%
..... 53%
..... 56%

```

Figure 4–8 Confirmation and Copying of Installables to Target Machine (contd)

```

..... 56%
..... 60%
..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%

..... 37% Done.
..... 75% Done.

Installation in progress (Thursday, May 3, 2018 2:55:53 PM IST)
98% Done.
Install successful

Linking in progress (Thursday, May 3, 2018 2:55:53 PM IST)
Link successful

Setup in progress (Thursday, May 3, 2018 2:55:53 PM IST)
Setup successful

Saving inventory (Thursday, May 3, 2018 2:55:53 PM IST)
Saving inventory complete
Configuration complete

End of install phases.(Thursday, May 3, 2018 2:55:54 PM IST)
Logs successfully copied to /scratch/app/oraInventory/logs.

Initializing WebLogic Scripting Tool (WLST) ...

Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may no

```

5. After copying, there is host DB schema creation and seeding. After extracting the installables, the domain gets installed and a confirmation message is shown.

Figure 4–9 Domain Installation Confirmation

```

Saving inventory (Monday, April 30, 2018 5:15:45 PM IST)
Saving inventory complete
Configuration complete

End of install phases.(Monday, April 30, 2018 5:15:45 PM IST)
Logs successfully copied to /scratch/app/oraInventory/logs.

Initializing WebLogic Scripting Tool (WLST) ...

Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Read domain /scratch/app/product/fmw/user_projects/domains/host_domain to applyJRF
Target JRF components to "obphost_cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/host_domain/config/fmwconfig/servers/obphost_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/host_domain in offline mode
Domain created successfully.

```

6. After completion of domain installation, it will proceed to seeding.

Figure 4–10 *Untar the policyStoreSetup and Copy on destination location*

```

OID configuration will begin now
ofssohp@10.180.85.195's password:
ofssohp@10.180.85.195's password:
ofssohp@10.180.85.195's password:
PolicyStoreSetup/
PolicyStoreSetup/lib/
PolicyStoreSetup/lib/poi-3.10.1-20140818.jar
PolicyStoreSetup/addMatrixbasedPolicis.sh
PolicyStoreSetup/PolicyStoreDiagnosticsUtility.properties
PolicyStoreSetup/Diagnosis/
PolicyStoreSetup/README.txt
PolicyStoreSetup/migratePolicies.sh
PolicyStoreSetup/logs/
PolicyStoreSetup/refreshPolicyStoreFromLatestApplicationDataMap.sh
PolicyStoreSetup/RunPolicyStoreDiagnosis.sh
PolicyStoreSetup/PolicyStoreSetup.sh
PolicyStoreSetup/PolicyMigrator.sh
PolicyStoreSetup/lib12212/
PolicyStoreSetup/lib12212/eclipselink.jar
PolicyStoreSetup/lib12212/jps-unsupported-api.jar
PolicyStoreSetup/lib12212/ojdbc7.jar
PolicyStoreSetup/lib12212/javax.persistence.jar
PolicyStoreSetup/lib12212/javax.persistence.jar
PolicyStoreSetup/lib12212/jps-api.jar
PolicyStoreSetup/lib12212/identitystore.jar
PolicyStoreSetup/lib12212/javax.faces.jsf-api.jar
PolicyStoreSetup/lib12212/identitydirectory.jar
PolicyStoreSetup/lib12212/jps-wls.jar
PolicyStoreSetup/lib12212/adf-share-security.jar
PolicyStoreSetup/lib12212/javax.security.jacc.jar
PolicyStoreSetup/lib12212/identityutils.jar
PolicyStoreSetup/lib12212/adf-controller-security.jar
PolicyStoreSetup/lib12212/ojdl.jar
PolicyStoreSetup/lib12212/osdt_wlsec.jar
PolicyStoreSetup/lib12212/org.openliberty.openaz.azapi_1.1.jar
PolicyStoreSetup/lib12212/osdt_wss.jar
PolicyStoreSetup/lib12212/jps-wls-trustprovider.jar
PolicyStoreSetup/lib12212/jps-se.jar
PolicyStoreSetup/lib12212/jps-az-rt.jar
PolicyStoreSetup/lib12212/jps-patching.jar
PolicyStoreSetup/lib12212/jps-common.jar
PolicyStoreSetup/lib12212/jps-platform.jar
PolicyStoreSetup/lib12212/osdt_saml.jar
PolicyStoreSetup/lib12212/osdt_cert.jar
PolicyStoreSetup/lib12212/jps-pep.jar
PolicyStoreSetup/lib12212/jps-manifest.jar
PolicyStoreSetup/lib12212/jps-mbeans.jar
PolicyStoreSetup/lib12212/osdt_core.jar
PolicyStoreSetup/lib12212/jps-az-management.jar
PolicyStoreSetup/lib12212/wsm-policy-core.jar
PolicyStoreSetup/lib12212/dms.jar
PolicyStoreSetup/lib12212/osdt_ws_sx.jar
PolicyStoreSetup/lib12212/jps-internal.jar

```

Figure 4–11 Untar the policyStoreSetup and Copy on destination location (contd)

```

adf-controller-security.jar          100% 2255    2.2KB/s 00:00
jps-ee.jar                          100% 79KB   78.5KB/s 00:00
ojdl.jar                            100% 332KB  332.4KB/s 00:00
org.openliberty.openaz.azapi_1.1.jar 100% 52KB   52.2KB/s 00:00
identitystore.jar                   100% 471KB  471.3KB/s 00:00
identitydirectory.jar               100% 270KB  270.0KB/s 00:00
javax.security.jacc.jar             100% 51KB   51.0KB/s 00:00
jps-audit.jar                       100% 892KB  891.6KB/s 00:00
adf-share-security.jar              100% 22KB   22.0KB/s 00:00
jps-sidm-api.jar                    100% 4326    4.2KB/s 00:00
jps-common.jar                      100% 1519KB  1.5MB/s 00:00
dms.jar                             100% 2253KB  2.2MB/s 00:00
jps-internal.jar                    100% 6636KB  6.5MB/s 00:00
osdt_saml2.jar                      100% 281KB  280.9KB/s 00:00
identityutils.jar                   100% 211KB  210.8KB/s 00:00
javax.faces.jsf-api.jar             100% 355KB  355.3KB/s 00:00
eclipselink.jar                     100% 8865KB  8.7MB/s 00:00
jps-az-common.jar                   100% 407KB  407.0KB/s 00:00
fmw.audit.jar                       100% 1148    1.1KB/s 00:00
osdt_wss.jar                        100% 186KB  186.4KB/s 00:00
osdt_ws_sx.jar                      100% 241KB  240.8KB/s 00:00
jps-az-management.jar               100% 314KB  314.4KB/s 00:00
oraclepki.jar                       100% 295KB  295.4KB/s 00:00
ojdbc6dms.jar                       100% 4325KB  4.2MB/s 00:00
UIComponentsDiagnosticHelper.sh      100% 167     0.2KB/s 00:00
README_UPGRADE.txt                  100% 5060    4.9KB/s 00:00
jps-config.xml(db)                  100% 4324    4.2KB/s 00:00
jps-config.xml                       100% 4331    4.2KB/s 00:00
refreshMatrixAuthPolicies.sh         100% 39      0.0KB/s 00:00
PolicyMigrator.sh                   100% 170     0.2KB/s 00:00
Connection to 10.180.85.195 closed.
ofssobp@10.180.85.195's password:
ofssobp@10.180.85.195's password:
seedOIDDomain.sh                    100% 1427    1.4KB/s 00:00
ofss-oid-silent-seedOIDDomain.py     100% 5013    4.9KB/s 00:00
createDummyDomainAndStartSeedingOID.sh 100% 828     0.8KB/s 00:00
oid-configure-silent.properties      100% 352     0.3KB/s 00:00
ofss-oid-silent-createOIDDomain.py   100% 2533    2.5KB/s 00:00

```


Figure 4–12 Untar the policyStoreSetup and Copy on destination location (contd)

```

ofss-oid-silent-createOIDDomain.py          100% 2533   2.5KB/s  00:00
installobphostsilent.py                    100% 6774   6.6KB/s  00:00
jmscollateralmodule-jms.xml                 100% 1255   1.2KB/s  00:00
jmsoriginationmodule-jms.xml               100% 2247   2.2KB/s  00:00
jmsasyncauditmodule-jms.xml                100% 1630   1.6KB/s  00:00
jmspricinganalysismodule-jms.xml           100% 1676   1.6KB/s  00:00
jmsodimodule-jms.xml                       100% 1567   1.5KB/s  00:00
jmsanalyticsmodule-jms.xml                 100% 2032   2.0KB/s  00:00
jmsreportmodule-jms.xml                    100% 1628   1.6KB/s  00:00
jmsworkflowmodule-jms.xml                  100% 2217   2.2KB/s  00:00
readme.txt                                 100% 133    0.1KB/s  00:00
jmsdomainpublishmodule-jms.xml             100% 1579   1.5KB/s  00:00
jmspartymodule-jms.xml                    100% 1961   1.9KB/s  00:00
jmspaymentmodule-jms.xml                   100% 2433   2.4KB/s  00:00
jmsbatchmodule-jms.xml                     100% 4768   4.7KB/s  00:00
jmscasamodule-jms.xml                      100% 1664   1.6KB/s  00:00
jmsrulemodule-jms.xml                      100% 1664   1.6KB/s  00:00
jmscollectionmodule-jms.xml                100% 1509   1.5KB/s  00:00
jmsaccountingmodule-jms.xml                100% 5343   5.2KB/s  00:00
jmsdocumentoutboundModule-jms.xml          100% 1706   1.7KB/s  00:00
installobphostsilent.properties            100% 1317   1.3KB/s  00:00
Connection to 10.180.85.195 closed.
ofssobp@10.180.85.195's password:
dos2unix: converting file /scratch/app/product/fmw/obpoidinstall/silent/oid/createDummyDomainAndStartSeedingOID.sh to Unix format ...
dos2unix: converting file /scratch/app/product/fmw/obpoidinstall/silent/oid/ofss-oid-silent-createOIDDomain.py to Unix format ...
dos2unix: converting file /scratch/app/product/fmw/obpoidinstall/silent/oid/ofss-oid-silent-seedOIDDomain.py to Unix format ...
dos2unix: converting file /scratch/app/product/fmw/obpoidinstall/silent/oid/oid-configure-silent.properties to Unix format ...
dos2unix: converting file /scratch/app/product/fmw/obpoidinstall/silent/oid/seedOIDDomain.sh to Unix format ...
Archive: /scratch/app/product/fmw/obpoidinstall/PolicyStoreSetup/UtilityConfig/UIComponents_new.zip
  inflating: UIComponents_new.csv
Start Time : May 3, 2018 2:59:42 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules.csv

Application Policy=OBP with policy domain =OBP will be created.

Do you want to continue?(y/n)
y

```

Figure 4–13 Policy Seeding

```

Application Policy=OBP with policy domain =OBP will be created.
Do you want to continue?(y/n)
y
No of resources populated = 14080
No of resources added = 14076, time taken = 329
*****Please wait while the Access Policies are being seeded in to the Policy Domain*****
Start Time : Apr 30, 2018 5:25:38 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-1.csv
Start Time : Apr 30, 2018 5:25:53 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-2.csv
Start Time : Apr 30, 2018 5:26:08 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-3.csv
Start Time : Apr 30, 2018 5:26:23 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-4.csv
Start Time : Apr 30, 2018 5:26:39 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv
Start Time : Apr 30, 2018 5:26:54 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-6.csv
File = /UtilityConfig/FactoryShippedAccessPolicyRules-1.csv, Policies to be added=600
Start Time : Apr 30, 2018 5:27:09 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv
*****Please wait while Matrix Based Access Policies are being seeded in to the Policy Domain*****
Start Time : Apr 30, 2018 5:27:24 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules.csv
End Time : Apr 30, 2018 5:27:34 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-1.csv, Policies added=589, Duplicate policies=0, time taken=
116
File = /UtilityConfig/FactoryShippedAccessPolicyRules-2.csv, Policies to be added=500
End Time : Apr 30, 2018 5:28:03 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-2.csv, Policies added=444, Duplicate policies=6, time taken=
129
File = /UtilityConfig/FactoryShippedAccessPolicyRules-3.csv, Policies to be added=0
End Time : Apr 30, 2018 5:28:08 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-3.csv, Policies added=0, Duplicate policies=0, time taken=12
0
File = /UtilityConfig/FactoryShippedAccessPolicyRules-4.csv, Policies to be added=1101
File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies to be added=9203
File = /UtilityConfig/FactoryShippedAccessPolicyRules-6.csv, Policies to be added=3331
File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv, Policies to be added=4223
End Time : Apr 30, 2018 5:30:17 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-4.csv, Policies added=1070, Duplicate policies=0, time taken
=233

```

Figure 4–14 Policy Seeding (contd)

```

File = /UtilityConfig/FactoryShippedAccessPolicyRules-1.csv, Policies to be added=600
Start Time : Apr 30, 2018 5:27:09 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv
*****Please wait while Matrix Based Access Policies are being seeded in to the Policy Domain*****
Start Time : Apr 30, 2018 5:27:24 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules.csv
End Time : Apr 30, 2018 5:27:34 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-1.csv, Policies added=589, Duplicate policies=0, time taken=
116
File = /UtilityConfig/FactoryShippedAccessPolicyRules-2.csv, Policies to be added=500
End Time : Apr 30, 2018 5:28:03 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-2.csv, Policies added=444, Duplicate policies=6, time taken=
129
File = /UtilityConfig/FactoryShippedAccessPolicyRules-3.csv, Policies to be added=0
End Time : Apr 30, 2018 5:28:08 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-3.csv, Policies added=0, Duplicate policies=0, time taken=12
0
File = /UtilityConfig/FactoryShippedAccessPolicyRules-4.csv, Policies to be added=1101
File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies to be added=9203
File = /UtilityConfig/FactoryShippedAccessPolicyRules-6.csv, Policies to be added=3331
File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv, Policies to be added=4223
End Time : Apr 30, 2018 5:30:17 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-4.csv, Policies added=1070, Duplicate policies=0, time taken
=233
File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies added=1287, duplicate policies=221
File = /UtilityConfig/FactoryShippedAccessPolicyRules-6.csv, Policies added=1429, duplicate policies=65
File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv, Policies added=1486, duplicate policies=57
End Time : Apr 30, 2018 5:35:56 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-6.csv, Policies added=3263, Duplicate policies=65, time take
n=542
File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies added=3609, duplicate policies=221
File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv, Policies added=3747, duplicate policies=150
End Time : Apr 30, 2018 5:37:46 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-7.csv, Policies added=4058, Duplicate policies=165, time tak
en=636
File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies added=7077, duplicate policies=222
End Time : Apr 30, 2018 5:44:22 PM, File = /UtilityConfig/FactoryShippedAccessPolicyRules-5.csv, Policies added=8981, Duplicate policies=222, time tak
en=1063

```

4.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Enterprise Product Manufacturing Host Media Pack. The procedure can be started after UI, SOA pre installation and standalone database setup steps are executed.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for the host, ensure the following:

- Node manager is not running and no other process is running on NODE_MGR_PORT.
- Host db schema seeding has been done.

For more information, see [Section 6.3.3 HOST DB Schema Seeding](#) and [Section 6.3.4 System Configuration DB Update Script Execution](#)

- The node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

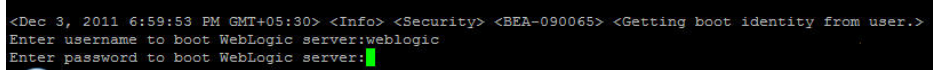
Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the host domain directory.

```
cd <middleware home>
cd user_projects/domains/obphostdomai/bin
./startWebLogic.sh
```

2. Enter the username and password to ensure that the WebLogic server starts.

Figure 4–15 Host Domain Admin Server Credentials



```
<Dec 3, 2011 6:59:53 PM GMT+05:30> <Info> <Security> <BEA-090065> <Getting boot identity from user.>
Enter username to boot WebLogic server:weblogic
Enter password to boot WebLogic server:
```

3. Once the server status changes to RUNNING, proceed to execute the post installation script for Host domain located under middleware. This script performs a multitude of configurations such as:
 - Making changes in OBEPM config properties to point to the appropriate integration server (Example: Setting the BIP server URL)
 - Setting the security realm properties of WebLogic domain and reassociating the same to the OID
 - Trust configuration setup using the trust keys copied from the SOA domain
4. Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-host-post-install.sh will be listed along with other files and directories.
5. Execute the script using the following command:


```
./obp-host-post-install.sh
```
6. For monitoring the script run, check the following log files created under the UI domain directory:
 - obp-host-install-log.txt
 - obp-host-install-log-py.txt

Note

The output shown here is a sample output and may vary slightly from the original output.

Figure 4–16 Host Domain Post Installation Script Execution

```
[ofsobp@mum00adh fmw]$ ./obp-host-post-install.sh
DOMAIN_NAME                : host_domain
DOMAIN_DIRECTORY_LOCATION  : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME          : weblogic
WEBLOGIC_PASSWORD          : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.195
ADMIN_SERVER_LISTEN_PORT   : 7001
LDAP_PROVIDER              : OID
OID_IP                     : 10.180.87.84
OID_PORT                   : 389
OID_ADMIN_USER             : cn=orcladmin
OID_ADMIN_PWD              : welcome1
OID_GROUP_DSN              : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN               : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT              : 5556
HOST_IP                   : 10.180.85.195
HOST_TARGET                : /scratch/install/target
HOST_JAVA_HOME             : /scratch/app/product/jdk1.8.0_101
HOST_MW_HOME               : /scratch/app/product/fmw
UI_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.196
UI_ADMIN_SERVER_LISTEN_PORT : 7001
SOA_HOST_IP               :
SOA_ORACLE_HOME            : soa
SOA_UNIX_USER              : ofsobp
SOA_MW_HOME                : /scratch/app/product/fmw
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT : 8001
SOA_WEBLOGIC_USERNAME      : weblogic
SOA_WEBLOGIC_PASSWORD      : weblogic1
UI_IP                     : 10.180.85.196
UI_UNIX_USER               : ofsobp
UI_DOMAIN_HOME             : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                 : ofsobp
BIP_UNIX_USER              : ofsobp
BIP_HOME                  : /scratch/app/product/fmw_bip/bi
BIP_SERVER_IP             : 10.180.6.143
BIP_SERVER_PORT            : 9502
```

Figure 4–17 Host Domain Post Installation Script Execution (contd)

```

BIP_SERVER_IP           : 10.180.6.143
BIP_SERVER_PORT         : 9502
IPM_SERVER_IP           : 10.180.6.143
IPM_SERVER_PORT         : 16000
OFSAA_SERVER_IP         : ofssaa-ofss.com
OFSAA_SERVER_PORT       : 17000
OAAM_SERVER_IP          : oaam-ofss.com
OAAM_SERVER_PORT        : 14000
OAAM_SERVER_IP          : oaam-ofss.com
OAAM_SERVER_PORT        : 14000
OIM_SERVER_IP           : oim-ofss.com
OIM_SERVER_PORT         : 16000
DOCUMAKER_SERVER_IP     : documaker-ofss.com
DOCUMAKER_SERVER_PORT   : 15000
OBP_HOST_DB_USER        : OBP262
OBP_HOST_DB_PASSWORD    : welcome1
OBP_HOST_DB_IP          : 10.180.87.84
OBP_HOST_DB_PORT        : 1521
OBP_HOST_DB_SERVICE_NAME : P8784A
IPM_OUTBOUND_USERNAME   : weblogic
IPM_OUTBOUND_PASSWORD   : weblogic1
BIP_OUTBOUND_USERNAME   : weblogic
BIP_OUTBOUND_PASSWORD   : weblogic1
ODI_OUTBOUND_USERNAME   : weblogic
ODI_OUTBOUND_PASSWORD   : weblogic1
OIM_OUTBOUND_USERNAME   : weblogic
OIM_OUTBOUND_PASSWORD   : weblogic1
WCM_OUTBOUND_USERNAME   : weblogic
WCM_OUTBOUND_PASSWORD   : weblogic1
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : welcome1
SAML_ISSUER_OUTBOUND_USERNAME : weblogic
SAML_ISSUER_OUTBOUND_PASSWORD : weblogic1
BPEL_ENCRYPTION_OUTBOUND_USERNAME : weblogic
BPEL_ENCRYPTION_OUTBOUND_PASSWORD : weblogic1
FTP_IPM_OUTBOUND_USERNAME : weblogic
FTP_IPM_OUTBOUND_PASSWORD : weblogic1
BIP_USR_OUTBOUND_USERNAME : weblogic

```

Figure 4–18 Host Domain Post Installation Script Execution (contd)

```

BIP_USR_OUTBOUND_USERNAME      : weblogic
BIP_USR_OUTBOUND_PASSWORD      : weblogic1
SOA_PURGING_OUTBOUND_USERNAME  : weblogic
SOA_PURGING_OUTBOUND_PASSWORD  : weblogic1
SOA_OUTBOUND_USERNAME          : weblogic
SOA_OUTBOUND_PASSWORD          : weblogic1
ATMUSER_OUTBOUND_USERNAME      : ATMUser
ATMUSER_OUTBOUND_PASSWORD      : welcome1
POSUSER_OUTBOUND_USERNAME      : POSUser
POSUSER_OUTBOUND_PASSWORD      : welcome1
DMSHOST_OUTBOUND_USERNAME      : weblogic
DMSHOST_OUTBOUND_PASSWORD      : weblogic1
DMSUI_OUTBOUND_USERNAME        : weblogic
DMSUI_OUTBOUND_PASSWORD        : weblogic1
OCH_OUTBOUND_USERNAME          : weblogic
OCH_OUTBOUND_PASSWORD          : weblogic1
KEYSTORE_PASSWORD              : welcome1
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.196
UI_MANAGED_SERVER_LISTEN_PORT   : 8001
CARD_USERNAME                   : orakey
CARD_PASSWORD                   : welcome1
RULE_USERNAME                   : orakey
RULE_PASSWORD                   : welcome1
BAM_USERNAME                    : weblogic
BAM_PASSWORD                    : weblogic1
USER_TIMEZONE                   : +5:30
HOST_SSL_PASSWORD               : welcome1
REMOTE_EXECUTION                : Y
IPM_HOME                        : /scratch/app/product/fmw_ipm/Oracle_ECM1
IPM_UNIX_USER                   : ofssobp
SECURITY_ENABLED                : Y
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y

```

Figure 4–19 Host Domain Post Installation Script Execution (contd)

```

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...
ofssobp@10.180.85.159's password:
bpm-services.jar copied from SOA machine 100% 16MB 15.5MB/s 00:00
ofssobp@10.180.85.159's password:
soa-infra-mgmt.jar copied from SOA machine 100% 1661KB 1.6MB/s 00:00
ofssobp@10.180.85.159's password:
orabpel.jar copied from SOA machine 100% 6929KB 6.8MB/s 00:00
ofssobp@10.180.85.159's password:
tracking-api.jar copied from SOA machine 100% 24KB 24.3KB/s 00:00
ofssobp@10.180.6.143's password:
i18nAPI_v3.jar copied from BIP machine 100% 904KB 904.4KB/s 00:00
ofssobp@10.180.6.143's password:
xdocore.jar copied from BIP machine 100% 9060KB 8.9MB/s 00:00
ofssobp@10.180.6.143's password:
versioninfo.jar copied from BIP machine 100% 6204KB 6.1MB/s 00:00
ofssobp@10.180.6.143's password:
imaging-client.jar copied from IPM machine 100% 863KB 863.3KB/s 00:00
ofssobp@10.180.6.143's password:
oracle.ucm.ride-11.1.1.jar copied from IPM machine 100% 619KB 618.9KB/s 00:00
BIP_SERVICE_ENDPOINT as http://10.180.6.143:9502/xmlpserver/services/PublicReportService?wsdl
IPM_URL as http://10.180.6.143:16000/imaging/ws
JDBC String as jdbc:oracle:thin:@10.180.87.84:1521:P8784A

```


Figure 4–20 Host Domain Post Installation Script Execution Summary

```

APP-INF/lib/com.offss.fc.enumeration.communications.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.wsdl.external.recovery.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.wsdl.client.recovery.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.client.proxy.collection.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.appx.client.proxy.recovery.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.client.proxy.recovery.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.wsdl.external.collection.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.appx.client.proxy.collection.jar:/scratch/app/product/fmw/obpnstall/objp/ob.host.client/ob.app.client.coll/APF-INF/lib/com.offss.fc.wsdl.client.collection.jar:/scratch/app/product/fmw/vlserver/..oracle.common/modules/oracle.odl.ojdl.jar:/scratch/app/product/fmw/vlserver/..oracle.common/modules/oracle.jdbc.ojdbc.jar:/scratch/app/product/fmw/vlserver/..oracle.common/modules/oracle.toplink.eclipselink.jar:/scratch/app/product/fmw/vlserver/..oracle.common/modules/oracle.dms/dms.jar:/usr/home/scratch/app/product/fmw/obpnstall/objp/config/_0fc-io.dirs:/scratch/app/product/fmw/obpnstall/objp-_0fc-log.dirs:/scratch/app/product/fmw/obpnstall/objp-_0java.util.logging.config.class=oracle.core.ojdl.logging.LoggingConfiguration -boracle.core.ojdl.logging.config.file:/scratch/app/product/fmw/obpnstall/objp/config/nomewlog.log -Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.transtransformfactoryimpl -Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.xpath.internal.jaxp.DocumentBuilderFactoryImpl -Xmx512m -XX:MaxPermSize=512m com.offss.fc.domain.rule.utils.RuleDeploymentUtilityServer CMD_UPGRADE_ALL_FILTERS jdbc:oracle:thin:@190.87.84:1521/P87844 DBP262 welcome!
Rule Utility launched successfully. Command Code: CMD_UPGRADE_ALL_FILTERS

Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=512m; support was removed in 8.0

System property [org.owasp.esapi.opsteam] is not set
-- Attempting to load ESAPI.properties via file I/O.
System property [org.owasp.esapi.devteam] is not set

Attempting to load ESAPI.properties as resource file via file I/O.
Not found in "org.owasp.esapi.resources" directory or file not readable: /scratch/app/product/fmw/user_projects/domains/host_domain/ESAPI.properties
Found in SystemResourceDirectory/resourceDirectory: /scratch/app/product/fmw/obpnstall/objp/config/.esapi/ESAPI.properties
Loaded "ESAPI.properties" file
SecurityConfiguration for Validator.ConfigurationFile.MultiValued not found in ESAPI.properties. Using default: false
Attempting to load validation.properties via file I/O.
Attempting to load validation.properties as resource file via file I/O.
Not found in "org.owasp.esapi.resources" directory or file not readable: /scratch/app/product/fmw/user_projects/domains/host_domain/validation.properties
Found in SystemResourceDirectory/resourceDirectory: /scratch/app/product/fmw/obpnstall/objp/config/.esapi/validation.properties
Loaded "validation.properties" properties file
Rule: Could not initialize class com.offss.fc.infra.dns.orm.DataAccessManager
Rule utility executed successfully. Refer OBP host log for details
Press any key to continue...
[offssbp@mun00ad4 fmls]$
```

7. After completion of the host post installation, it will return to the command prompt.
8. Finally inside logging.xml file for managed servers,

for example: /scratch/app/product/fmw/user_projects/domains/host_domain/config/fmwconfig/servers/obphost_server1/logging.xml

within the following xml tag:

```
<logging_configuration> <log_handlers> </log_handlers></logging_configuration>
```

add:

```
<log_handler name='el-handler' level='TRACE:32'
class='oracle.core.ojdl.logging.ODLHandlerFactory'>
<property name='path' value='${fc.log.dir}/logs/eclipselink.log' />
<property name='maxFileSize' value='10485760' />
<property name='maxLogSize' value='104857600' />
<property name='encoding' value='UTF-8' />
<property name='useThreadName' value='true' />
<property name='supplementalAttributes'
value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_
PORT.name,composite_instance_id,component_instance_id,composite_
name,component_name' />
</log_handler>
```

9. Within the following xml tag:


```
<logging_configuration><loggers></loggers></logging_configuration>
```

add:

```
<logger name='org.eclipse.persistence' level='TRACE:32'  
useParentHandlers='false'>
```

```
<handler name='el-handler' />
```

```
</logger>
```

```
<logger name='javax.persistence' level='TRACE:32'  
useParentHandlers='false'>
```

```
<handler name='el-handler' />
```

```
</logger>
```

10. Then start the admin and managed servers to check the domain configuration status as described in verification part in [Section 10.2 Host Domain Verification](#).

5 Oracle Banking Enterprise Product Manufacturing Presentation Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Product Manufacturing Presentation (UI) Media pack. The subsequent section refers to the variable names specified in [Section 2.3 Installation Checklist](#).

5.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Enterprise Product Manufacturing Presentation Media Pack.

5.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Enterprise Product Manufacturing Presentation Media Pack installation.

Step 1 Procuring Installables

Download the appropriate presentation media pack from the following location:

<http://edelivery.oracle.com/>

Step 2 Extracting the Installables

Copy the 'ui.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'ui.zip'. Three files will be extracted:

- A zip file 'obpininstall-ui.zip'
- The installation script 'installobpui.sh'
- The install configuration property file 'installobpui.properties'

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3 Installation Checklist](#) of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

5.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Enterprise Product Manufacturing Presentation Media Pack installation. The procedure can be started after SOA pre-installation steps are executed.

Step 1 Updating installobpui.properties

Navigate to the directory where the files obpininstall-ui.zip, installobpui.sh and installobpui.properties are placed and update installobpui.properties with relevant values from the checklist.

Step 2 Checklist for a new setup

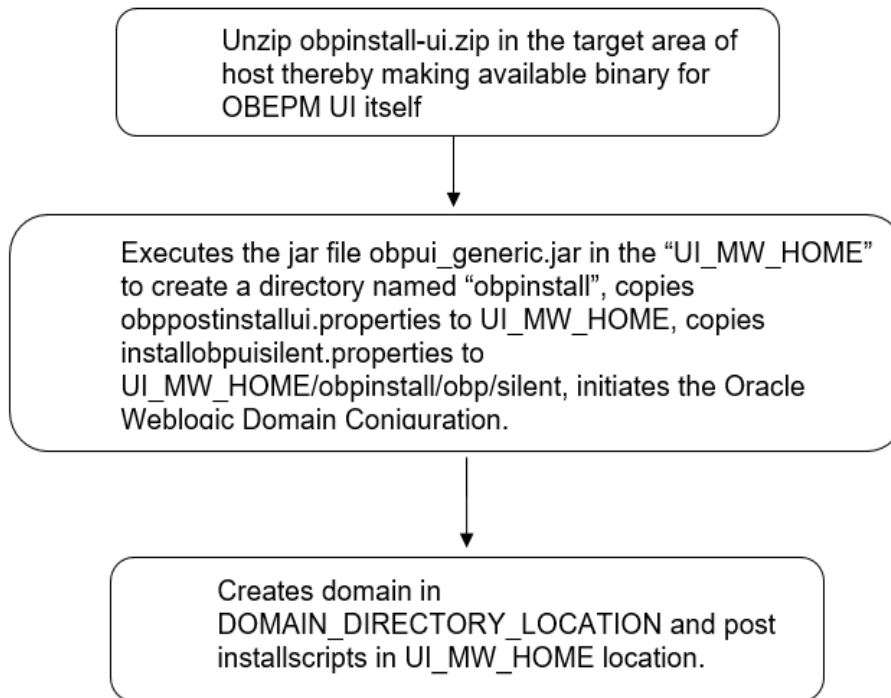
Before initiating installation on a completely new setup, check the following:

- Make sure that the required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBEPM Database Setup – RCU Installation](#).
- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against UI_TARGET property.
- In case of a re-installation ensure that the directory paths against DOMAIN_DIRECTORY_LOCATION, HOST_TARGET and HOST_MW_HOME specified in installobpui.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the port in HOST machine given in installobpui.properties.
- MDS_SCHEMA_USER schema given in the installobpui.properties exists. This should point to the same schema as MDS_HOST_DB_USER of installobphost.properties.
- Values given in installobpui.properties must be correct. At run time, no option will be given to change the values.

5.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Enterprise Product Manufacturing Presentation Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobpui.sh. The installation script shall echo the values entered in the installobpui.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 5–1 Steps in *installobpui.sh* script

A sample output is given here.

Figure 5–2 Confirmation to Proceed Domain Installation

```

[ofssobp@mmum00adi ui]$ ./installobpui.sh
The present working directory is /scratch/install/ui. It is assumed that all installables are present in this directory.
Printing the installation details:-
SILENT_INSTALL                : y
LOCAL_IP                      : 10.180.85.196
LOCAL_DISPLAY_VALUE           : 0.0
DOMAIN_NAME                   : ui_domain
DOMAIN_DIRECTORY_LOCATION     : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME             : weblogic
WEBLOGIC_PASSWORD             : weblogic1
MDS_SCHEMA_USER               : PRDUI_MDS
MDS_SCHEMA_PASSWORD           : welcome1
MDS_DB_IP                    : 10.180.87.84
MDS_DB_PORT                   : 1521
MDS_DB_SERVICE_NAME           : P8784A
HOST_SCHEMA_USER              : OBP262
HOST_SCHEMA_PASSWORD          : welcome1
HOST_DB_IP                    : 10.180.87.84
HOST_DB_PORT                  : 1521
HOST_DB_SERVICE_NAME          : P8784A
OPSS_SOA_SCHEMA_USER          : PRDSOA_OPSS
OPSS_SOA_SCHEMA_PASSWORD      : welcome1
OPSS_SOA_DB_IP                : 10.180.87.84
OPSS_SOA_DB_PORT              : 1521
OPSS_SOA_DB_SERVICE_NAME      : P8784A
ADMIN_SERVER_LISTEN_ADDRESS    : 10.180.85.196
ADMIN_SERVER_LISTEN_PORT      : 7001
ADMIN_SERVER_SSL_LISTEN_PORT  : 7002
MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.196
MANAGED_SERVER_LISTEN_PORT    : 8001
MANAGED_SERVER_SSL_LISTEN_PORT : 8002
LDAP_PROVIDER                  : OID
OID_IP                        : 10.180.87.84
OID_PORT                      : 389
OID_ADMIN_USER                 : cn=orcladmin
OID_ADMIN_PWD                  : welcome1

```

Figure 5–3 Confirmation to Proceed Domain Installation (contd)

```

OID_ADMIN_PWD           : welcome1
OID_GROUP_DSN           : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN            : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT           : 5556
UI_IP                   : 10.180.85.196
UI_CLUSTER_NAME         : obpui_cluster1
UI_SERVER_NAME          : obpui_server1
UI_TARGET               : /scratch/install/target
UI_MW_HOME              : /scratch/app/product/fmw
UI_JAVA_HOME            : /scratch/app/product/jdk1.8.0_101
OUI_JAVA_HOME           : /scratch/app/product/jdk1.8.0_101
CENTRAL_INVENTORY_LOC   : /scratch/app/oraInventory
INSTALL_AS              : ofssobp
IPM_SERVER_IP           : 10.180.6.143
IPM_SERVER_PORT         : 16000
OFSAA_SERVER_IP         : ofsaa-ofss.com
OFSAA_SERVER_PORT       : 17000
OAAM_SERVER_IP          : oaam-ofss.com
OAAM_SERVER_PORT        : 14900
OIM_SERVER_IP           : oim-ofss.com
OIM_SERVER_PORT         : 16000
UI_ADMIN_JVM_PARAMS     : -Xms2048m -Xmx4096m
UI_MANAGED_JVM_PARAMS   : -Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+C
MSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Djbo.load.components.lazily=true
HOST_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.195
HOST_ADMIN_SERVER_LISTEN_PORT   : 7001
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.195
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT   : 8001
SOA_ADMIN_SERVER_LISTEN_ADDRESS  : 10.180.85.159
SOA_ADMIN_SERVER_LISTEN_PORT     : 7001
KEYSTORE_PASSWORD              : welcome1
UI_SSL_PASSWORD                 : welcome1
UCM_READ_FROM_URL              : true
UCM_IP                         : ofss.ucm.com
UCM_PORT                       : 4444
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser

```

Figure 5–4 Confirmation to Proceed Domain Installation (contd)

```
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : welcome1
CARD_USERNAME                      : orakey
CARD_PASSWORD                      : welcome1
RULE_USERNAME                      : orakey
RULE_PASSWORD                      : welcome1
USER_TIMEZONE                      : +5:30
REMOTE_EXECUTION                   : Y
IPM_USERNAME                       : weblogic
IPM_PASSWORD                       : weblogic1
FTP_IPM_USERNAME                   : ofssobp
FTP_IPM_PASSWORD                   : ofssobp123
FTP_IPM_BATCH_USERNAME             : ofssobp
FTP_IPM_BATCH_PASSWORD             : ofssobp123
IPM_HOME                           : /scratch/app/product/fmw_ipm/Oracle_ECM1
BIP_SERVER_IP                      : 10.180.6.143
BIP_SERVER_PORT                    : 9502
BIP_UNIX_USER                      : ofssobp
BIP_HOME                           : /scratch/app/product/fmw_bip/bi
HOST_UNIX_USER                     : ofssobp

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 5–5 Copying and Extraction of obpinstall-ui.zip

```

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.
The authenticity of host '10.180.85.196 (10.180.85.196)' can't be established.
ECDSA key fingerprint is 31:10:21:f8:86:6a:ad:5e:5c:e0:ff:01:8b:d0:d6:d8.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.180.85.196' (ECDSA) to the list of known hosts.
ofssobp@10.180.85.196's password:
obpinstall-ui.zip
installobpui silent.properties
The configuration of OBP UI domain will begin immediately.
ofssobp@10.180.85.196's password:
Archive: /scratch/install/target/obpinstall-ui.zip
  inflating: /scratch/install/target/obpui_generic.jar
  inflating: /scratch/install/target/obpui_generic.jar
  inflating: /scratch/install/target/installdomain.sh
  inflating: /scratch/install/target/installdomain_silent.sh
  inflating: /scratch/install/target/obp-ui-post-install.sh
  inflating: /scratch/install/target/obp-ui-post-install.py
  inflating: /scratch/install/target/metadataSOAUpdate.sh
  inflating: /scratch/install/target/encryptPassword.py
  inflating: /scratch/install/target/docutils-0.12.tar.gz
  inflating: /scratch/install/target/JPyPyl-0.5.7.tar.gz
  inflating: /scratch/install/target/PyYAML-3.11.tar.gz
  inflating: /scratch/install/target/SOAPpy-0.12.5.tar.gz
  inflating: /scratch/install/target/suds-0.4.tar.gz
  inflating: /scratch/install/target/wstools-0.4.3.tar.gz
--> /scratch/app/product/jdk1.8.0_101/bin/java -jar /scratch/install/target/obpui_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpinstall
INVENTORY LOCATION=/scratch/app/orainventory
Launcher log file is /tmp/OraInstall2018-05-03_05-13-19PM/launcher2018-05-03_05-13-19PM.log.
Extracting files.....
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz. Actual 2693.763 MHz Passed
Checking swap space: must be greater than 512 MB. Actual 16057324 MB Passed
Checking if this platform requires a 64-bit JVM. Actual 64 Passed (64-bit not required)
Checking temp space: must be greater than 300 MB. Actual 30077 MB Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2018-05-03_05-13-19PM
.....
Installation Summary
.....
Disk Space : Required 1,292 MB, Available 296,965 MB
Feature Sets to Install:
  OBP UI Server FeatureSet 2.6.2.0.0
  Next Generation Install Core 13.2.0.0.0
  OPatch 13.2.0.0.0
.....
You can find the log of this install session at:

```


Figure 5–6 Copying and Extraction of obpinstall-ui.zip (contd)

```
.....
You can find the log of this install session at:
/tmp/OraInstall2018-05-03_05-13-19PM/install2018-05-03-05-13-19PM.log

Loading products list. Please wait.
..... 1%
..... 40%

Loading products. Please wait.
..... 44%
..... 47%
..... 50%
..... 53%
..... 56%
..... 60%
..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%

..... 24% Done.
..... 48% Done.
..... 72% Done.
..... 96% Done.

.....
Installation in progress (Thursday, May 3, 2018 5:13:44 PM IST)
..... 98% Done.
Install successful

Linking in progress (Thursday, May 3, 2018 5:13:44 PM IST)
.....
Installation in progress (Thursday, May 3, 2018 5:13:44 PM IST)
..... 98% Done.
Install successful

Linking in progress (Thursday, May 3, 2018 5:13:44 PM IST)
Link successful

Setup in progress (Thursday, May 3, 2018 5:13:44 PM IST)
Setup successful

Saving inventory (Thursday, May 3, 2018 5:13:44 PM IST)
Saving inventory complete
Configuration complete

End of install phases.(Thursday, May 3, 2018 5:13:44 PM IST)
Logs successfully copied to /scratch/app/oraInventory/logs.
```

Figure 5–7 Domain Creation Confirmation

```

.....
Installation in progress (Thursday, May 3, 2018 5:13:44 PM IST)
98% Done.
Install successful

Linking in progress (Thursday, May 3, 2018 5:13:44 PM IST)
Link successful

Setup in progress (Thursday, May 3, 2018 5:13:44 PM IST)
Setup successful

Saving inventory (Thursday, May 3, 2018 5:13:44 PM IST)
Saving inventory complete
Configuration complete

End of install phases.(Thursday, May 3, 2018 5:13:44 PM IST)
Logs successfully copied to /scratch/app/oraInventory/logs.

Initializing WebLogic Scripting Tool (WLST) ...

Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Read domain /scratch/app/product/fmw/user_projects/domains/ui_domain to applyJRF
Target JRF components to "obpui_cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/ui_domain/config
/fmwconfig/servers/obpui_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/ui_domain in offline mode
Domain created successfully.
[ofssobp@mum00adi ui]$

```

The above domain configuration process also creates files named obp-ui-post-install.sh and obp-ui-post-install.py in UI_MW_HOME location which are to be used to perform post installation configuration as elaborated in [Section 5.2 Post Installation Configuration](#).

