

**Oracle® Banking Loans Servicing**  
Localization Installation Guide - Silent Installation  
Release 2.12.0.0.0  
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Oracle Banking Loans Servicing Localization Installation Guide - Silent Installation, Release 2.12.0.0.0

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# Preface

The Oracle Banking Loans Servicing Localization Installation Guide - Silent Installation contains information on silent installation and configuration of Oracle Banking Loans Servicing 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 Loans Servicing US or AU localization 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/pls/topic/lookup?ctx=acc&id=docacc>.

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## Organization of the Guide

This document contains:

### Chapter 1 Getting Started

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

### Chapter 2 Pre-Installation Configurations

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

### Chapter 3 OBLS Localization SOA Media Pack Installation

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



## **Chapter 4 OBLS Localization Host Media Pack Installation**

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Loans Servicing Host Media Pack.

## **Chapter 5 OBLS Localization Presentation Media Pack Installation**

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

## **Chapter 6 Standalone Database Setup**

This chapter explains the steps involved in Oracle Banking Loans Servicing database.

## **Chapter 7 OBLS and IPM Integration**

This chapter explains the steps involved in the integration of Oracle Banking Loans Servicing and Oracle Imaging and Process Management (IPM).

## **Chapter 8 OAS (BIP) Datasource Creation**

This chapter explains the steps required for Oracle Analytics Server (OAS) (formerly known as BIP or Business Intelligence Publisher) datasource creation.

## **Chapter 9 ODI Configuration**

This chapter explains the steps involved in the configuration of ODI using OBLS Host Media Pack.

## **Chapter 10 Monitoring Servers Using Oracle Enterprise Manager**

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

## **Chapter 11 Post Installation Verification**

This chapter explains the steps required to verify the installation of Oracle Banking Loans Servicing.

## **Chapter 12 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 Loans Servicing.

## **Chapter 13 Uninstalling the Application**

This chapter explains the process of uninstalling the Oracle Banking Loans Servicing.

## **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 Loans Servicing and Oracle Documaker, see the installation and configuration guides at [https://docs.oracle.com/cd/F30719\\_01/index.html](https://docs.oracle.com/cd/F30719_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 Loans Servicing Security Guide.
- For the complete list of licensed products and the third-party licenses included with the license, see the Oracle Banking Loans Servicing Licensing Guide.
- For information related to setting up a bank or a branch, and other operational and administrative functions, see the Oracle Banking Loans Servicing Administrator Guide.

- For information related to customization and extension, see the Oracle Banking Loans Servicing Extensibility Guides for SOA, HOST, and UI.
- For information on the functionality and features, see the respective Oracle Banking Loans Servicing Functional Overview document.
- For recommendations of secure usage of extensible components, see the Oracle Banking Loans Servicing Secure Development Guide.

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	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
ADF	Application Development Framework
BPEL	Business Process Execution Language
DB or db	Oracle Database
FEPI	Front End Processing Interface
HOST	Middleware Host Tier
IAM	Identity and Access Management
IPM	Imaging and Process Management
LDAP	Lightweight Directory Access Protocol
OAS	Oracle Analytics Server
OAAM	Oracle Adaptive Access Manager
OBLS	Oracle Banking Loan Servicing
ODI	Oracle Data Integrator
OEL	Oracle Enterprise Linux
OEM	Oracle Enterprise Manager
OID	Oracle Internet Directory

<b>Acronym</b>	<b>Meaning</b>
OIM	Oracle Identity Manager
OLTP	Online Transaction Processing
OPSS	Oracle Platform Security Services
OS	Operating System
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
VM	Virtual Machine
WLS	WebLogic Server



# 1 Getting Started

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

## 1.1 About Oracle Banking Loans Servicing

Oracle Banking Loans Servicing solution enables bank to efficiently service the entire life cycle of a loan account. Servicing life cycle covers account opening, payment appropriation, accounting, loan classification as non performing when borrower does not repay the loan as per contract, various account variations such as offer swap, restructure of loan, rate changes, extensions, and account closure, either through customer request for early closure or repayment by the customer as per contract. Oracle Banking Loans Servicing provides various inquiries which enable the bank to satisfy customer inquiries. Oracle Banking Loans Servicing can service loan account opened either through Oracle Banking Originations or any other loan origination system. Oracle Banking Loans Servicing has a single dashboard from which all loan servicing transactions can be executed and all inquires can be performed.

## 1.2 About This Document

This document guides you through the installation of the core banking application Oracle Banking Loans Servicing along with US and AU localization. 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 Loans Servicing 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](mailto: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 Oracle Banking Loans Servicing US or AU localization 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 OBLs 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 OBLs US or AU localization 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 Configurations

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

### 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 Loans Servicing 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 Loans Servicing 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 7.5 64 bit	Oracle Banking Loans Servicing Oracle Database
2	4	32	200	OEL 7.5 64 bit	Oracle Banking Loans Servicing ADF UI Presentation Server
3	4	32	200	OEL 7.5 64 bit	Oracle Banking Loans Servicing 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	2	16	200	As per OAS certification matrix.	Oracle Analytics Server
7	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 Loans Servicing 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	OBLS UI Presentation	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
2	SOA	Banking App	Oracle SOA Suite 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
3	OBLS HOST	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Oracle Database 19c Enterprise Edition Release 19.8 Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
4	OID	Security	Oracle Internet Directory 12.2.1.4.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
5	OAS	Document	Oracle Business Intelligence 12c (12.2.1.4.0) Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
6	IPM	Document	Oracle WebCenter - Content 12.2.1.4.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
7	OSB	Integration	Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Oracle Service Bus 12c (12.2.1.4.0). Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
8	ODI	Integration	Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Oracle Data Integrator 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
9	OIM	Security	Oracle Identity Manager 12.2.1.4.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit
10	OAM	Security	Oracle Access Manager 12.2.1.4.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281) Oracle Linux 7.5 64-bit



Sr. No.	Components	Zone	Software
11	OEM	Management	Oracle Enterprise Manager 13.2.0.0.0 As per certification matrix of Oracle Enterprise Manager 13.2.0.0.0
12	EM Agent Installation	Management	Push from OEM Console
13	OBLs Database	Database	Oracle Database 19c Enterprise Edition Release 19.8 Oracle Linux 7.5 64-bit
14	HTTP Server	Web Server	Oracle HTTP Server 12.2.1.4.0.
15	BAM	Banking App	Oracle SOA Suite and Business Process Management 12c (12.2.1.4.0) Java Version jdk1.8.0_xx (jdk1.8.0_281)

The following are some notes related to the software.