5.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Enterprise Product Manufacturing Presentation Media Pack.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for UI, ensure the following:

- Node manager is not running on the UI machine.
- OID domain given in obppostinstallui.properties must exist in OID. (The OID domain is created at the time of host pre-install).
- Node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
cd <middleware home>
cd user_projects/domains/obpuidomain/bin
./startWebLogic.sh
```

2. Enter the username and the password to ensure that the WebLogic server starts up.

Figure 5–8 UI Admin Server Credentials

```
Enter username to boot WebLogic server:weblogic
Enter password to boot WebLogic server:
May 9, 2018, 3:13:04 PM IST: <WebLogicServer> <BEA-000365> <Server state changed to STARTING>
```

Figure 5–9 UI Admin Server Running

```
FMWProv: Integration Class called and was reloaded for me
PostInstallConfigIntegration:oracle_ias_farm target auth registration is done.
CompositesProvIntegration init...
getAllPluginOracleHomes: ConnectionService is null
getAllPluginOracleHomes: ConnectionService is null
Anonymous url config processing:/WEB-INF/config/anonymous-access-emcore.config
Anonymous-urls:[/em/IESvgdetect.js.*, /em/LoginStatusServlet.*, /em/adf.*, /em/adflib.*, /em/afr.*, /em/bi.*, /em/bmp/discovertargets, /em/cabo.*,
/em/console/help.*, /em/console/logon.*, /em/consoleStatus.jsp, /em/dynamicImage.*, /em/ecm/csa/CSA.jar, /em/ecm/csa/CSA.mb, /em/ecm/csa/csabanner.
gif, /em/emcli/custAttrib.*, /em/emr.*, /em/faces/logon.*, /em/faces/helppages.*, /em/flashbridge.*, /em/formsapp/lib/formsRecorder.jar, /em/images
/.*, /em/install/getAgentImage, /em/helppages/help.*, /em/jslibs.*, /em/jsLibsObf.*, /em/login.jsp, /em/mapproxy.*, /em/mobile/core/uifwk/skins.*,
/em/ocamm/lib.*, /em/onetime.*, /em/ovs/discovertargets, /em/public.*, /em/public_lib_download.*, /em/redirect.*, /em/relocatetarget.*, /em/sdkImpl/
core/uifwkmobile/skins.*, /em/servlet/GaugeServlet.*, /em/servlet/GraphServlet.*, /em/swlib/getfile, /em/VncViewer.jar, /em/websvcs.*, /em/jobrecv.*]
<May 9, 2018, 3:18:25,793 PM IST> <Notice> <Log Management> <BEA-170027> <The server has successfully established a connection with the Domain Level D
iagnostic Service.>
<May 9, 2018, 3:18:26,991 PM IST> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to ADMIN.>
<May 9, 2018, 3:18:27,107 PM IST> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RESUMING.>
<May 9, 2018, 3:18:27,109 PM IST> <Warning> <JMX> <BEA-149535> <JMX Resiliency Activity Server=All Servers : Resolving connection list DomainRuntimeSe
rviceMBean>
<May 9, 2018, 3:18:27,338 PM IST> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.180.85.196:7001 for protocols iiop, t3, lda
p, snmp, http.>
<May 9, 2018, 3:18:27,344 PM IST> <Alert> <Security> <BEA-090153> <Demo identity certificate is used in production mode: [
[
  Version: V3
  Subject: CN=DemoCertFor_ui domain
  Signature Algorithm: SHA256withRSA, OID = 1.2.840.113549.1.1.11

  Key: Sun RSA public key, 1024 bits
  modulus: 1167456889253825025480926869091926496852848865506649473131555460033254586463387768039353573309013374752798101528633717677150428907934740480
714811946902060408079898980495455613517468803286663115243515362374635305298382673694298536842566442877518165719775797175668533963201933187176869575898
90836657936273717573
  public exponent: 65537
  Validity: [From: Wed May 09 15:15:09 IST 2018,
              To: Mon May 08 15:15:09 IST 2023]
  Issuer: CN=CertGenCA, OU=FOR TESTING ONLY, O=MyOrganization, L=MyTown, ST=MyState, C=US
  SerialNumber: [ 0163444a 4b53]

Certificate Extensions: 1
[1]: ObjectId: 2.5.29.14 Criticality=false
```

Figure 5–10 UI Admin Server Running (contd)

```

KeyIdentifier [
0000: 07 D2 F0 F5 02 B5 9A 1B 53 2B C7 62 D5 98 F0 E1 .....S+b....
0010: 6A EC 92 37 j..7
]
]
]
]
Algorithm: [SHA256withRSA]
Signature:
0000: 27 D6 9F 3A AC 3F 12 AB C7 DE E9 BE 54 1D 96 5F '...?.....T._
0010: 9B 38 75 C6 C4 48 6A 38 4C 1E 2A 46 E9 59 19 3B .8u..Hj8L.*F.Y.;
0020: 0E 32 4B 3F 30 B5 42 4C 1A FE 2C C2 6C F1 E6 02 .2K?0.BL...,l...
0030: 50 88 0F 28 2F 45 AD 42 37 C3 C7 03 EF E9 64 22 P../E.B7.....d"
0040: B5 D9 E0 2A 9E 08 D9 E5 3B ED 04 B5 A0 6B 0B 62 ...*....;....k.b
0050: 9B 64 CA 4D 0A 6B 35 B0 1D E8 A0 CE D4 5D CF 93 .d.M.k5.....]..
0060: F8 AA F7 11 B1 C1 08 2D 2D EA 34 79 EF 12 54 5F .....--4y..T_
0070: E8 AC 30 83 3C 03 DA 22 5E 3D 82 A9 AE 78 74 0F ..0.<.."^=...xt.
0080: 32 80 D1 17 7B AD FC BC 95 55 DA 7E 86 47 94 BB 2.....U...G..
0090: 5C 92 6F E6 30 8C B7 62 12 E3 D7 9F EB DE F7 07 \.o.0..b.....
00A0: 21 B6 B0 61 53 44 EF 53 62 31 23 43 94 0B 87 4F !..aSD.Sb1#C...0
00B0: CC B1 C9 36 40 37 52 A8 D2 82 90 75 0E 96 7D 82 ...6@7R....u....
00C0: 90 36 99 EA EC 1F 52 DF 92 D4 AB 0E 79 F8 CE 2B .6....R.....y..+
00D0: A7 A6 5A 14 ED 9D 0B 76 86 2A 29 86 E6 70 7F 8E ..Z....v.*)..p..
00E0: 19 A9 79 44 76 A5 E6 C6 79 62 88 E7 B9 63 2F B9 ..yDv....yb...c/.
00F0: FE 87 76 8B 67 9B 00 B7 CA 81 51 9A D1 58 FF FE ..v.g.....Q..X..

] The system is vulnerable to security attacks, since the server private key is available to the public.>
<May 9, 2018, 3:18:27,345 PM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure" is now listening on 10.180.85.196:7002 for protocols iiopts,
t3s, ldaps, https.>
<May 9, 2018, 3:18:27,345 PM IST> <Notice> <WebLogicServer> <BEA-000329> <Started the WebLogic Server Administration Server "AdminServer" for domain "
ui_domain" running in production mode.>
<May 9, 2018, 3:18:27,345 PM IST> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.180.85.196:7001 for protocols iiopt, t3, lda
p, snmp, http.>
<May 9, 2018, 3:18:27,345 PM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure" is now listening on 10.180.85.196:7002 for protocols iiopts,
t3s, ldaps, https.>
<May 9, 2018, 3:18:27,348 PM IST> <Notice> <WebLogicServer> <BEA-000360> <The server started in RUNNING mode.>
<May 9, 2018, 3:18:27,360 PM IST> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING.>

```

- Once the server status changes to RUNNING proceed to execute the post installation script.
- Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-ui-post-install.sh will be listed along with other files and directories.
- Navigate to the UI middleware location and give executable permission to the post install script:

```
$cd <ui middleware home>
```

- Execute the script using the following commands:

```
$./obp-ui-post-install.sh
```

Figure 5–11 Starting Post Installation

```
[ofssobp@mum00adi fmw]$ ./obp-ui-post-install.sh
DOMAIN_NAME                : ui_domain
DOMAIN_DIRECTORY_LOCATION  : /scratch/app/product/fmw/user_projects/domains
ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.196
ADMIN_SERVER_LISTEN_PORT   : 7001
MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.196
MANAGED_SERVER_SSL_LISTEN_PORT : 8002
MANAGED_SERVER_LISTEN_PORT : 8001
WEBLOGIC_USERNAME          : weblogic
WEBLOGIC_PASSWORD          : weblogic1
UI_IP                      : 10.180.85.196
UI_TARGET                  : /scratch/install/target
UI_MW_HOME                 : /scratch/app/product/fmw
KEYSTORE_PASSWORD          : welcome1
UI_SSL_PASSWORD            : welcome1
INSTALL_AS                 : ofssobp
HOST_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.195
HOST_ADMIN_SERVER_LISTEN_PORT   : 7001
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.195
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT   : 8001
LDAP_PROVIDER              : OID
OID_IP                     : 10.180.87.84
OID_PORT                   : 389
OID_ADMIN_USER             : cn=orcladmin
OID_ADMIN_PWD              : welcome1
OID_GROUP_DSN              : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN               : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT              : 5556
IPM_SERVER_IP              : 10.180.6.143
IPM_SERVER_PORT            : 16000
OFSAA_SERVER_IP            : ofsaa-ofss.com
OFSAA_SERVER_PORT          : 17000
OAAM_SERVER_IP             : oaam-ofss.com
OAAM_SERVER_PORT           : 14000
OIM_SERVER_IP              : oim-ofss.com
OIM_SERVER_PORT            : 16000
```

Figure 5–12 Starting Post Installation (contd)

```
OIM_SERVER_IP           : oim-ofss.com
OIM_SERVER_PORT         : 16000
UCM_READ_FROM_URL       : true
UCM_IP                  : ofss.ucm.com
UCM_PORT                : 4444
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : welcomel
CARD_USERNAME           : orakey
CARD_PASSWORD           : welcomel
RULE_USERNAME           : orakey
RULE_PASSWORD           : welcomel
USER_TIMEZONE           : +5:30
IPM_USERNAME            : weblogic
IPM_PASSWORD            : weblogic1
FTP_IPM_USERNAME        : ofssobp
FTP_IPM_PASSWORD        : ofssobp123
FTP_IPM_BATCH_USERNAME  : ofssobp
FTP_IPM_BATCH_PASSWORD  : ofssobp123
HOST_UNIX_USER          : ofssobp
BIP_SERVER_IP           : 10.180.6.143
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
```

Figure 5–13 Continuation of Post-Installation

```

USER_TIMEZONE           : +5:30
IPM_USERNAME            : weblogic
IPM_PASSWORD            : weblogic1
FTP_IPM_USERNAME        : ofssobp
FTP_IPM_PASSWORD        : ofssobp123
FTP_IPM_BATCH_USERNAME  : ofssobp
FTP_IPM_BATCH_PASSWORD  : ofssobp123
HOST_UNIX_USER          : ofssobp
BIP_SERVER_IP           : 10.180.6.143
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...
ofssobp@10.180.6.143's password:
il8nAPI_v3.jar                                100% 904KB 904.4KB/s 00:00
il8nAPI_v3.jar copied from BIP machine
ofssobp@10.180.6.143's password:
xdocore.jar                                    100% 9060KB 8.9MB/s 00:01
xdocore.jar copied from BIP machine
ofssobp@10.180.6.143's password:
versioninfo.jar                               100% 6204KB 6.1MB/s 00:00
versioninfo.jar copied from BIP machine
ofssobp@10.180.6.143's password:
imaging-client.jar                            100% 863KB 863.3KB/s 00:00
imaging-client.jar copied from IPM machine
ofssobp@10.180.6.143's password:
oracle.ucm.ridc-11.1.1.jar                    100% 619KB 618.9KB/s 00:00
oracle.ucm.ridc-11.1.1.jar copied from IPM machine
Certificate stored in file <mum00adi.in.oracle.com.cer>
Certificate was added to keystore
Certificate stored in file <orakey.crt>
Logging WLS stderr to /scratch/app/product/fmw/user_projects/domains/ui_domain/servers/AdminServer/stderr.log
-----
/scratch/app/product/fmw/obpininstall/obp
ofssobp@10.180.85.159's password:

```

Figure 5–14 Continuation of Post-Installation (contd)

```

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...
ofssobp@10.180.6.143's password:
il8nAPI v3.jar                                100% 904KB 904.4KB/s 00:00
il8nAPI v3.jar copied from BIP machine
ofssobp@10.180.6.143's password:
xdocore.jar                                    100% 9060KB 8.9MB/s 00:00
xdocore.jar copied from BIP machine
ofssobp@10.180.6.143's password:
versioninfo.jar                               100% 6204KB 6.1MB/s 00:00
versioninfo.jar copied from BIP machine
ofssobp@10.180.6.143's password:
imaging-client.jar                            100% 863KB 863.3KB/s 00:00
imaging-client.jar copied from IPM machine
ofssobp@10.180.6.143's password:
oracle.ucm.ridc-11.1.1.jar                    100% 619KB 618.9KB/s 00:00
oracle.ucm.ridc-11.1.1.jar copied from IPM machine
Certificate stored in file <mum00adi.in.oracle.com.cer>
Certificate was added to keystore
Certificate was added to keystore
Certificate stored in file <orakey.crt>
Logging WLS stderr to /scratch/app/product/fmw/user_projects/domains/ui_domain/servers/AdminServer/stderr.log
-----
/scratch/app/product/fmw/obpinstall/obp
ofssobp@10.180.85.159's password:
cwallet.sso.lck                                100% 0 0.0KB/s 00:00
cwallet.sso                                    100% 1381 1.4KB/s 00:00
ofssobp@10.180.85.159's password:
keystores.xml                                  100% 195KB 195.2KB/s 00:00
[ofssobp@mum00adi fmw]$

```

7. For monitoring the script run check the following log files created under the ui domain directory:

- obp-ui-install-log.txt
- obp-ui-install-log-py.txt

6 Standalone Database Setup

This chapter details the steps involved in Oracle Banking Enterprise Product Manufacturing Database which are primarily concerned with importing an existing database dump of the QA database.

6.1 Pre-Installation Steps

The following steps should be completed prior to the process of executing the installation steps for the Oracle Banking Enterprise Product Manufacturing DB mentioned in [Section 6.2 OBEPM Database Setup – RCU Installation](#):

1. Oracle Database Enterprise Edition 12.2.0.1.0 must be installed on the database server.
2. Obtain the tar file dbscripts.tar.gz from OBEPM Host media pack (dbscripts.tar.gz is present in host.zip) and copy it onto the database server.
3. Ensure that the ONS service is started after DB installation.

6.2 OBEPM Database Setup – RCU Installation

The steps that should be performed to create the OBEPM Host DB schema are provided in [Section 6.3.1 Host DB Schema Creation and Verification](#)

For other RCU schemas, while installing software on HOST, UI, and SOA, specific RCU should execute to create schemas for SOA, UI, and HOST.

RCU utility is present under <MW_HOME/oracle_common/bin> for respective components.

Following is the list of schemas to be created for SOA, UI, and HOST, respectively (please note, SOA, UI and HOST are the prefix in below schemas which is given during schema creation).

- SOA_SOAINFRA
- SOA_MDS
- SOA_STB
- SOA_UMS
- SOA_OPSS
- SOA_IAU_APPEND
- SOA_IAU_VIEWER

- UI_STB
- UI_OPSS
- UI_MDS

- UI_IAU_APPEND
- UI_IAU_VIEWER

- HOST_STB
- HOST_OPSS
- HOST_IAU_APPEND
- HOST_IAU_VIEWER
- HOST_MDS

UI_MDS and UI_STB schemas are used by UI component.

HOST_MDS and HOST_STB schemas are used by HOST component.

SOA_SOAINFRA, SOA_STB, SOA_MDS and SOA_UMS schemas are used by SOA component.

UI_OPSS and HOST_OPSS schemas are used for silent domain creation in pre installation by UI and HOST respectively.

SOA_OPSS, SOA_IAU_APPEND and SOA_IAU_VIEWER schemas are shared by HOST and UI also pointed during post installation of HOST and UI.

Increase the size of tablespace (at least 6GB and should be in auto extend mode on) for SOA_MDS, SOAINFRA and OPSS schema used for SOA domain creation.

6.3 Oracle Banking Enterprise Product Manufacturing Database Installation

This section includes steps for application schema creation along with execution of its ddl and seed. Also it includes system configuration database update and table partitioning.

6.3.1 Host DB Schema Creation and Verification

For the host db schema creation, copy the dbscripts.tar.gz file from OBEPM Host media pack (dbscripts.tar.gz is present in host.zip) location to any machine where 'sqlplus' is available.

Untar dbscripts.tar.gz file which contains createobp.sql, ddl and seed file and folders. (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server.)

In createobp.sql, Replace &&1, &&2 and &&3 with schema, password, and tablespace name.

Before executing createobp.sql, make sure tablespace is created in the database.

The createobp.sql will create application schema with required database grants.

createobp.sql execution

```
PROMPT> sqlplus sys/password@TNSentryOfDB as sysdba @createobp.sql
```

6.3.2 HOST DB schema ddl execution

Open command prompt and navigate inside "ddl" folder in the machine where it has been copied. Then run the following using the actual details of host db schema which is created.

Connect to application schema (which is created using createobp.sql) using sqlplus

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @ddl/SCHEMA_
DDL.sql
```

The example assumes that the seed is being executed from "D:\ORACLE" folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\ORACLE
D:\ > sqlplus DEV_OBEPM/welcome1@OBEPMDB
D:\ > @ddl/SCHEMA_DDL.sql
```

The following verification steps can be executed to check that the Database setup is complete:

1. Verify that the new tablespace is created.
2. Log on to the database with user id created.
3. Execute the query "select * from tab;" on the sql prompt to verify that the OBEPM tables are present.

6.3.3 HOST DB Schema Seeding

Open command prompt and navigate inside the 'seed' folder in the machine where it has been copied. Run the following commands using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @seed.sql
```

For example, assume that the seed is being executed from 'D:\seed' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\seed
D:\seed > sqlplus DEV_OBEPM/welcome1@OBEPMDB
D:\seed > @seed.sql
```

It will take some time to completely execute all the seed scripts. It will ask for some inputs at the time of seeding, just press Enter to continue. When OBEPM DB seeding is completed, the control will return to the sql prompt.

6.3.4 System Configuration DB Update Script Execution

After the host db schema has been created successfully, copy the 'updateSystemDetails.sql' file from 'SOA_MW_HOME' location to any machine where 'sqlplus' is available. (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server).

Now, open command prompt and navigate 'updateSystemDetails.sql' file in the local machine where it has been copied. Then run the following using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @
updateSystemDetails.sql
```

For example, assume that the seed is being executed from 'D:\script' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\script
D:\seed > sqlplus DEV_OBEPM@welcome1@OBEPMDB
D:\seed > @updateSystemDetails.sql
```


7 Oracle Banking Enterprise Product Manufacturing and IPM Integration

This chapter details the steps involved in the integration of Oracle Banking Enterprise Product Manufacturing and Oracle Imaging and Process Management (IPM).

OBEPM integrates natively with Oracle IPM as the content management solution. Configuration information relevant from an OBEPM point of view is provided in the following sections:

- [Section 7.1 IPM Application Setup for OBEPM Content Management](#)
- [Section 7.2 IPM Configuration for Bulk Upload Process Setup](#)
- [Section 7.3 IPM Report Upload Setup](#)

The steps listed therein should be followed to configure IPM to facilitate it to integrate with OBEPM. However, you can see the administration guide for Oracle IPM for details on how to manage connections, inputs and applications in IPM.

7.1 IPM Application Setup for OBEPM Content Management

This is a mandatory configuration required on IPM to enable integration of OBEPM with IPM for content management.

The following properties from the checklist should be used for creating connection profiles in the Manage Connections section. These connection profiles will be used while creating the applications on the next section on Manage Applications.

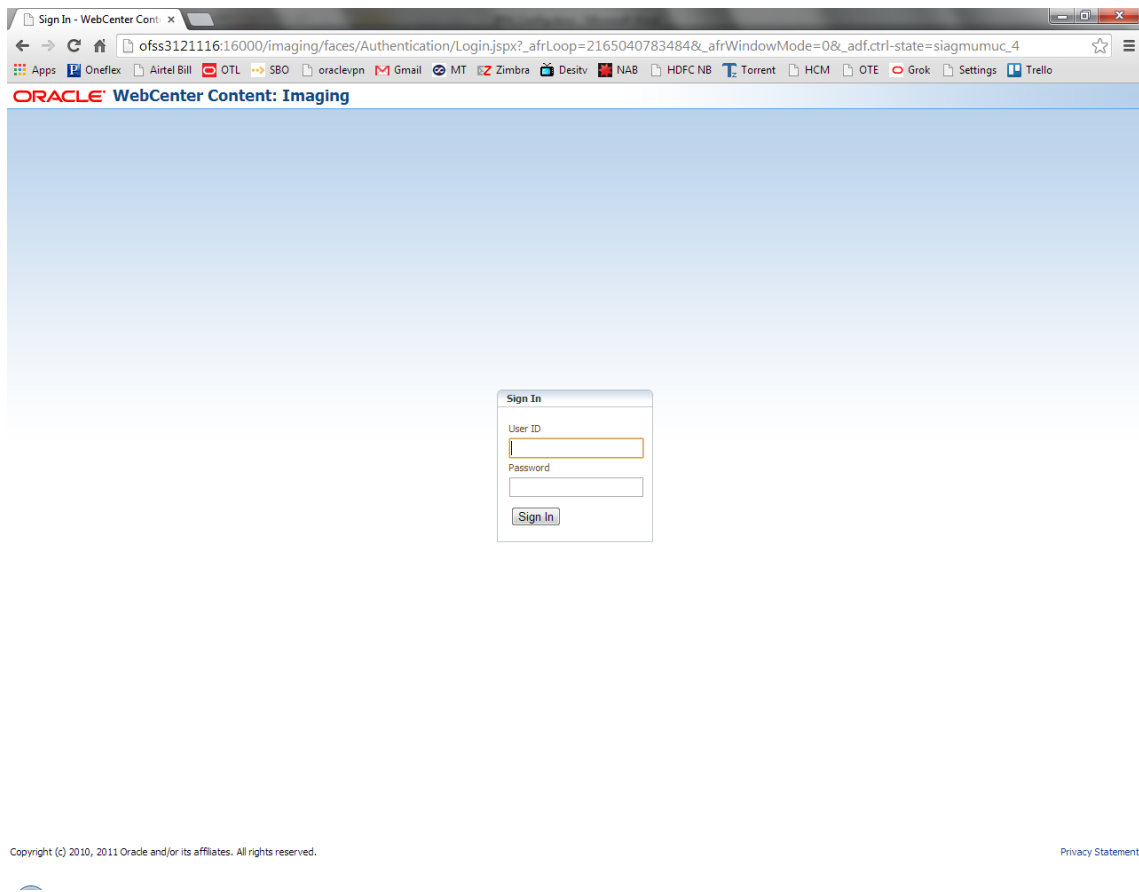
7.1.1 UCM Connection

The UCM connection is used to point to the underlying UCM Server where the documents are stored.

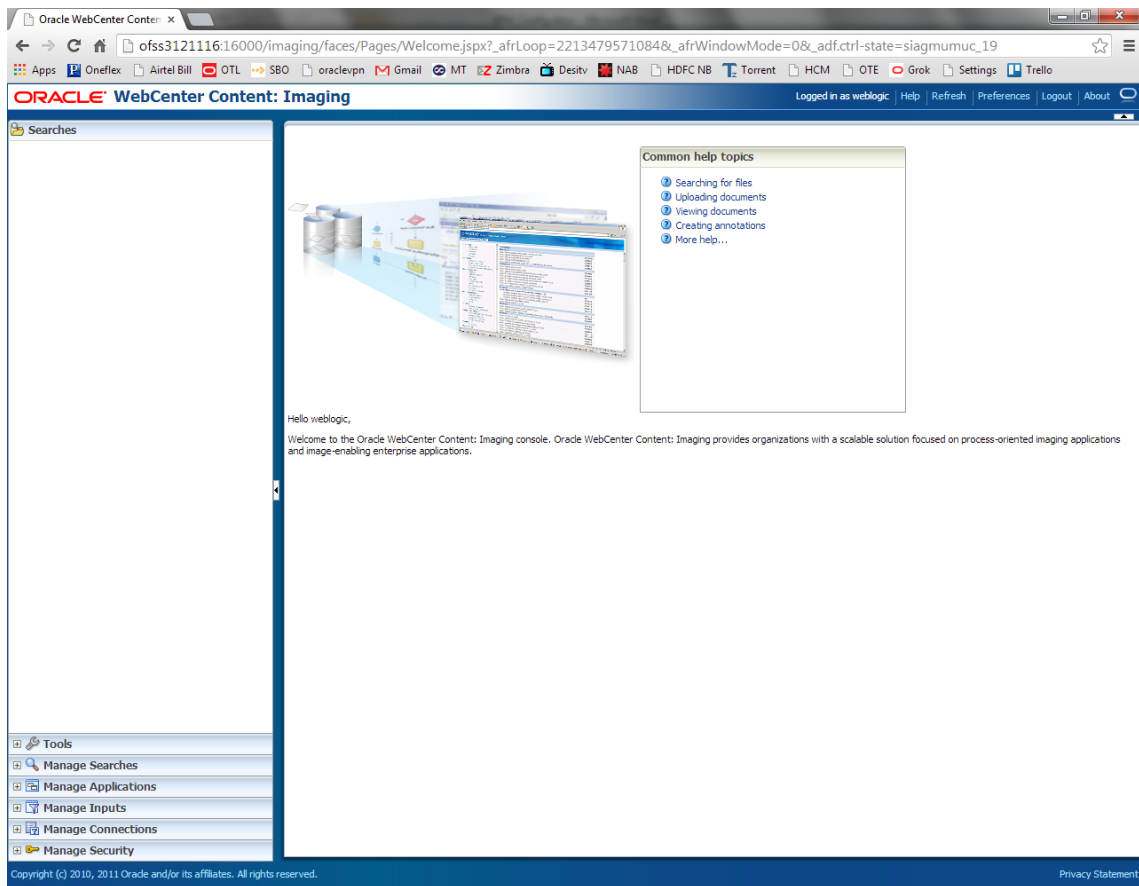
1. Log in to IPM imaging console through a URL such as follows:

`http://hostname:16000/imaging`

Figure 7–1 IPM Imaging Console - Login page

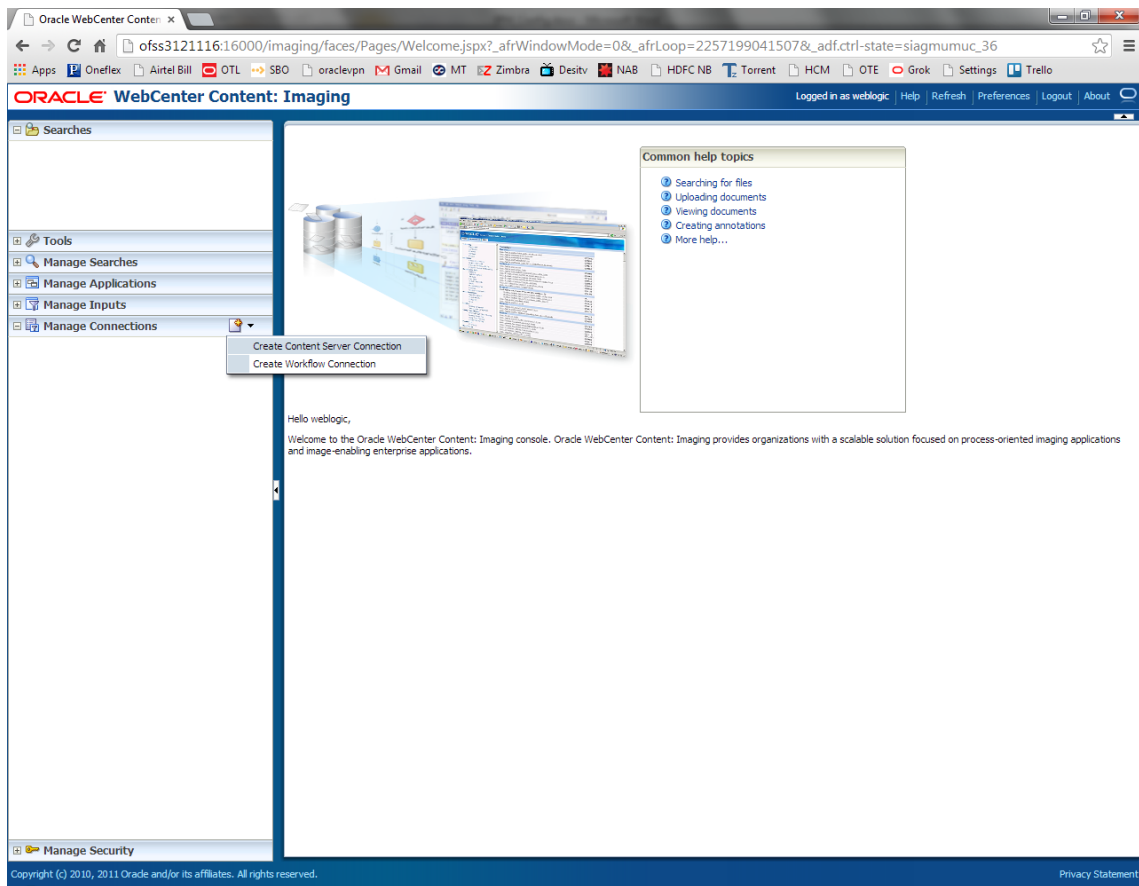


2. Enter the user ID and password set during IPM installation.

Figure 7–2 IPM - Welcome page

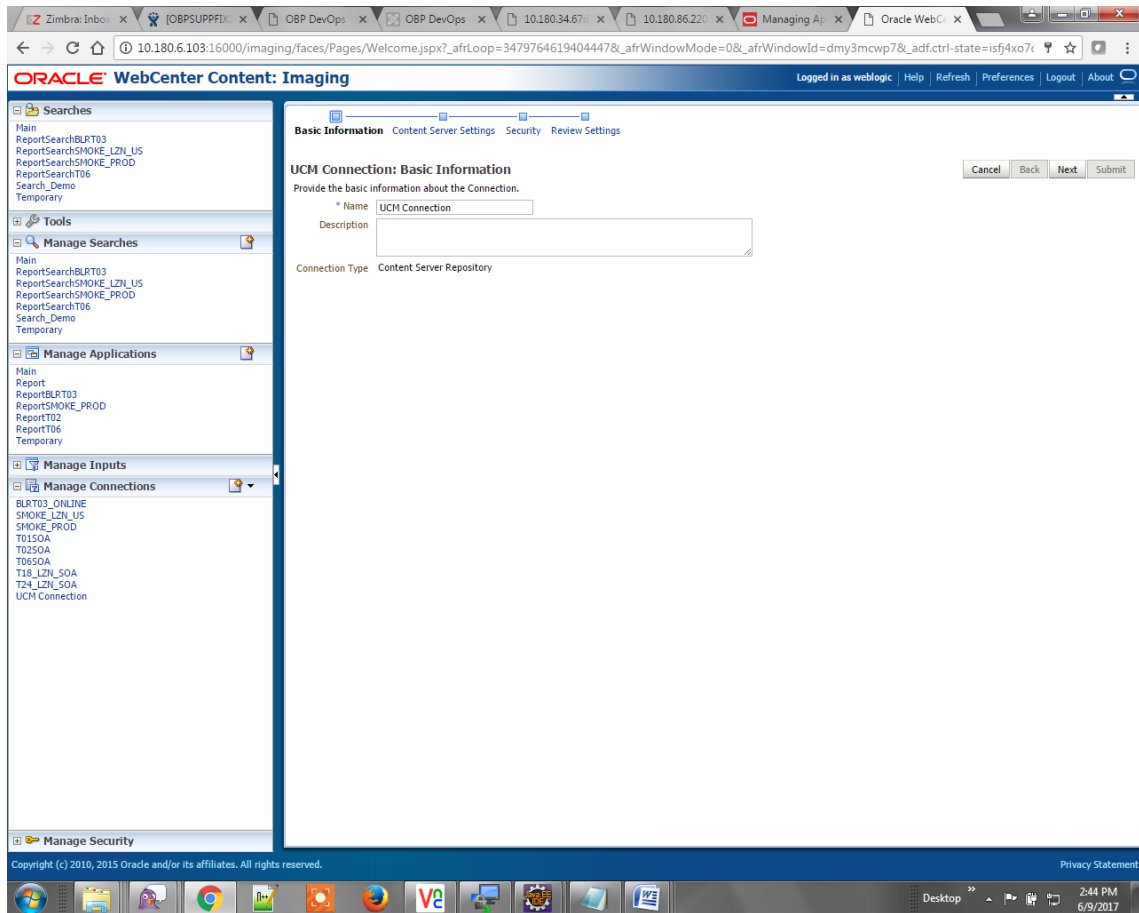
3. Navigate to Manage Connection and select Create Content Server Connection.

Figure 7–3 Create Content Server Connection



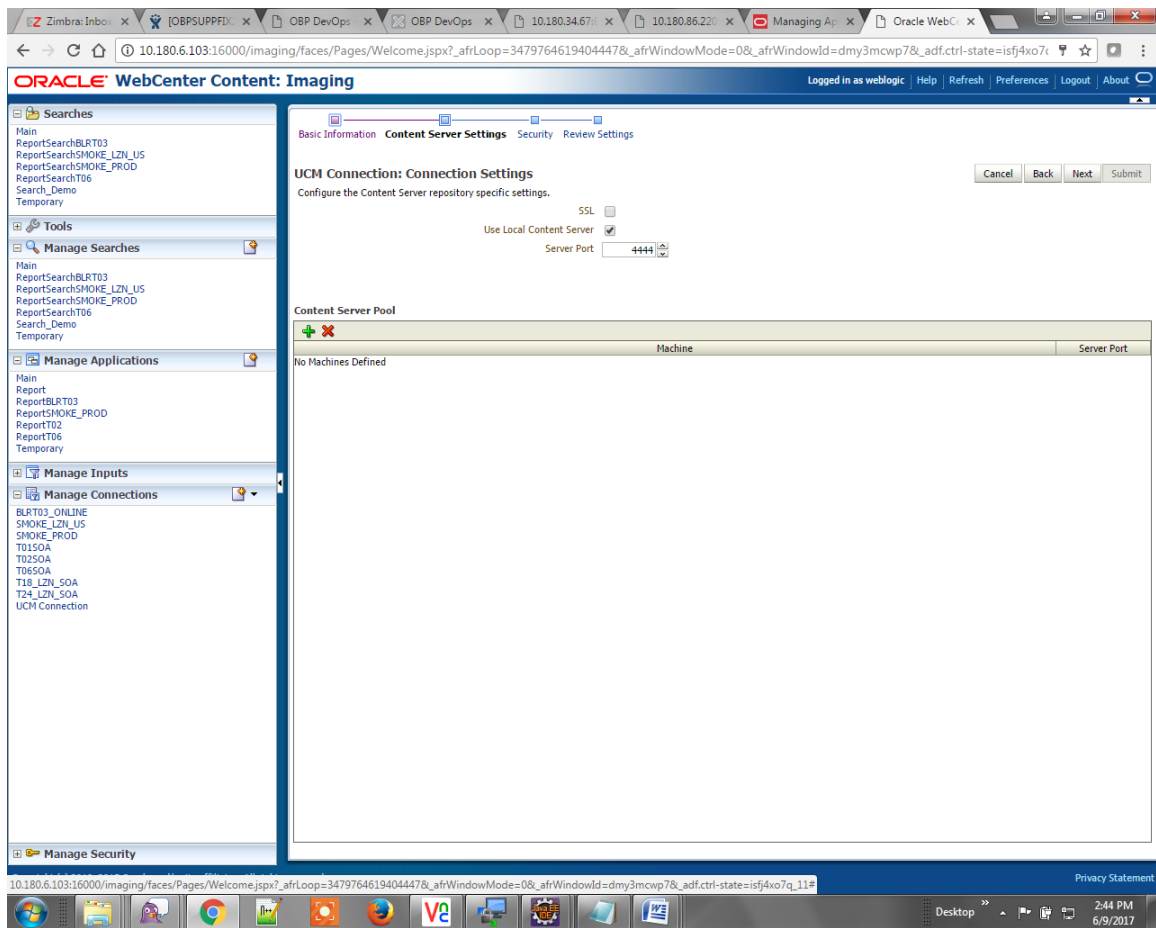
4. In the Basic Information stage, enter the name and description for Content Server Connection as UCM Connection and click Next.

Figure 7–4 UCM: Basic information



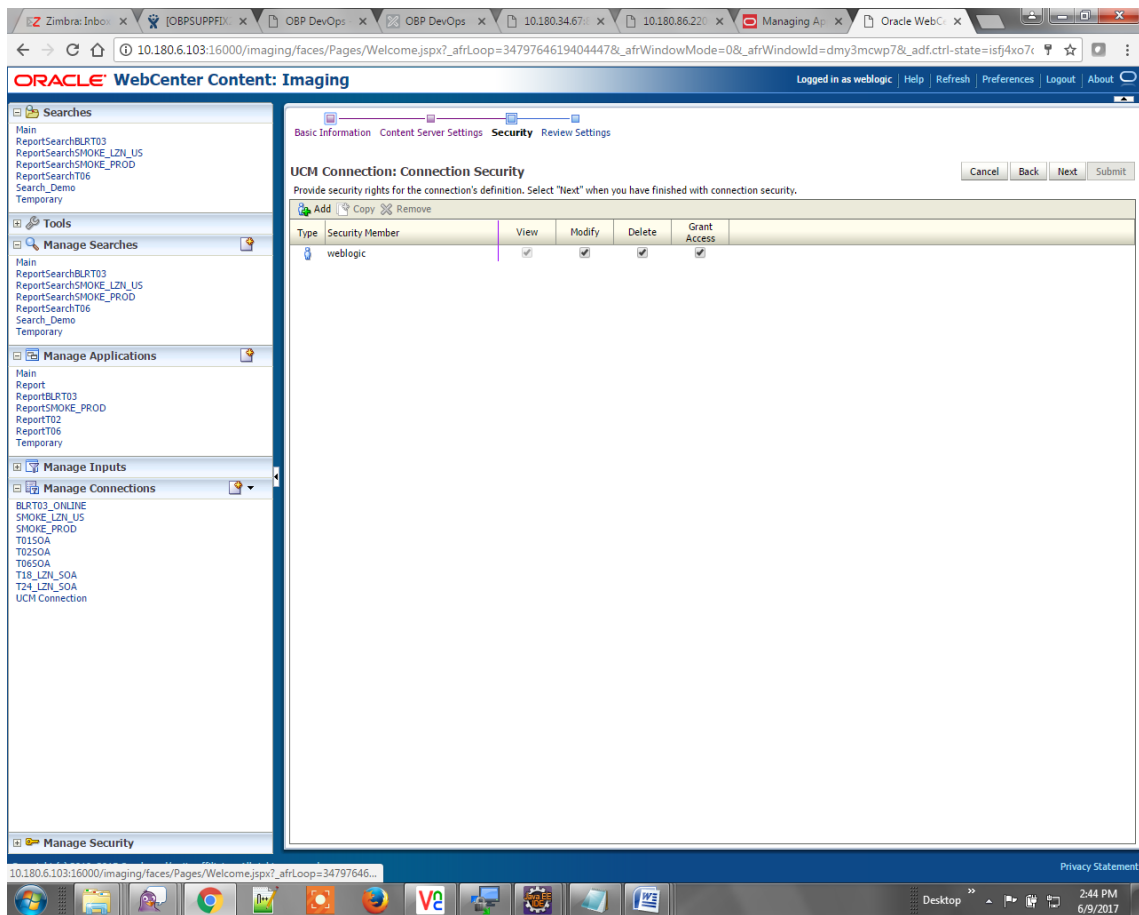
5. In the Content Server Settings page, select the Use Local Content Server check box and select the Server Port as 4444. Click Next.

Figure 7–5 UCM: Connection Settings



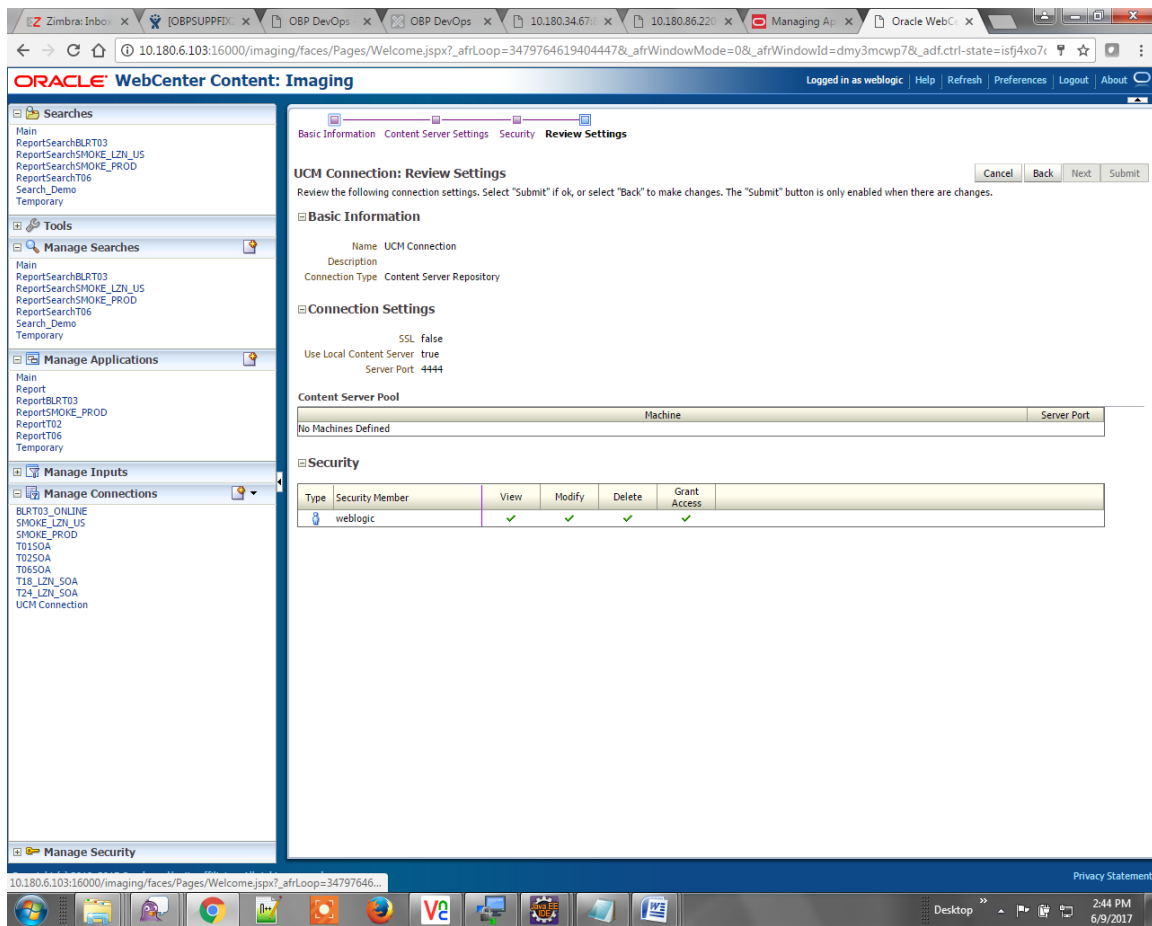
6. In the Security stage, select security rights for connection definition as shown below and click Next. If weblogic security member is not present, create it by clicking Add.

Figure 7–6 UCM: Connection Security



7. In the Review Settings stage, review the settings and click **Submit**.

Figure 7–7 UCM: Review Settings



7.1.2 Main Application Configuration

The documentation for Oracle IPM should be referred to for details on how to create applications in IPM. For more information, see https://docs.oracle.com/cd/E14571_01/admin.1111/e12782/c04_applications.htm#IPMAD159.

Create a main application and a temporary application in IPM.

7.1.2.1 Manage Application Configuration

To manage application configuration:

1. Select Create New Application option.
2. Enter the general properties and click **Next**.

Figure 7–8 Main: General Properties

The screenshot shows the Oracle WebCenter Content: Imaging interface. The left sidebar contains a tree view with categories: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. Under 'Manage Applications', the 'Main' application is selected. The main content area is titled 'Main: General Properties' and includes a breadcrumb trail: General Properties > Field Definitions > Application Security > Document Security > Storage Policy > Workflow Configuration > Review Settings. The page contains the following fields and options:

- Application Id:** 2
- * Application Name:** Main
- Description:** (Empty text box)
- Repository:** UCM Connection
- Full-Text Option:** ☒ None, ☐ Fast Check In, ☐ Full-Text Search

Buttons at the top right include Cancel, Back, Next, and Submit. The bottom status bar shows the URL '10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=34797646...', a 'Privacy Statement' link, and a system clock showing '2:21 PM 6/9/2017'.

3. Enter the field definition details and click **Next**.

Figure 7–9 Main: Field Definitions

Oracle WebCenter Content: Imaging

General Properties **Field Definitions** Application Security Document Security Storage Policy Workflow Configuration Review Settings

Main: Field Definitions

Provide field definitions for the application's content. Select "Next" when you have finished with field definitions.

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	Customer Id	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	Document ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	Document Descrip	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	SUBMISSION	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	APPLICATION	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERAL	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	PARTY	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	FACILITY	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	PRODUCT_GROUP	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	Indexes	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	MarketEntity	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	BusinessUnit	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	ReceivedComment	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	EVENTIDFACILITY	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERAL ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	INSTRUMENTTYPE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	REVIEW_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	FACILITY_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	CHARGE CODE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Figure 7–10 Field Definitions (cont.)

Oracle WebCenter Content: Imaging

General Properties **Field Definitions** Application Security Document Security Storage Policy Workflow Configuration Review Settings

Main: Field Definitions

Provide field definitions for the application's content. Select "Next" when you have finished with field definitions.

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	FINANCIALS	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	PARTY_IDS	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERALVALU	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	P_CHARGE_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	P_REPORT_TYPE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	LINKAGE_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERALCOVE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	CUSTOMER_CONT	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	P_BRANCH_GRP_C	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	CASE_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERALTITLE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	SIMULATION_ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	BORROWING ENT	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	OFFER_TERM_ANI	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	SETTLEMENT_INS	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	EVENT	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	COLLATERALID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	OTHER_IDENTIFI	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	OFFER_BUNDLE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	SUBMISSION_IDO	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>

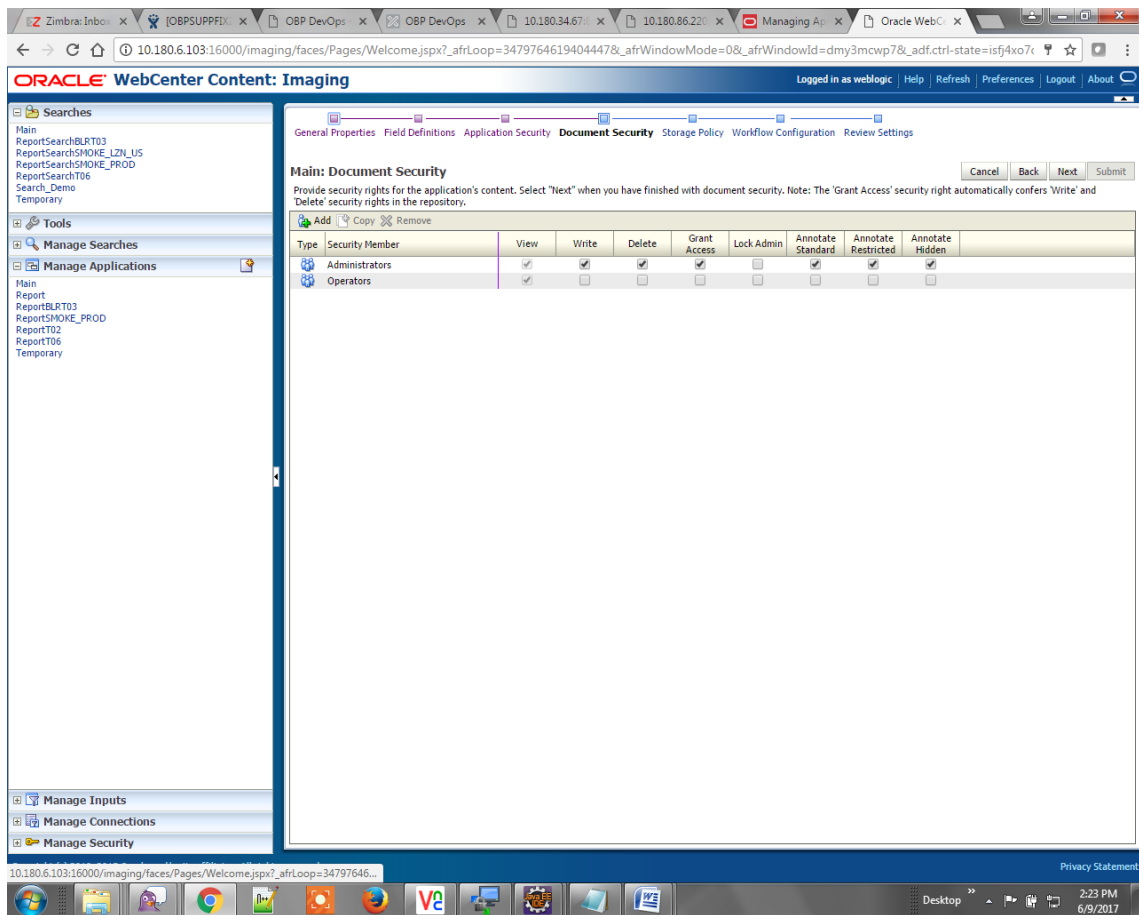
- In Application Security and Document Security pages, select the access rights for users and click **Next**.

Figure 7–11 Main: Application Security

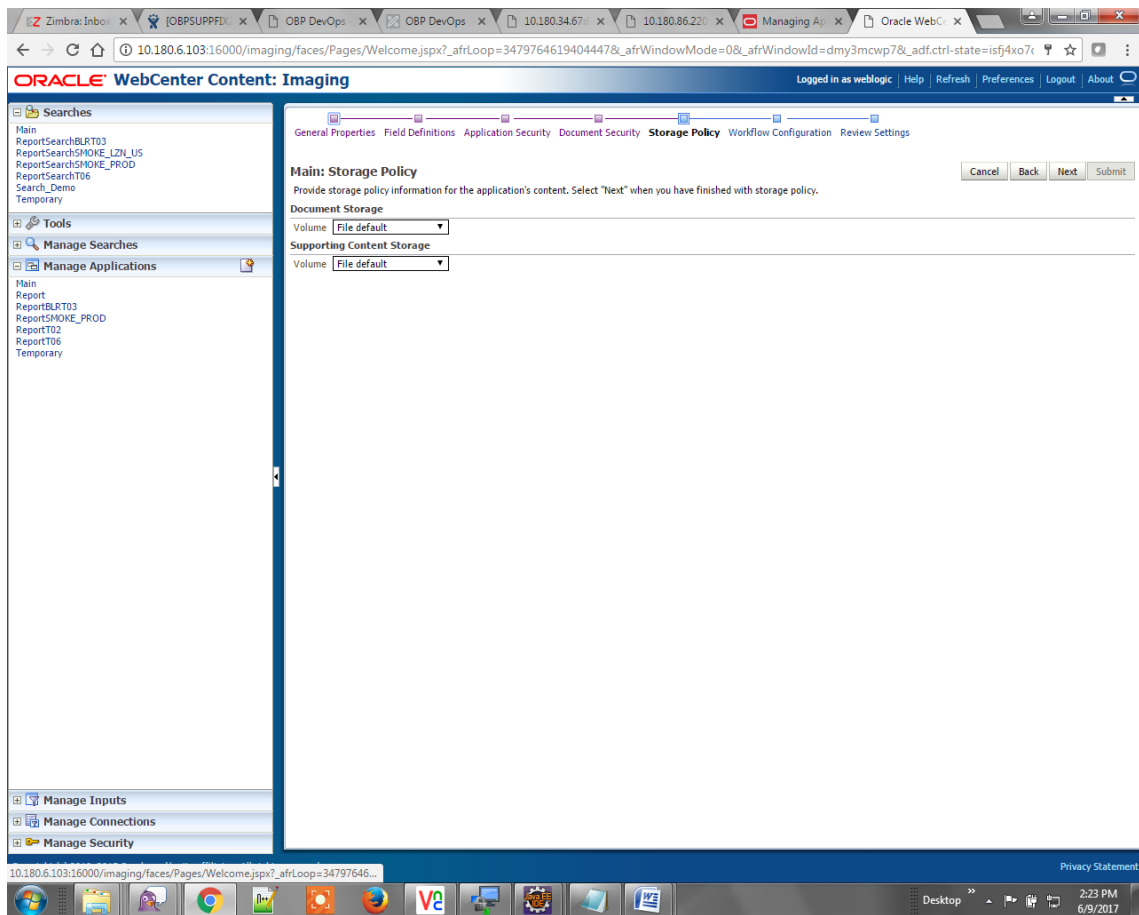
The screenshot displays the Oracle WebCenter Content: Imaging interface. The left sidebar contains navigation links for Searches, Tools, Manage Searches, and Manage Applications. The main content area is titled 'Main: Application Security' and includes a breadcrumb trail: General Properties > Field Definitions > Application Security > Document Security > Storage Policy > Workflow Configuration > Review Settings. Below the title, there is a table of security members.

Type	Security Member	View	Modify	Delete	Grant Access
Group	OracleSystemGroup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User	weblogic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 7–12 Main: Document Security



5. In the Storage Policy page, select the file default option as shown below.

Figure 7–13 Main: Storage Policy

6. Click **Next**. Skip the Workflow Configuration page.
7. Click **Next**.

8. Review the summary and click **Submit**.

Figure 7–14 Main: Review Settings

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

General Properties | Field Definitions | Application Security | Document Security | Storage Policy | Workflow Configuration | **Review Settings**

Main: Review Settings

The following is a summary of the information you entered. Please review the content and click "Submit" to modify the Application or "Back" to make changes. The "Submit" button is only enabled when there are changes.

General Properties

Application Id 2
 Application Name Main
 Description
 Repository UCM Connection
 Full-Text Option None

Field Definitions

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80			✓		
Abc	Customer Id	80			✓		
Abc	Document ID	80			✓		
Abc	Document Descrip...	80			✓		
Abc	SUBMISSION	80			✓		
Abc	APPLICATION	80			✓		
Abc	COLLATERAL	80			✓		
Abc	PARTY	80			✓		
Abc	FACILITY	80			✓		
Abc	PRODUCT_GROUP...	80			✓		
Abc	Indexes	80			✓		
Abc	MarketEntity	80			✓		
Abc	BusinessUnit	80			✓		
Abc	ReceivedComments	80			✓		
Abc	EVENTIDFACILITYID	80			✓		
Abc	COLLATERAL ID	80			✓		
Abc	INSTRUMENTTYPE	80			✓		
Abc	REVIEW_ID	80			✓		
Abc	FACILITY_ID	80			✓		
Abc	CHARGE CODE	80			✓		

Application Security

Type	Security Member	View	Modify	Delete	Grant Access
OracleSystemGroup		✓	✓	✓	✓
weblogic		✓	✓	✓	✓

Copyright (c) 2010, 2015 Oracle and/or its affiliates. All rights reserved. Privacy Statement

7.1.2.2 Manage Searches

To manage searches:

1. Click Manage Searches option and enter the search name with description.

Figure 7–15 Main: Properties

The screenshot displays the Oracle WebCenter Content: Imaging interface. The left sidebar contains a tree view with the following items: Searches (Main, ReportSearchBLRT03, ReportSearchSMOKE_LZN_US, ReportSearchSMOKE_PROD, ReportSearchT06, Search_Demo, Temporary), Tools, Manage Searches (selected), Manage Applications (Main, Report, ReportBLRT03, ReportSMOKE_PROD, ReportT02, ReportT06, Temporary), Manage Inputs, Manage Connections, and Manage Security. The main content area is titled 'Main: Properties' and includes the following fields: 'Search Name' with the value 'Main', 'Description' with the value 'This searches for MAIN application', 'Instructions' (empty), and 'Maximum Search Results' set to '0'. At the top right of the main area are buttons for 'Cancel', 'Back', 'Next', and 'Submit'. The browser's address bar shows the URL '10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=3479764619404447&_afWindowMode=0&_afWindowId=dmy3mcwp78_adf.ctrl-state=isfj4xo7c'. The system tray at the bottom indicates the date and time as '2:25 PM 6/9/2017'.

2. Click **Next**.
3. Select the source application along with its field details in the Results Formatting page.

Figure 7–16 Main: Results Formatting

Oracle WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties **Results Formatting** Conditions Parameters Security Preview and Test Review Settings

Main: Results Formatting Cancel Back Next Submit

Select a source application or applications that you wish to return images from. Then select the fields in this application you wish to display to the user when their results are returned.

Source Application	Document Type	Customer Id	Document ID	Document Description	SUBMISSION	COLLATERAL
Main	Document Type	Customer Id	Document ID	Document De	SUBMISSION	COLLATERAL

10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=34797646... Privacy Statement

Desktop 2:26 PM 6/9/2017

4. Select the appropriate conditions in the Conditions page as shown below.

Figure 7–17 Main: Conditions

Oracle WebCenter Content: Imaging

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties Results Formatting **Conditions** Parameters Security Preview and Test Review Settings

Main: Conditions

Select the conditions you want to use to find the images in the selected applications.

Application Selection: **Main**

Field	Operator	Value	Conjunction
Document Type	Equals	Parameter - Document Type	Or
Customer Id	Equals	Parameter - Customer Id	

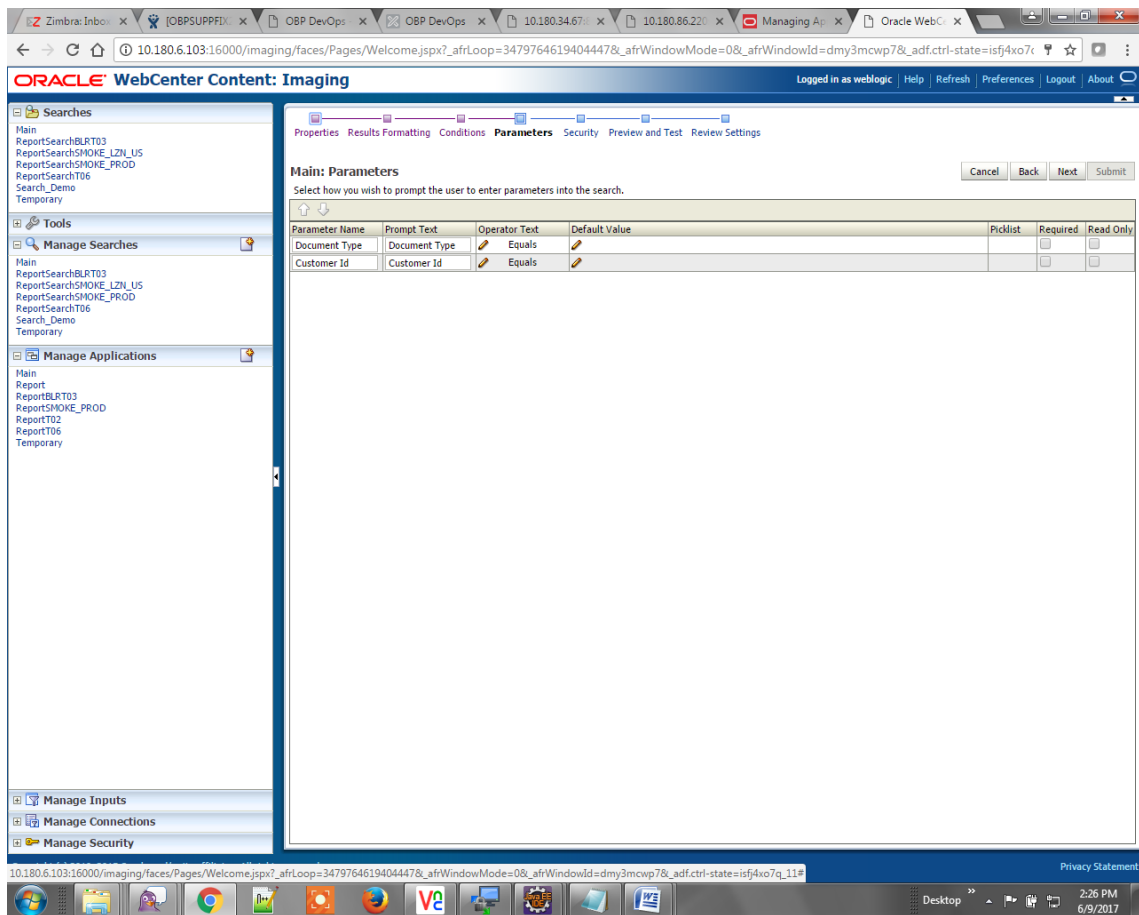
Search Conditions

Application: Main

Field	Operator	Value	Conjunction
Document Type	Equals	Parameter - Document Type	Or
Customer Id	Equals	Parameter - Customer Id	

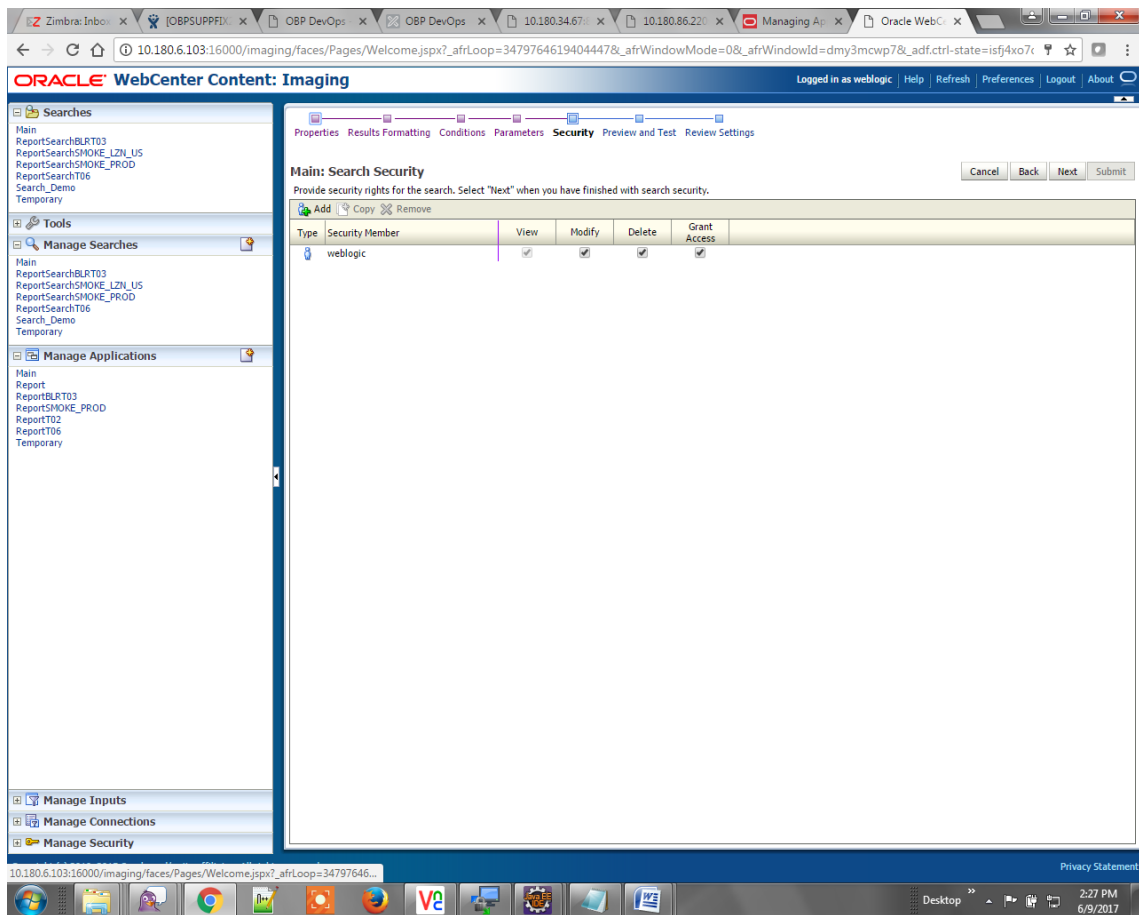
5. Select the appropriate settings in the Parameters page as shown below.

Figure 7–18 Main: Parameters



6. Configure the access rights for users for search in the Search Security page.

Figure 7–19 Main: Search Security



7. Review the summary and click **Submit**.

Figure 7–20 Main: Preview and Test

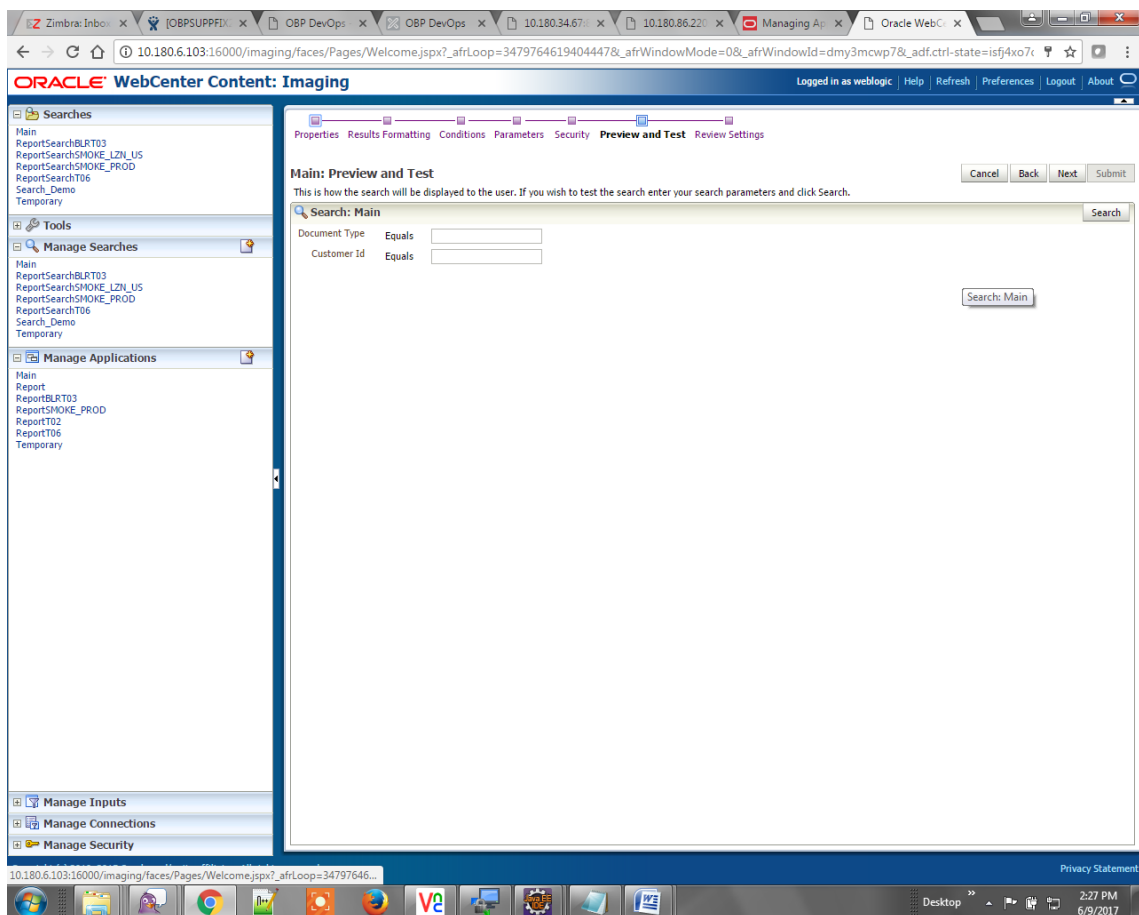


Figure 7–21 Main: Review Settings

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties Results Formatting Conditions Parameters Security Preview and Test **Review Settings**

Main: Review Settings Cancel Back Next Submit

The following is a summary of the information you entered. Please review the content and click "Submit" to modify the Search or "Back" to make changes. The "Submit" button is only enabled when there are changes.

Properties

Search Name: Main
 Description: This searches for MAIN application
 Instructions:
 Maximum Search Results: 0

Results Formatting

Source Application	Document Type	Customer Id	Document ID	Document Description	SUBMISSION	COLLATERAL
Main	Document Type	Customer Id	Document ID	Document Descript...	SUBMISSION	COLLATERAL

Conditions

Application: Main

(	Field	Operator	Value	)	Conjunction
	Document Type	Equals	Parameter - Document Type		Or
	Customer Id	Equals	Parameter - Customer Id		

Parameters

Parameter Name	Prompt Text	Operator Text	Default Value	Picklist	Required	Read Only
Document Type	Document Type	Equals				
Customer Id	Customer Id	Equals				

Security

Type	Security Member	View	Modify	Delete	Grant Access
weblogic		✓	✓	✓	✓

Audit History

Date	Type	User Name
6/9/2015 11:25:28...	Definition Create	weblogic

7.1.3 Temp Application Configuration

This section provides details about the temp application configuration.

7.1.3.1 Manage Application Configuration

To manage application configuration:

1. Select the Create New Application option.
2. Enter the general properties and click **Next**.

Figure 7–22 Temporary: General Properties

The screenshot shows the Oracle WebCenter Content: Imaging web application interface. The browser address bar displays the URL: 10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=3479764619404447&_afWindowMode=08_afWindowId=dmy3mcwp7&_adf.ctrl-state=istj4xo7t. The page title is "ORACLE WebCenter Content: Imaging". The user is logged in as "weblogic". The navigation menu on the left includes "Searches", "Tools", "Manage Searches", "Manage Applications", "Manage Inputs", "Manage Connections", and "Manage Security". The main content area is titled "Temporary: General Properties" and contains the following fields and options:

- Application Id:** 3
- * Application Name:** Temporary
- Description:** (Empty text area)
- Repository:** UCM Connection
- Full-Text Option:** ☒ None, ☐ Fast Check In, ☐ Full-Text Search

Buttons at the top right include "Cancel", "Back", "Next", and "Submit". The status bar at the bottom shows the time as 2:30 PM on 6/9/2017.

3. Enter the field definition details and click **Next**.

Figure 7–23 Temporary: Field Definitions

Temporary: Field Definitions

Provide field definitions for the application's content. Select "Next" when you have finished with field definitions.

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Customer Id	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	FACILITY	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Document Descrip	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	PRODUCT_GROUP	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	SUBMISSION	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	PARTY	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Collateral ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	BORROWING ENTI	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERAL_ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

4. In Application Security and Document Security pages, select the access rights for users and click **Next**.

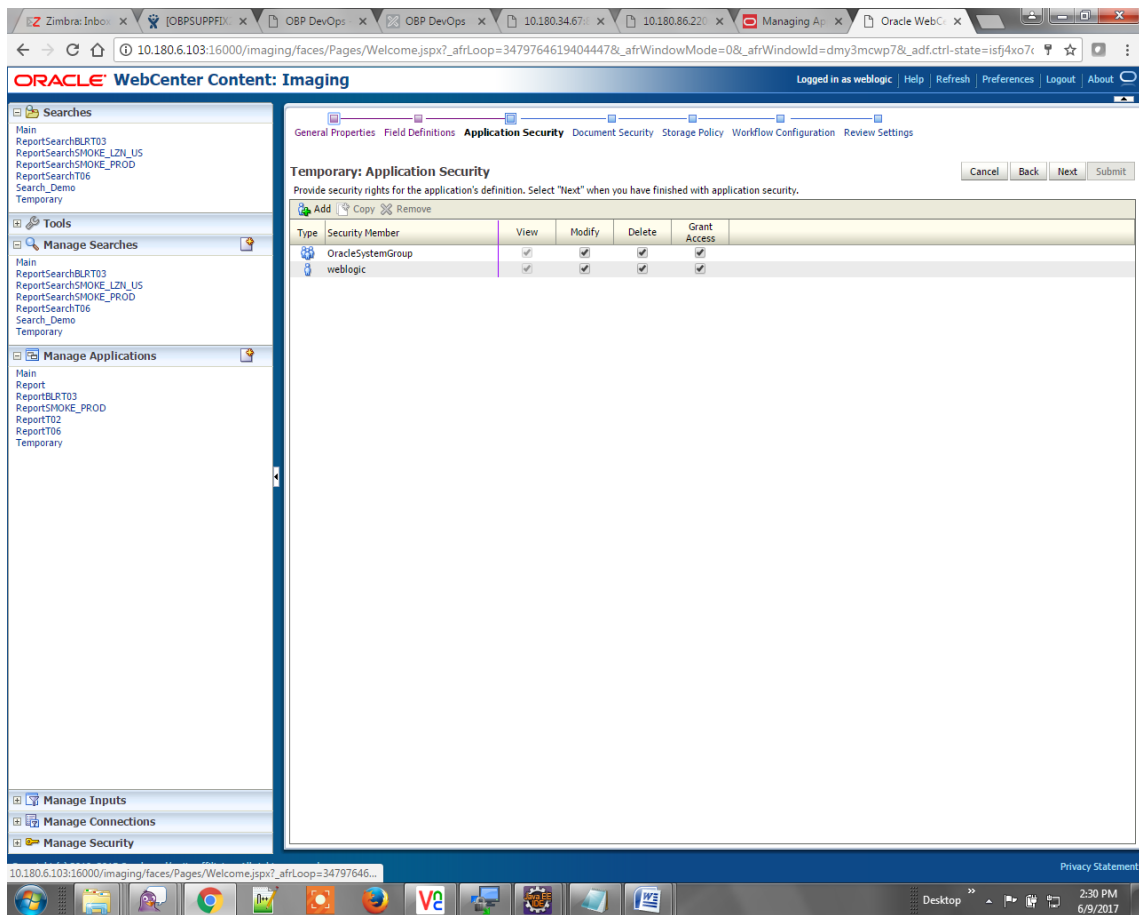
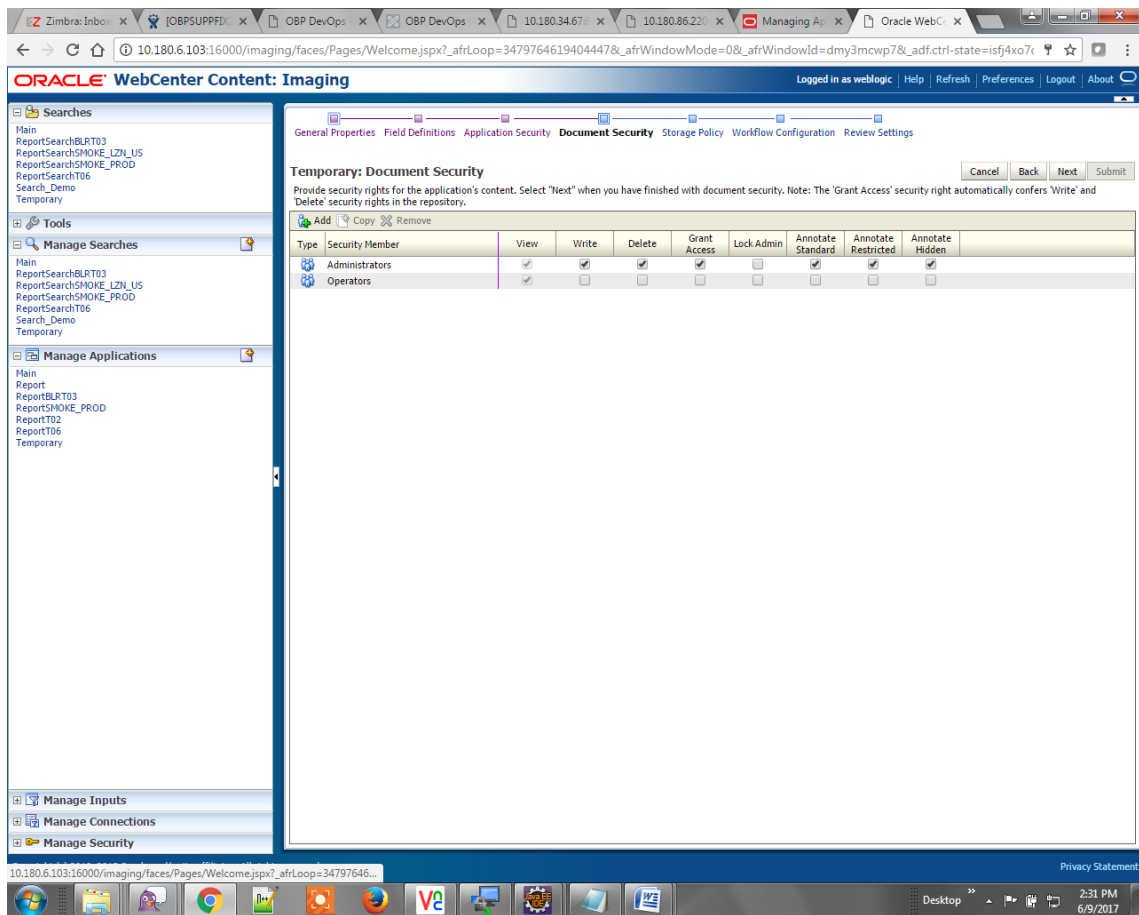
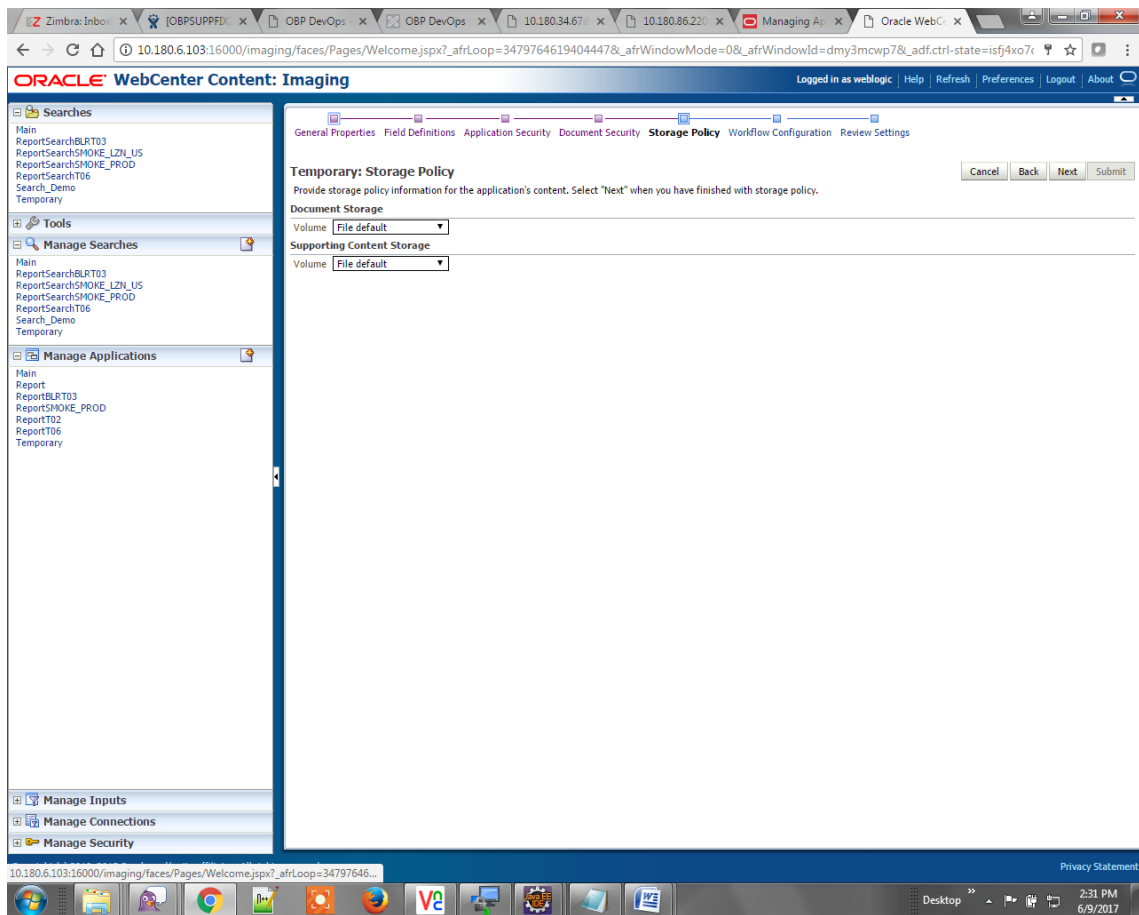
Figure 7–24 Temporary: Application Security

Figure 7–25 Temporary: Document Security

5. In the Storage Policy page, select the file default option has shown below.

Figure 7–26 Temporary: Storage Policy



6. Click **Next**. Skip the Workflow Configuration page.
7. Click **Next**.
8. Review the summary and click **Submit**.

Figure 7–27 Temporary: Review Settings

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

General Properties | Field Definitions | Application Security | Document Security | Storage Policy | Workflow Configuration | **Review Settings**

Temporary: Review Settings [Cancel] [Back] [Next] [Submit]

The following is a summary of the information you entered. Please review the content and click "Submit" to modify the Application or "Back" to make changes. The "Submit" button is only enabled when there are changes.

General Properties

Application Id 3
 Application Name Temporary
 Description
 Repository UCM Connection
 Full-Text Option None

Field Definitions

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80			✓		
Abc	Customer Id	80			✓		
Abc	FACILITY	80			✓		
Abc	Document Descrip...	80			✓		
Abc	PRODUCT_GROUP...	80			✓		
Abc	SUBMISSION	80			✓		
Abc	PARTY	80			✓		
Abc	Collateral ID	80			✓		
Abc	BORROWING ENTI...	80			✓		
Abc	COLLATERAL_ID	80			✓		

Application Security

Type	Security Member	View	Modify	Delete	Grant Access
	OracleSystemGroup	✓	✓	✓	✓
	weblogic	✓	✓	✓	✓

Document Security

Type	Security Member	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annotate Restricted	Annotate Hidden
	Administrators	✓	✓	✓	✓		✓	✓	✓
	Operators	✓							

Storage Policy

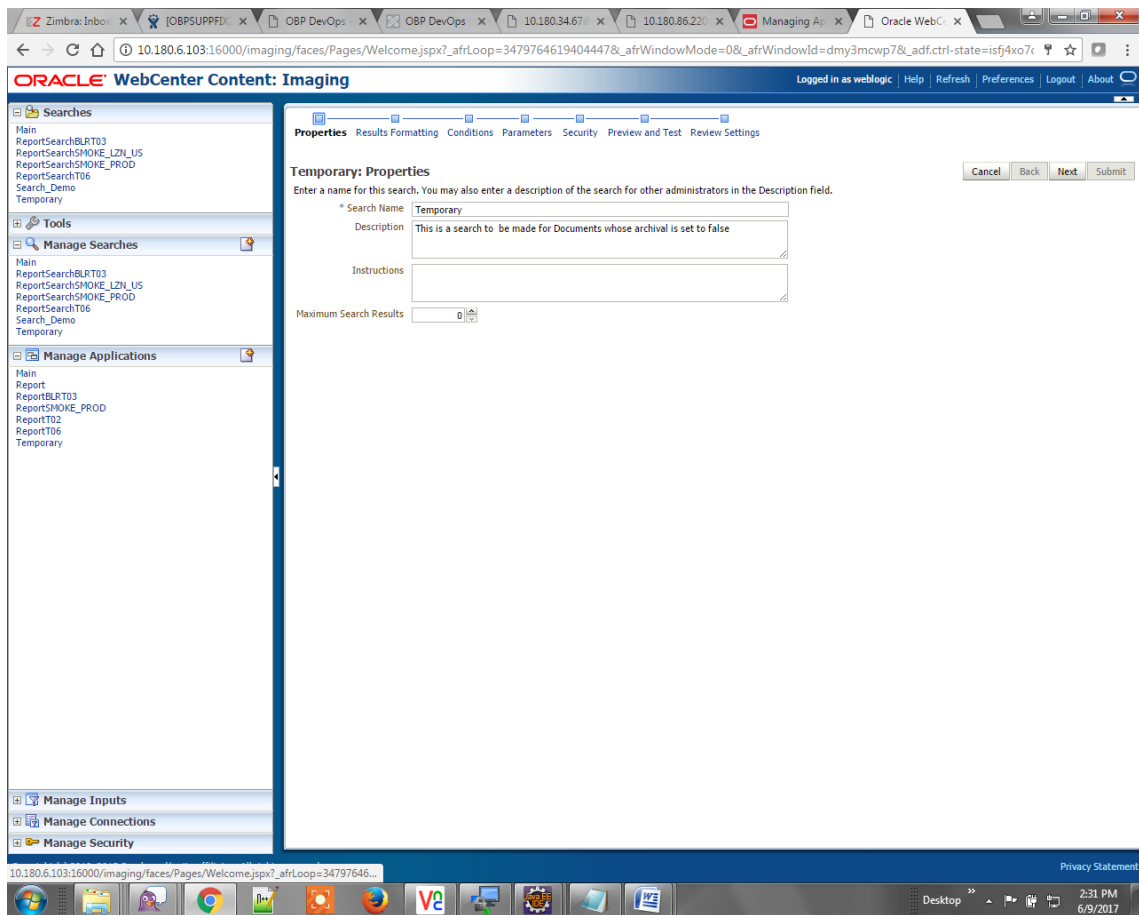
Document Storage
 Volume File default

7.1.3.2 Manage Searches

To manage searches:

1. Click the Manage Searches option and enter the search name with description.

Figure 7–28 Temporary: Properties



2. Select the source application along with its field details in the Results Formatting page.

Figure 7–29 Temporary: Results Formatting

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties **Results Formatting** Conditions Parameters Security Preview and Test Review Settings

Temporary: Results Formatting

Select a source application or applications that you wish to return images from. Then select the fields in this application you wish to display to the user when their results are returned.

Source Application	Document Type	Document Type 1	Document Description	Document Batch Id	PARTY
Temporary	Document Id	Document Ty	Document De	Document Bat	PARTY

10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=34797646... Privacy Statement

Desktop 2:32 PM 6/9/2017

3. Select the appropriate conditions in the Conditions page as shown below.

Figure 7–30 Temporary: Conditions

Oracle WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties Results Formatting **Conditions** Parameters Security Preview and Test Review Settings

Temporary: Conditions Cancel Back Next Submit

Select the conditions you want to use to find the images in the selected applications.

Application Selection: Temporary

Field	Operator	Value	Conjunction
Document Type	Equals	Parameter - Document Type	Or
Customer Id	Equals	Parameter - Customer Id	Or
Document Description	Equals	Parameter - Document Description	

Search Conditions

Field	Operator	Value	Conjunction
Document Type	Equals	Parameter - Document Type	Or
Customer Id	Equals	Parameter - Customer Id	Or
Document Description	Equals	Parameter - Document Description	

10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=34797646... Privacy Statement

Desktop 2:32 PM 6/9/2017

4. Select the appropriate settings in the Parameters page as shown below.

Figure 7–31 Temporary: Parameters

Oracle WebCenter Content: Imaging

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties Results Formatting Conditions **Parameters** Security Preview and Test Review Settings

Temporary: Parameters

Select how you wish to prompt the user to enter parameters into the search.

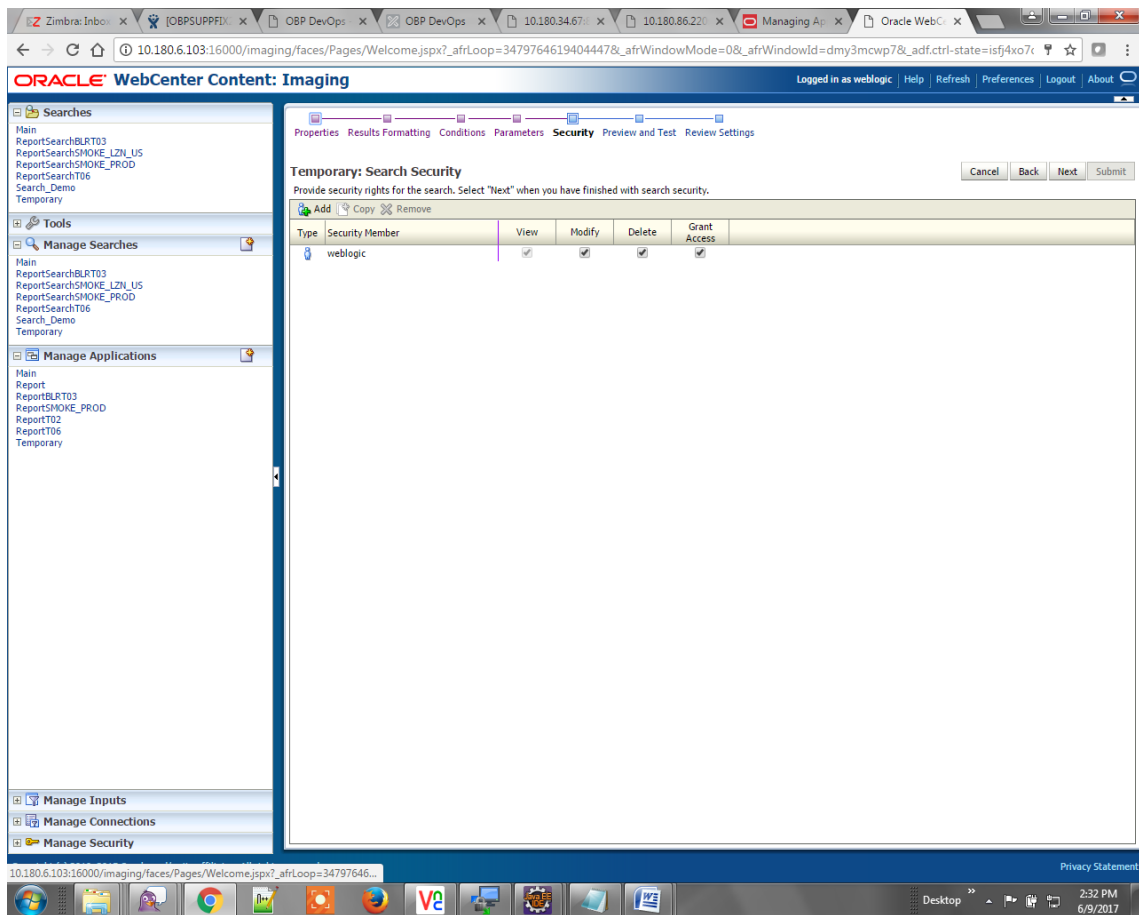
Parameter Name	Prompt Text	Operator Text	Default Value	Picklist	Required	Read Only
Document Type	Document Type	Equals		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Customer Id	Customer Id	Equals		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Document Description	Document Description	Equals		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10.180.6.103:16000/imaging/faces/Pages/Welcomespx?_afLoop=34797646... Privacy Statement

Desktop 2:32 PM 6/9/2017

5. Configure the access rights for users for search in the Search Security page.

Figure 7–32 Temporary: Search Security



- Review the summary and click **Submit**.

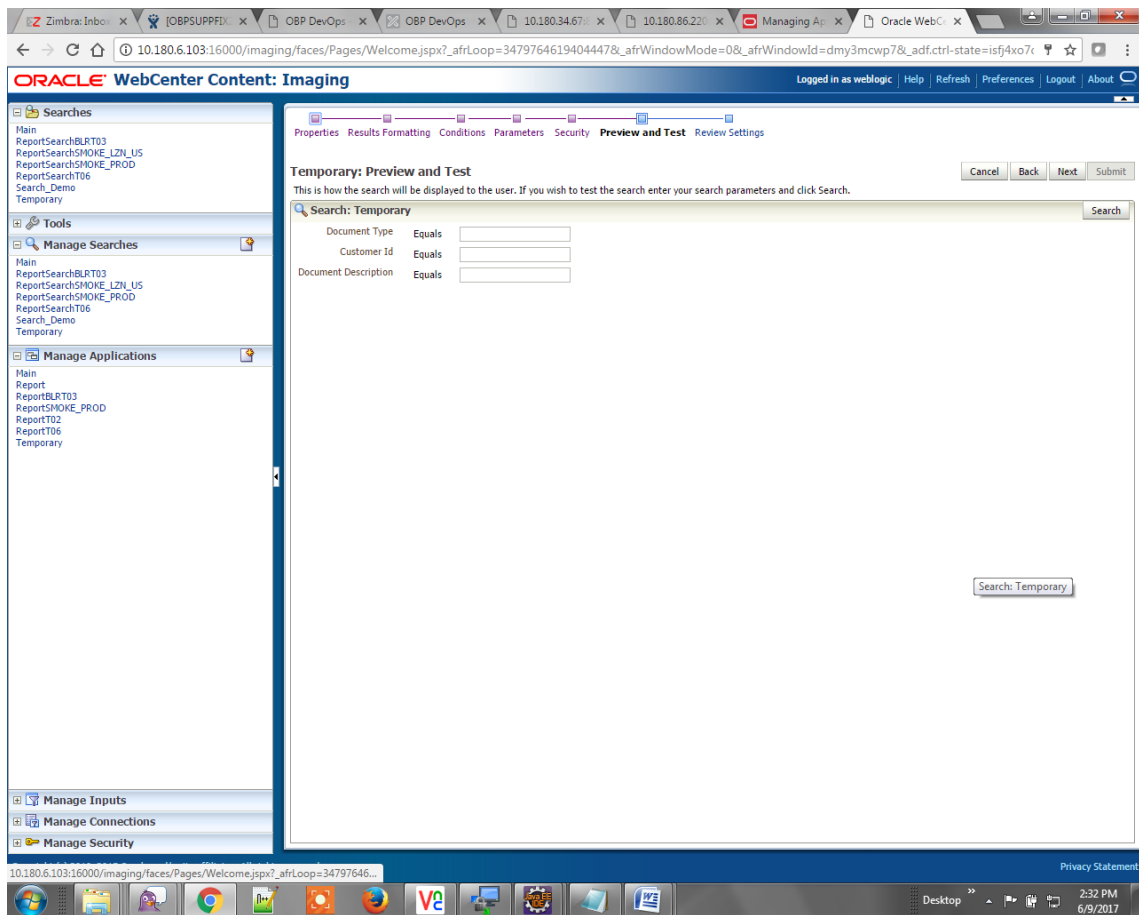
Figure 7–33 Temporary: Preview and Test

Figure 7–34 Temporary: Review Settings

Oracle WebCenter Content: Imaging | Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Temporary: Review Settings

The following is a summary of the information you entered. Please review the content and click "Submit" to modify the Search or "Back" to make changes. The "Submit" button is only enabled when there are changes.

Properties

Search Name: Temporary
 Description: This is a search to be made for Documents whose archival is set to false when there are changes.
 Instructions:
 Maximum Search Results: 0

Results Formatting

Source Application	Document Type	Document Type 1	Document Description	Document Batch Id	PARTY
Temporary	Document Id	Document Type	Document Description	Document Batch Id	PARTY

Conditions

Application: Temporary

(	Field	Operator	Value	)	Conjunction
	Document Type	Equals	Parameter - Document Type		Or
	Customer Id	Equals	Parameter - Customer Id		Or
	Document Description	Equals	Parameter - Document Description		

Parameters

Parameter Name	Prompt Text	Operator Text	Default Value	Picklist	Required	Read Only
Document Type	Document Type	Equals				
Customer Id	Customer Id	Equals				
Document Description	Document Description	Equals				

Security

Type	Security Member	View	Modify	Delete	Grant Access
	weblogic	✓	✓	✓	✓

Audit History

Date	Type	User Name
6/9/2015 11:27:02	Definition Create	weblogic

The application ID generated for the main and temporary applications should be updated in the OBEPM DB schema table flx_cm_doc_typ_meta_data using the following sql statements:

Note

Replace the <main application id> with the application ID generated for the IPM application and the <temporary application id> with the application ID generated for the IPM application sql statements with the actual generated.

SQL for Main Application