**Table 2–3 Notes**

Serial Number	Description
1	OBLs release has been certified with OEL version 7.5 64 bit during the release cycle. It is strongly recommended to use the versions on which the release is certified.
2	Oracle Business Intelligence Publisher is required at the time of OBLs installation. It is required to use the actual BIP property values during the installation. This is required as the installer uploads the OBLs reports as onto the BIP server as part of the middleware host installation process.
3	<p>ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD</p> <p>The OBLs 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>
4	<p>The OBLs 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>
5	<p>OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD</p> <p>The OBLs 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</p>

Serial Number	Description
	com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.
6	Oracle Access Manager can be installed later.
7	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.
8	It is mandatory for machine nodes on which OBLs 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.
9	<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 following link:</p> <p><a href="http://www.oracle.com/technetwork/java/javase/downloads/jce-all-download-5170447.html">http://www.oracle.com/technetwork/java/javase/downloads/jce-all-download-5170447.html</a></p> <p>Copy "local_policy.jar" and "US_export_policy.jar" from this zip file in the path mentioned below:</p> <p>JAVA_HOME/jre/lib/security/</p>
10	<p>It is mandatory that the team installing OBLs reads and understands the system requirements and specifications for the fusion middleware specified in the following link:</p> <p><a href="https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/sysrs/system-requirements-and-specifications.html#GUID-B648EA24-ABB4-42CA-B8F2-4B535D5EC8DB">https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/sysrs/system-requirements-and-specifications.html#GUID-B648EA24-ABB4-42CA-B8F2-4B535D5EC8DB</a></p> <p>The url details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.4.0) products.</p> <p>Changes necessary at a system level for the fusion middleware should be made prior to executing OBLs 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><a href="https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/sysrs/system-requirements-and-specifications.html#GUID-F800C79F-A8CA-4A80-A4E9-97BC8E264889">https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/sysrs/system-requirements-and-specifications.html#GUID-F800C79F-A8CA-4A80-A4E9-97BC8E264889</a></p>
11	SOA managed servers may need the default value raised at operating system level to run, as it needs to load a large number of OBLs application binaries.
12	It is mandatory for SOA Suite to be installed in machine nodes on which OBLs BAM Installation is planned.
13	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.
14	<p>Oracle SOA Suite 12.2.1.4.0 patches - p30995852_122140_Generic.zip, p31199221_12214200304_Generic.zip, p30970477_122140_Generic.zip, p30729380_122140_Generic.zip have to be applied on SOA machine only. This can be downloaded from the following link:</p> <p><a href="https://support.us.oracle.com/">https://support.us.oracle.com/</a></p>

### 2.1.2.2 Optional

The following software is optional:

- Oracle VM server release 2.2.0

### 2.1.2.3 Patching

OPatch is a patching utility in OBLIS Installer. The following is required to run OPatch.

The Python packages need to be installed in the same order as mentioned below. They have to be installed as root user in UI, Host, and SOA Machines.

- Suds-0.4 (to create webservice client)
- docutils-0.12 (prerequisite for SOAPpy)
- wstools-0.4.3 (prerequisite for SOAPpy)
- SOAPpy0.12.5 (to make SOAP webservice call)
- PyYAML-3.11 (to read yaml file)
- Jypye1-0.5.7 (to call java code from Python)

The above mentioned packages are available in the form of .tar.gz files in the media pack.

The installation steps are as follows:

1. Extract each file so that the above Python packages get installed in the same order.
2. Run setup.py file inside extracted folder. (command:python install).

```
tar -xvzf suds-0.4.tar.gz
tar -xvzf docutils-0.12.tar.gz
tar -xvzf wstools-0.4.3.tar.gz
tar -xvzf SOAPpy-0.12.5.tar.gz
tar -xvzf PyYAML-3.11.tar.gz
tar -xvzf JPype1-0.5.7.tar.gz
chmod -R 777 *
cd suds-0.4
python setup.py install
cd ../docutils-0.12
python setup.py install
cd ../wstools-0.4.3
python setup.py install
cd ../SOAPpy-0.12.5
python setup.py install
cd ../PyYAML-3.11
python setup.py install
cd ../JPype1-0.5.7
python setup.py install
```

Please note that the above step is only required to run OPatch (a patching utility available with OBP Installer).

## 2.2 Configure Variables

Perform the following steps to configure the variables:

1. Modify the TargetDefinition.yaml located at the location <installDir>/patching/config.
2. The IP and port of the target should be of Admin Server and the destination location is the path where the zip will be extracted which is the patch Stage Path.
3. Modify the PatchConfig.yaml located at the location <installDir>/patching/config.
4. The Session context details such as Bank Code, Channel, TargetUnit, Transaction Branch, UserId has to be entered.

The wsdl details will be as follows:

```
${Protocol}://${hostadmin_ip}:${hostadmin_port}/${path_to_
TransactionBlackoutApplicationServiceSpi}?wsdl
```

For example, url:

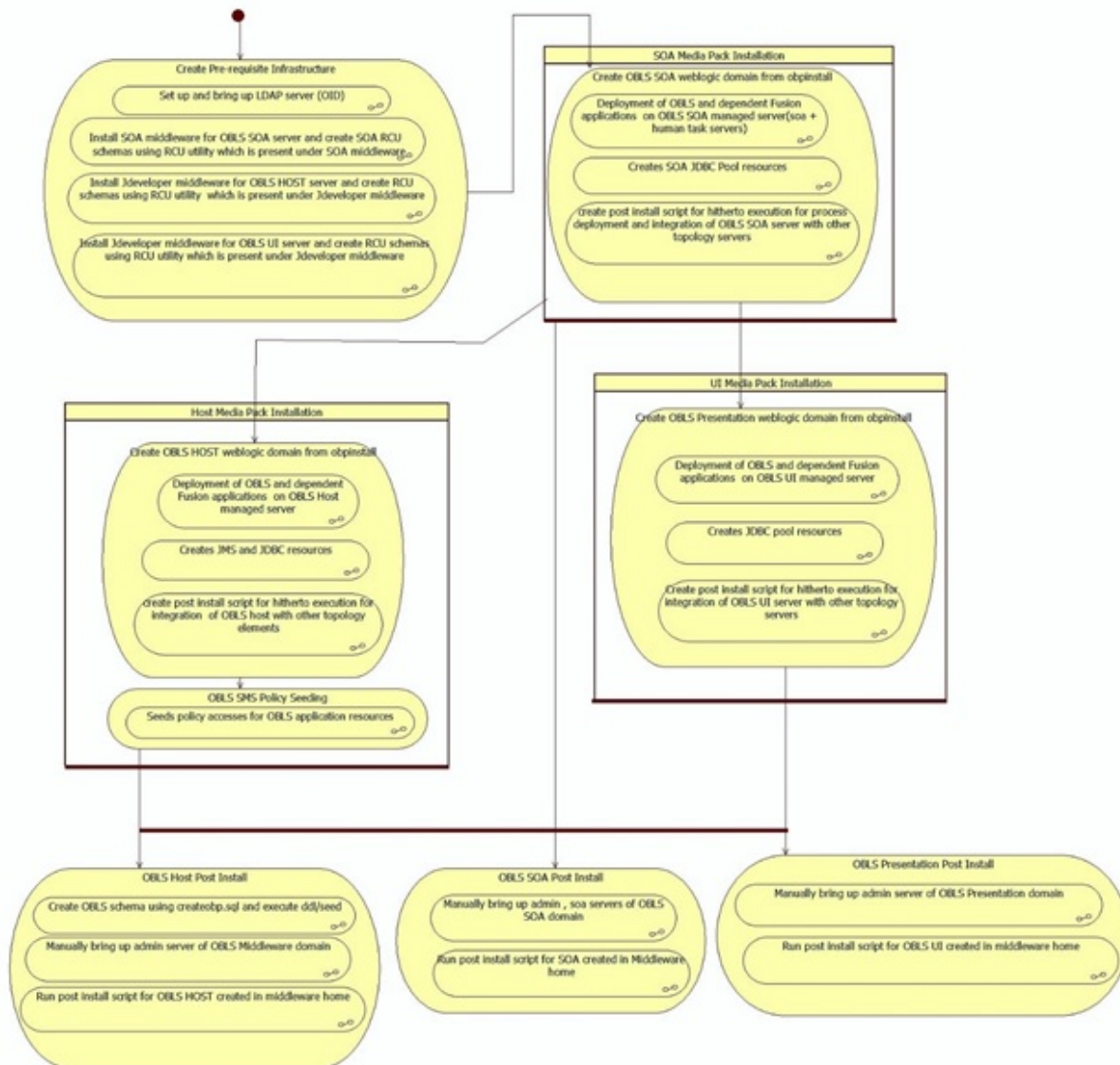
```
http://<Ip>:<Port>/com.ofss.fc.webservice/services/sms/TransactionBlackoutApplicationServiceSpi
?wsdl
```