```
update flx_cm_doc_typ_meta_data
set app_id = '<main application id>'
where doc_typ_id = 'MAIN';
```

SQL for Temp Application

```
update flx_cm_doc_typ_meta_data tp
set app_id = '<temporary application id>'
where doc_typ_id = 'TEMP';
```

7.2 IPM Configuration for Bulk Upload Process Setup

This step is an optional configuration step. It is required only for banks that need to upload documents in bulk. Creation of an input configuration results in defining an input file format and mapping the file input data with the application field definitions. This file format is then understood by the IPM Bulk data upload feature (known as an document upload input agent in IPM), which uploads scanned documents from a shared folder on into IPM.

This upload takes place in the following steps:

A file containing details of the scanned documents to be uploaded is taken as an input from a location on the server. Then IPM uploads the scanned documents as specified in an input definition file.

Then IPM invokes the "IPMBulkUpload" BPEL process deployed on the SOA server as part of the SOA media pack installation process. The BPEL process updates the IPM document reference ID in OBEPM for the document record.

7.2.1 Prerequisites

Following are the prerequisites before proceeding with the bulk upload process setup:

1. Application on IPM server is already created on which bulk upload process needs to be configured. For more information to understand the application creation process, see Image Processing and Management Admin Guide.
2. `com.ofss.fc.workflow.process.IPMBulkUploadProcess` is already deployed on the SOA server.

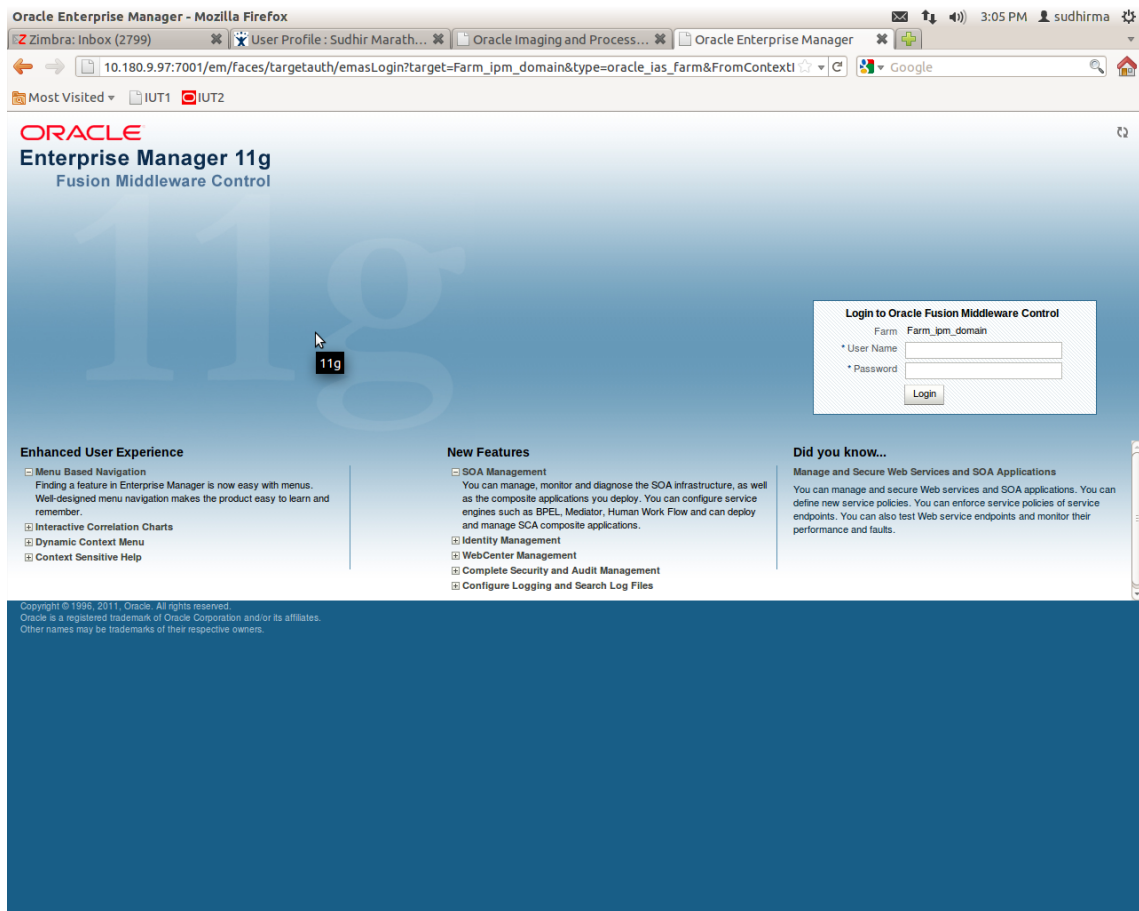
7.2.2 Setting up the Connection Name

To set up a bulk process we need to start by setting up the connection name, which is used as JNDI for IPM to BPEL connection.

To set up a bulk process:

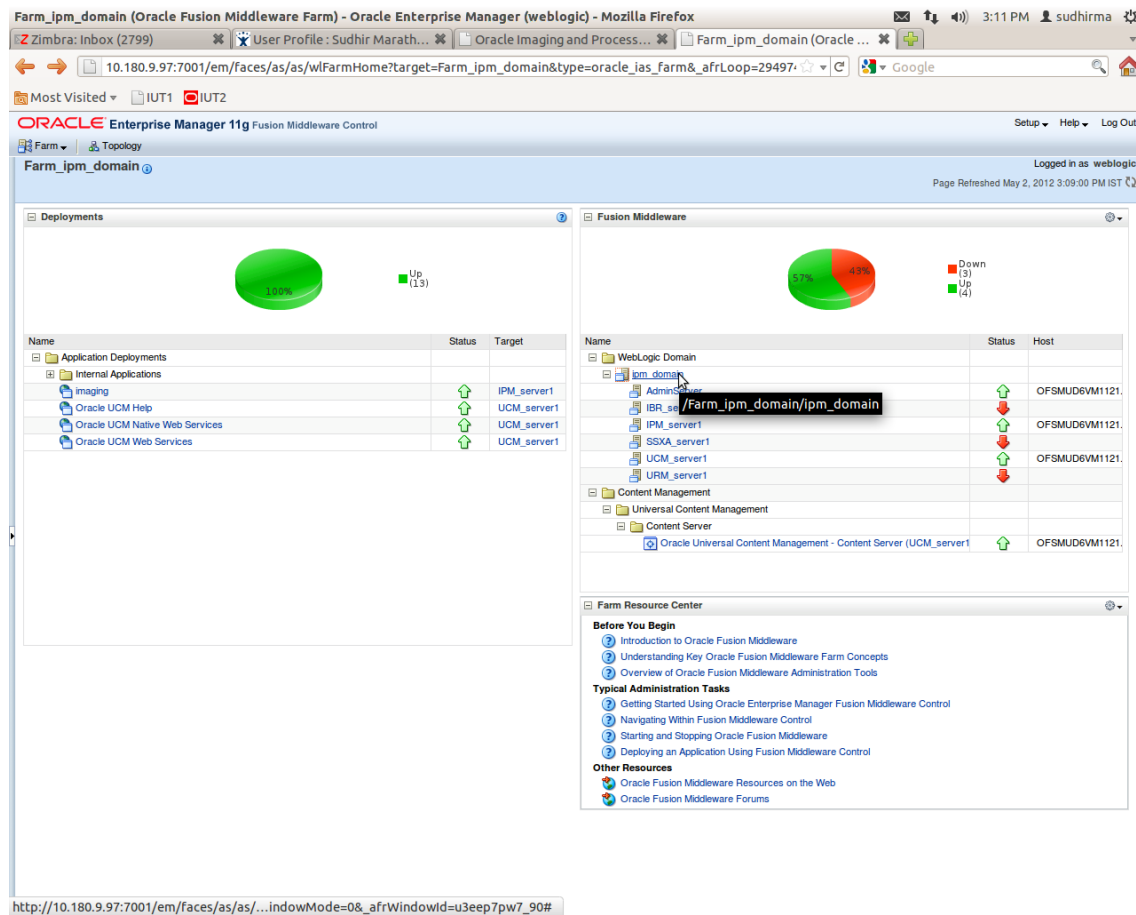
1. Log in to Enterprise Manager (EM) console.

Figure 7–35 EM Console Login

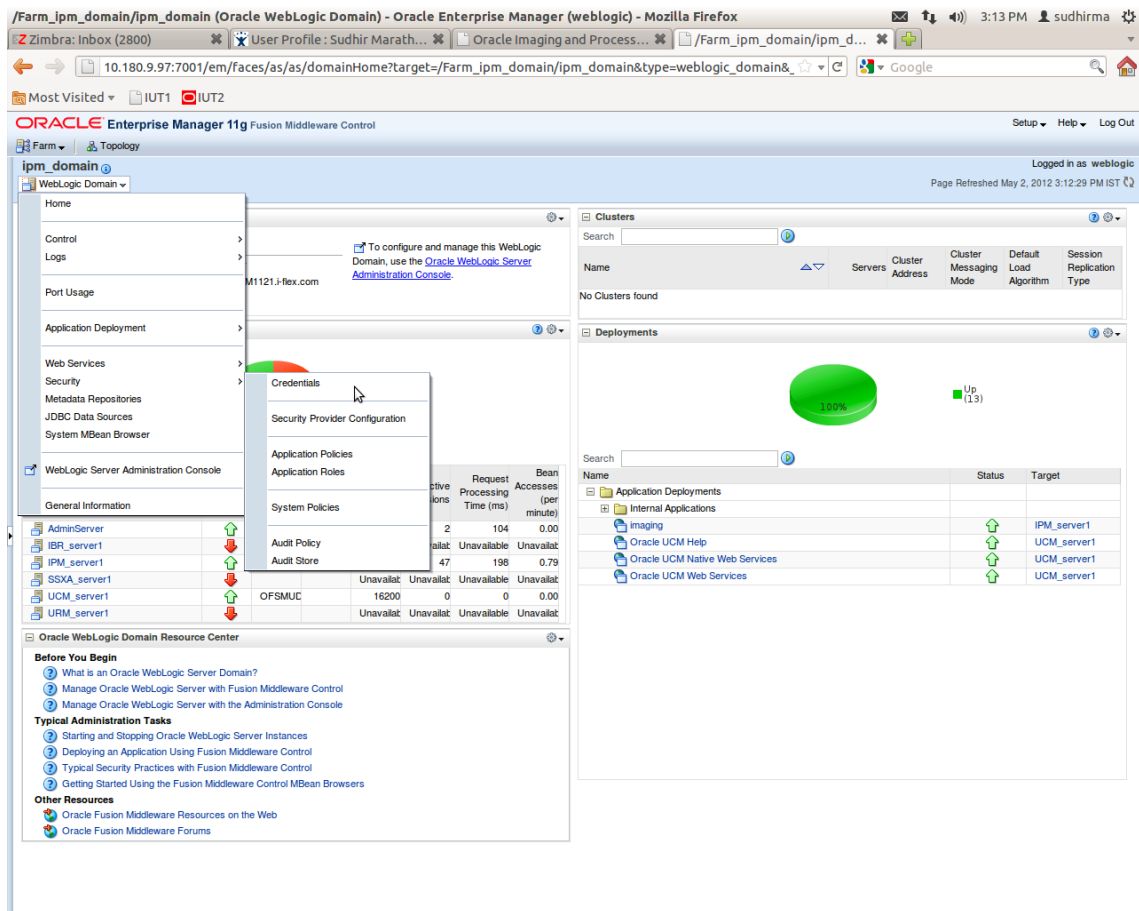


2. In the Name section, under Weblogic domain, click **ipm domain** (or base domain where ipm server is installed).

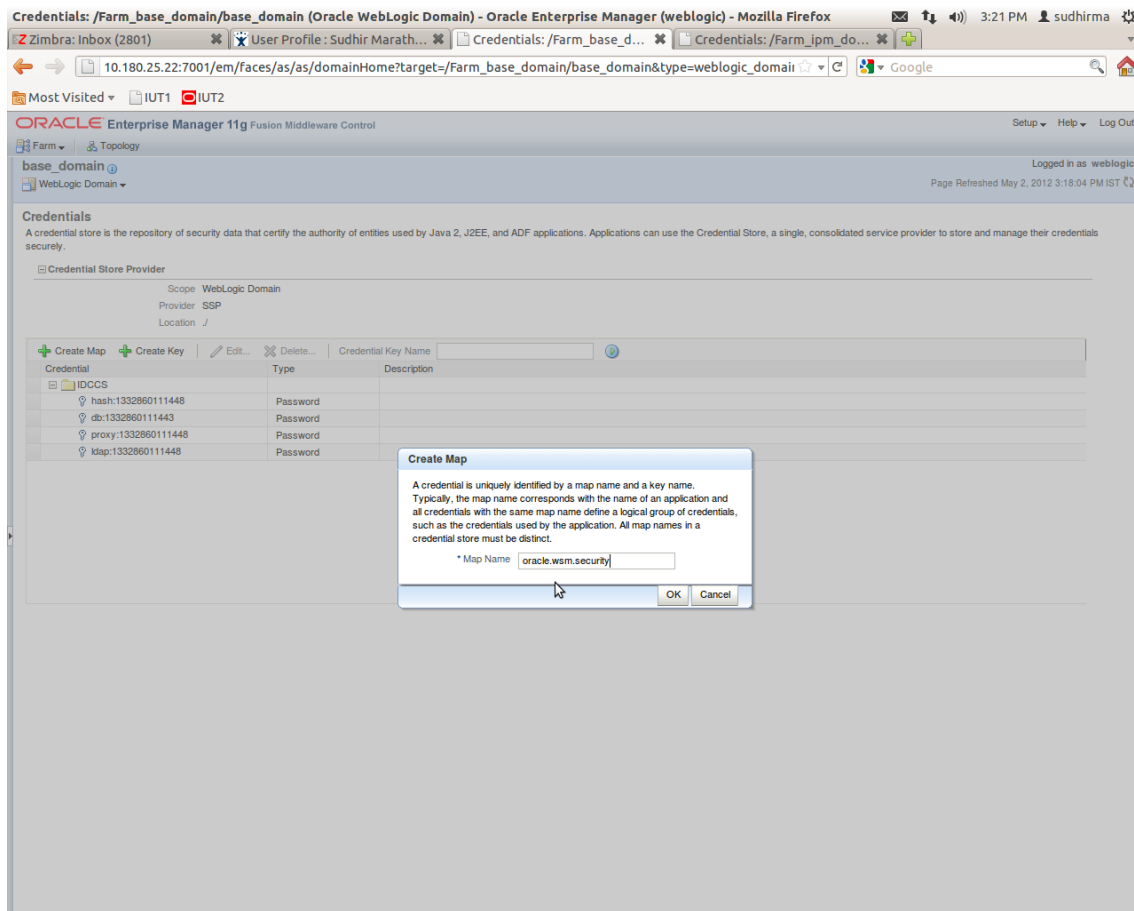
Figure 7–36 Click Weblogic Domain: ipm domain



3. In the top menu, click **Weblogic Domain**. The corresponding menu appears.
4. Navigate to **Security > Credentials**. The Credentials page appears.

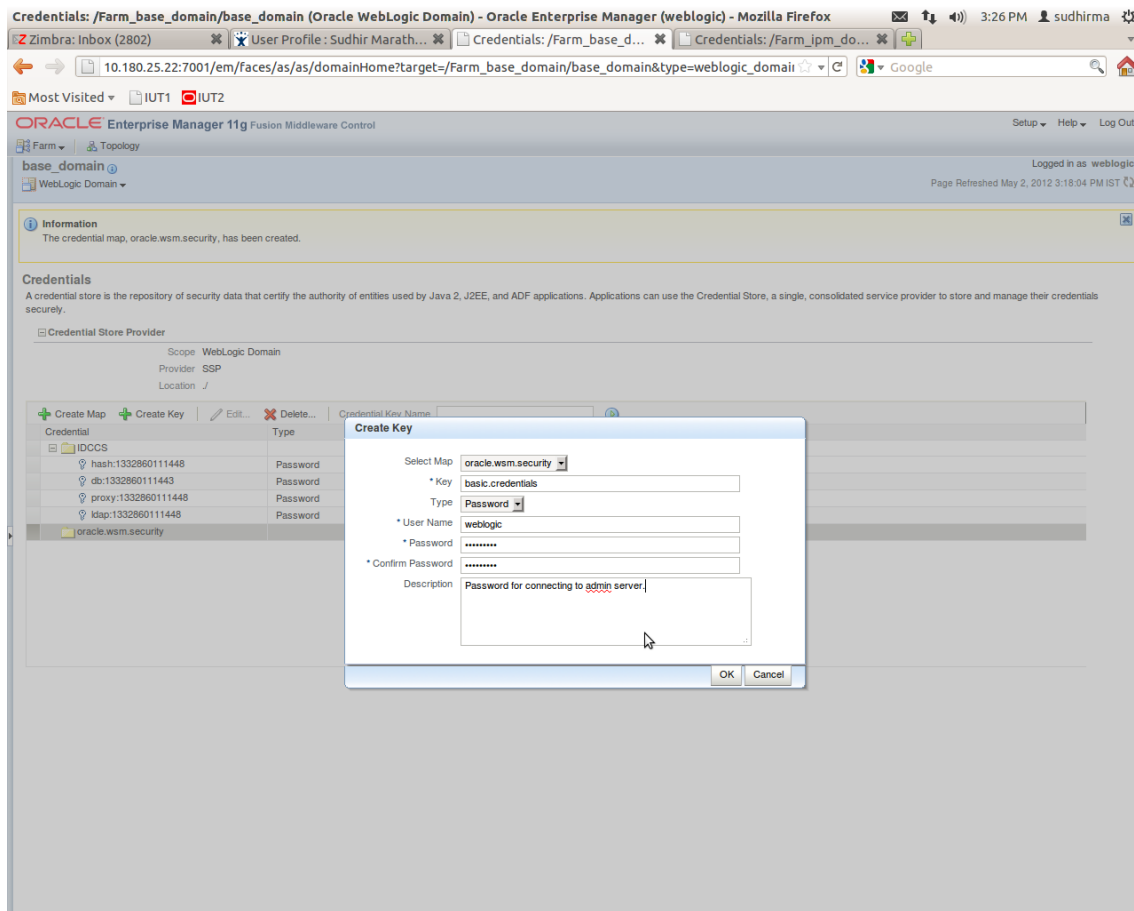
Figure 7–37 Navigate to Weblogic Domain --> Security --> Credentials

5. Click **Create Map** to create a map with the **Map Name** as **oracle.wsm.security**.

Figure 7–38 Create Map oracle.wsm.security

6. Click **Create Key** to create a key under the map **oracle.wsm.security**.

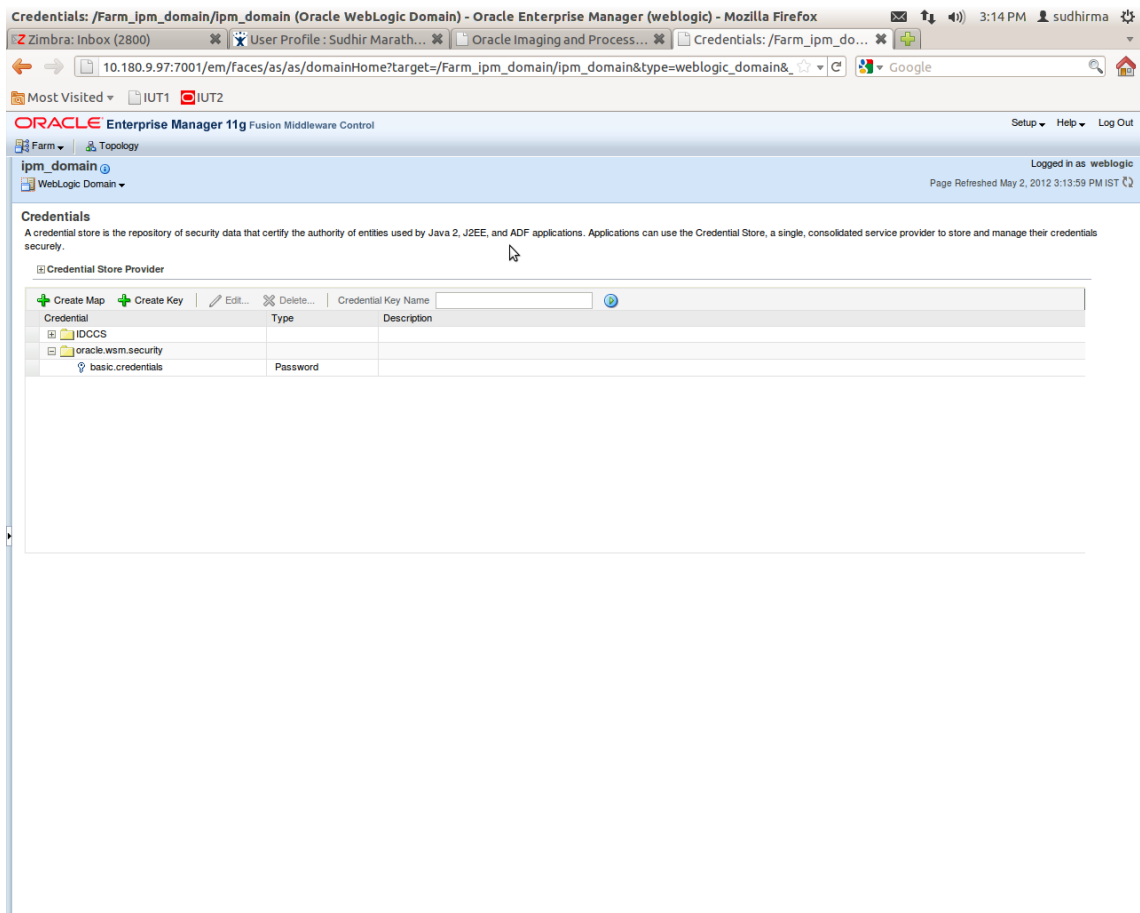
Figure 7–39 Create Key basic.credentials



7. In the **Key** field enter the key name as basic.credentials.
8. In the **Type** field, select the value as Password.
9. Enter the other required details.

10. Click **Ok**. The key is saved.

Figure 7–40 ipm_domain: Credentials Created

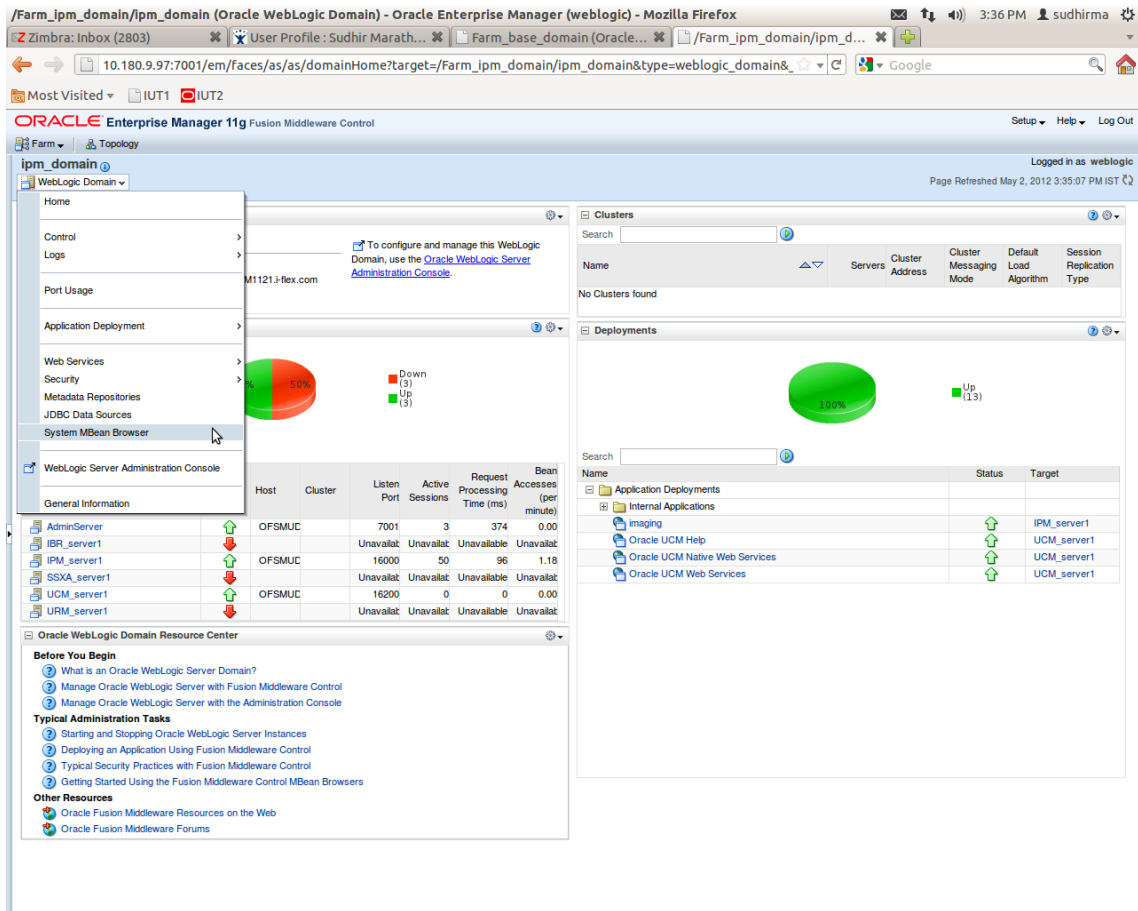


7.2.3 Setting up Input Agent Path

To set up input agent path:

1. Log in to Enterprise Manager (EM) console.
2. In the Name section, under Weblogic domain, click **ipm_domain**.
3. In the top menu, click Weblogic Domain. The corresponding menu appears.
4. Navigate to the domain System MBean Browser. The System MBean Browser page appears.

Figure 7–41 Navigate to Weblogic Domain --> System MBean Browser



- In the left hand pane, navigate to **Application Defined MBeans > oracle.imaging > Server: IPM_server1 > config**.
- For the attribute InputDirectories, in the **Value** column enter the value to set the path for input agents.

Figure 7–42 InputDirectories: Enter Input Agent Path

The screenshot shows the Oracle Enterprise Manager 11g System MBean Browser interface. The left pane displays a tree view of the system MBeans, with the path `oracle.imaging:Location=IPM_server1,type=config` selected. The right pane shows the configuration for the `InputAgentRetryCount` attribute, which is highlighted in red. The configuration table lists various attributes and their values.

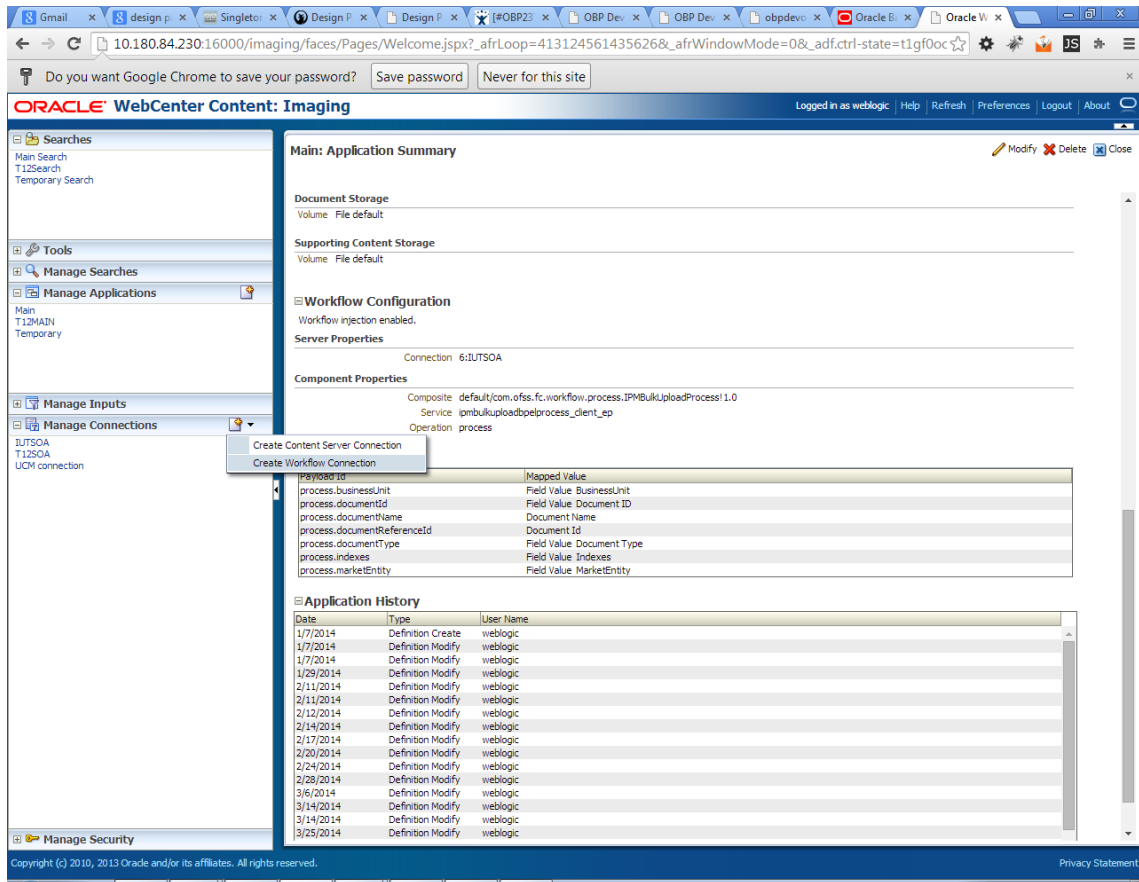
Name	Description	Access	Value
2	CacheLocation	RW	
3	CheckInterval	RW	15
4	CleanupExpireDays	RW	0
5	CleanupFileExclusionList	RW	
6	DefaultColorSet	RW	
7	DefaultSecurityGroup	RW	
8	DocumentFileTimeout	RW	2000000
9	ODFontPath	RW	/usr/share/X11/fonts/TTF
10	InputAgentRetryCount	RW	3
11	InputDirectories	RW	home/oracle/test/inputagent/inputdir1
12	IPMVersion	R	11.1.1.5.0 (110426.1700.11020)
13	JpegImageQuality	RW	100
14	LogDetailedTimes	RW	false
15	MaxSearchResults	RW	100
16	RequireBasicAuthSSL	RW	false
17	SampleDirectory	RW	IPM/InputAgent/Input/Samples
18	TiffCompressionType	RW	LZW
19	Uptime	R	262:39:59
20	UseAdvancedAsDefaultViewerMode	RW	false

- Restart IPM server.

7.2.4 Create SOA Connection

To create a SOA Connection:

- Log in to Image Processing Management (IPM).
- Navigate to the Manage Connections section.

Figure 7–43 Manage Connections: Create Workflow Connection

3. Click **Create Workflow Connection**.

Workflow Connection is used to point to the "IPMBulkUpload" BPEL process deployed on the SOA server as part of the SOA media pack installation process.

OBP_IPM_SOA_CONN_NAME

SOA_MANAGED_SERVER_LISTEN_ADDRESS

SOA_MANAGED_SERVER_LISTEN_PORT

4. In the **Name** field, enter the name for SOA Connection as IUTSOA.

Figure 7–44 IUTSOA: Basic Information

The screenshot displays the Oracle WebCenter Content: Imaging interface. The browser address bar shows the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=413124561435626&_afWindowMode=0&_adf.ctrl-state=t1gf0ocwn_14#. The page title is "ORACLE WebCenter Content: Imaging". The user is logged in as "weblogic". The main content area is titled "IUTSOA: Basic Information" and contains the following fields:

- Name:** IUTSOA
- Description:** IUT SOA server
- Connection Type:** Workflow Connection

The left sidebar contains the following navigation links:

- Searches
 - Main Search
 - T12Search
 - Temporary Search
- Tools
- Manage Searches
- Manage Applications
 - Main
 - T12MAIN
 - Temporary
- Manage Inputs
- Manage Connections
 - IUTSOA
 - T12SOA
 - UCM connection
- Manage Security

5. In the **HTTP Front End Address** field, enter the value for SOA server.

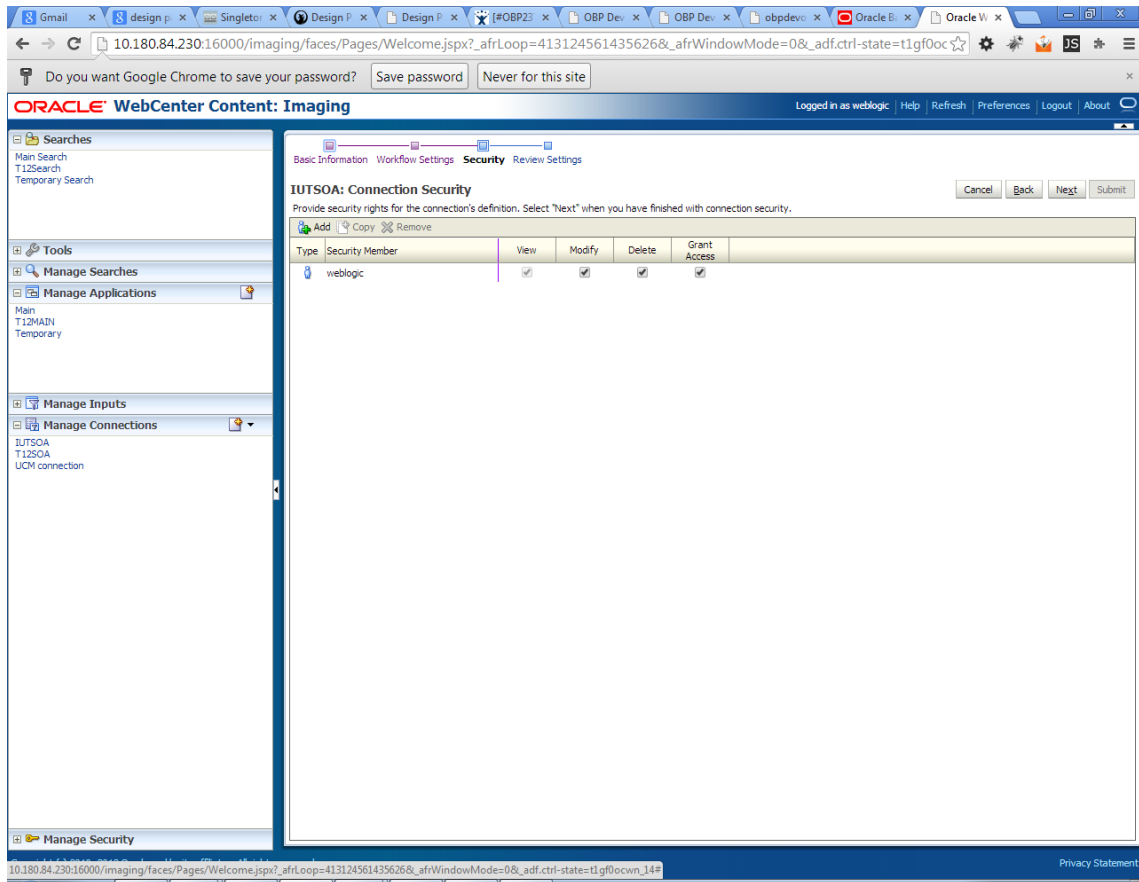
Figure 7–45 IUTSOA: Workflow Settings

The screenshot displays the Oracle WebCenter Content: Imaging interface. The left sidebar contains navigation links for Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. The main content area is titled 'IUTSOA: Connection Settings' and includes the following fields:

- * HTTP Front End Address:
- * Credential Alias:
- Provider:

Buttons for 'Cancel', 'Back', 'Next', and 'Submit' are located at the top right. A 'Test Connection' button is at the bottom left. Below the 'Test Connection' button, a table shows 'Composite Name' and 'Revision' with the message 'No composites found'.

6. In the **Credential Alias** field, enter the value as **basic.credentials**.
7. Click **Next** to proceed. The Connection Security page appears.

Figure 7–46 IUTSOA: Connection Security

8. Provide the requisite security rights to the connection's definition.
9. Click **Submit**.
10. Click **Next**. The Review Settings page appears.

Figure 7–47 IUTSOA: Review Settings

The screenshot displays the Oracle WebCenter Content: Imaging interface. The left sidebar contains navigation links: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, and Manage Connections. The main content area is titled "IUTSOA: Connection Summary" and includes the following sections:

- Basic Information**
 - Name: IUTSOA
 - Description: IUT SOA server
 - Connection Type: Workflow Connection
- Connection Settings**
 - HTTP Front End Address: https://10.180.84.92:8002
 - Credential Alias: basic.credentials
 - Provider:
- Security**

Type	Security Member	View	Modify	Delete	Grant Access
	weblogic	✓	✓	✓	✓
- Audit History**

Date	Type	User Name
1/7/2014	Definition Create	weblogic
3/21/2014	Definition Modify	weblogic

The footer of the page includes the copyright notice: "Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved." and a link to the "Privacy Statement".

7.2.5 Manage Workflow Configuration

To manage workflow configuration:

1. Log in to Image Processing Management (IPM).
2. Navigate to **Manage Applications** section.

Figure 7–48 Main: Application Summary

Oracle WebCenter Content: Imaging

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Main: Application Summary [Modify] [Delete] [Close]

General Properties

Application Id 2
 Application Name Main
 Description Main Content Store
 Repository UCM connection
 Full-Text Option None

Field Definitions

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80			✓		
Abc	Customer Id	80			✓		
Abc	Document ID	80			✓		
Abc	Document Descrip...	80			✓		
Abc	SUBMISSION	80			✓		
Abc	APPLICATION	80			✓		
Abc	COLLATERAL	80			✓		
Abc	PARTY	80			✓		
Abc	FACILITY	80			✓		
Abc	PRODUCT_GROUP...	80			✓		
Abc	COLLATERALVALU...	80			✓		
Abc	COLLATERALTITL...	80			✓		
Abc	ID	80			✓		
Abc	CUSTOMER_CONT...	80			✓		
Abc	COLLATERAL ID	80			✓		
Abc	COLLATERALVALU...	80			✓		
Abc	INSTRUMENTTYPE	80			✓		
Abc	ACCOUNT_ID	80			✓		
Abc	COLLATERALTITL...	80			✓		
Abc	CHARGE CODE	80			✓		

Application Security

Type	Security Member	View	Modify	Delete	Grant Access
weblogic		✓	✓	✓	✓

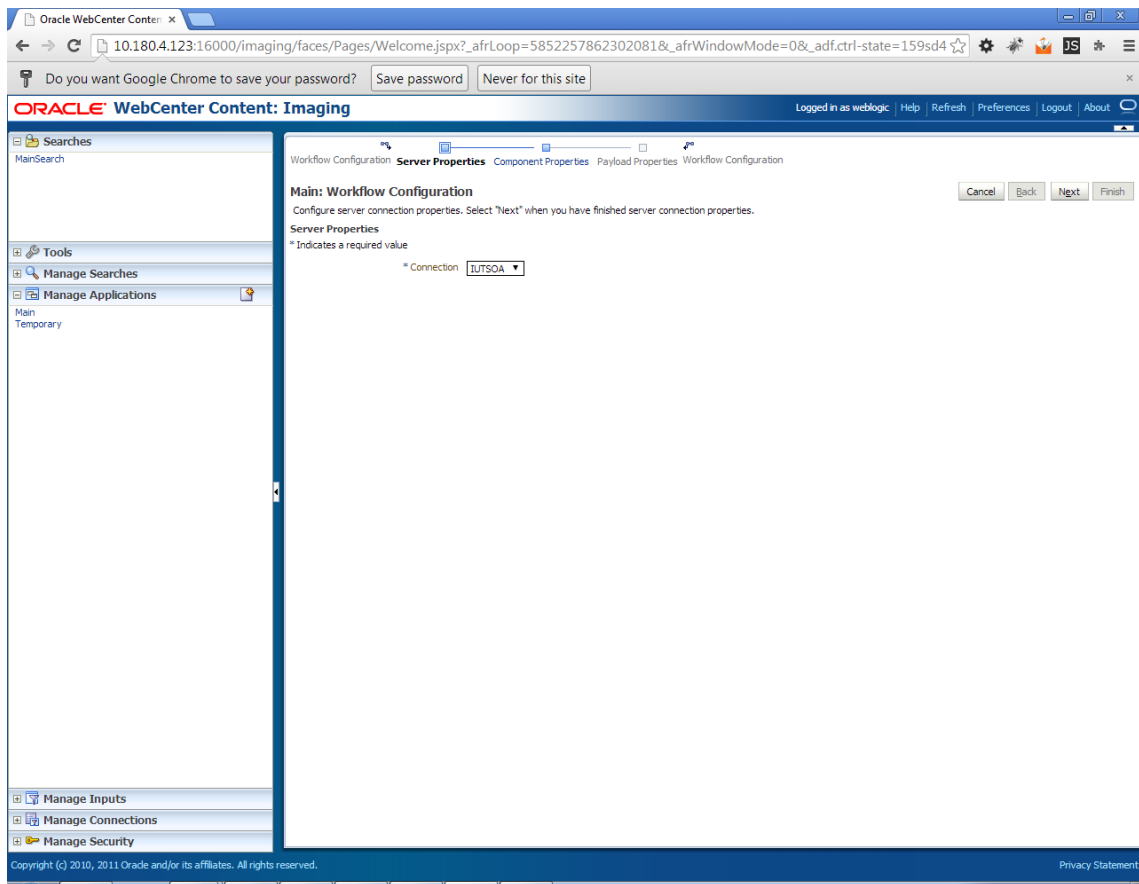
Document Security

Type	Security Member	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annotate Restricted	Annotate Hidden
Administrators		✓	✓	✓	✓		✓	✓	✓
Operators		✓							

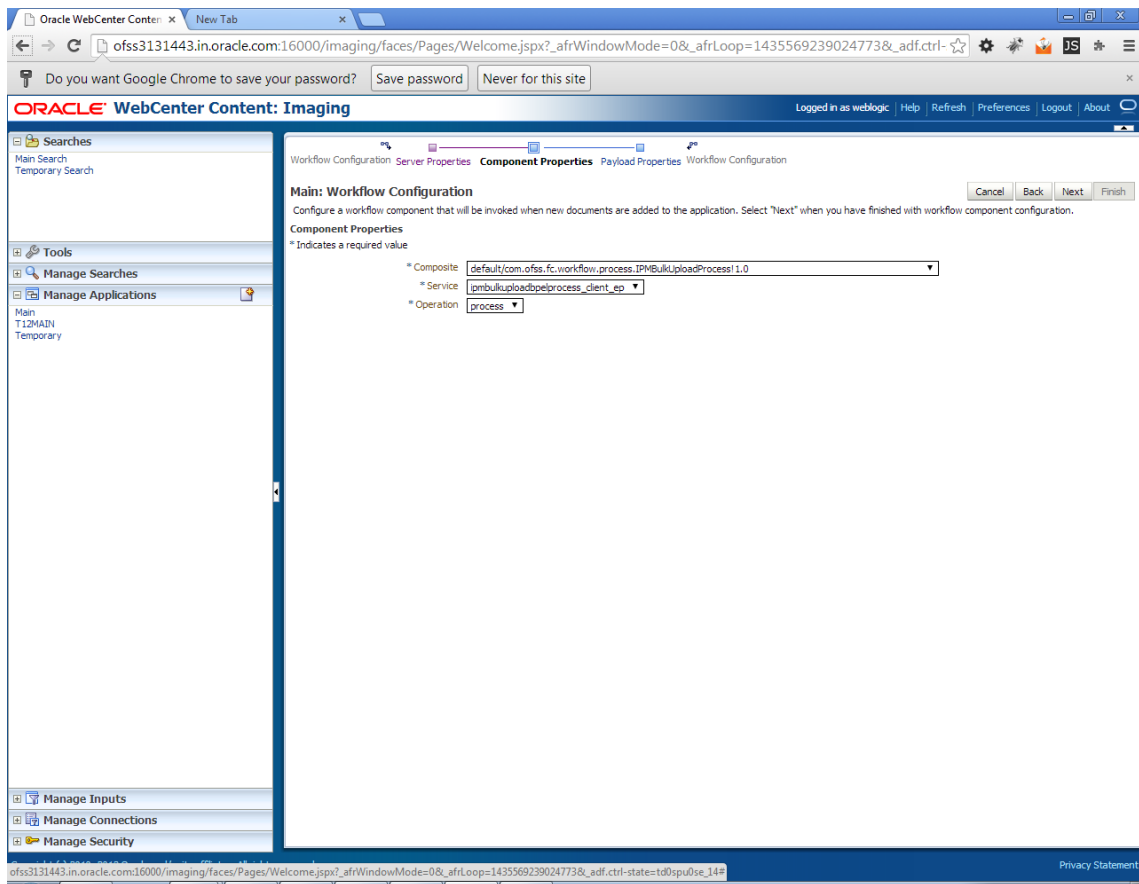
Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved. Privacy Statement

3. Select the application for which workflow configuration has to be done as shown in Figure 7–48.
4. Click **Modify**.
5. Navigate to the Workflow Configuration section.
6. Click the **Add/Modify** button.
7. In the Server Properties section, select the connection (IUTSOA) which was created in **Manage Connections** section from the **Connection** list.

Figure 7–49 Manage Applications - Server Properties



8. Click **Next**.
9. In the Component Properties section, select the Composite, Service and Operation values.
10. From the Composite list, select default/com.ofss.fc.workflow.process.IPMBulkUploadProcess!1.0 from the list of process.
11. From the Service list, select ipmbulkuploadbpelprocess_client_ep.
12. From the **Operation** list, select **process**.

Figure 7–50 Manage Applications - Component Properties

13. Click **Next**.
14. In the Payload Properties section, map the payload elements with mapped value as shown in following figure.
15. Map the process fields with application field definitions.

Note

The document Referenceld is mapped to Document Id (IPM internal field), whereas documentId is mapped to doc Id which is application field.

Figure 7–51 Manage Applications - Payload Properties

Oracle WebCenter Content: Imaging

Workflow Configuration | Server Properties | Component Properties | **Payload Properties** | Workflow Configuration

Main: Workflow Configuration

Configure payload values when a workflow component is invoked. Select "Finish" when you have finished with payload configuration and return to the application definition.

Payload Properties

* Indicates a required value

Payload Element	Type	Mapped Value
wss_username_token_client_policy	complex	
csf.key	policy	
*process	complex	
*documentType	string	Document Type
documentId	string	Document ID
*documentReferenceId	string	Document Id
documentName	string	Document Name
indexes	string	Indexes
marketEntity	string	MarketEntity
businessUnit	string	BusinessUnit

Cancel Back Next Finish

16. Click **Next**.
17. Complete the Workflow Configuration. Click **Next**.

Figure 7–52 Manage Applications - Workflow Configuration

Oracle WebCenter Content: Imaging

10.180.4.123:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=5852257862302081&_afWindowMode=0&_adf.ctrl-state=159sd4

Do you want Google Chrome to save your password? [Save password](#) [Never for this site](#)

Logged in as weblogic | [Help](#) | [Refresh](#) | [Preferences](#) | [Logout](#) | [About](#)

General Properties **Field Definitions** **Application Security** **Document Security** **Storage Policy** **Workflow Configuration** **Review Settings**

Main: Workflow Configuration [Cancel](#) [Back](#) [Next](#) [Submit](#)

Configure workflow. If no workflow configuration has been defined, select "Add" to create a new configuration. If a workflow configuration is defined, select "Modify" to change the configuration or "Delete" to delete the configuration. Select "Next" when you have finished with workflow configuration.

[Modify](#) [Delete](#) [Disable](#)

Server Properties

Connection: 4:JUTSOA

Component Properties

Composite: default/com.ofss.fc.workflow.process.IPMBulkUploadProcess:1.0
 Service: ipmbulkuploadpeprocess_client_ep
 Operation: process

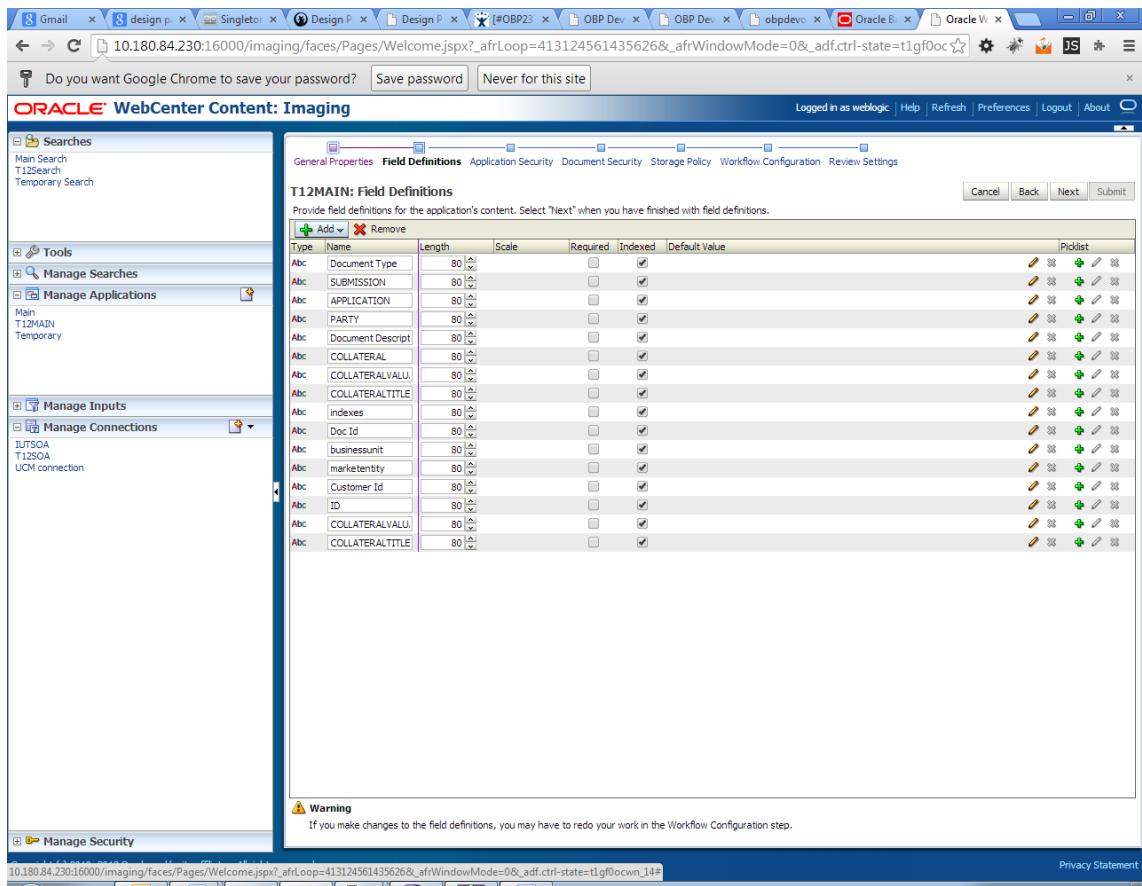
Payload Properties

Payload Id	Mapped Value
process.documentType	Field Value Document Type
process.documentId	Field Value DocId
process.documentReferenceId	Document Id
process.documentName	Document Name
process.indexes	Field Value Indexes
process.marketEntity	Field Value MarketEntity
process.businessUnit	Field Value BusinessEntity

10.180.4.123:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=5852257862302081&_afWindowMode=0&_adf.ctrl-state=159sd4t5bp_19# [Privacy Statement](#)

18. Add all those fields which are not present in the application as shown below.

Figure 7–53 Field Definitions



The Main Application Summary appears as shown Figure 7–54.

Figure 7–54 Main: Application Summary

ORACLE WebCenter Content: Imaging

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Main: Application Summary [Modify] [Delete] [Close]

Storage Policy

Document Storage
Volume: File default

Supporting Content Storage
Volume: File default

Workflow Configuration
Workflow injection enabled.

Server Properties
Connection: 6:JUTSOA

Component Properties
Composite: default/com.offss.fc.workflow.process.IPBulkUploadProcess1.0
Service: ipmbulkuploadbpelprocess_client_ep
Operation: process

Payload Properties

Payload Id	Mapped Value
process.documentType	Field Value Document Type
process.documentId	Field Value Document ID
process.documentReferenceId	Document Id
process.documentName	Document Name
process.indexes	Field Value Indexes
process.marketEntity	Field Value MarketEntity
process.businessUnit	Field Value BusinessUnit

Application History

Date	Type	User Name
1/7/2014	Definition Create	weblogic
1/7/2014	Definition Modify	weblogic
1/7/2014	Definition Modify	weblogic
1/29/2014	Definition Modify	weblogic
2/11/2014	Definition Modify	weblogic
2/11/2014	Definition Modify	weblogic
2/12/2014	Definition Modify	weblogic
2/14/2014	Definition Modify	weblogic
2/17/2014	Definition Modify	weblogic
2/20/2014	Definition Modify	weblogic
2/24/2014	Definition Modify	weblogic
2/28/2014	Definition Modify	weblogic
3/6/2014	Definition Modify	weblogic
3/14/2014	Definition Modify	weblogic
3/14/2014	Definition Modify	weblogic
3/25/2014	Definition Modify	weblogic
3/25/2014	Definition Modify	weblogic

Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved. Privacy Statement

7.2.6 Manage Inputs for Input Agents

To manage workflow configuration:

1. Log in to Image Processing Management (IPM).
2. Navigate to **Manage Inputs** section.

Figure 7–55 Input Agent: Basic Information

The screenshot shows a web browser window with the Oracle WebCenter Content: Imaging interface. The left sidebar contains a navigation menu with sections: Searches (Main Search, T12Search, Temporary Search), Tools (Manage Searches, Manage Applications), and Manage Inputs (IPMBulkuploadST, IPMBulkuploadT12). A 'Create Input' button is visible next to the 'Manage Inputs' section. The main content area displays the 'Basic Information' tab for the 'IPMBulkuploadST' input agent. The form includes fields for Name (IPMBulkuploadST), Description, and checkboxes for Online and Auto-detect input file character set. A 'Sample File' section shows 'DMSInputFile.txt' with 'Upload' and 'Browse' buttons. At the bottom, there are 'Cancel', 'Back', 'Next', and 'Submit' buttons. The footer indicates 'Copyright (c) 2010, 2013 Oracle and/or its affiliates. All rights reserved.' and a 'Privacy Statement' link.

3. Define an input agent by entering a **Name**. For example, **bulkUploadInput**.

Figure 7–56 Input Agent: Input Mask

Oracle WebCenter Content: Imaging

Basic Information **Review Sample File** Map File to Application Security Review Settings

IPMBulkuploadST: Identify and Parse File Parameters

Provide the information needed to properly locate input files and parse their content.

* Input Mask:

* Delimiter:

* Application:

Sample Data

/home/oracle/IPM_Bulk_Upload/IMPCommands.txt|IN_INCERT|1234|PARTY:1234|ME01|BU01|

4. Upload the sample file.

For example, name the sample file as DMSInputSampleFile.txt and add the following content to the sample file.

```
/home/oracle/IPM_Bulk_Upload/IMPCommands.txt|IN_
INCERT|1234|PARTY:1234|ME01|BU01|
```

5. In the **Input Mask** field enter the value which should be the same as the name given in table flx_fw_config_all_b.

```
select prop_value from flx_fw_config_all_b where category_id = 'reports' and prop_id = 'BULK_
UPLOAD_FILE_NAME_PREFIX';
```

Note

Input Mask name should have a * (asterisk character) to enable the process to read all the files whose prefix is same as the input mask value.

6. In the **Delimiter** field, enter the delimiter value as | (vertical bar character).

7. From the **Application** field, select the application to which the input agent will be applied.

Figure 7–57 Input Agent: File Parameters

The screenshot displays the Oracle WebCenter Content: Imaging web application. The browser's address bar shows the URL: 10.180.4.123:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=490040352549335&_afWindowMode=0&_adf.ctrl-state=bpwnbw. The page title is 'ORACLE WebCenter Content: Imaging'. The left sidebar contains navigation links: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. The main content area is titled 'bulkloadInput: Identify and Parse File Parameters' and includes a 'Review Sample File' tab. Below the title, there is a text area for 'Input Mask' (containing 'DMSIUTInput*.txt'), a 'Delimiter' field, and an 'Application' dropdown menu set to 'Main'. A 'Sample Data' section shows a file path: '/home/oracle/IPM_Bulk_Upload/BMPCommands.txt[IN_IVCERT|1234|PARTY:1234|ME01|BU01]'. At the bottom, there is a copyright notice: 'Copyright (c) 2010, 2011 Oracle and/or its affiliates. All rights reserved.' and a 'Privacy Statement' link.

8. In the Field Mapping section, map the **Application Fields**.

Figure 7–58 Input Agent: Fields Mapping

bulkloadInput: Field Mapping

Define the field mapping between the input file and the Application.

Input Mapping

Application Fields	Input Column	Sample Data	Use Application Default	Date Format
File Path	Column 1	/home/oracle/IPM_Bulk_Upload/IMPCo...		
Document Type	Column 2	IN_INCERT		
Customer Id	Column 3	1234		
DocId	Column 4	PARTY:1234		
DocName	Column 5	ME01		
MarketEntity	Column 6	BU01		
BusinessEntity				
PARTY				
COLLATERALTITLESEARCHR...				
COLLATERALVALUATIONRE...				
CHARGE CODE				
PRODUCT_GROUP_LINKAGE				
Document Description				
SUBMISSION				
LINKAGE ID				
COLLATERALCONDITIONLET...				
COLLATERALVALUATIONREP...				
SUBMISSIONID				
INSTRUMENTTYPE				
COLLATERALTITLESEARCHR...				
ACCOUNT_ID				
BRANCH				
COLLATERAL ID				
BORROWING ENTITY				
APPLICATION				
COLLATERAL				
FACILITY				

- After completion of the procedure, the Input Summary appears. The Input agent should have the settings similar to those shown in Figure 7–59.

Figure 7–59 Input Agent: Summary

ORACLE WebCenter Content: Imaging

Logged in as weblogic | Help | Refresh | Preferences | Logout | About

bulkloadInput: Input Summary [Modify] [Delete] [Close]

Basic Information

Description: Online ☒ [Toggle Online](#)

Auto-detect input file character set ☒

Field Mapping

Application: Main

Input Mapping:

File Path	Column 1
Document Type	Column 2
DocId	Column 3
Indexes	Column 4
MarketEntity	Column 5
BusinessEntity	Column 6

Input Mask: DMSIUTInput*.txt

Delimiter: |

Input Security

Type	Security Member	View	Modify	Delete	Grant Access
weblogic		✓	✓	✓	✓

History

Date	Type	User Name
9/25/2013	Definition Create	weblogic
9/25/2013	Definition Modify	weblogic
3/11/2014	Definition Modify	weblogic
3/12/2014	Definition Modify	weblogic

Copyright (c) 2010, 2011 Oracle and/or its affiliates. All rights reserved. Privacy Statement

Note

Do not forget to toggle online, else the input agent will not pick up any file for processing.

7.2.7 Additional Steps

1. Update user and bankcode as follows:

```
update flx_fw_config_all_b set prop_value='48' where prop_value='335' and category_id like 'contentmanager%';
update flx_fw_config_all_b set prop_value='ofssuser' where prop_id='userId' and category_id like 'contentmanager%';
```

2. In the flx_fw_config_all_b table, the values for **PROP_ID** should be the same as mentioned for the path in IPM server.

Table 7–1 PROP ID Values

PROP_ID	PROP_VALUE
FTPSEVER.DMSFILEPATH=/scratch/ofssobp/testinputagent/inputdir1/	Path in IPM config
FTPSEVER.REPORTPATH=/scratch/reports/	Path where files will be FTP
FTPSEVER.HOST	IPM IP
BULK_UPLOAD_FILE_NAME_PREFIX	Input Mask name given in the Manage Inputs for Input Agents section.

Figure 7–60 flx_fw_config_all_b table

The screenshot shows the Oracle SQL Developer interface. The 'Query Result' window displays the following data for the 'flx_fw_config_all_b' table:

PROP_ID	CATEGORY_ID	PROP_VALUE	FACTORY_SHIPPE
1 BULK_UPLOAD_FILE_NAME_PREFIX	reports	DMSIUTInputFile	Y
2 FILE_TRANSFER_PROTOCOL	reports	1	Y
3 FLG_ABORT_ON_FAILED_REPORT	reports	true	Y
4 FTPSEVER.DMSFILEPATH	reports	/scratch/ofssobp/testinputagent/inputdir1/	Y
5 FTPSEVER.HOST	reports	\$(ipm.server.name)	Y
6 FTPSEVER.REPORTPATH	reports	/scratch/ofssobp/testinputagent/	Y
7 HOST_REPORT_OCF	reports	jms/ORAQCF	Y
8 HOST_REPORT_REQ_Q	reports	jms/ReportRequestQ	Y
9 REPORT_CATEGORY_FOR_HEATH_CHECK	reports	E	Y
10 REPORT	reports	\$(fc.io.dir)/.../\$(default.legal.entity)/runarea/rjsout/	Y
11 REP_DEFAULT_DOCUMENT_TYPE	reports	BatchReport	Y
12 REP_DEFAULT_EVENT_ID	reports	DEFAULT_REPORT_EVENT	Y
13 UPLOAD_FILE_LOCATION	reports	\$(fc.io.dir)/.../\$(default.legal.entity)/runarea/rjsout/DMSInputFiles/	Y
14 reportTempPartPath	reports	\\deployables\\product	Y

- FTP service on IPM server should be running and FTP user should be created on host user connectors.

7.2.8 SSL Handshake Resolution

For resolving the SSLHandshake between IPM and SOA server:

1. Save the SOA server Certificate. SOA certificate needs to be saved in Base64 (.cer) format for import to IPM server.
2. Import the SOA server certificate on IPM server with following command.

Copy certificate at following path on IPM server.

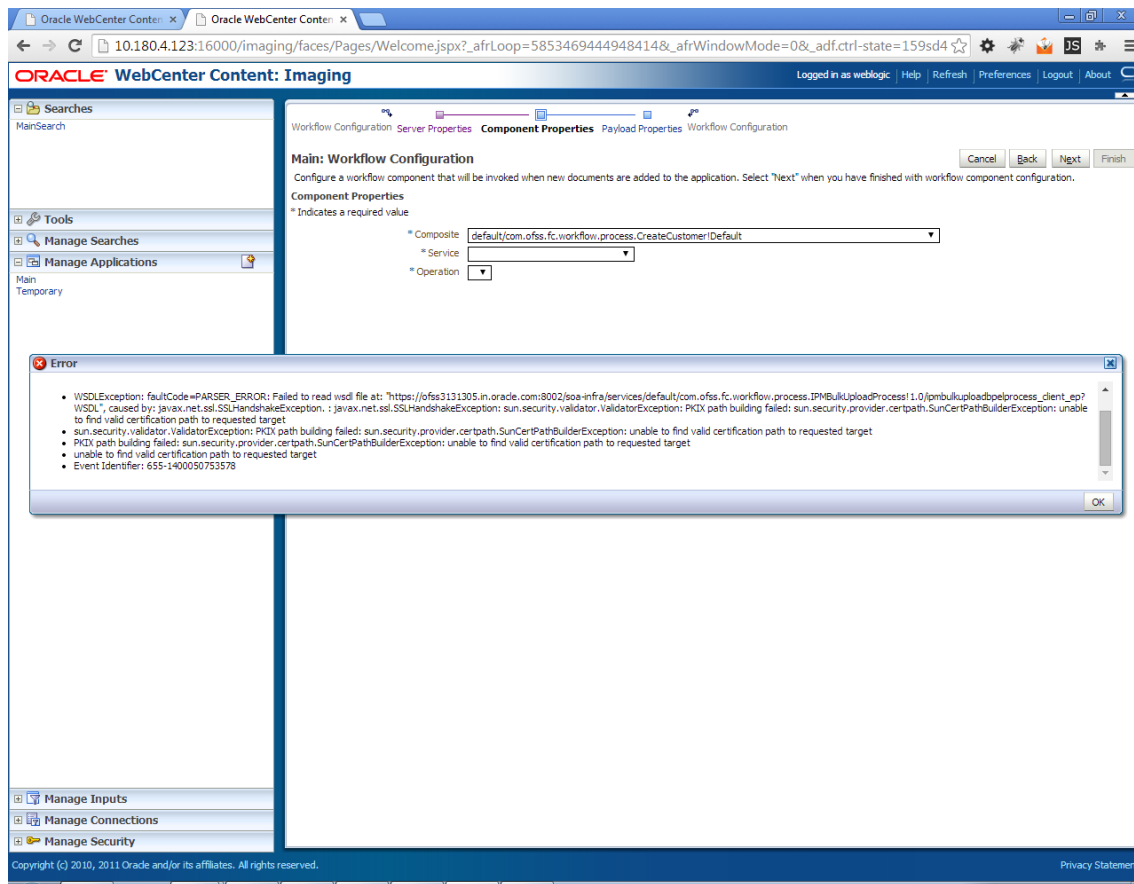
```
keytool -import -noprompt -trustcacerts -alias UI_SSL_trustself -file SOACert.cer -keystore cacerts -storepass changeit
```

3. Security policy for IPMbulkuploadProcess can be removed (if required).

Security for called method

com.ofss.fc.app.content.service.DocumentContentApplicationService.documentUpload (SessionContext, DocumentDTO) needs to be removed (for Development environment).

Figure 7–61 SSL Handshake Resolution



7.3 IPM Report Upload Setup

This section describes the configuration on IPM server, which is required for bulk report upload on IPM.

7.3.1 Prerequisites

Following are the prerequisites before proceeding with bulk upload process setup:

1. Application on IPM server on which bulk upload process needs to be configured must be created. For more information to understand the application creation process, see Image Processing and Management Admin Guide.
2. `com.ofss.fc.workflow.process.ReportIPMRefStoreProcess` must be deployed on SOA server.

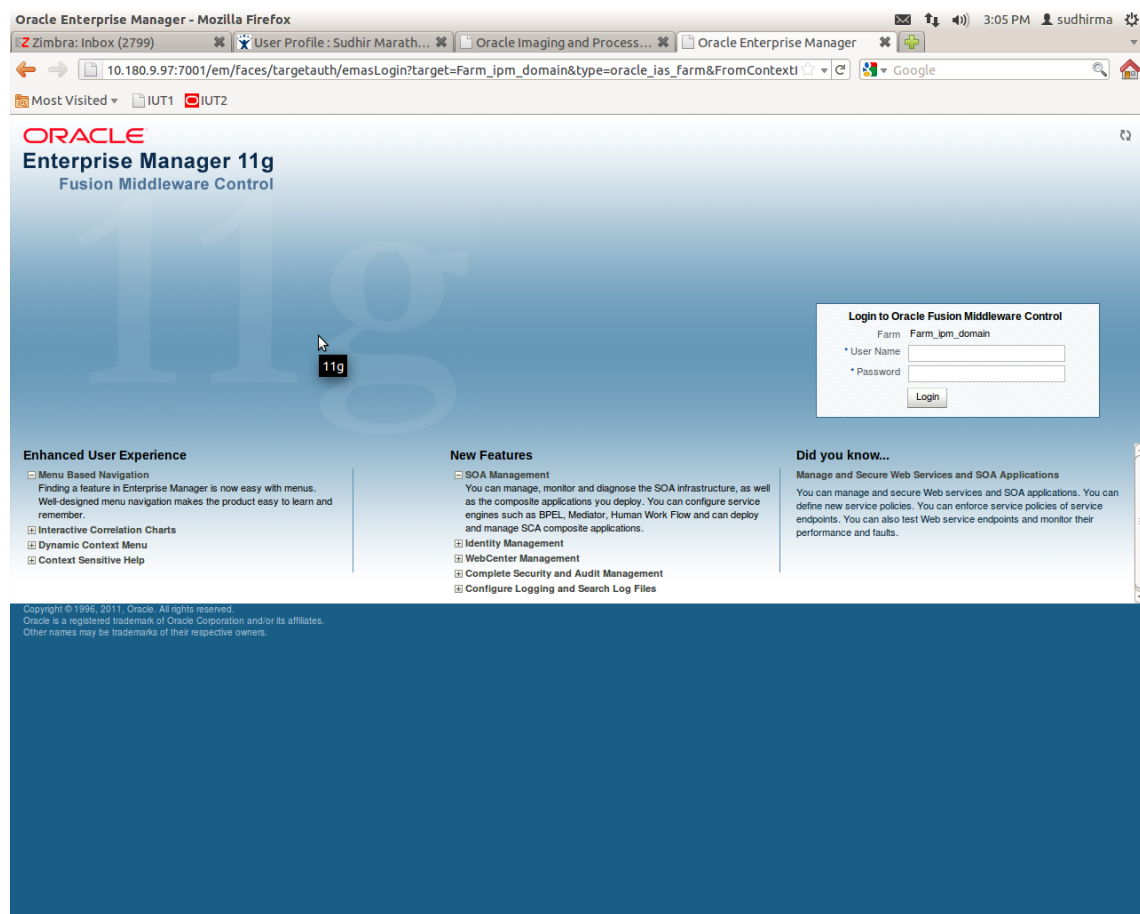
7.3.2 Setting up the Connection Name

To set up a bulk process we need to start by setting up the connection name, which is used as JNDI for IPM to BPEL connection.

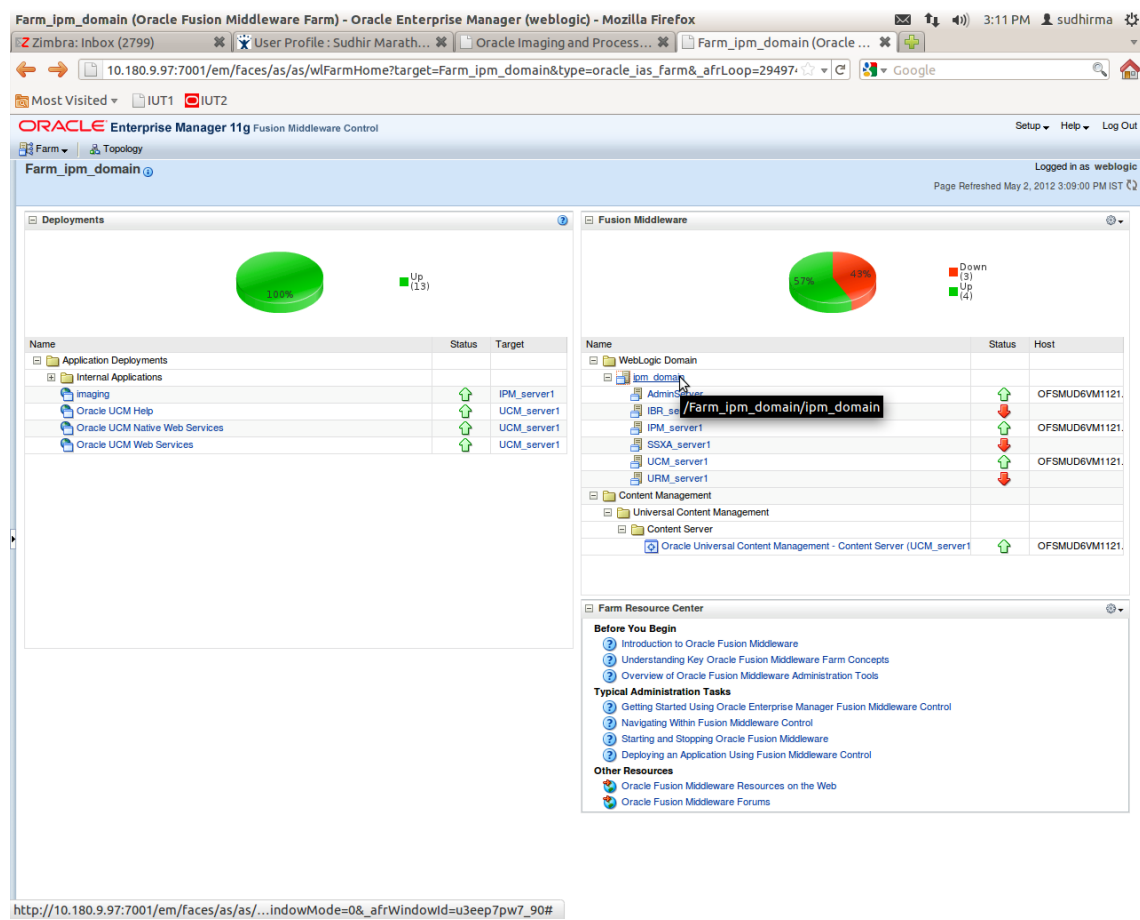
To set up a bulk process:

1. Log in to Enterprise Manager (EM) console.

Figure 7–62 Log in to Enterprise Manager (EM) console

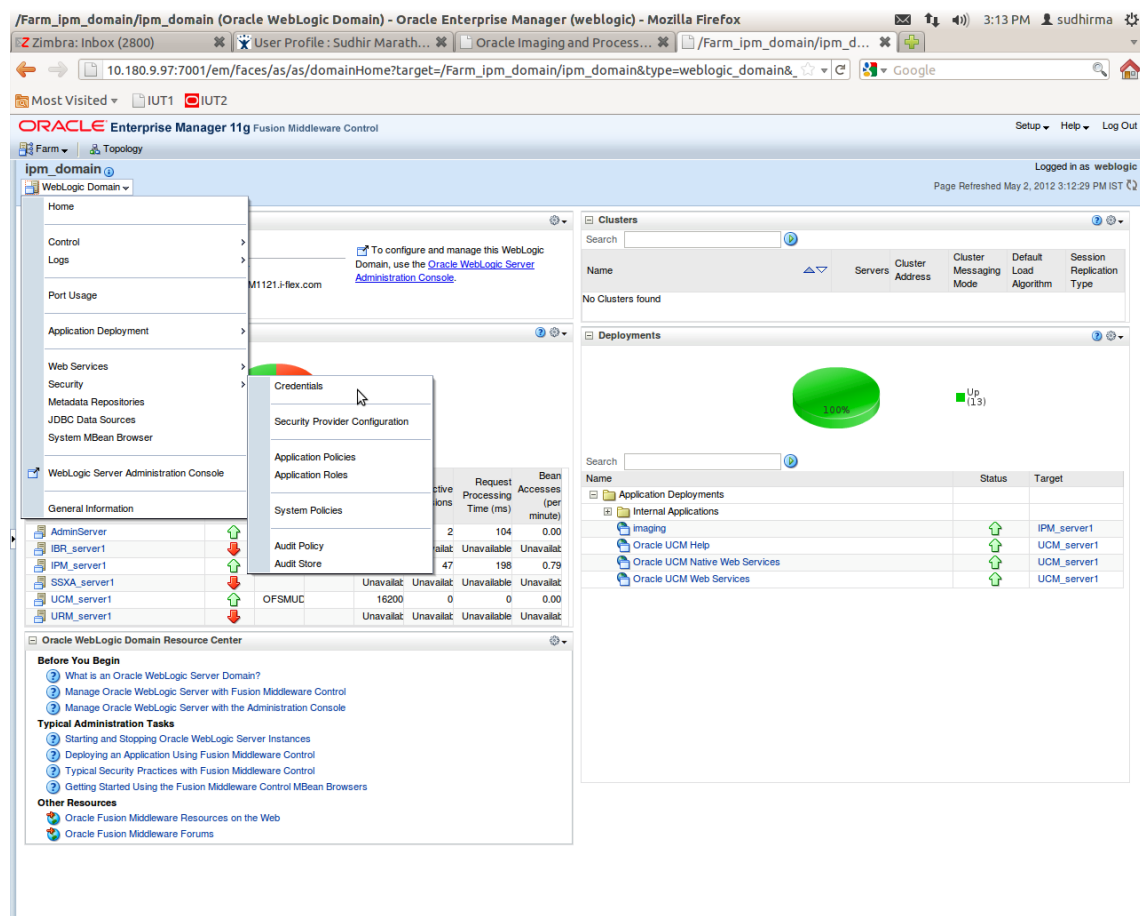


2. In the Fusion Middleware section, under Weblogic domain, click **ipm domain** (or base domain where ipm server is installed).

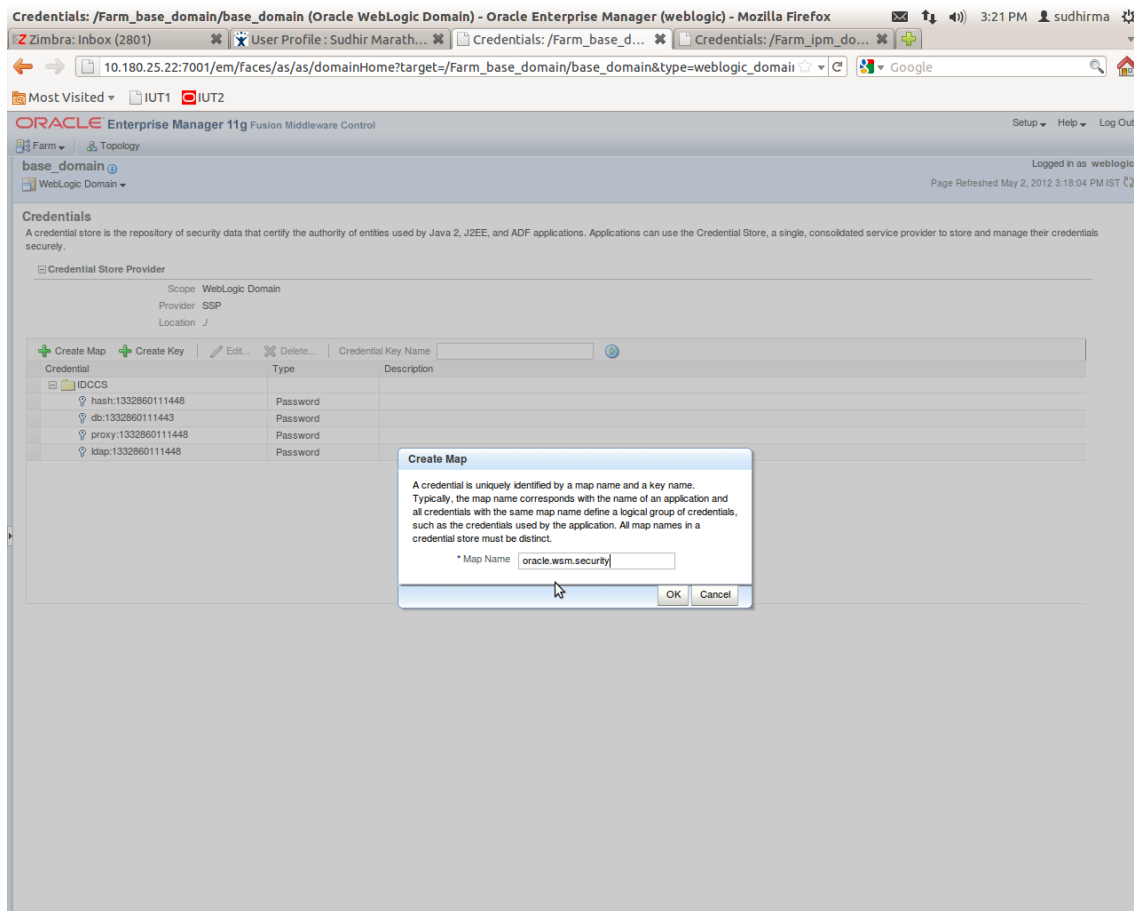
Figure 7–63 Click Weblogic Domain: ipm domain

3. In the top menu, click **Weblogic Domain**. The corresponding menu appears.
4. Navigate to **Security > Credentials**. The Credentials page appears.

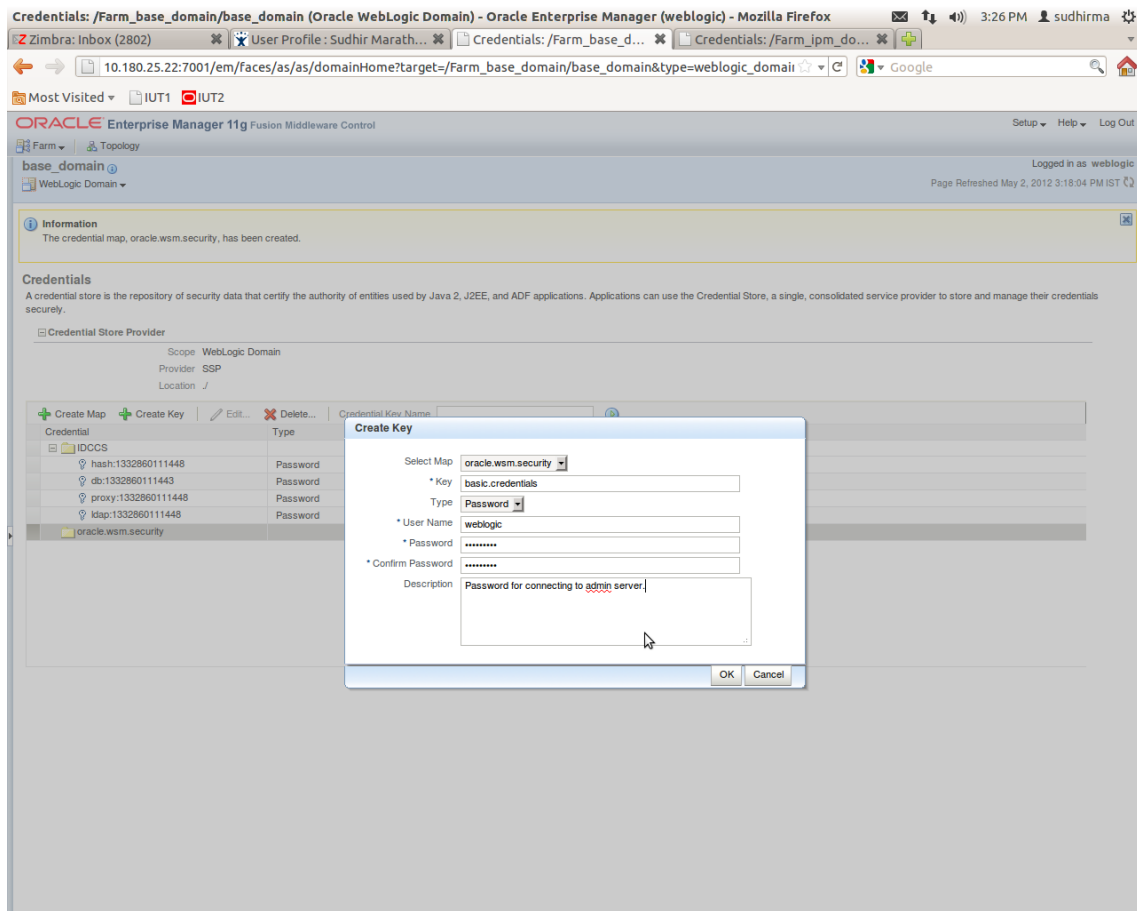
Figure 7–64 Navigate to Weblogic Domain --> Security --> Credentials



5. Click **Create Map** to create a map with the **Map Name** as **oracle.wsm.security**.

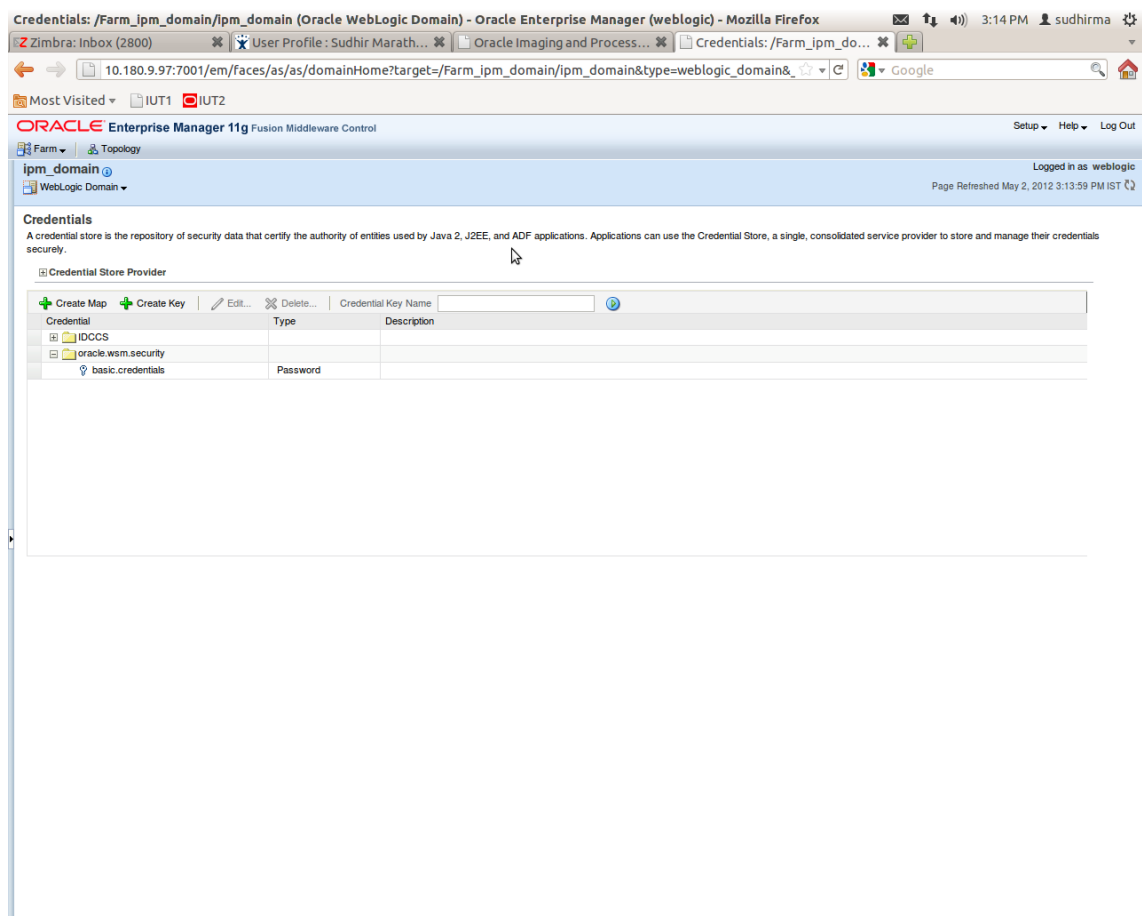
Figure 7–65 Create Map oracle.wsm.security

6. Click **Create Key** to create a key under the map **oracle.wsm.security**.

Figure 7–66 Create Key: basic.credentials

7. In the **Key** field, enter the key name as basic.credentials.
8. In the **Type** field, select the value as Password.
9. Enter the other required details.
10. Click **Ok**. The key is saved.

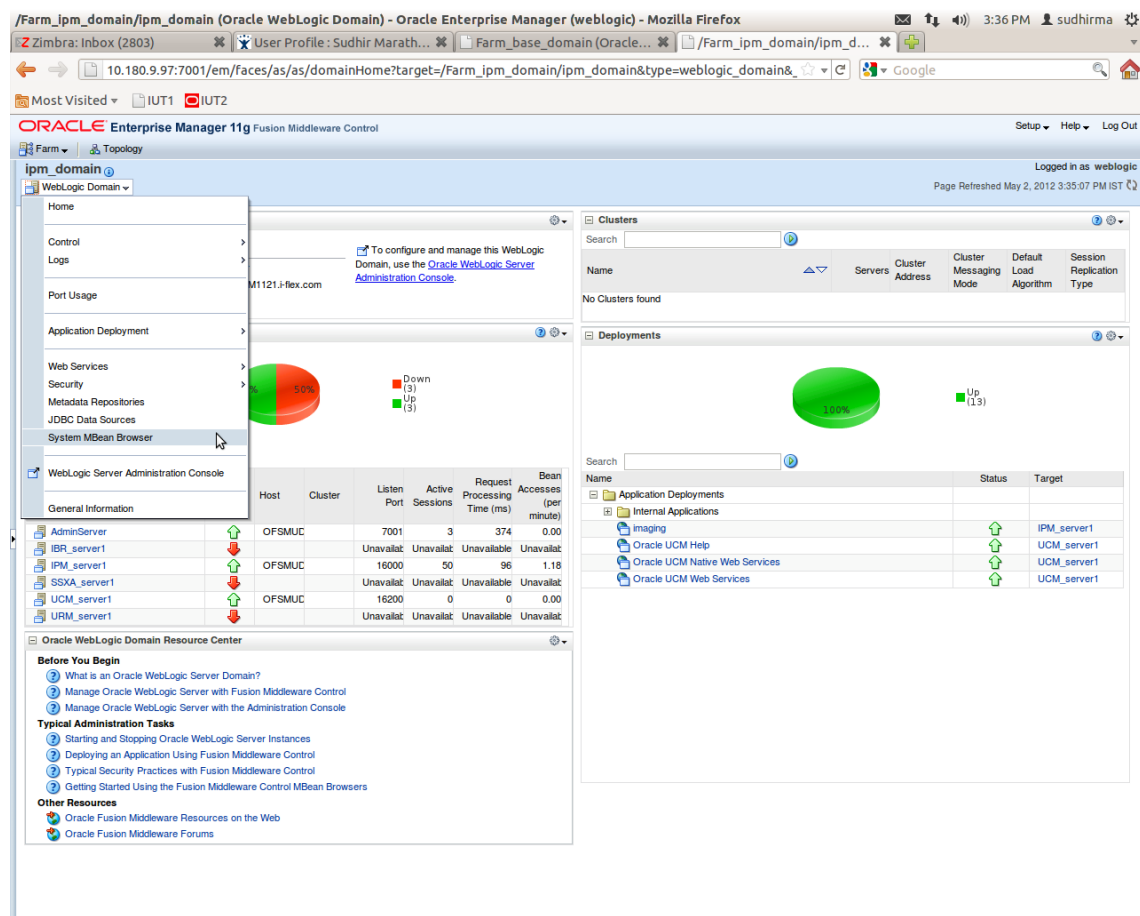
Figure 7–67 ipm_domain: Credentials Created



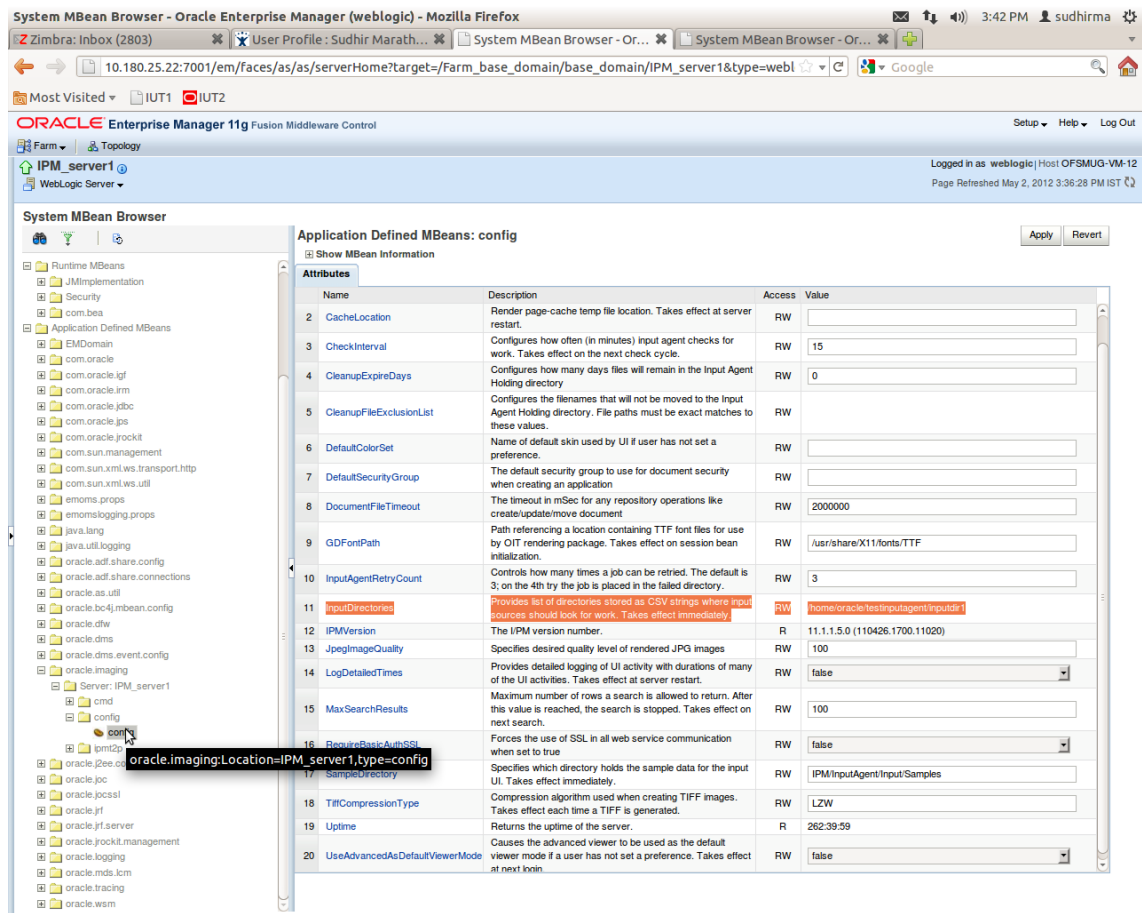
7.3.3 Setting up Input Agent Path

To set up input agent path:

1. Log in to Enterprise Manager (EM) console.
2. In the Fusion Middleware section, under Weblogic domain, click **ipm_domain**.
3. In the top menu, click Weblogic Domain. The corresponding menu appears.
4. Navigate to the domain System MBean Browser. The System MBean Browser page appears.

Figure 7–68 Navigate to Weblogic Domain --> System MBean Browser

5. In the left hand pane, navigate to **Application Defined MBeans > oracle.imaging > Server: IPM_server1 > config**.
6. For the attribute InputDirectories, in the **Value** column enter the value to set the path for input agents.
7. Change the highlighted path value to /scratch/ofssobp/testinputagent/inputdir1.

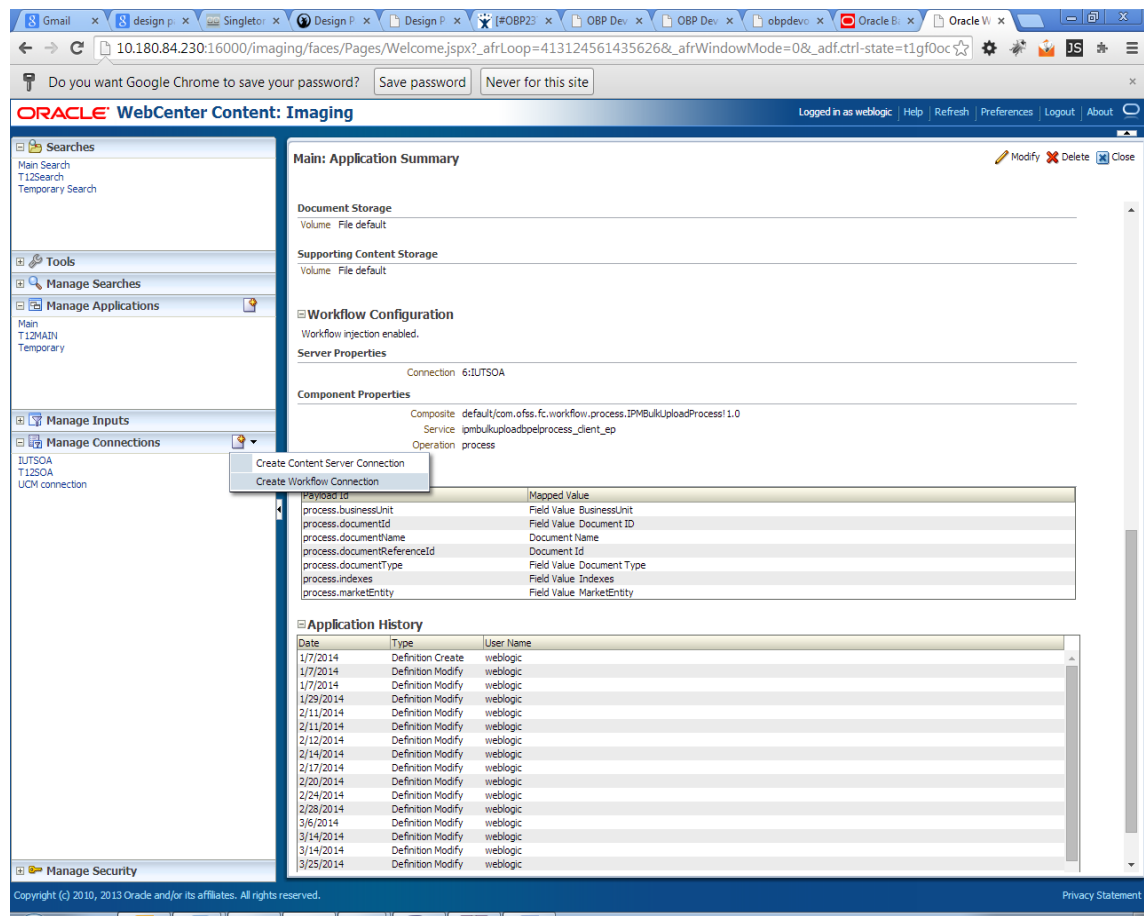
Figure 7–69 InputDirectories: Enter Input Agent Path

- Restart IPM server.

7.3.4 Create SOA Connection

To create a SOA Connection:

- Log in to Image Processing Management (IPM).
- Navigate to the Manage Connections section.

Figure 7–70 Manage Connections: Create Workflow Connection

3. Click **Create Workflow Connection**.
4. In the **Name** field, enter the name for SOA Connection as IUTSOA.

Figure 7–71 IUTSOA: Basic Information

The screenshot displays the Oracle WebCenter Content: Imaging interface. The main content area is titled "IUTSOA: Basic Information" and contains the following fields:

- Name:** IUTSOA
- Description:** IUT SOA server
- Connection Type:** Workflow Connection

The left sidebar shows a tree view with the following items:

- Searches
 - Main Search
 - T12Search
 - Temporary Search
- Tools
 - Manage Searches
 - Manage Applications
- Manage Inputs
 - Manage Connections
- Manage Security

The top navigation bar includes links for "Basic Information", "Workflow Settings", "Security", and "Review Settings". The bottom of the page shows the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=413124561435626&_afWindowMode=0&_adf.ctrl-state=t1gf0cwn_14=

5. In the **HTTP Front End Address** field, enter the value for SOA server.

Figure 7–72 IUTSOA: Workflow Settings

The screenshot shows the Oracle WebCenter Content: Imaging interface. The left sidebar contains navigation links for Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. The main content area is titled 'IUTSOA: Connection Settings' and includes a breadcrumb trail: Basic Information > Workflow Settings > Security > Review Settings. The 'Workflow Settings' tab is active, displaying the following fields:

- HTTP Front End Address:**
- Credential Alias:**
- Provider:**

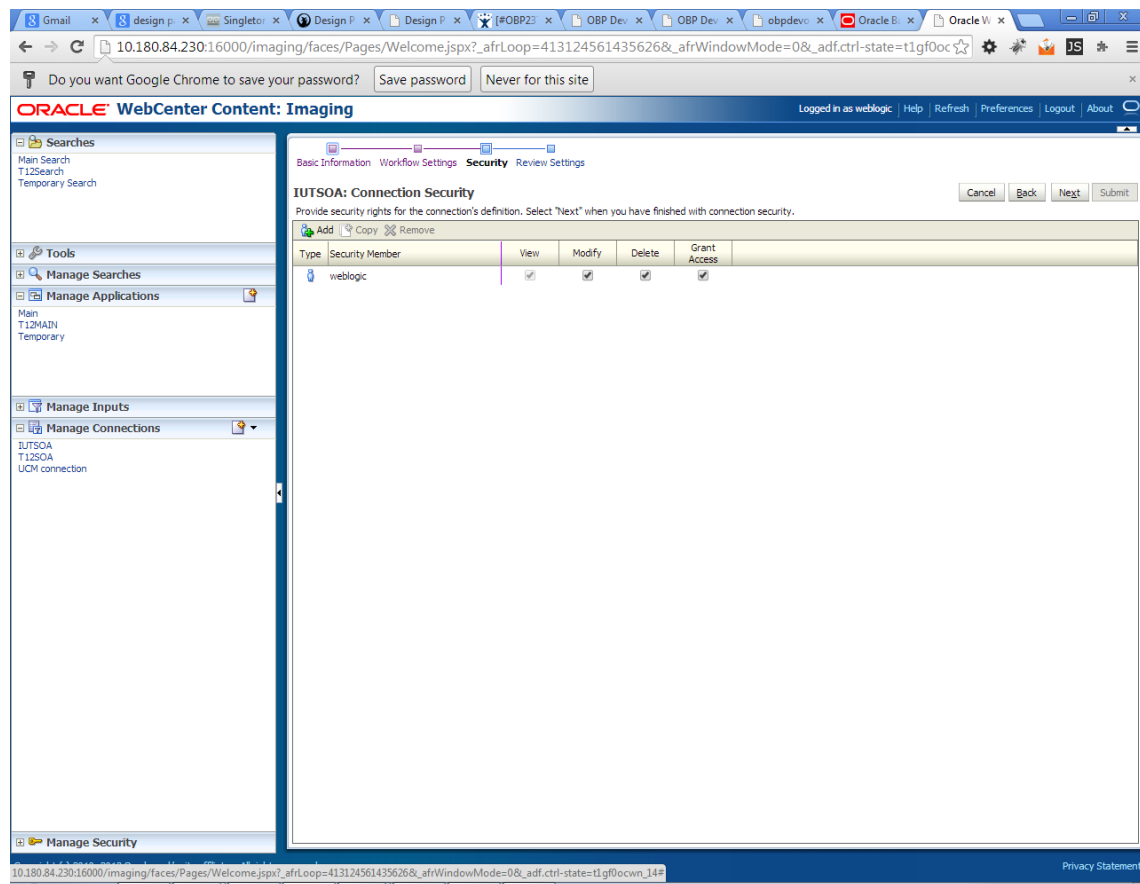
Buttons for 'Cancel', 'Back', 'Next', and 'Submit' are located at the top right. Below the settings fields is a 'Test Connection' button. A table below this button shows the results of the connection test:

Composite Name	Revision
No composites found	

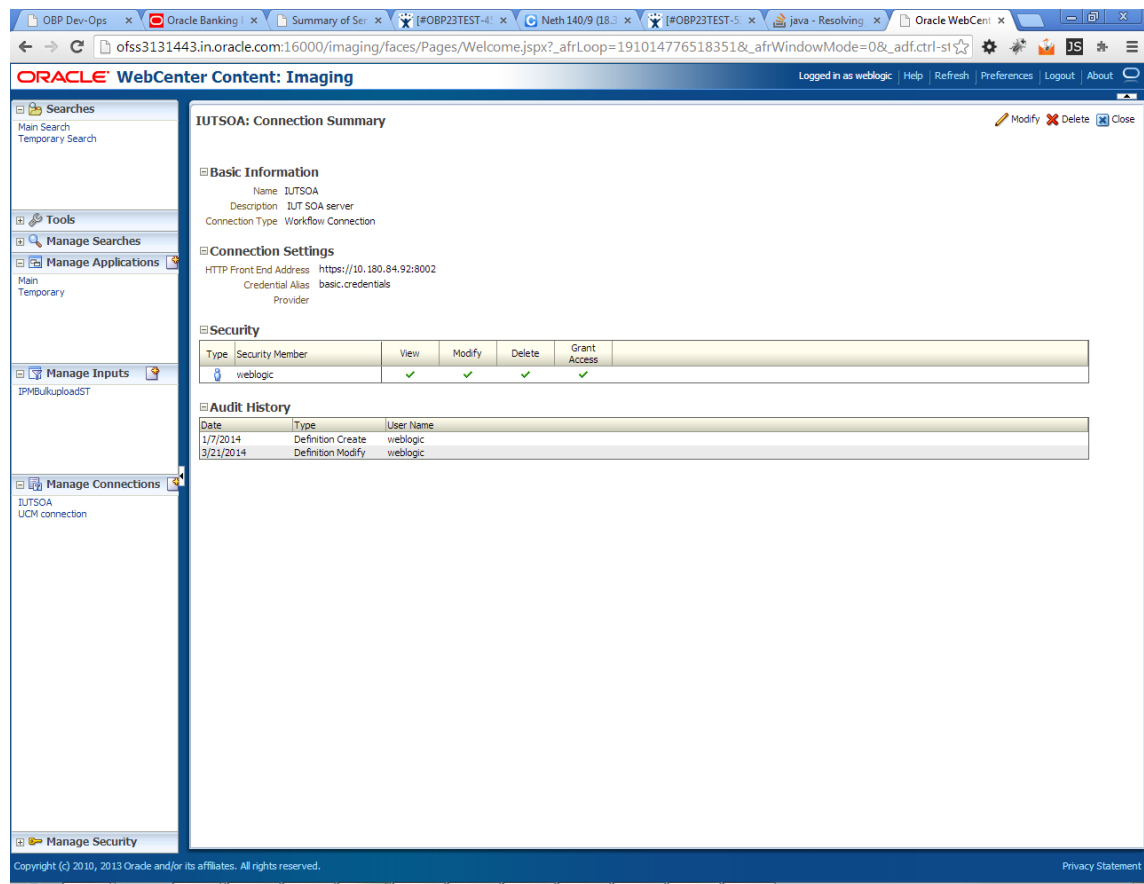
The bottom of the page shows the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?_afLoop=413124561435626&_afWindowMode=0&_adf.ctrl-state=t1gf0cwn_14# and a 'Privacy Statement' link.

6. In the **Credential Alias** field, enter the value as basic.credentials.
7. Click **Next** to proceed. The Connection Security page appears.

Figure 7–73 IUTSOA: Connection Security



8. Provide the requisite security rights to the connection's definition.
9. Click **Submit**.
10. Click **Next**. The Review Settings page appears.

Figure 7–74 IUTSOA: Review Settings

7.3.5 Manage Application Configuration

1. Navigate to the Manage Applications section.
2. Select Create New Application option. The Create Application: General Properties page appears.

Figure 7–75 Create Application: General Properties

The screenshot displays the 'Create Application: General Properties' page in the Oracle WebCenter Content: Imaging interface. The page is titled 'Create Application: General Properties' and includes a navigation bar with tabs: General Properties, Field Definitions, Application Security, Document Security, Storage Policy, Workflow Configuration, and Review Settings. The 'General Properties' tab is active.

The main content area contains the following fields and options:

- Application Name:** A text field containing the value 'Report'.
- Description:** A text area containing the text: 'This application uploads OBP Adhoc and Batch Reports in IPM and calls SOA process to update IPM Content Reference Id in OBP'.
- Repository:** A dropdown menu showing 'UCM Connection'.
- Full-Text Option:** Radio buttons for 'None' (selected), 'Fast Check In', and 'Full-Text Search'.

At the top right of the main content area, there are four buttons: 'Cancel', 'Back', 'Next', and 'Submit'. The 'Next' button is highlighted.

The left sidebar contains a tree view with the following items:

- Searches
 - Main
 - Temporary
- Tools
- Manage Searches
- Manage Applications
- Manage Inputs
- Manage Connections
 - SHOWE_L2N_US
 - T0150A
 - UCM Connection
- Manage Security

The bottom of the page shows a Windows taskbar with various application icons and a system clock indicating 6:23 PM on 10/26/2016.

3. Enter the general properties for the application and click **Next**. The Report: Field Definitions page appears.

Figure 7–76 Report: Field Definitions

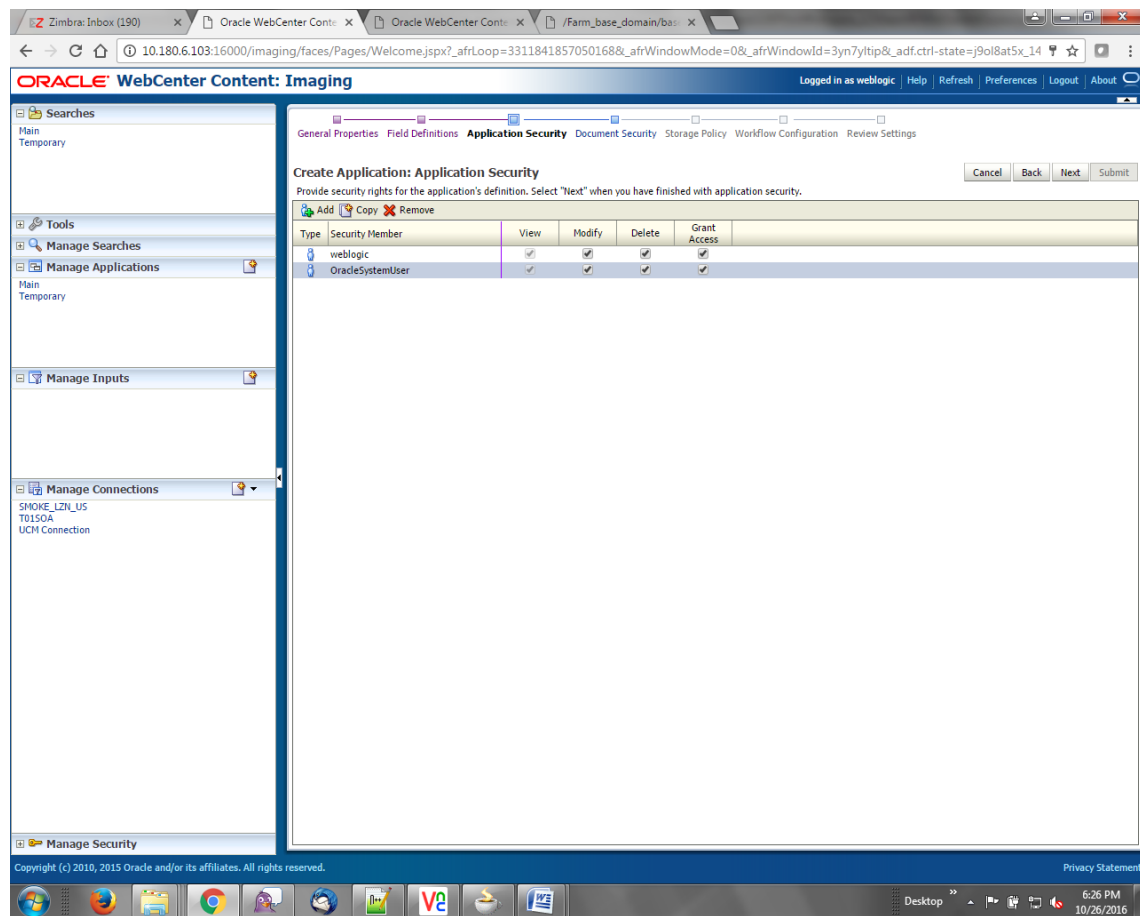
Report: Field Definitions

Provide field definitions for the application's content. Select "Next" when you have finished with field definitions.

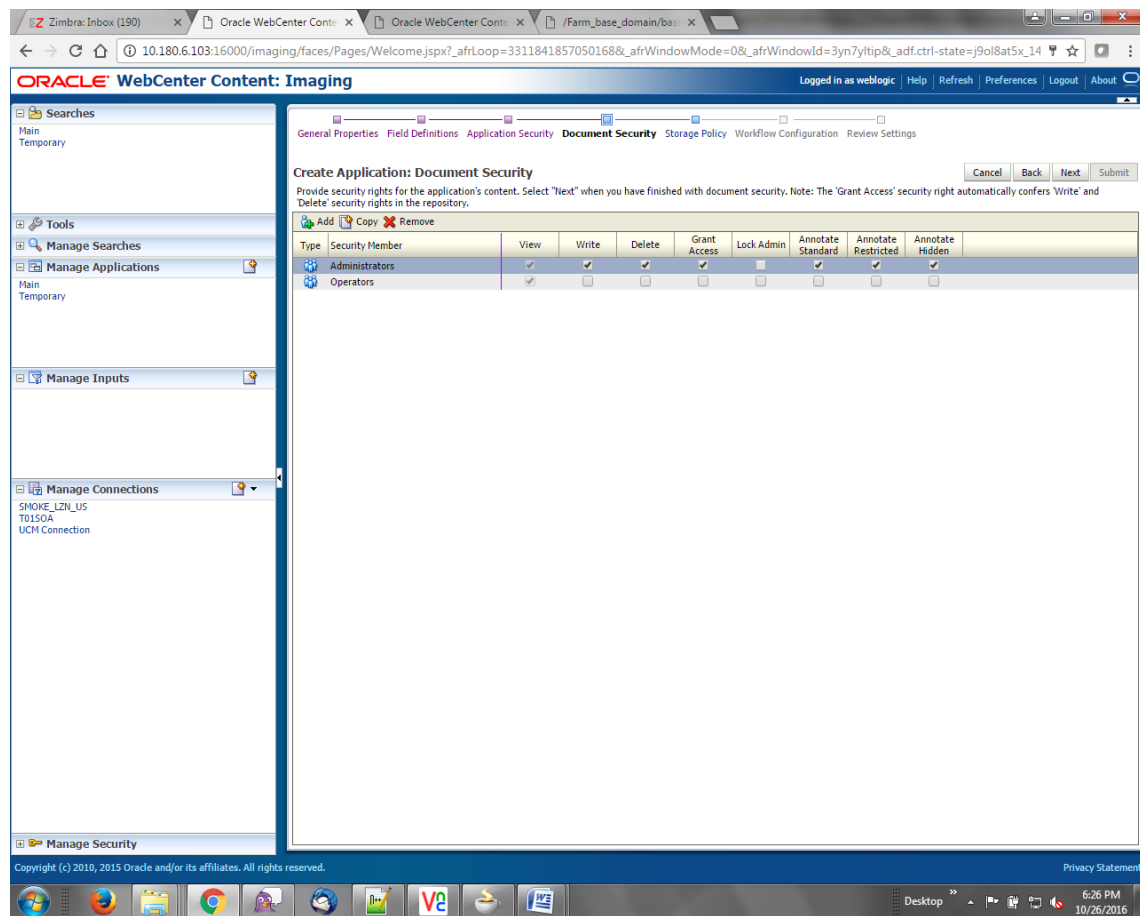
Type	Name	Length	Scale	Req	Inde	Default	Value	Picklist
Abc	BANK_CODE	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	CHANNEL	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	EXTERNAL_BATCH_NUMBER	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	EXTERNAL_SYSTEM_AUDIT_TRAIL_NUMBER	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	TARGET_UNIT	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	TRANSACTION_BRANCH	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	USER_ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	ADHOC_REPORT_REQUEST_ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	REPORT_ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	REPORT_TYPE	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	BRANCH_GROUP_CODE	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	REPORT_RUN_DATE	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	CONTENT_REFERENCE_ID	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	FILE_PATH	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Abc	REPORT_SPLIT_KEY	80		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

Warning
If you make changes to the field definitions, you may have to redo your work in the Workflow Configuration step.

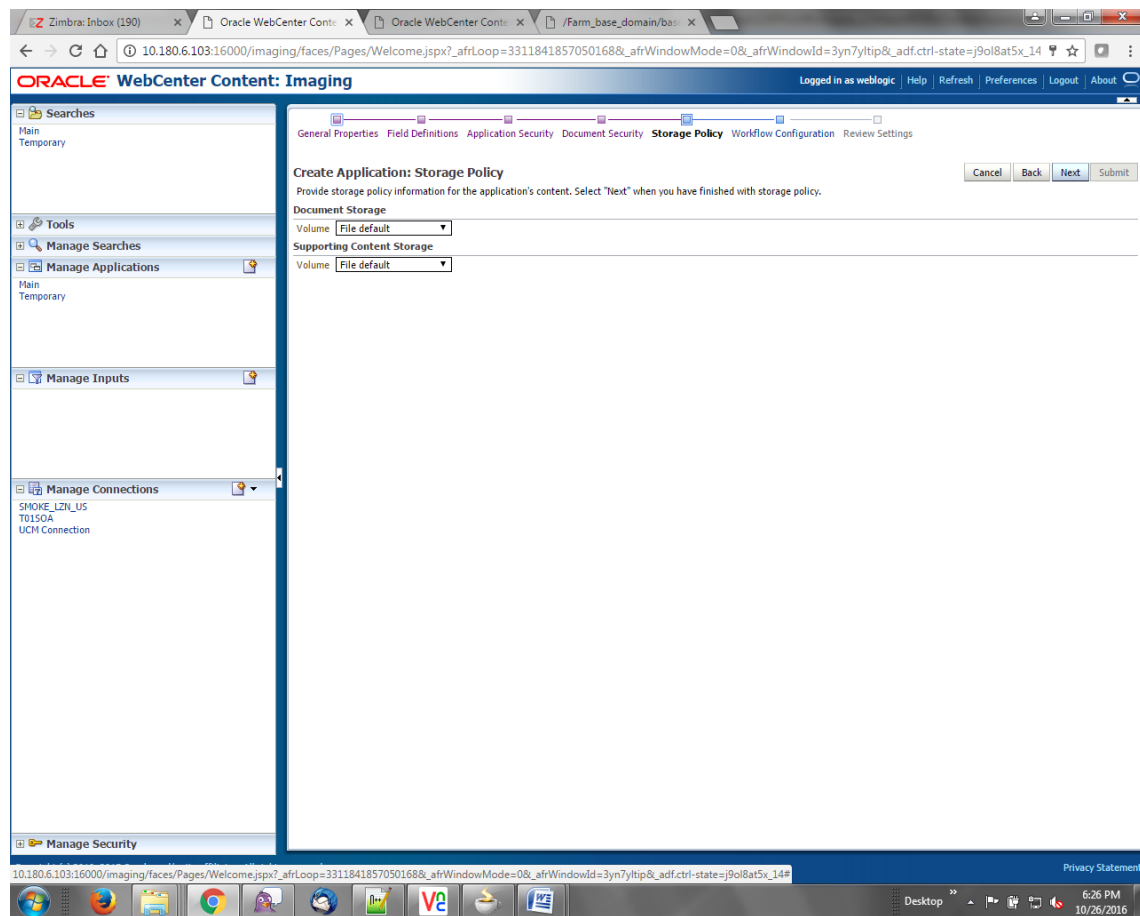
4. Enter the field definition details and click **Next**. The Create Application: Applications Security page appears.

Figure 7–77 Create Application: Applications Security

5. In the Application Security section, select the access rights for users and click **Next**. The Create Application: Document Security page appears.

Figure 7–78 Create Application: Document Security

6. In the Document Security section, select the access rights for users and click **Next**. The Create Application: Storage Policy page appears.

Figure 7–79 Create Application: Storage Policy

7. In Storage Policy section, select the **File Default** option in the Document Storage and Supporting Content Storage fields.
8. Click **Next**. The Report: Workflow Configuration page appears.
9. Enter the Workflow Configuration details in the Server Properties, Component Properties and Payload Properties sections as shown.

Figure 7–80 Report: Workflow Configuration - Server Properties

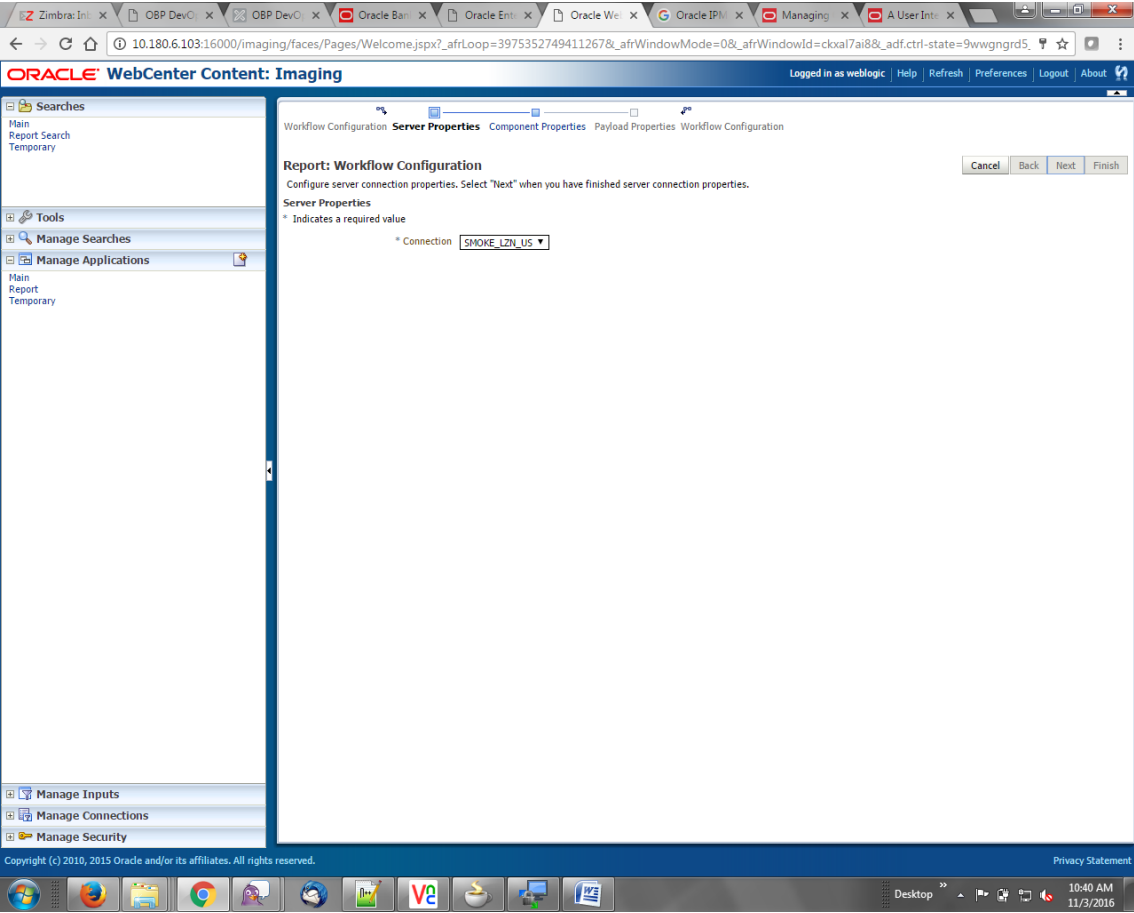


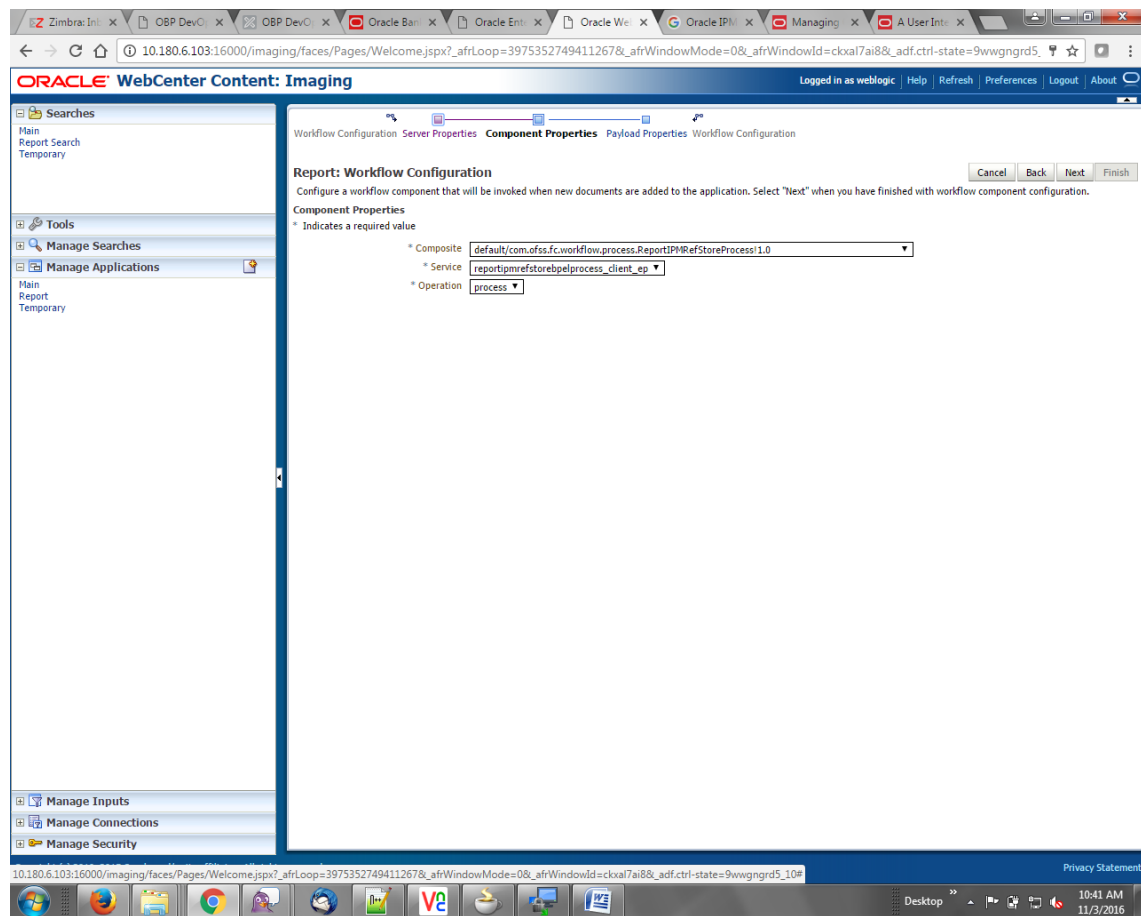
Figure 7–81 Report: Workflow Configuration - Component Properties

Figure 7–82 Report: Application Summary

Report: Application Summary [Modify] [Delete] [Close]

Storage Policy

Document Storage
Volume: File default

Supporting Content Storage
Volume: File default

Workflow Configuration

Workflow injection enabled.

Server Properties
Connection: 7:SMOKE_LZN_US

Component Properties
Composite: default/com.ofss.fc.workflow.process.ReportIPMRefStoreProcess!1.0
Service: reportipmrefstorebelpprocess_client_ep
Operation: process

Payload Properties

Payload Id	Mapped Value
process.bankCode	Field Value: BANK_CODE
process.channel	Field Value: CHANNEL
process.externalBatchNumber	Field Value: EXTERNAL_BATCH_NUMBER
process.externalSystemAuditTrailNumber	Field Value: EXTERNAL_SYSTEM_AUDIT_TRAIL_NUMBER
process.targetUnit	Field Value: TARGET_UNIT
process.transactionBranch	Field Value: TRANSACTION_BRANCH
process.userId	Field Value: USER_ID
process.adhocReportRequestId	Field Value: ADHOC_REPORT_REQUEST_ID
process.reportId	Field Value: REPORT_ID
process.reportType	Field Value: REPORT_TYPE
process.branchGroupCode	Field Value: BRANCH_GROUP_CODE
process.reportRunDate	Field Value: REPORT_RUN_DATE
process.contentReferenceId	Document Id
process.reportSplitKey	Field Value: REPORT_SPLIT_KEY

Application History

Date	Type	User Name
10/26/2016 6:32:...	Definition Create	weblogic
10/27/2016 11:15:...	Definition Modify	weblogic
11/3/2016 1:02:5...	Definition Modify	weblogic
11/3/2016 1:50:4...	Definition Modify	weblogic
11/3/2016 10:43:...	Definition Modify	weblogic
11/3/2016 3:29:2...	Definition Modify	weblogic

- Review the summary and click **Submit**.

Figure 7–83 Create Application: Review Settings

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

General Properties | Field Definitions | Application Security | Document Security | Storage Policy | Workflow Configuration | **Review Settings**

Create Application: Review Settings [Cancel] [Back] [Next] [Submit]

The following is a summary of the information you entered. Please review the content and click "Submit" to create the Application or "Back" to make changes.

General Properties

Application Name: Report
 Description: This application uploads OBP Adhoc and Batch Reports in IPM and calls SOA process to update IPM Content Reference Id in OBP
 Repository: UCM Connection
 Full-Text Option: None

Field Definitions

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	BANK_CODE	80			✓		
Abc	CHANNEL	80			✓		
Abc	EXTERNAL_BATCH	80			✓		
Abc	EXTERNAL_SYSTE	80			✓		
Abc	TARGET_UNIT	80			✓		
Abc	TRANSACTION_B	80			✓		
Abc	USER_ID	80			✓		
Abc	ADHOC_REPORT_	80			✓		
Abc	REPORT_ID	80			✓		
Abc	REPORT_TYPE	80			✓		
Abc	BRANCH_GROUP	80			✓		
Abc	REPORT_RUN_DATE	80			✓		
Abc	CONTENT_REFER	80			✓		
Abc	FILE_PATH	80			✓		
Abc	REPORT_SPLIT_KEY	80			✓		

Application Security

Type	Security Member	View	Modify	Delete	Grant Access
weblogic		✓	✓	✓	✓
OracleSystemUser		✓	✓	✓	✓

Document Security

Type	Security Member	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annotate Restricted	Annotate Hidden
Administrators		✓	✓	✓	✓		✓	✓	
Operators		✓							✓

7.3.6 Manage Inputs for Input Agents

To manage workflow configuration:

1. Log in to Image Processing Management (IPM).
2. Navigate to Manage Inputs section.

Figure 7–84 Manage Inputs

ORACLE WebCenter Content: Imaging Logged in as weblogic Help Refresh Preferences Logout About

Basic Information Edit Input File Settings Map File to Application Security Review Settings

Create Input: Basic Information
Define the basic information for the Input.

* Name

Description

Online ☒

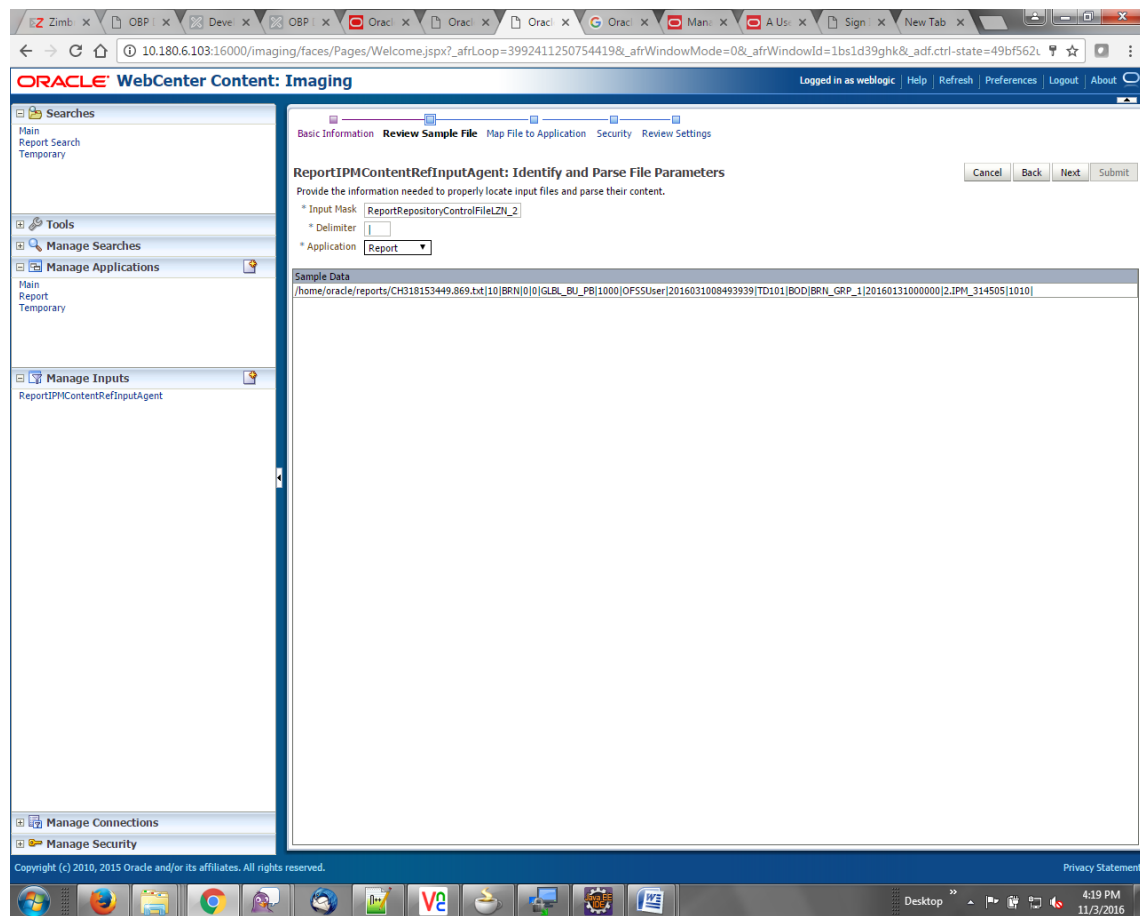
Auto-detect input file character set ☒

* Sample File

Cancel Back Next Submit

Copyright (c) 2010, 2015 Oracle and/or its affiliates. All rights reserved. Privacy Statement

3. Define an input agent by entering a Name. For example, bulkUploadInput.
4. Define Input Mask as ReportRepositoryControlFileLZN*.txt.

Figure 7–85 Input Agent Details: Input Mask

5. Upload the sample file.

For example, name the sample file as ReportRepositoryControlFile.txt and add the following content to the sample file.