5. Modify the PatchConstants.py located at the location <installDir>patching/constants.
  - a. The PATCH\_HOME should point to the Patching Utility.
  - b. The Deployables Path should point to obp.
  - c. The FMW\_HOME should point to the path till fmw.
  - d. The WLST\_SCRIPT\_LOCATION should point to the wlst.sh (weblogic scripting tool).
  - e. The JVM\_PATH should point to the libjvm.so.
  - f. The PATCH\_TEMP\_LOCATION should be the path where the zips are to be stored.
  - g. The FCServerWithPort is '\${protocol}://\${hostmanagedserver\_ip}:\${hostManagedServer\_port}'.
  - h. The SOAServerWithPort is '\${protocol}://\${uimangedserver\_ip}:\${ uiManagedServer\_port}'.
  - i. The CENTRAL\_PATCH\_STAGE\_PATH should point to the central patch Staging path.
6. Create folder patchStage and centralPatchStage in location <installDir>/.

## 2.3 Installation Process Overview

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

Figure 2–1 Installation Overview



## 2.4 Installation Checklist

It is mandatory that the team installing OBLs US or AU Localization reads and understands the system requirements and specifications for the fusion middleware specified in the following link:

<https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/sysrs/system-requirements-and-specifications.html#GUID-B648EA24-ABB4-42CA-B8F2-4B535D5EC8DB>

The link details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.4.0) products.

Changes necessary at a system level for the fusion middleware should be made prior to executing OBLs US or AU Localization 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](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.

## 2.4.1 XD Components

The following table provides a list of XD components.

**Table 2–4 XD Components**

Sr. No.	Name	Value	Description
1	XD_COMPONENT_NAME	batchhost	Value for batch host sever, Policy seeding and BIP reports upload will be done with this batch host server installation
2	XD_COMPONENT_NAME	obepmhost	Value for obepm server (Product Manufacturing)
3	XD_COMPONENT_NAME	oblshost	Value for obls server (Lending)
4	XD_COMPONENT_NAME	obpmhost	Value for obpm server (Party)
5	XD_COMPONENT_NAME	obepmhost	Value for obpr server (Pricing)
6	XD_COMPONENT_NAME	obccmhost	Value for obccm server (LCM)
7	XD_COMPONENT_NAME	obshost	Value for obshared server
8	XD_COMPONENT_NAME	obpui	Value for obls UI server
9	XD_COMPONENT_NAME	obpsoa	Value for obls SOA

## 2.4.2 Updating installobp\*\*\*.properties

The following checklist provides values for updating installobp\*\*\*.properties.

**Table 2–5 Values for updating installobp\*\*\*.properties - For HOST**

Sr.No	Name	Description	Example Value	Value
<b>Host Properties</b>				
1	SILENT_INSTALL	Flag for installing silent or interactive	Y	

Sr.No	Name	Description	Example Value	Value
		mode		
2	OID_FARM_AND_POLICY_SEEDING_FLAG	Flag for policy seeding	Y	
3	IPM_INSTALLED	Flag to make sure IPM is installed	Y	
4	BIP_INSTALLED	Flag to make sure BIP is installed	y	
5	BIP_REPORTS_UPLOADING_FLAG	Flag for BIP reports uploading	Y	This value must be 'Y' for batch host installation and for other XD host installation value must be 'N'
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 could be a windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.	10.180.84.110	
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	Can give any logical name
11	XD_COMPONENT_NAME	XD Component value	batchhost	This will be always batchhost

Sr.No	Name	Description	Example Value	Value
12	LOCALIZATION_TYPE	Type of localization	US	Depends on localization type
13	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
14	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	
15	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
16	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.110 (Do not use localhost)	
17	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
18	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen port	7002	
19	MANAGED_SERVER_LISTEN_ADDRESS	Managed server listen address	10.180.84.110	
20	MANAGED_SERVER_LISTEN_PORT	Managed server listen port	8001	
21	MANAGED_SERVER_SSL_LISTEN_PORT	SSL listen port for managed server	8002	
22	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
23	OID_IP	I/P address of the OID server.	10.180.84.113	
24	OID_PORT	Port of the OID process instance.	3060	
25	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrator.	cn= orcladmin	
26	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	



Sr.No	Name	Description	Example Value	Value
27	OID_GROUP_DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
28	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	ou=obp,cn=Users,dc=in,dc=oracle,dc=com	
29	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	
30	HOST_CLUSTER_NAME	Refers to HOST cluster name	obphost_cluster1	Can give any logical name
31	HOST_SERVER_NAME	Refers to HOST server name	obphost_server1	Can give any logical name
32	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_231	
33	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_231	
34	CENTRAL_INVENTORY_LOC	Refers to the path of central	/scratch/app/orainventory	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
		inventory. This path is used for oui patching.		
35	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)	
36	HOST_TARGET	Refers to a location on the Host server where the installable can be transferred. The user id used for installation of OBP should have read, write and execute privileges on this directory.	/scratch/install/target	
37	HOST_MW_HOME	Refers to the middleware home of the weblogic installation on the Host server.	/scratch/app/product/fmw	
38	UI_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of UI Admin server	10.180.84.111	
39	UI_ADMIN_SERVER_LISTEN_PORT	Listen port of UI Admin server	7001	
40	UI_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of UI managed server	10.180.84.111	
41	UI_MANAGED_SERVER_LISTEN_PORT	Listen port of UI managed server	8001	
42	UI_MANAGED_SERVER_SSL_LISTEN_PORT	Listen ssl port of UI managed server	8002	
43	UI_IP	I/P address of the server on which the OBP presentation or UI layer should be installed.	10.180.84.111	
44	SOA_ORACLE_HOME	Name of Oracle SOA which is present in fusion	soa	

Sr.No	Name	Description	Example Value	Value
		middleware.		
45	SOA_IP	i/p address of SOA machine	10.180.84.112	
46	SOA_UNIX_USER	Unix username of SOA machine	ofssobp	
47	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
48	SOA_DOMAIN_NAME	Refers to the middleware home of the weblogic installation on the SOA server.	base_domain	
49	SOA_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
50	SOA_ADMIN_SERVER_LISTEN_PORT	Listen port of SOA Admin server	7001	
51	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
52	SOA_WEBLOGIC_USERNAME	Username of the server of SOA domain	weblogic	
53	SOA_WEBLOGIC_PASSWORD	Password of the server of SOA domain	weblogic1	
54	UI_UNIX_USER	Linux login user id used to install the OBP UI solution.	ofssobp	
55	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	
56	BIP_SERVER_IP	I/P of the BIP server to host OBP reports	10.180.84.115	
57	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9502	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
58	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
59	BIP_MW_HOME	Oracle BIP Middleware directory on BIP server	/scratch/app/product/fmw	
60	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
61	BIP_JAVA_HOME	Oracle JAVA HOME directory on BIP server	/scratch/app/product/jdk1.8.0_281	
62	BIP_SERVER_USER	Oracle BIP server user id	weblogic	
63	BIP_SERVER_PSWD	Oracle BIP server user password	weblogic1	
64	BIP_CATALOG_NAME	OBP BIP Catalog Name will be same as Host database user	OBP2712	
65	BIP_DATASOURCE_NAME	OBP Host database user used by OBP report to fetch data for reports	OBP2712	
66	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
67	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	
68	IPM_SERVER_IP	IP of Oracle Image and Processing Server for OBP Content Management	10.180.84.114	
69	IPM_SERVER_PORT	Port of Oracle Image and Processing Server for OBP Content Management	16000	
70	IPM_MW_HOME	Oracle weblogic Home directory on IPM server	/scratch/app/product/fmw	
71	IPM_HOME	Oracle IPM Home directory on IPM	/scratch/app/product/fmw/Oracle_ECM1	

Sr.No	Name	Description	Example Value	Value
		server		
72	OBP_HOST_DB_USER	OBP Host database user/schema	OBEDMUS211	
73	OBP_HOST_DB_PASSWORD	OBP Host database password	welcome1	
74	OBP_HOST_DB_IP	OBP Host database i/p address	10.180.84.113	
75	OBP_HOST_DB_PORT	OBP Host database port	1521	
76	OBP_HOST_DB_SERVICE_NAME	OBP Host database service name	P84113A	
77	ONS_NODE	i/p address of ONS service	10.180.84.113	
78	ONS_PORT	Listen port of ONS service	6200	
79	OPSS_HOST_SCHEMA_USER	HOST OPSS Host schema user	COLLMW_OPSS	
80	OPSS_HOST_AUDIT_DBDS	HOST AUDIT Host schema user	COLLMW_IAU_APPEND	
81	OPSS_HOST_AUDIT_VIEWDS	HOST AUDIT VIEW Host schema user	COLLMW_IAU_VIEWER	
82	OPSS_HOST_SCHEMA_PASSWORD	OPSS Host schema password	welcome1	
83	OPSS_HOST_DB_IP	OPSS Host DB IP	10.180.84.113	
84	OPSS_HOST_DB_PORT	OPSS Host DB Port	1521	
85	OPSS_HOST_DB_SERVICE_NAME	OPSS Host database service name	P84113A	
86	LOCAL_DATASOURCE	STB datasource schema name	COLLMW_STB	
87	WLS_RUNTIME_SCHEMA_USER	WLS runtime datasource schema name	COLLMW_WLS_RUNTIME	
88	MDS_HOST_DB_USER	MDS schema user to be used by UI	COLLMW_MDS	

## 2.4 Installation Checklist

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

Sr.No	Name	Description	Example Value	Value
			75	
102	KEYSTORE_PASSWORD	Password for generating certificate	welcome1	
103	IPM_OUTBOUND_USERNAME	IPM Username created in connector	weblogic	
104	IPM_OUTBOUND_PASSWORD	Password for the IPM user in connector	weblogic1	
105	BIP_OUTBOUND_USERNAME	BIP Username created in connector	weblogic	
106	BIP_OUTBOUND_PASSWORD	Password for the BIP user in connector	weblogic1	
107	ODI_OUTBOUND_USERNAME	ODI Username created in connector	weblogic	
108	ODI_OUTBOUND_PASSWORD	Password for the ODI user in connector	weblogic1	
109	OIM_OUTBOUND_USERNAME	OIM Username created in connector	weblogic	
110	OIM_OUTBOUND_PASSWORD	Password for the OIM user in connector	weblogic1	
111	WCM_OUTBOUND_USERNAME	WCM Username created in connector	weblogic	
112	WCM_OUTBOUND_PASSWORD	Password for the WCM user in connector	weblogic1	
113	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Offline Username created in connector	offlineuser	
114	OFFLINE_	Password for the	welcome1	

Sr.No	Name	Description	Example Value	Value
	CHANNEL_OUTBOUND_PASSWORD	Offline user in connector		
115	SAML_ISSUER_OUTBOUND_USERNAME	SAML ISSUER Username created in connector	weblogic	
116	SAML_ISSUER_OUTBOUND_PASSWORD	Password for the SAML ISSUER user in connector	weblogic1	
117	BPEL_ENCRYPTION_OUTBOUND_USERNAME	BPEL ENCRYPTION Username created in connector	weblogic	
118	BPEL_ENCRYPTION_OUTBOUND_PASSWORD	Password for the BPEL_ENCRYPTION user in connector	weblogic1	
119	FTP_IPM_OUTBOUND_USERNAME	FTP IPM Username created in connector	weblogic	
120	FTP_IPM_OUTBOUND_PASSWORD	Password for the FTP IPM user in connector	weblogic1	
121	FTP_BIP_OUTBOUND_USERNAME	FTP BIP Username created in connector	weblogic	
122	FTP_BIP_OUTBOUND_PASSWORD	Password for the FTP BIP user in connector	weblogic1	
123	BIP_USR_OUTBOUND_USERNAME	BIP Username created in connector	weblogic	
124	BIP_USR_OUTBOUND_PASSWORD	Password for the BIP user in connector	weblogic1	
125	SOA_PURGING_OUTBOUND_USERNAME	SOA Username created in connector	weblogic	
126	SOA_PURGING_OUTBOUND_PASSWORD	Password for the SOA user in connector	weblogic1	
127	SOA_OUTBOUND_USERNAME	SOA Username created in connector	weblogic	