```
/home/oracle/reports/CH318153449.869.txt|10|BRN|0|0|GLBL_BU_
PB|1000|OFSSUser|2016031008493939|TD101|BOD|BRN_GRP_
1|20160131000000|2.IPM_314505|1010|
```

6. In the **Input Mask** field, enter the value which should be the same as the name given in table.

```
flx_fw_config_all_b
```

```
select prop_value from flx_fw_config_all_b where category_id = reports and prop_id=REPORT_
UPLOAD_FILE_NAME_PREFIX;
```

```
appended with name given in table flx_fw_config_var_b
```

```
select prop_value from flx_fw_config_var_b where prop_id = env.name;
```

Note

Input Mask name should have a * (asterisk character) to enable the process to read all the files whose prefix is same as the input mask value.

7. In the **Delimiter** field, enter the delimiter value as | (vertical bar character).
8. From the **Application** field, select the application to which the input agent will be applied.

Figure 7–86 Input Agent Details: Field Mapping

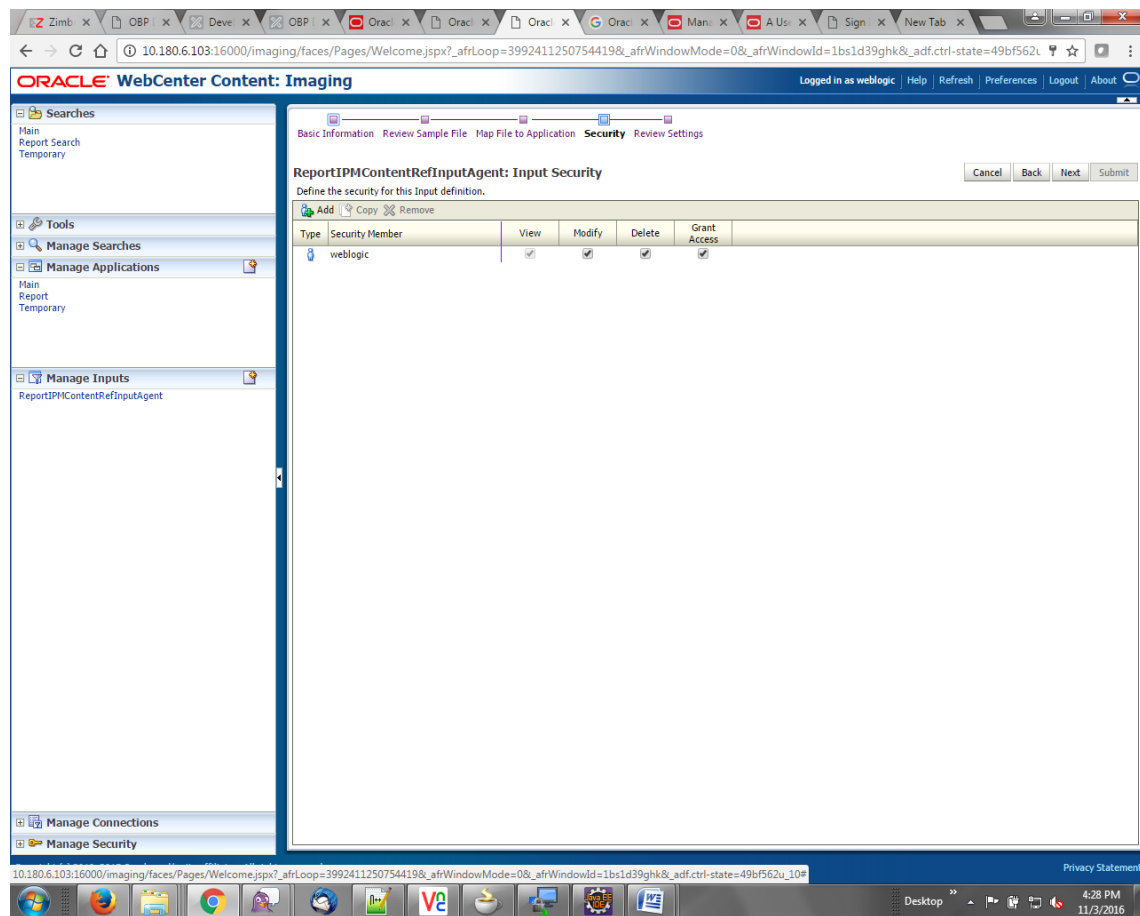
ReportIPMContentRefInputAgent: Field Mapping

Define the field mapping between the input file and the Application.

Input Mapping

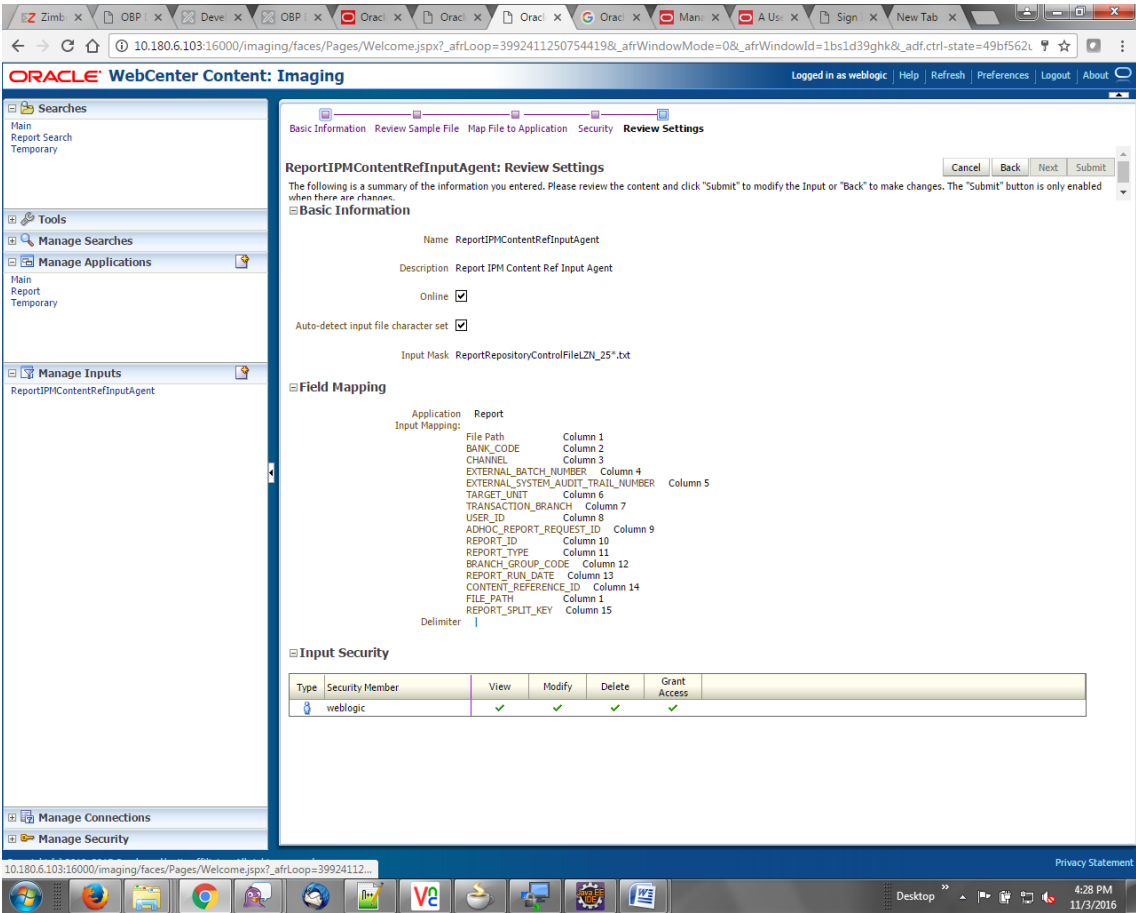
Application Fields	Input Column	Sample Data	Use Application Default	Date Format
File Path	Column 1	/home/oracle/reports/CH318153449.8...		
BANK_CODE	Column 2	10		
CHANNEL	Column 3	BRIN		
EXTERNAL_BATCH_NUMBER	Column 4	0		
EXTERNAL_SYSTEM_AUDIT_ID	Column 5	0		
TARGET_UNIT	Column 6	GLBL_BJ_PB		
TRANSACTION_BRANCH	Column 7	1000		
USER_ID	Column 8	OFSSUser		
ADHOC_REPORT_REQUEST_ID	Column 9	2016031008493939		
REPORT_ID	Column 10	TD101		
REPORT_TYPE	Column 11	BOD		
BRANCH_GROUP_CODE	Column 12	BRIN_GRP_1		
REPORT_RUN_DATE	Column 13	20160310000000		
CONTENT_REFERENCE_ID	Column 14	2.IPM_314505		
FILE_PATH	Column 1	/home/oracle/reports/CH318153449.8...		
REPORT_SPLIT_KEY	Column 15	1010		

9. Select the access rights for user in the Security section and click **Next**.

Figure 7–87 Input Agent Details: Security

The Input Summary appears. The Input agent must have the settings similar to those shown in the following figure.

Figure 7–88 Input Agent Details: Review Settings



Note

Do not forget to toggle online, else the input agent will not pick up any file for processing.

7.3.7 Manage Searches

To manage searches:

1. Click Manage Searches option and enter the search name with description.

Figure 7–89 Create Search: Properties

The screenshot shows the Oracle WebCenter Content: Imaging interface. On the left is a navigation pane with a tree structure containing 'Searches', 'Tools', 'Manage Searches', 'Manage Applications', 'Manage Inputs', 'Manage Connections', and 'Manage Security'. The 'Manage Searches' node is selected. The main area displays the 'Create Search: Properties' dialog box. This dialog has tabs for 'Properties', 'Results Formatting', 'Conditions', 'Parameters', 'Security', 'Preview and Test', and 'Review Settings'. The 'Properties' tab is active. It contains the following fields: 'Search Name' with the value 'Report Search', 'Description' with the value 'Search Report Application', 'Instructions' (empty), and 'Maximum Search Results' set to 0. At the top right of the dialog are 'Cancel', 'Back', 'Next', and 'Submit' buttons. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 6:36 PM on 10/26/2016.

2. Select the source application along with its field details.

Figure 7–90 Create Search: Results Formatting

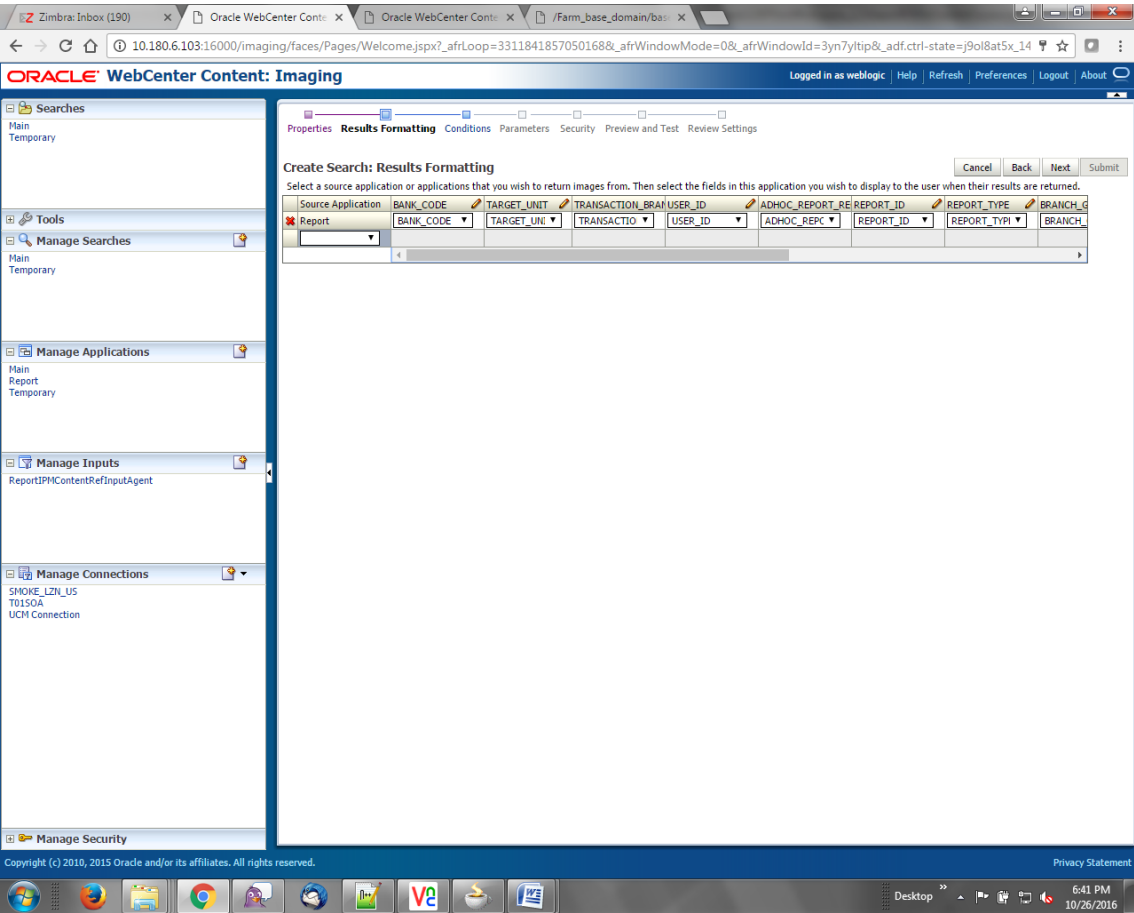


Figure 7–91 Create Search: Conditions

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Properties Results Formatting **Conditions** Parameters Security Preview and Test Review Settings

Create Search: Conditions Cancel Back Next Submit

Select the conditions you want to use to find the images in the selected applications.

Application Selection: Report

Field	Operator	Value	Conjunction
BANK_CODE	Equals	Parameter - BANK_CODE	Or
TARGET_UNIT	Equals	Parameter - TARGET_UNIT	Or
TRANSACTION_BRANCH	Equals	Parameter - TRANSACTION_BRANCH	Or
USER_ID	Equals	Parameter - USER_ID	Or
ADHOC_REPORT_REQUEST_ID	Equals	Parameter - ADHOC_REPORT_REQUEST_ID	Or
REPORT_ID	Equals	Parameter - REPORT_ID	Or
REPORT_TYPE	Equals	Parameter - REPORT_TYPE	Or
BRANCH_GROUP_CODE	Equals	Parameter - BRANCH_GROUP_CODE	Or
REPORT_RUN_DATE	Equals	Parameter - REPORT_RUN_DATE	Or
CONTENT_REFERENCE_ID	Equals	Parameter - CONTENT_REFERENCE_ID	Or
FILE_PATH	Equals	Parameter - FILE_PATH	Or
REPORT_SPLIT_KEY	Equals	Parameter - REPORT_SPLIT_KEY	Or

Search Conditions

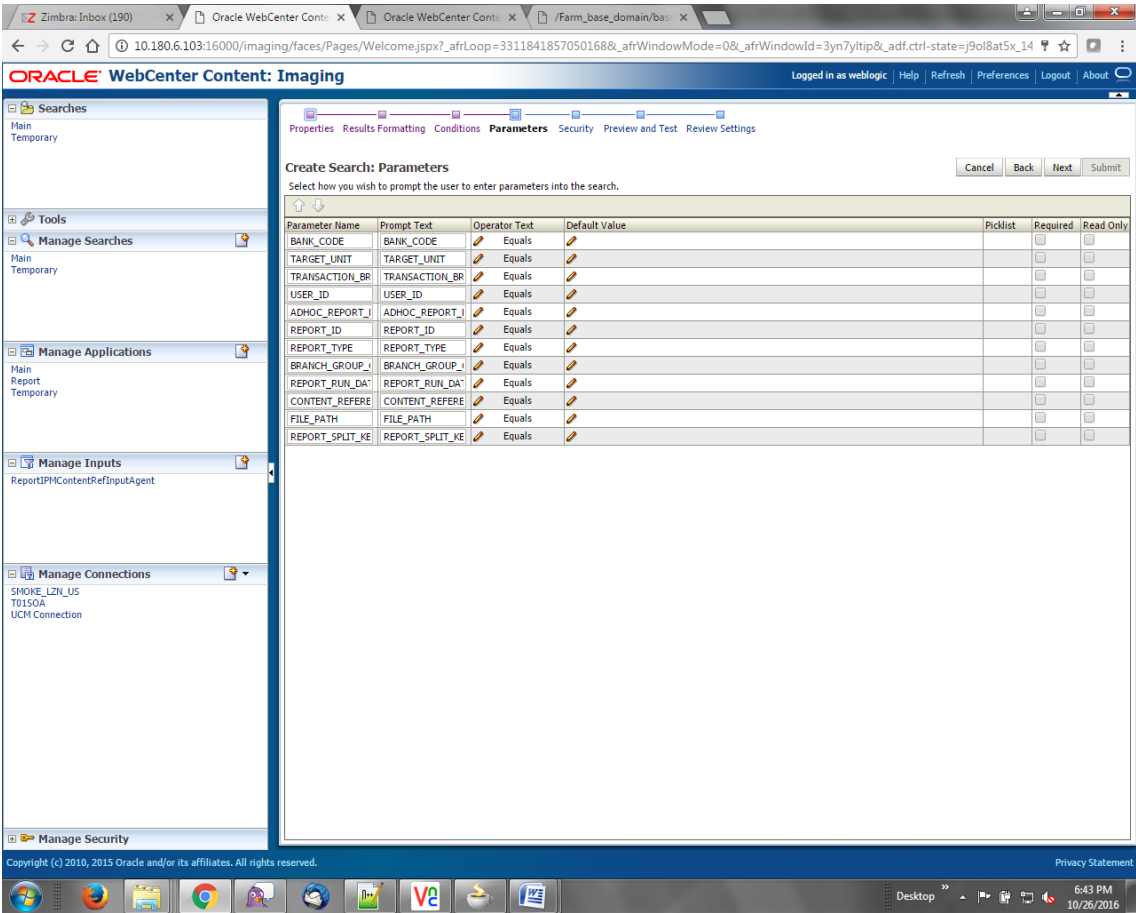
Application: Report

Field	Operator	Value	Conjunction
BANK_CODE	Equals	Parameter - BANK_CODE	Or
TARGET_UNIT	Equals	Parameter - TARGET_UNIT	Or
TRANSACTION_BRANCH	Equals	Parameter - TRANSACTION_BRANCH	Or
USER_ID	Equals	Parameter - USER_ID	Or
ADHOC_REPORT_REQUEST_ID	Equals	Parameter - ADHOC_REPORT_REQUEST_ID	Or
REPORT_ID	Equals	Parameter - REPORT_ID	Or
REPORT_TYPE	Equals	Parameter - REPORT_TYPE	Or
BRANCH_GROUP_CODE	Equals	Parameter - BRANCH_GROUP_CODE	Or
REPORT_RUN_DATE	Equals	Parameter - REPORT_RUN_DATE	Or
CONTENT_REFERENCE_ID	Equals	Parameter - CONTENT_REFERENCE_ID	Or
FILE_PATH	Equals	Parameter - FILE_PATH	Or
REPORT_SPLIT_KEY	Equals	Parameter - REPORT_SPLIT_KEY	Or

Copyright (c) 2010, 2015 Oracle and/or its affiliates. All rights reserved. Privacy Statement

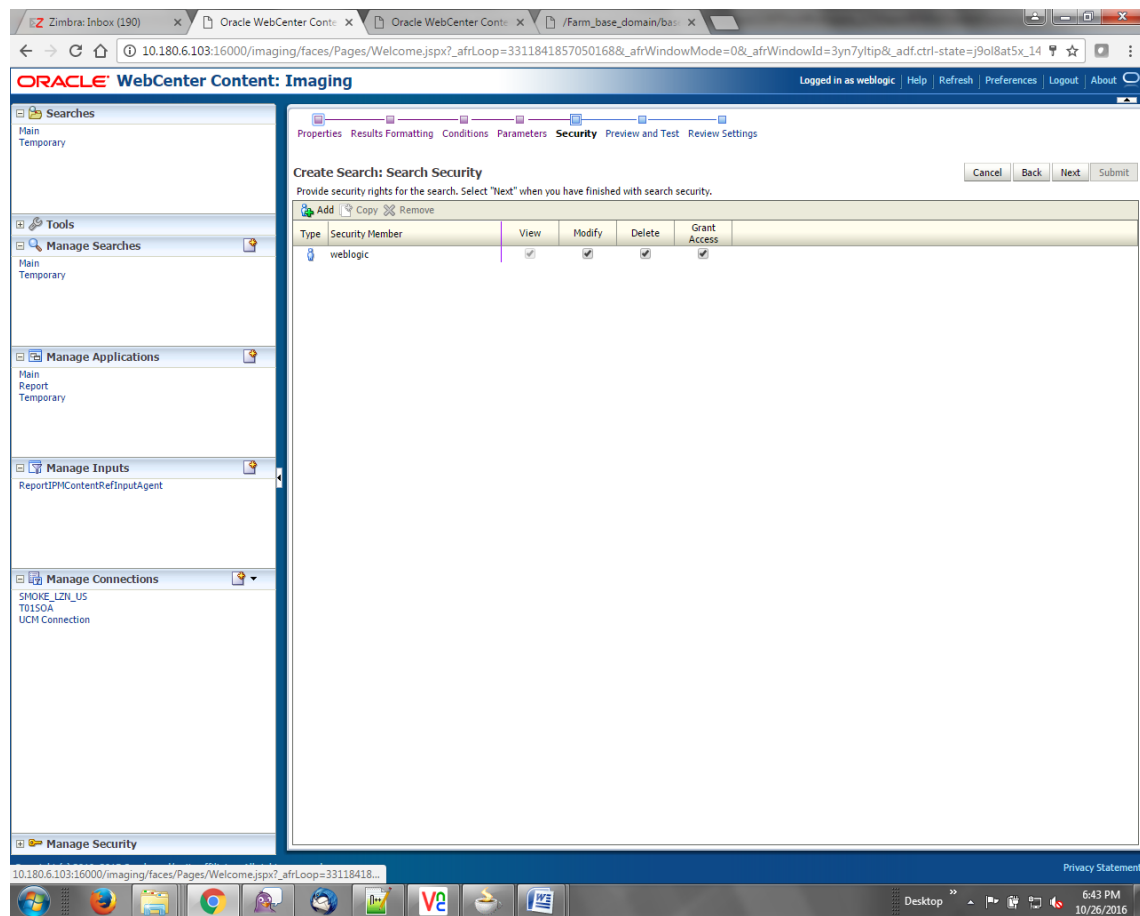
Desktop 6:43 PM 10/26/2016

Figure 7–92 Create Search: Parameters



3. Select the access rights for users in security configuration.

Figure 7–93 Create Search: Security



4. Review the summary and click **Submit**.

Figure 7–94 Create Search: Preview and Test

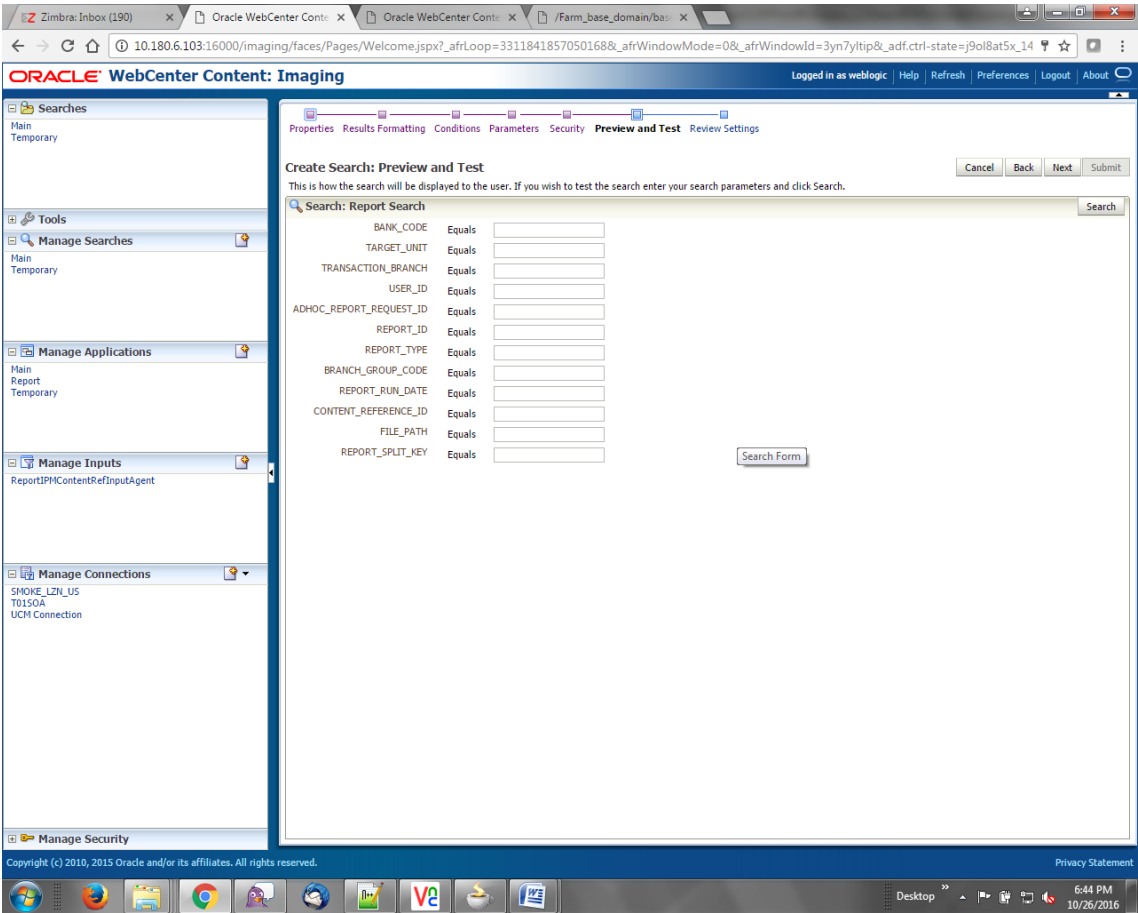


Figure 7–95 Create Search: Review Settings

ORACLE WebCenter Content: Imaging Logged in as weblogic | Help | Refresh | Preferences | Logout | About

Create Search: Review Settings

The following is a summary of the information you entered. Please review the content and click "Submit" to create the Search or "Back" to make changes.

Properties

Search Name: Report Search
Description: Search Report Application
Instructions:
Maximum Search Results: 0

Results Formatting

Source Application	BANK_CODE	TARGET_UNIT	TRANSACTION_BRA	USER_ID	ADHOC_REPORT_RE	REPORT_ID	REPORT_TYPE	BRANCH
Report	BANK_CODE	TARGET_UNIT	TRANSACTION_B...	USER_ID	ADHOC_REPORT_...	REPORT_ID	REPORT_TYPE	BRANCH

Conditions

Application: Report

(	Field	Operator	Value	)	Conjunction
(	BANK_CODE	Equals	Parameter - BANK_CODE	)	Or
(	TARGET_UNIT	Equals	Parameter - TARGET_UNIT	)	Or
(	TRANSACTION_B...	Equals	Parameter - TRANSACTION_BRANCH	)	Or
(	USER_ID	Equals	Parameter - USER_ID	)	Or
(	ADHOC_REPORT_...	Equals	Parameter - ADHOC_REPORT_REQUEST_ID	)	Or
(	REPORT_ID	Equals	Parameter - REPORT_ID	)	Or
(	REPORT_TYPE	Equals	Parameter - REPORT_TYPE	)	Or
(	BRANCH_GROUP_...	Equals	Parameter - BRANCH_GROUP_CODE	)	Or
(	REPORT_RUN_DATE	Equals	Parameter - REPORT_RUN_DATE	)	Or
(	CONTENT_REFER...	Equals	Parameter - CONTENT_REFERENCE_ID	)	Or
(	FILE_PATH	Equals	Parameter - FILE_PATH	)	Or
(	REPORT_SPLIT_KEY	Equals	Parameter - REPORT_SPLIT_KEY	)	Or

Parameters

Parameter Name	Prompt Text	Operator Text	Default Value	Picklist	Required	Read Only
BANK_CODE	BANK_CODE	Equals				
TARGET_UNIT	TARGET_UNIT	Equals				
TRANSACTION_B...	TRANSACTION_B...	Equals				
USER_ID	USER_ID	Equals				
ADHOC_REPORT_...	ADHOC_REPORT_...	Equals				
REPORT_ID	REPORT_ID	Equals				
REPORT_TYPE	REPORT_TYPE	Equals				
BRANCH_GROUP_...	BRANCH_GROUP_...	Equals				
REPORT_RUN_DATE	REPORT_RUN_DATE	Equals				
CONTENT_REFER...	CONTENT_REFER...	Equals				

7.3.8 Additional Steps

1. Update user and bankcode as follows:
update flx_fw_config_all_b set prop_value= ofssuser where prop_id='userid' and category_id like contentmanager%;
2. In the flx_fw_config_all_b table, the values for PROP_ID should be the same as mentioned for path in IPM server.

Table 7–2 PROP ID Values

PROP_ID	PROP_VALUE
FTPSEVER.DMSFILEPATH=/scratch/ofssobp/testinputagent/inputdir1/	Path in IPM config
FTPSEVER.REPORTPATH=/scratch/reports/	Path where files will be FTP
FTPSEVER.HOST	IPM IP
BULK_UPLOAD_FILE_NAME_PREFIX	Input Mask name

PROP_ID	PROP_VALUE
	given in Manage Inputs for Input Agents section.

3. FTP service on IPM server should be running and FTP user should be created on host user connectors.
4. For resolving the SSLHandshake between IPM and SOA server:

- a. Save the SOA Server Certificate. SOA certificate needs to be saved in Base64 (.cer) format for import to IPM server.

- b. Import the SOA server certificate on IPM server with following command.

Copy certificate at the following path on IPM server.

path:/scratch/app/product/oracle_jrockit_jdk1.6.0_37_R28.2.5_4.1.0/jre/lib/security