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

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
		connector		
143	ICS_OUTBOUND_USERNAME	Username for ICS connector	weblogic	
144	ICS_OUTBOUND_PASSWORD	Password for ICS connector	Weblogic1	
145	OBDX_OUTBOUND_USERNAME	Username for OBDX connector	1518675030085dean.white@test.com	
146	OBDX_OUTBOUND_PASSWORD	Password for OBDX connector	Welcome@1	
147	CARD_USERNAME	Username of Card connector	orakey	
148	CARD_PASSWORD	Password of Card connector	welcome1	
149	RULE_USERNAME	Username of Rule connector	orakey	
150	RULE_PASSWORD	Password of Rule connector	welcome1	
151	BAM_USERNAME	Username of BAM connector	weblogic	
152	BAM_PASSWORD	Password of BAM connector	weblogic1	
153	COMMON_OUTBOUND_USERNAME	Username for common connector	Weblogic1	
154	COMMON_OUTBOUND_PASSWORD	Password for common connector	Weblogic1	
155	PM_OUTBOUND_USERNAME	Username for PM connector	weblogic	
156	PM_OUTBOUND_PASSWORD	Password for PM connector	weblogic1	
157	LENDING_OUTBOUND_USERNAME	Username for lending connector	weblogic	
158	LENDING_OUTBOUND_PASSWORD	Password for lending connector	weblogic1	
159	DEPOSITS_OUTBOUND_USERNAME	Username for deposits connector	weblogic	

Sr.No	Name	Description	Example Value	Value
160	DEPOSITS_OUTBOUND_PASSWORD	Password for deposits connector	weblogic1	
161	FW_OUTBOUND_USERNAME	Username for FW connector	weblogic	
162	FW_OUTBOUND_PASSWORD	Password for fw connector	weblogic1	
163	COLLECTION_OUTBOUND_USERNAME	Username for collection connector	weblogic	
164	COLLECTION_OUTBOUND_PASSWORD	Password for collection Connector	weblogic1	
165	OR_OUTBOUND_USERNAME	Username for OR connector	weblogic	
166	OR_OUTBOUND_PASSWORD	Password for OR connector	weblogic1	
167	PARTY_OUTBOUND_USERNAME	Username for Party connector	weblogic	
168	PARTY_OUTBOUND_PASSWORD	Password for Party connector	weblogic1	
169	PRODPROC_OUTBOUND_USERNAME	Username for PRODPROC connector	weblogic	
170	PRODPROC_OUTBOUND_PASSWORD	Password for PRODPROC connector	weblogic1	
171	RECOVERY_OUTBOUND_USERNAME	Username for Recovery connector	weblogic	
172	RECOVERY_OUTBOUND_PASSWORD	Password for Recovery connector	weblogic1	
173	PRICING_OUTBOUND_USERNAME	Username for Pricing connector	weblogic	
174	PRICING_OUTBOUND_PASSWORD	Password for Pricing connector	weblogic1	
175	LCM_OUTBOUND_USERNAME	Username for LCM connector	weblogic	

Sr.No	Name	Description	Example Value	Value
176	LCM_OUTBOUND_PASSWORD	Password for LCM connector	weblogic1	
177	MDM_OUTBOUND_USERNAME	Username for MDM connector	weblogic	
178	MDM_OUTBOUND_PASSWORD	Password for MDM connector	weblogic1	
179	COMMUNICATIONS_OUTBOUND_USERNAME	Username for COMMUNICATIONS connector	weblogic	
180	COMMUNICATIONS_OUTBOUND_PASSWORD	Password for COMMUNICATIONS connector	weblogic1	
181	APPCAPTURE_OUTBOUND_USERNAME	Username for APPCAPTURE connector	weblogic	
182	APPCAPTURE_OUTBOUND_PASSWORD	Password for APPCAPTURE connector	weblogic1	
183	EDN_OUTBOUND_USERNAME	Username for EDN connector	weblogic	
184	EDN_OUTBOUND_PASSWORD	Password for EDN connector	weblogic1	
185	EJB SUBJECT_USERNAME	Username for EJB SUBJECT connector	weblogic	
186	EJB SUBJECT_PASSWORD	Password for EJB SUBJECT connector	weblogic1	
187	USER_TIMEZONE	Time zone entry	+5:30	
188	HOST_SSL_PASSWORD	Password for configuring SSL in HOST domain	welcome1	
189	IS_SOA_INSTALLED	Flag to make sure SOA is installed or not	Y or N	
190	OID_SECURITY_ENABLED	Flag to make sure OPSS security is needed	Y or N	Either this flag or OID_SECURITY

Sr.No	Name	Description	Example Value	Value
				Y ENABLED must be Y
191	LOCAL_SECURITY_ENABLED	Flag to make sure native security is needed	Y or N	Either this flag or LOCAL_SECURITY_ENABLED must be Y
Below mentioned properties is required only if IS_SOA_INSTALLED flag is N'				
192	OBEPM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	pm managed server ip	pm_server_ip	
193	OBEPM_HOST_MANAGED_SERVER_LISTEN_PORT	pm managed server port	pm_server_port	
194	OBLS_HOST_MANAGED_SERVER_LISTEN_ADDRESS	lending managed server ip	lending_server_ip	
195	OBLS_HOST_MANAGED_SERVER_LISTEN_PORT	lending managed server port	lending_server_port	
196	OBPM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	party managed server ip	party_server_ip	
197	OBPM_HOST_MANAGED_SERVER_LISTEN_PORT	party managed server port	party_server_port	
198	OBCCM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	lcm managed server ip	lcm_server_ip	
199	OBCCM_HOST_MANAGED_SERVER_LISTEN_PORT	lcm managed server port	lcm_server_port	
200	OBEPH_HOST_MANAGED_SERVER_LISTEN_ADDRESS	pricing managed server ip	pricing_server_ip	

Sr.No	Name	Description	Example Value	Value
201	OBEPR_HOST_MANAGED_SERVER_LISTEN_PORT	pricing managed server port	pricing_server_port	
202	OBSH_HOST_MANAGED_SERVER_LISTEN_ADDRESS	shared managed server ip	shared_server_ip	
203	OBSH_HOST_MANAGED_SERVER_LISTEN_PORT	shared managed server port	shared_server_port	
204	DOCUKAKER_SERVER_IP	documaker server ip	documaker_server_ip	
205	DOCUKAKER_SERVER_PORT	documaker server port	documaker_server_port	
206	OFSAK_SERVER_IP	ofsaa server ip	ofsaa_server_ip	
207	OFSAK_SERVER_PORT	ofss server port	ofsaa_server_port	
208	OIM_SERVER_IP	oim server ip	oim_server_ip	
209	OIM_SERVER_PORT	oim_server_port	oim_server_port	
210	BAM_SERVER_NAME	bam_server_name	bam_server_ip	
211	BAM_SERVER_PORT	bam server port	bam server port	
212	ODI_SERVER_NAME	odi server name	odi_server_ip	
213	ODI_SERVER_PORT	odi_server_port	oid_server_port	

**Table 2–6 Values for updating installobp\*\*\*.properties - For UI**

Sr.No	Name	Description	Example Value	Value
<b>UI Properties</b>				
1	SILENT_INSTALL	Flag for executing installer remotely	Y	
2	SECURITY_ENABLED	Flag for security enable	Y	
3	IPM_INSTALLED	Flag for if IPM is	Y	

Sr.No	Name	Description	Example Value	Value
		installed		
4	BIP_INSTALLED		Y	
5	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	
6	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0	
7	DOMAIN_NAME	Weblogic Domain name	Host_domain or ui_domain or base_domain	
8	XD_COMPONENT_NAME	XD Component value	obpui	This will be always obpui
9	LOCALIZATION_TYPE	Type of localization	US	Depends on localization type
10	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
11	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	
12	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
13	LOCAL_DATASOURCE	Username of LOCAL_DATASOURCE	COLLUI_STB	
14	WLS_RUNTIME_SCHEMA_USER	Username of WLS Runtime schema	COLLUI_WLS_RUNTIME	
15	OPSS_UI_SCHEMA_USER	OPSS UI schema name	COLLUI_OPSS	

Sr.No	Name	Description	Example Value	Value
16	OPSS_UI_SCHEMA_PASSWORD	OPSS UI schema password	Welcome1	
17	OPSS_UI_DB_IP	OPSS UI DB IP	10.180.84.113	
18	OPSS_UI_DB_PORT	OPSS UI DB PORT	1521	
19	OPSS_UI_DB_SERVICE_NAME	OPSS UI DB SERVICE NAME	P84113A	
20	MDS_SCHEMA_USER	MDS schema name	COLLUI_MDS	
21	MDS_SCHEMA_PASSWORD	Password of MDS schema	welcome1	
22	MDS_DB_IP	MDS DB IP	10.180.84.113	
23	MDS_DB_PORT	MDS DB PORT	1521	
24	MDS_DB_SERVICE_NAME	MDS DB SERVICE NAME	P84113A	
25	OPSS_HOST_SCHEMA_USER	HOST OPSS Schema name	COLLMW_OPSS	
26	OPSS_HOST_AUDIT_DBDS	HOST OPSS AUDIT schema name	COLLMW_IAU_APPEND	
27	OPSS_HOST_AUDIT_VIEWDS	HOST OPSS AUDIT VIEWDB Schema name	COLLMW_IAU_VIEWER	
28	OPSS_HOST_SCHEMA_PASSWORD	HOST OPSS password for above three OPSS schema	welcome1	
29	OPSS_HOST_DB_IP	Service name of UI OPSS DB	10.180.84.113	
30	OPSS_HOST_DB_PORT	HOST OPSS DB PORT	1521	
31	OPSS_HOST_DB_SERVICE_NAME	HOST OPSS DB SERVICE NAME	P84113A	
32	OPSS_SOA_SCHEMA_USER	SOA OPSS schema user	COLLSOA_OPSS	
33	OPSS_SOA_AUDIT_DBDS	SOA AUDIT schema user	COLLSOA_IAU_APPEND	



Sr.No	Name	Description	Example Value	Value
34	OPSS_SOA_AUDIT_VIEWDS	SOA Audit ViewDB schema user	COLLSOA_IAU_VIEWER	
35	OPSS_SOA_SCHEMA_PASSWORD	Password for OPSS schema	welcome1	
36	OPSS_SOA_DB_IP	DB IP of OPSS schema	10.180.84.113	
37	OPSS_SOA_DB_PORT	DB Port of OPSS schema	1521	
38	OPSS_SOA_DB_SERVICE_NAME	DB Service of OPSS schema	P84113A	
39	HOST_SCHEMA_USER	OBP Host Database username	OBLS212	
40	HOST_SCHEMA_PASSWORD	OBP Host Database password	welcome1	
41	HOST_DB_IP	OBP Host Database i/p address	10.180.84.113	
42	HOST_DB_PORT	OBP Host Database listen port	1521	
43	HOST_DB_SERVICE_NAME	OBP Host Database service name	P84113A	
44	ONS_NODE	i/p address of ONS service	10.180.84.113	
45	ONS_PORT	Listen port of ONS service	6200	
46	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.111	
47	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
48	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen port	7002	
49	MANAGED_SERVER_LISTEN_ADDRESS	Managed server listen address	10.180.84.111	
50	MANAGED_SERVER_LISTEN_PORT	Managed server listen port	8001	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
	PORT			
51	MANAGED_SERVER_SSL_LISTEN_PORT	Managed server SSL listen port	8002	
52	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
53	OID_IP	I/P address of the OID server	10.180.84.113	
54	OID_PORT	Port of the OID process instance.	3060	
55	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrator.	cn=orcladmin	
56	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	
57	OID_GROUP_DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
58	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	cn=Users,dc=in,dc=oracle,dc=com	
59	NODE_MGR_PORT	Refers to the port number to be used for the weblogic node manager. This	5556	

Sr.No	Name	Description	Example Value	Value
		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		
60	UI_IP	I/P address of the server on which the OBP presentation or UI layer should be installed.	10.180.84.111	
61	UI_CLUSTER_NAME	Name of UI Managed Cluster	obpui_cluster1	
62	UI_SERVER_NAME	Name of UI Managed Server	obpui_server1	
63	UI_TARGET	Refers to a location on the UI server where the installables can be transferred. The user id of the user used for installation of OBP should have read, write and execute privileges on this directory.	/scratch/install/target	
64	UI_MW_HOME	Refers to the middleware home of the weblogic installation on the UI server.	/scratch/app/product/fmw	
65	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	/scratch/app/product/jdk1.8.0_231	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
		policies policy seeding utility at the end of the installation.		
66	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_231	
67	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oraInventory	
68	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
69	IPM_UNIX_USER	Linux login user id of IPM server	ofssobp	
70	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
71	IPM_SERVER_PORT	Listen port of IPM server	16000	
72	IPM_MW_HOME	Oracle Weblogic Home directory on IPM server	/scratch/app/product/fmw	
73	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/Oracle_ECM1	
74	BIP_SERVER_IP	I/P of the BIP server to host OBP reports	10.180.84.115	
75	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9502	
76	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
77	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	

Sr.No	Name	Description	Example Value	Value
78	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	
79	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	
80	OIM_SERVER_IP	Oracle Identity Manager i/p address	oim-ofss.com	
81	OIM_SERVER_PORT	Oracle Identity Manager Listen Port	16000	
82	OFSAA_SERVER_IP	OFSAA Server i/p address	ofsaa-ofss.com	
83	OFSAA_SERVER_PORT	OFSAA Server listen port	17000	
84	UI_ADMIN_JVM_PARAMS	UI domain admin JVM startup parameters	-Xms2048m -Xmx4096m	
85	UI_MANAGED_JVM_PARAMS	UI domain managed JVM startup parameters	-Djbo.ampool.doampooling=false -Xms6g -Xmx6g -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Djbo.load.components.lazily=true	
86	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	
87	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	7001	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
88	HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of host managed server	10.180.84.110	
89	HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of host managed server	8001	
90	SOA_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
91	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
92	SOA_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of SOA Admin server	10.180.84.112	
93	SOA_ADMIN_SERVER_LISTEN_PORT	Listen port of SOA Admin server	7001	
94	KEYSTORE_PASSWORD	Password for generating certificate	welcome1	
95	UI_SSL_PASSWORD	Password for configuring SSL in UI domain	welcome1	
96	UCM_READ_FROM_URL	Flag for getting UCM URL from properties file. 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. However, as a best practice, it is recommended that we configure	true/false	