```
keytool -import -noprompt -trustcacerts -alias UI_SSL_trustself -file SOACert.cer -keystore
cacerts -storepass changeit
```

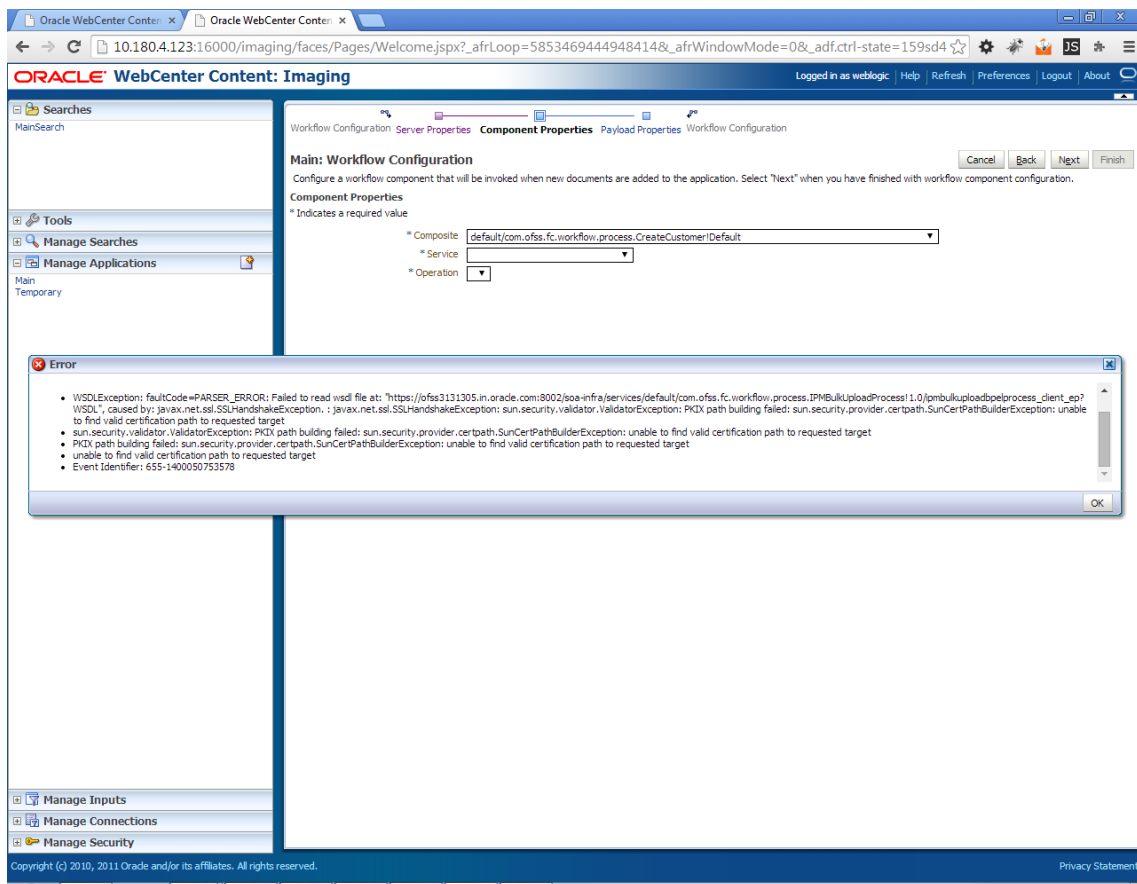
- c. Security policy for ReportIPMRefStoreProcess can be removed (if required).

Security for called method

com.ofss.fc.app.report.ReportGenerationApplicationService.updateAdhocReportContentRefId (SessionContext, ReportRequestDTO) needs to be removed (for Development environment).

com.ofss.fc.app.report.ReportGenerationApplicationService.updateBatchReportContentRefId (SessionContext, BatchRequestDTO) needs to be removed (for Development environment).

com.ofss.fc.app.report.ReportGenerationApplicationService.updateSplitReportContentRefId (SessionContext, ReportSplitDetailDTO) needs to be removed (for Development environment).

Figure 7–96 Component Properties

8 ODI Configuration

This chapter details steps involved in the configuration of ODI. Before configuring ODI, you need to install the required ODI version mentioned in [Section 2.1.2.1 Certification Details](#).

You can configure ODI using `odi.tar.gz`. ODI configuration zip is present inside the `ob-utils zip/Insights.zip`.

8.1 Configuration Procedure

Following are the steps required for ODI configuration using `ob-utils zip/Insights.zip`:

1. Create master and work repository using RCU. At the end of RCU run, master and work repository is created in one schema.
2. Create a staging area to copy all the scenarios from `ob-utils.zip\Insights.zip\odi.tar.gz\odi.tar`.
3. Follow ODI Level Configurations mentioned in Section 1 Analytics Configuration.
4. Create data source for master and work repository with schema and DB details based on step 1.
 - `odiMasterRepository` for Master Repository having JNDI name: `jdbc/odiMasterRepository`.
 - `odiWorkRepository` for Work Repository having JNDI name: `jdbc/odiWorkRepository`.
5. Create three more data sources in the ODI domain.
 - `odiOCSA` for CSA DB having JNDI name: `jdbc/odiOracleCsa`
 - `odiUploadOBP` for OBP DB having JNDI name: `jdbc/odiUploadOBP`
 - `odiOBP` for source DB having JNDI name: `jdbc/odiOBP`
6. Deploy agent from staging area in ODI domain.
7. Create one data source to access reporting db (`jdbc/FCBDataSourceODI`) with the name `OBP_HOST_ODI_XA` in host domain where batch will run.
8. Make the entry for `WSDL_URL` in `odi.properties` file in host domain where batch will run.

Example: `WSDL_URL =`

`http://<ODIDOMAINSERVER>:8080/oracle12diagent/OdiInvoke?WSDL`

9 Monitoring Servers Using Oracle Enterprise Manager

This chapter lists the steps required to monitor servers using Oracle Enterprise Manager (EM).

The OBEPM servers can be monitored using Oracle Enterprise Manager (EM). 'em_monitor.zip' is available inside 'ob-utils' for this purpose. The procedure is as follows:

1. Extract the 'ob-utils' to get 'em_monitor.zip'.
2. Extract 'em_monitor.zip'. It contains 'obp_em_view_script' folder.

For monitoring the OBEPM Servers, follow the procedures given in Oracle Banking Enterprise Product Manufacturing Management Pack Setup Guide.

10 Post Installation Verification

This chapter lists the steps required to verify the Oracle Banking Enterprise Product Manufacturing installation.

10.1 UI Domain Verification

To verify the UI domain installation:

1. Start the UI domain Admin and Managed servers.
2. In the WebLogic console (<UI_IP>:<UI_ADMIN_PORT>/console), navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEPM libraries and applications is *Active*.
 - Shared Libraries
 - ob.app.client.communications
 - ob.app.client.cz
 - ob.app.client.fw
 - ob.app.client.pm
 - ob.app.client.sh
 - ob.ui.communications
 - ob.ui.cz
 - ob.ui.fusion
 - ob.ui.pm
 - ob.ui.sh
 - ob.ui.tp
 - ob.ui.tp.cz
 - Ears
 - com.ofss.fc.app.monitoring
 - com.ofss.fc.app.ui.connector
 - com.ofss.fc.ui.rest.ops
 - com.ofss.fc.ui.view.admin
 - com.ofss.fc.ui.view.developer
 - com.ofss.fc.ui.view.qa
 - com.ofss.fc.ui.view.obepm

Figure 10–1 UI WebLogic Console












 ob.app.client.communications(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.app.client.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.app.client.fw(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.app.client.pm(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.app.client.sh(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.communications(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.fusion(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.pm(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.sh(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.tp(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100
 ob.ui.tp.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obpui_cluster1	Global	100

Figure 10–2 UI WebLogic Console

	 com.ofss.fc.app.monitoring	Active	✔ OK	Web Application	obpui_cluster1	Global	100
	 com.ofss.fc.app.ui.connector	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	80
	 com.ofss.fc.ui.rest.ops	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	100
	 com.ofss.fc.ui.view.admin	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	100
	 com.ofss.fc.ui.view.developer	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	100
	 com.ofss.fc.ui.view.obepm	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	100
	 com.ofss.fc.ui.view.qa	Active	✔ OK	Enterprise Application	obpui_cluster1	Global	100

4. In EM console (<UI_IP>:<UI_ADMIN_PORT>/em), check the status of:

- Cluster
- Managed Servers
- Applications

Figure 10–3 UI EM Console Status Check

The screenshot shows the Oracle Enterprise Manager console for the 'ui_domain'. The left sidebar indicates the status of various components: 2 Servers Up, 1 Cluster Up, and 12 Deployments Up. The main content area shows the 'Administration Server' details, including its name, host, and ports. Below this, a table lists the servers in the domain.

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Mem Usage (MB)
AdminServer(admin)	Up			Running	OK	7001	4.31	805.9
obpui_server1	Up	obpui_cluster1	ui_machine1	Running	OK	8001	0.98	2,870.1

5. In (<UI_IP>:<UI_ADMIN_PORT>/wsm-pm/validator) and (<UI_IP>:<UI_MANAGED_PORT>/wsm-pm/validator) screens, all policies must appear.

Figure 10–4 UI Admin wsm-pm Validator

<div> <div>← → ↺</div> <div>10.180.85.196:7001/wsm-pm/validator</div> <div>☆</div> <div>Flash</div> </div>	
	<p>configuration. A SAML token, included in the SOAP message, is used in SAML-based authentication with sender vouches confirmation. These credentials are provided either programmatically or through the security configuration. This policy performs dynamic identity switching by propagating a different identity than the one based on authenticated Subject. This policy can be attached to any SOAP-based client.</p>
oracle/wss_saml20_token_over_ssl_service_policy	1 This policy authenticates users using credentials provided in SAML V2.0 token in the WS-Security SOAP header. The credentials in the SAML V2.0 token are authenticated against a SAML V2.0 login module. The policy verifies that the transport protocol provides SSL message protection. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_username_token_with_message_protection_wssc_client_policy	1 This policy provides message-level protection and authentication for outbound SOAP requests in accordance with the WS-Security 1.1 standard. Messages are protected using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption. The keystore on the client side is configured either on a per-request basis or through the security configuration. Credentials are included in the WS-Security UsernameToken header of outbound SOAP request messages. Only plain text mechanism is supported. Credentials are provided either programmatically through the current Java Authentication and Authorization Service (JAAS) subject or by a reference in the policy to the configured credential store. This policy has secure conversation enabled. This policy can be attached to any SOAP-based client.
oracle/wss11_x509_token_with_message_protection_wssc_client_policy	1 This policy provides message-level protection and certificate-based authentication for outbound SOAP requests in accordance with the WS-Security 1.1 standard. Messages are protected using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption. The keystore on the client side is configured either on a per-request basis or through the security configuration. Credentials are included in the WS-Security binary security token of the SOAP message. These credentials are provided either programmatically or through the security configuration. This policy has secure conversation enabled.
oracle/wss_saml_token_over_ssl_service_policy	1 This policy authenticates users using credentials provided in SAML tokens in the WS-Security SOAP header. The credentials in the SAML token are authenticated against a SAML login module. The policy verifies that the transport protocol provides SSL message protection. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_saml_or_username_token_with_message_protection_service_policy	1 This policy authenticates users using credentials provided in SAML token or Username token or SAML token with confirmation method 'Bearer' in the WS-Security SOAP header or using credentials in the HTTP header against the configured identity store. Messages are protected either over transport layer using HTTPS or message level protection using WS-Security 1.1 standard. Message level protection(integrity, confidentiality) is done using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption. This policy can be attached to any SOAP based endpoint or any HTTP based endpoint

Figure 10–5 UI managed wsm-pm validator

Name	Latest Version	Description
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection assertion

10.2 Host Domain Verification

To verify the Host domain installation:

1. Start the Host domain Admin and Managed servers.
2. Navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEPM libraries and applications is *Active*.
 - Shared Libraries
 - ob.app.client.communications
 - ob.app.client.cz
 - ob.app.client.fw
 - ob.app.client.lcm
 - ob.app.client.party
 - ob.app.client.pm
 - ob.app.client.pricing

- ob.app.client.sh
- ob.app.host.communications
- ob.app.host.cz
- ob.app.host.fw
- ob.app.host.pm
- ob.app.host.sh
- ob.app.host.tp
- ob.app.host.tp.cz
- Ears
 - com.ofss.fc.app.connector
 - com.ofss.fc.app.monitoring
 - com.ofss.fc.messaging.pm
 - com.ofss.fc.middleware.pm
 - com.ofss.fc.webservices.pm

Figure 10–6 Host WebLogic Console
















<input type="checkbox"/>	 ob.app.client.communications(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.cz(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.fw(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.lcm(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.party(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.pm(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.pricing(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.client.sh(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.communications(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.cz(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.fw(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.pm(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.sh(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.tp(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100
<input type="checkbox"/>	 ob.app.host.tp.cz(2.7.0.0.0,2.7.0.0.0)	Active		Library	obepmhost_cluster1	Global		100

Figure 10–7 Host WebLogic Console
















			com.ofss.fc.app.connector	Active	OK	Enterprise Application	obepmhost_cluster1	Global	80
			com.ofss.fc.app.monitoring	Active	OK	Web Application	obepmhost_cluster1	Global	100
			com.ofss.fc.messaging.pm	Active	Warning	Enterprise Application	obepmhost_cluster1	Global	100
			com.ofss.fc.middleware.pm	Active	OK	Enterprise Application	obepmhost_cluster1	Global	100
			com.ofss.fc.webservices.pm	Active	OK	Enterprise Application	obepmhost_cluster1	Global	100

Figure 10–8 Host WebLogic Console - JMS Modules

NewDelete

Showing 1 to 6 of 6PreviousNext

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	jmsAnalyticsModule	JMSSystemResource
<input type="checkbox"/>	jmsAsyncAuditModule	JMSSystemResource
<input type="checkbox"/>	jmsBatchModule	JMSSystemResource
<input type="checkbox"/>	jmsDocumentOutboundModule	JMSSystemResource
<input type="checkbox"/>	jmsRuleModule	JMSSystemResource
<input type="checkbox"/>	jmsWorkflowModule	JMSSystemResource

NewDelete

Showing 1 to 6 of 6PreviousNext

Figure 10–9 Host WebLogic Console - jmsAnalyticsModule

NewDelete

Showing 1 to 3 of 3PreviousNext

<input type="checkbox"/>	Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	AnalyticsCF	Connection Factory	jms/AnalyticsCF	Default Targeting	obepmhost_cluster1
<input type="checkbox"/>	AnalyticsErrorQueue	Uniform Distributed Queue	jms/AnalyticsErrorQueue	Default Targeting	obepmhost_cluster1
<input type="checkbox"/>	AnalyticsQueue	Uniform Distributed Queue	jms/AnalyticsQueue	Default Targeting	obepmhost_cluster1

NewDelete

Showing 1 to 3 of 3PreviousNext

Figure 10–10 Host WebLogic Console - jmsAsyncAuditModule

New Delete		Showing 1 to 2 of 2 Previous | Next		
<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> AsyncAuditQ	Uniform Distributed Queue	jms/AsyncAuditQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> AsyncAuditQCF	Connection Factory	jms/AsyncAuditQCF	Default Targeting	obepmhost_cluster1
New Delete		Showing 1 to 2 of 2 Previous | Next		

Figure 10–11 Host WebLogic Console - jmsBatchModule

New Delete		Showing 1 to 8 of 8 Previous | Next		
<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> FCBBatchFrameQ	Uniform Distributed Queue	jms/FCBBatchFrameQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchQM	Connection Factory	jms/FCBBatchQM	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchRequestQ	Uniform Distributed Queue	jms/FCBBatchRequestQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchResponseQ	Uniform Distributed Queue	jms/FCBBatchResponseQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchShellQ	Uniform Distributed Queue	jms/FCBBatchShellQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchProcessorQ	Uniform Distributed Queue	jms/FCBBatchProcessorQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchProcessorQCF	Connection Factory	jms/FCBBatchProcessorQCF	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBBatchRequestQ	Uniform Distributed Queue	jms/FCBBatchRequestQ	Default Targeting	obepmhost_cluster1
New Delete		Showing 1 to 8 of 8 Previous | Next		

Figure 10–12 Host WebLogic Console - jmsDocumentOutboundModule

New Delete		Showing 1 to 2 of 2 Previous | Next		
<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> DocumentOutboundCF	Connection Factory	jms/OutboundDocumentCF	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> DocumentOutboundQueue	Uniform Distributed Queue	jms/OutboundDocumentQueue	Default Targeting	obepmhost_cluster1
New Delete		Showing 1 to 2 of 2 Previous | Next		

Figure 10–13 Host WebLogic Console - jmsRuleModule

New Delete		Showing 1 to 2 of 2 Previous | Next		
<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> FCBRuleQ	Uniform Distributed Queue	jms/FCBRuleQ	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> FCBRuleQCF	Connection Factory	jms/FCBRuleQCF	Default Targeting	obepmhost_cluster1
New Delete		Showing 1 to 2 of 2 Previous | Next		

Figure 10–14 Host WebLogic Console - jmsWorkflowModule

New Delete		Showing 1 to 3 of 3 Previous | Next		
<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> WorkflowCF	Connection Factory	jms/WorkflowCF	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> WorkflowErrorQueue	Uniform Distributed Queue	jms/WorkflowErrorQueue	Default Targeting	obepmhost_cluster1
<input type="checkbox"/> WorkflowQueue	Uniform Distributed Queue	jms/WorkflowQueue	Default Targeting	obepmhost_cluster1
New Delete		Showing 1 to 3 of 3 Previous | Next		

- In (<HOST_IP>:<HOST_ADMIN_PORT>/wsm-pm/validator) and (<HOST_IP>:<HOST_MANAGED_PORT>/wsm-pm/validator) screens, all policies must appear.

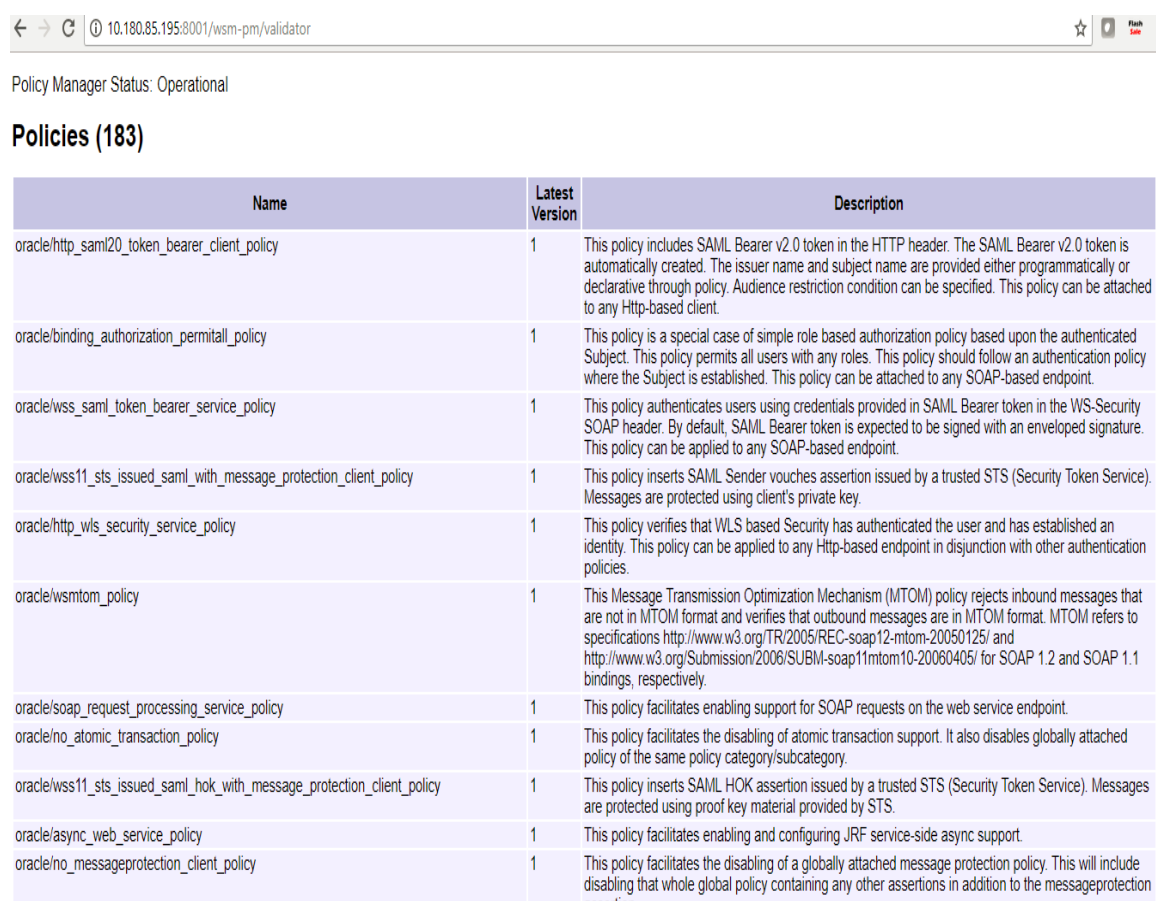
Figure 10–15 HOST admin wsm-pm validator

← → 10.180.85.195:7001/wsm-pm/validator ☆ Refresh

Policy Manager Status: Operational

Policies (183)

Name	Latest Version	Description
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection

Figure 10–16 HOST managed wsm-pm validator


The screenshot shows a web browser window with the address bar displaying '10.180.85.195:8001/wsm-pm/validator'. Below the address bar, it says 'Policy Manager Status: Operational'. The main heading is 'Policies (183)'. A table lists various policies with their names, latest versions, and descriptions.

Name	Latest Version	Description
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection assertion.

Additionally, the installer can verify the following:

■ JMS Resources and Security Credentials

- Verify the creation of JMS resources Using admin console.
- Verify security credential mappings for resource adapter under obphost.

■ OID Integration

- Verify that the users and groups are created under **Security --> Myrealms --> Users And Groups**. This is one of the indicators of successful OID integration.

■ SMS Policy Seeding

- Verify from logs under \${HOST_FWM}/obpoidinstall/PolicyStoreSetup/logs to ensure policy seeding was complete.
- EM and OWSM should also be verified in host as in UI.

10.3 SOA Domain Verification

To verify the SOA domain installation:

1. Start the SOA domain Admin and Managed servers (SOA and human task).
2. Navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEPM libraries and human task files with .ear extension is *Active*.
 - Shared Libraries
 - ob.app.client.communications
 - ob.app.client.cz
 - ob.app.client.fw
 - ob.app.client.pm
 - ob.app.client.sh
 - ob.ui.communications
 - ob.ui.cz
 - ob.ui.fusion
 - ob.ui.pm
 - ob.ui.sh
 - ob.ui.tp
 - ob.ui.tp.cz
 - Ears
 - com.ofss.fc.app.ui.connector
4. Also verify that the standard SOA application soa-infra is in *Active* state.

Figure 10–17 SOA WebLogic Console
















 ob.app.client.communications(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.app.client.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.app.client.fw(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.app.client.pm(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.app.client.sh(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.communications(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.fusion(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.pm(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.sh(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.tp(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100
 ob.ui.tp.cz(2.7.0.0.0,2.7.0.0.0)	Active	Library	obphumantask_cluster1	Global	100

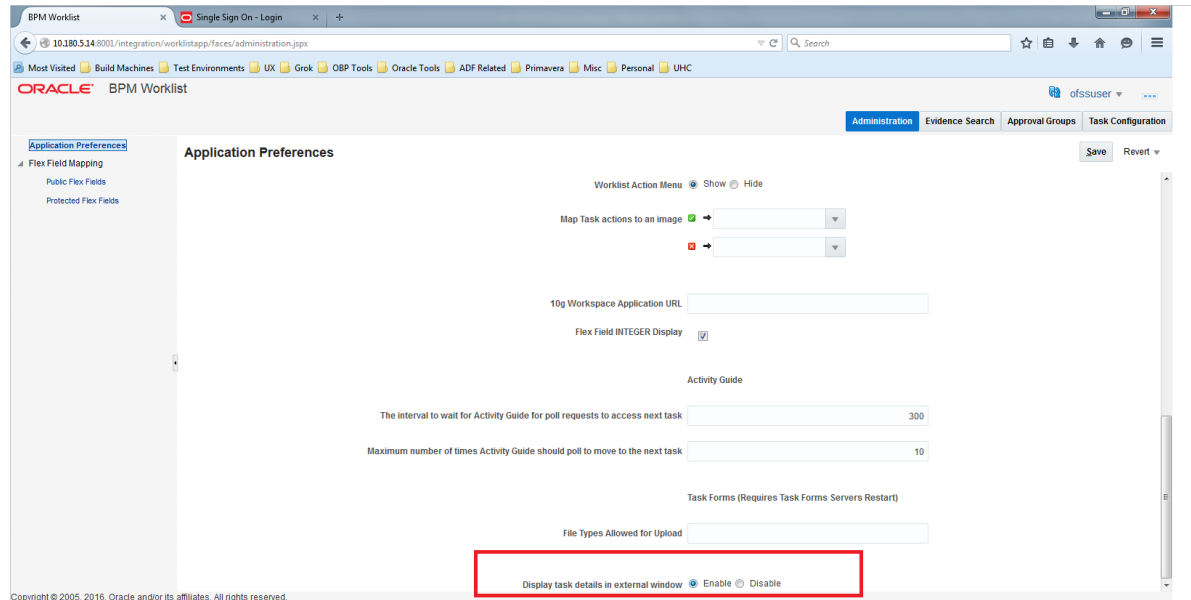
Figure 10–18 SOA WebLogic Console

 com.ofss.fc.app.ui.connector	Active	✔ OK	Enterprise Application	obphumantask_cluster1	Global	80
 com.ofss.fc.workflow.ui.brop	Active	✔ OK	Enterprise Application	obphumantask_cluster1	Global	100
 com.ofss.fc.workflow.ui.common.approval	Active	✔ OK	Enterprise Application	obphumantask_cluster1	Global	100

10.4 BPM Worklist Window Setting

For BPM Worklist window setting, the option **Display task details in external window** must be set to enable mode. This option is present in administration mode of BPM Worklist as shown in Figure 10–19.

Figure 10–19 BPM Worklist Window Settings



11 Errors and Remedies

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Enterprise Product Manufacturing.

11.1 OBEPM Domain Installation

In general, any environmental condition such as a network error that may lead to a halt in the installation is evident to you on the console itself. You can additionally inspect WLST logs created in logs directory under middleware for any anomalies.

While creating OBEPM SOA domain, ignore the following error:

Error: No domain or domain template has been read.

Error: No domain or domain template has been read.

Figure 11–1 OBEPM SOA Domain Error

```
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands

Domain creation started...
Error: No domain or domain template has been read.
Error: No domain or domain template has been read.
Read domain /scratch/app/product/fmw/user_projects/domains/base_domain to applyJRF
Target JRF components to "obpsoa_cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/base_domain/config/fmwconfig/servers/soa_serv
er1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/base_domain in offline mode
Target JRF components to "obphumantask_cluster1"
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/base_domain/config/fmwconfig/servers/obphuman
task_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/base_domain in offline mode
Domain created successfully
SNA Patch Configuration starting now
```

The domain is created successfully. Also note that for recreation of SOA, Host, and UI domain, a new set of RCUs is required, otherwise the pre-installation of respective component fails.

11.2 OBEPM Security Policy Seeding

For monitoring OBEPM application security policy seeding, you can check the logs generated in \$HOST_FMW/obpoidinstall/PolicyStoreSetup/logs.

11.3 OBEPM Domain Post Installation

This section lists various log files that assist in troubleshooting domain post installation as follows:

obp-* logs

During post installation in order to monitor errors, if any, you can check the obp-* logs created in the OBEPM WebLogic domain. These logs contain adequate tracing information required to understand the current execution point of the script. This facilitates to determine the various configurations that were executed and those that need due action.

WebLogic Admin Server Logs and stderr file

The script does domain level configurations that require several automated reboots of admin server, which can be monitored by checking the WebLogic admin server logs and stderr file created under obp-domain-dir/servers/AdminServer/stderr.log.

For instance, consider a scenario of OBEPM Host installation in which once the post install script for OBEPM host has secured itself against a LDAP (OID/OVD) it proceeds to restart the OBEPM Host domain admin server to produce these changes. During this if due to a momentary network failure the host machine is unable to make a connection to LDAP then the admin server would fail to start. This will result in the post install script to abruptly abort throwing a subsequent script error (again which might not be conclusive enough to point out the root cause). The 'obp-*' logs created in the OBEPM Host domain would indicate an incomplete attempt by post install script to start the admin server.

You can check the admin server logs (to find why the admin server could not start) which will ultimately yield out the actual reasons (in this case the reason being host machine was unable to connect to LDAP).

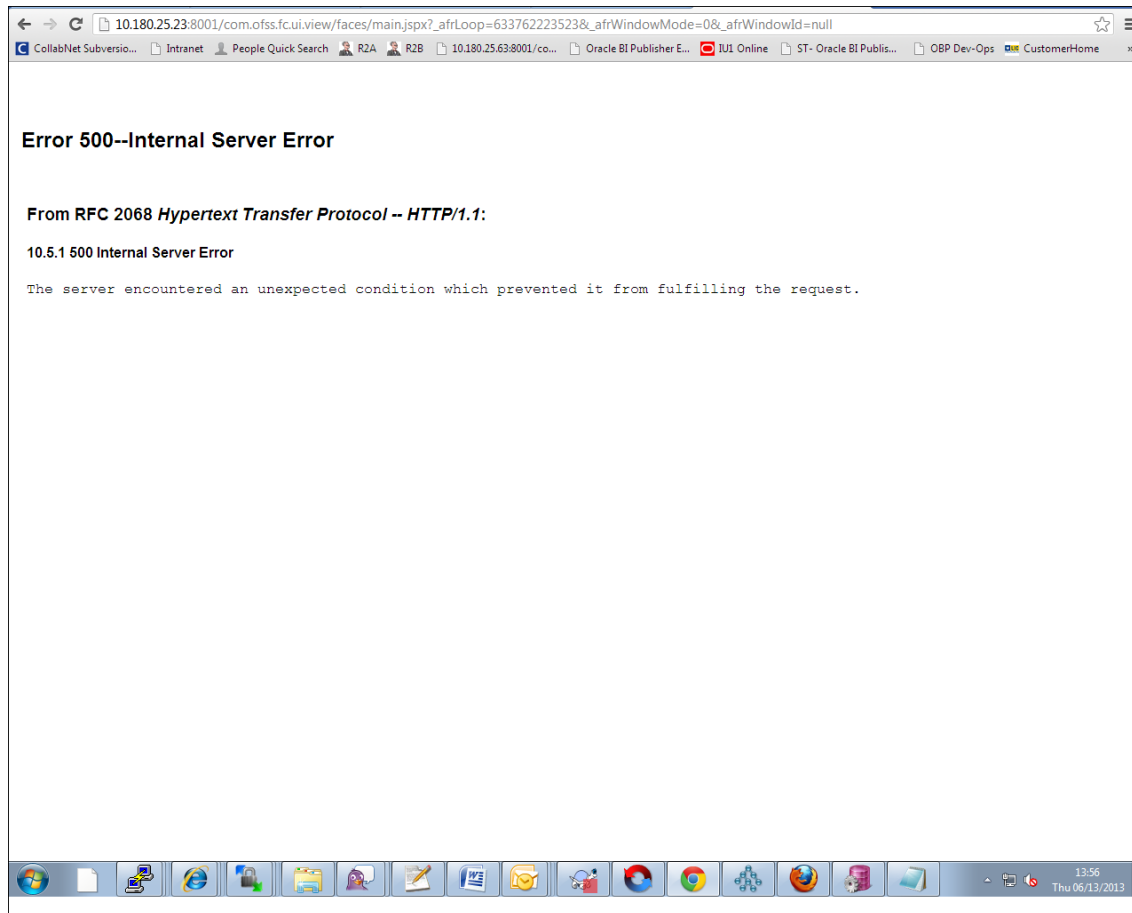
stderr log, WebLogic Domain Managed Server logs, OFSS logs

Once the post install script is completed successfully, you can start the domain servers and enter a dummy transaction to check the system correctness. If you face an error you can inspect the stderr log, the WebLogic domain managed server logs as well as the ofss logs under domain directory.

When you start the managed servers post installation, there may occur a lot of error printing in startup logs that you can ignore. However, ensure that the status of the applications deployed on the components is active and the server is in running mode. Even if there are errors during startup of the managed server, you can login to the application successfully.

11.4 Error on First Log in

In the first log in after installation, the following page may appear or blank page may appear:

Figure 11–2 Error on First Log In

In this case, remove the part of the url after '/main.jspx', and then hit the rest of the url (Example: <http://10.180.25.23:8001/com.ofss.fc.ui.view/faces/main.jspx>) again.

11.5 Log in Issues

If there is a problem during logging in the main page, you can check whether the home branch and business unit of the user in OID are the same with the Host DB table. Use the following query to verify it in database:

```
select * from flx_cs_branches_b;
select * from flx_me_business_unit_b;
```

If there is mismatch between the database and OID, make change in OID to match with the database.

11.6 SOA Setup in Cluster

This section explains the error that can be encountered in SOA setup in Cluster, and its resolution.

11.6.1 "COMPONENTTYPE": invalid identifier error

Due to one of the one-off patches for SOA applied during the OBEPM installation, in SOA cluster environment, the following error might be seen in SOA server logs.

```
Internal Exception: java.sql.SQLException: ORA-00904:
```

```
"COMPONENTTYPE": invalid identifier
```

Though this is not a fatal kind of exception, it can be resolved by adding one more column **componenttype** of size **10** with **char** type in **soainfra** schema for table **cluster_master**.

For example on Oracle database user needs to run the following command on soainfra schema:

```
alter table cluster_master add (componenttype varchar2(10));
```

11.7 BPM Worklist Task Issue

If the BPM Task [Humantask] is not working after installation and you get a backend error indicating access denied, then:

1. Add the following parameters in setStartupEnv.sh for obphumantask_server1.

```
-  
Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.xerces.internal.jaxp.DocumentB  
uilderFactoryImp  
  
|-  
Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.trax.Transformer  
FactoryImpl
```

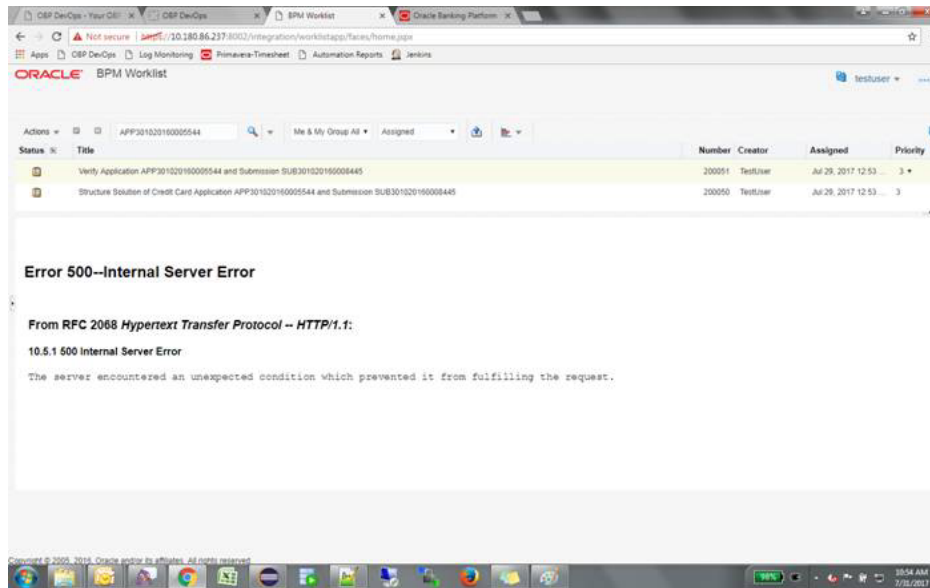
```
-  
Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactory  
Impl
```

And jps-config.xml

```
<property name="trust.keystoreType" value="KSS"/>  
<property name="trust.keyStoreName" value="kss://opss/trustservice_ks"/>  
<property name="trust.trustStoreName" value="kss://opss/trustservice_ts"/>
```

2. Restart it.

Figure 11–3 BPM Worklist Task issue



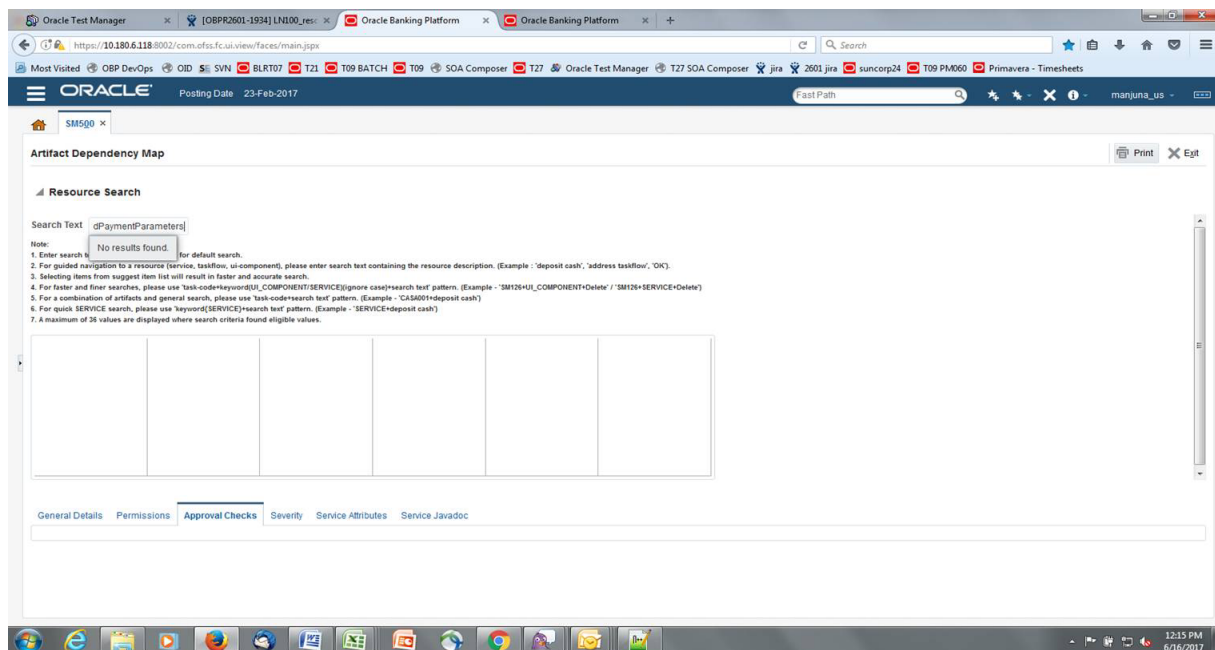
11.8 Artifacts Issue for SM500 page

If artifacts are not available for SM500, execute the load-artifacts.sh script present at the host installable path.

For example,

```
sh /scratch/install/ load-artifacts.sh
```

Figure 11–4 Artifacts Issue for SM500 page



11.9 ra/FCRJConnectorSOA connector issue

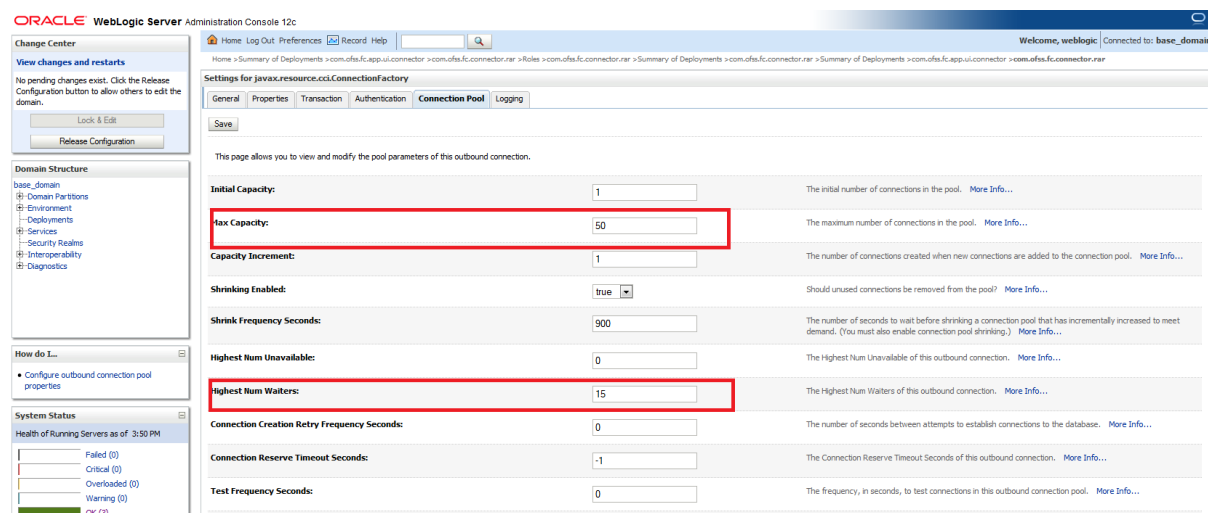
If below mentioned error is faced on Humantask server, configuration shown in the below figure has to be done to resolve issue.

Caused By: javax.resource.spi.ApplicationServerInternalException: Unable to get a connection for pool = "ra/FCRJConnectorSOA", weblogic.common.resourcepool.ResourceUnavailableException: No resources currently available in pool ra/FCRJConnectorSOA to allocate to applications. Either specify a time period to wait for resources to become available, or increase the size of the pool and retry.

at weblogic.connector.outbound.ConnectionManagerImpl.getConnectionInfo
(ConnectionManagerImpl.java:458)

Set the Max Capacity size to 50 and Highest Num Waiters to 15 as shown in the below figure and redeploy the connector on Humantask server.

Figure 11–5 Settings for javax.resource.cci.ConnectionFactory page



11.10 Humantask Startup Issue

If Humantask server is not coming up in running mode after installation and if you face below mentioned error, <Nov 21, 2017, 7:40:52,638 PM GMT+05:30> <Error> <Socket> <BEA-000403> <IOException occurred on socket: Socket[addr=/10.180.35.5,port=57761,localport=7001]

weblogic.socket.MaxMessageSizeExceededException: Incoming message of size: '10000080' bytes exceeds the configured maximum of: '10000000' bytes for protocol: 't3'.

weblogic.socket.MaxMessageSizeExceededException: Incoming message of size: '10000080' bytes exceeds the configured maximum of: '10000000' bytes for protocol: 't3'

at weblogic.socket.BaseAbstractMuxableSocket.incrementBufferOffset
(BaseAbstractMuxableSocket.java:212)

at weblogic.socket.BaseAbstractMuxableSocket.incrementBufferOffset
(BaseAbstractMuxableSocket.java:188)

at weblogic.rjvm.t3.MuxableSocketT3.incrementBufferOffset(MuxableSocketT3.java:675)

at weblogic.socket.SocketMuxer.readFromSocket(SocketMuxer.java:1004)

at weblogic.socket.NIOSocketMuxer.readFromSocket(NIOSocketMuxer.java:771)

Truncated. see log file for complete stacktrace

>

Update the setDomainEnv.sh configuration file by setting MaxMessageSize for server as,

```
EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES} -
Dweblogic.MaxMessageSize=50000000"
export EXTRA_JAVA_PROPERTIES
```

11.11 Collection Mocking

By default collection is enabled in enterprise application. For mocking collection, perform the following steps:

1. Execute the following SQL queries in application database:

```
update flx_fw_config_all_b set prop_value='false' where prop_
id='collection.bootstrap' and category_id='root';

update flx_fw_config_all_b set prop_value='false' where prop_
id='collection.webservice.bootstrap' and category_id='root';
```

2. Update the setDomainEnv.sh configuration file on HOST server with the following parameters:

```
EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES} -
DAdapterFactories:INS_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:PARTY_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:LN_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:LCM_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:ACCOUNT_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:DDA_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:AC_COLLECTION_ADAPTER MOCKED=true -
DAdapterFactories:CS_COLLECTION_ADAPTER MOCKED=true"
export EXTRA_JAVA_PROPERTIES
```

3. Restart the HOST managed server.

12 Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Enterprise Product Manufacturing.

12.1 Manual Uninstall

Currently an installed Oracle Banking Enterprise Product Manufacturing WebLogic domain can be uninstalled manually by removing following directories:

- Manually delete WebLogic domain (Middleware_Home/user_projects/domains) created from obpinstall template.
- Clean up middleware directory for any files or folders containing obp in their names (simply run `rm -rf *obp*` under middleware directory).
- For uninstalling any of the Oracle Banking Enterprise Product Manufacturing related database schemas run the RCU utility and choose the **Drop** option.