Sr.No	Name	Description	Example Value	Value
		values for UCP_IP and UCM_PORT correctly from day 1		
97	UCM_IP	UCM_IP the IP address of the UCM WebLogic managed server.	ofss.ucm.com	
98	UCM_PORT	Port of UCM.	4444	
99	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Offline username created in connector	offlineuser	
100	OFFLINE_CHANNEL_OUTBOUND_PASSWORD	Password for the Offlineuser user in connector	welcome1	
101	CARD_USERNAME	Username of Card connector.	orakey	
102	CARD_PASSWORD	Password of Card connector.	welcome1	
103	RULE_USERNAME	Username of Rule connector	orakey	
104	RULE_PASSWORD	Password of Rule connector	welcome1	
105	USER_TIMEZONE	Time zone entry	+5:30	
106	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
107	IPM_USERNAME	Username of IPM connector	weblogic	
108	IPM_PASSWORD	Password of IPM connector	weblogic1	
109	FTP_IPM_USERNAME	Username of FTP_IPM connector	ofssobp	
110	FTP_IPM_PASSWORD	Password of FTP_IPM connector	ofssobp123	
111	FTP_IPM_BATCH_USERNAME	Username of FTP_IPM_BATCH	ofssobp	
112	FTP_IPM_BATCH_PASSWORD	Password of FTP_IPM_BATCH	ofssobp123	

Sr.No	Name	Description	Example Value	Value
		BATCH		
113	HOST_UNIX_USER	Linux login user id for HOST server	ofssobp	
114	HOST_MW_HOME	Refers to the middleware home of the weblogic installation on the Host server.	/scratch/app/product/fmw	
115	HOST_DOMAIN_NAME	Host Domain Name	host_domain	
116	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
117	SOA_DOMAIN_NAME	Domain name of SOA	base_domain	
118	OID_SECURITY_ENABLED	Flag to make sure OPSS security is needed	Y or N	Either this flag or OID_SECURITY_ENABLED must be Y
119	LOCAL_SECURITY_ENABLED	Flag to make sure native security is needed	Y or N	Either this flag or LOCAL_SECURITY_ENABLED must be Y
120	IS_SOA_INSTALLED	Flag to make sure SOA is installed or not	Y or N	

**Table 2-7 Values for updating installobp\*\*\*.properties - For SOA**

Sr.No	Name	Description	Example Value	Value
<b>SOA Properties</b>				
1	SILENT_INSTALL	Flag for executing installer remotely	y	
2	SECURITY_ENABLED	Flag for security	Y	



Sr.No	Name	Description	Example Value	Value
		enable		
3	IPM_INSTALLED	Flag for if IPM is installed	Y	
4	BIP_INSTALLED	Flag for if BIP is installed	Y	
5	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	
6	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0	
7	DOMAIN_NAME	Name of the weblogic domain to be created	Host_domain or ui_domain or base_domain	
8	XD_COMPONENT_NAME	XD Component name	obpsoa	
9	LOCALIZATION_TYPE	Type of localization	us	
10	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/scratch/app/product/fmw/user_projects/domains	
11	WEBLOGIC_USERNAME	Username for weblogic domain	weblogic	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
12	WEBLOGIC_PASSWORD	Password for weblogic domain	weblogic1	
13	MDS_SCHEMA_USER	MDS schema user for SOA domain	MPUSSOA_MDS	
14	SOA_INFRASTRUCTURE_SCHEMA_USER	SOA infrastructure schema user for SOA domain	MPUSSOA_SOAINFRA	
15	LOCAL_SCHEMA_USER	Local schema user for SOA domain	MPUSSOA_STB	
16	UMS_SCHEMA_USER	UMS schema user for SOA domain	MPUSSOA_UMS	
17	WLS_RUNTIME_SCHEMA_USER	WLS_RUNTIME schema user for SOA domain	MPUSSOA_WLS_RUNTIME	
18	DB_SCHEMA_PASSWORD	Password for MDS schema user	welcome1	
19	DB_IP	i/p address of MDS db machine	10.180.84.113	
20	DB_PORT	Port of MDS db port	1521	
21	DB_SERVICE_NAME	Service Name of MDS user	P84113A	
22	HOST_SCHEMA_USER	OBP Host Database username	OBP2712	
23	HOST_SCHEMA_PASSWORD	OBP Host Database password	welcome1	
24	HOST_DB_IP	OBP Host Database i/p address	10.180.84.113	

Sr.No	Name	Description	Example Value	Value
25	HOST_DB_PORT	OBP Host Database port	1521	
26	HOST_DB_SERVICE_NAME	OBP Host Database service name	P84113A	
27	ONS_NODE	i/p address of ONS service	10.180.84.113	
28	ONS_PORT	Port of ONS service	6250	
29	OPSS_SOA_SCHEMA_USER	SOA OPSS Schema Name	SOA27_OPSS	
30	OPSS_SOA_AUDIT_DBDS	SOA OPSS AUDIT Schema name	SOA27_IAU_APPEND	
31	OPSS_SOA_AUDIT_VIEWDS	SOA OPSS AUDIT VIEWDS Schema name	SOA27_IAU_VIEWER	
32	OPSS_SOA_SCHEMA_PASSWORD	Password of OPSS_SOA_SCHEMA_USER	welcome1	
33	OPSS_SOA_DB_IP	i/p address of SOA OPSS DB.	10.180.84.113	
34	OPSS_SOA_DB_PORT	Port of SOA OPSS DB.	1521	
35	OPSS_SOA_DB_SERVICE_NAME	Service name of SOA OPSS DB.	P84113A	
36	ADMIN_SERVER_	Admin server	10.180.84.112	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
	LISTEN_ADDRESS	listen address		
37	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
38	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen address	7002	
39	SOA_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
40	SOA_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
41	SOA_SERVER_SSL_LISTEN_PORT	SSL Listen port of SOA server	8002	
42	HUMANTASK_SERVER_LISTEN_ADDRESS	Listen address of humantask server	10.180.84.112	
43	HUMANTASK_SERVER_LISTEN_PORT	Listen port of humantask server	9001	
44	HUMANTASK_SERVER_SSL_LISTEN_PORT	SSL listen port of humantask server	9002	
45	BAM_SERVER_LISTEN_ADDRESS	Listen address of BAM server	10.180.84.112	
46	BAM_SERVER_LISTEN_PORT	Listen port of BAM server	9003	
47	BAM_SERVER_SSL_LISTEN_PORT	SSL Listen port of BAM server	9004	
48	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	
49	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	7001	
50	HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of host	10.180.84.110	

Sr.No	Name	Description	Example Value	Value
		managed server		
51	HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of host managed server	8001	
52	OBEPM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of obepm managed server	10.180.4.113	
53	OBEPM_HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of obepm managed server	8003	
54	OBEDM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of obedm managed server	10.40.80.141	
55	OBEDM_HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of obedm managed server	8003	
56	OBSL_HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of obls managed server	10.180.4.98	
57	OBSL_HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of obls managed server	8001	
58	OBPM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of obpm managed server	10.180.4.98	
59	OBPM_HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of obpm managed server	8003	
60	OBCCM_HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of occm managed server	10.180.4.113	

Sr.No	Name	Description	Example Value	Value
61	OBCCM_HOST MANAGED_SERVER_ LISTEN_PORT	Listen port of occm managed server	8005	
62	OBEPR_HOST_ MANAGED_SERVER_ LISTEN_ADDRESS	Listen address of obepr managed server	10.180.4.113	
63	OBEPR_HOST_ MANAGED_SERVER_ LISTEN_PORT	Listen port of obepr managed server	8001	
64	LDAP_PROVIDER	Refers to LDAP Provider . Value will be OID or OVD.	OID	
65	OID_IP	I/P address of the OID server.	10.180.84.113	
66	OID_PORT	Port of the OID process instance.	3060	
67	OID_ADMIN_USER	Admin user id which can be used to login of the OID as administrato r.	cn=orcladmin	
68	OID_ADMIN_PWD	Refers to the password of admin user of the OID	welcome1	
69	OID_GROUP_DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
70	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	ou=objp,cn=Users,dc=in,dc=oracle,dc=com	
71	NODE_MGR_PORT	Refers to the port number	5556	

Sr.No	Name	Description	Example Value	Value
		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		
72	SOA_IP	i/p address of SOA server	10.180.84.112	
73	SOA_CLUSTER_NAME	Cluster name of SOA server	obpsoa_cluster1	
74	SOA_SERVER_NAME	Server name of SOA server	soa_server1	
75	HUMAN_TASK_CLUSTER_NAME	Cluster name of Humantask server	obphumantask_cluster1	
76	HUMAN_TASK_SERVER_NAME	Server name of Humantask server	obphumantask_server1	
77	SOA_TARGET	Target folder of SOA machine where files will be copied temporarily during installation	/scratch/install/target	
78	SOA_JAVA_HOME	Refers to the home directory of java installation of	/scratch/app/product/jdk1.8.0_281	

Sr.No	Name	Description	Example Value	Value
		the SOA 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.		
79	OUI_JAVA_HOME	Refers to the home directory of java installation.	/scratch/app/product/jdk1.8.0_281	
80	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oralInventory/	
81	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
82	UI_IP	i/p address of UI server	10.180.84.111	
83	UI_UNIX_USER	Linux login user id for UI server	ofssobp	
84	UI_DOMAIN_HOME	Full path of UI domain	/scratch/app/product/fmw/user_projects/domains/ui_domain	
85	INSTALL_AS	Linux login user id used to install the OBP solution.	ofssobp	
86	SOA_ADMIN_JVM_	SOA domain	-Xms1024m -Xmx2048m	



Sr.No	Name	Description	Example Value	Value
	PARAMS	admin JVM startup parameters		
87	SOA_HUMAN_TASK_SERVER_JVM_PARAMS	SOA domain human task server's JVM startup parameters	"-Djboss.pool.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=90000 -Dobp.http.connectionRequestTimeout=90000 -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=true -Dweblogic.servlet.DIDisabled=true"	
88	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"	
89	KEYSTORE_PASSWORD	Password for generating	welcome1	
90	UI_MANAGED_SERVER_LISTEN_ADDRESS	i/p address of UI Managed server	10.180.84.111	
91	UI_MANAGED_SERVER_SSL_LISTEN_PORT	Listen port of UI Managed server	8002	
92	UI_ADMIN_SERVER_LISTEN_ADDRESS	UI_ADMIN_SERVER_LISTEN_ADDRESS	i/p address of UI Admin server	
93	UI_ADMIN_SERVER_LISTEN_PORT	UI_ADMIN_SERVER_LISTEN_PORT	Listen port of UI Admin server	
94	DEFAULT_BANK_CODE	Default bank code will be set while configuring SOA domain	8	

## 2.4 Installation Checklist

Sr.No	Name	Description	Example Value	Value
95	DEFAULT_TRANSACTION_BRANCH_CODE	Default branch code will be set while configuring SOA domain	89999	
96	DEFAULT_TARGET_UNIT	Default target unit will be set while configuring SOA domain	OBP_BU	
97	CARD_USERNAME	Username of Card connector.	orakey	
98	CARD_PASSWORD	Password of Card connector	welcome1	
99	RULE_USERNAME	Username of Rule connector	orakey	
100	RULE_PASSWORD	Password of Rule connector	welcome1	
101	USER_TIMEZONE	Time zone entry	+5:30	
102	SOA_SSL_PASSWORD	Password for configuring SSL in SOA domain	welcome1	
103	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
104	BAM_INSTALLATION	During SOA installation value Must be 'N' During BAM installation value Must be Y.	N	
105	IPM_USERNAME	Username of IPM connector	ofssobp	
106	IPM_PASSWORD	Password of IPM connector	welcome1	

Sr.No	Name	Description	Example Value	Value
107	OFFLINE_CHANNEL_OUTBOUND_USERNAME	Username of offline connector	offlineuser	
108	OFFLINE_CHANNEL_OUTBOUND_PASSWORD	Password of offline connector	welcome1	
109	FTP_IPM_USERNAME	Username of FTP_IPM connector	ofssobp	
110	FTP_IPM_PASSWORD	Password of FTP_IPM connector	ofssobp123	
111	FTP_IPM_BATCH_USERNAME	Username of FTP_IPM_BATCH connector	ofssobp	
112	FTP_IPM_BATCH_PASSWORD	Password of FTP_IPM_BATCH connector	ofssobp123	
113	SOA_OUTBOUND_USERNAME	Username of SOA connector	weblogic	
114	SOA_OUTBOUND_PASSWORD	Password of SOA connector	weblogic1	
115	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
116	IPM_SERVER_PORT	port of IPM server	16000	
117	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	
118	IPM_MW_HOME	Oracle IPM middleware Home directory on IPM server	/scratch/app/product/fmw	
119	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/wccontent	
120	BIP_SERVER_IP	I/P of the BIP server to host OBP reports	10.180.84.115	

Sr.No	Name	Description	Example Value	Value
121	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9502	
122	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
123	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
124	OAAM_SERVER_IP	oaam sever ip address	oaam-ofss.com	
125	OAAM_SERVER_PORT	oaam server port	14000	
126	OIM_SERVER_IP	oim server ip	oim-ofss.com	
127	OIM_SERVER_PORT	oim server port	16000	
128	OFSA_SERVER_IP	ofss server ip	ofsaa-ofss.com	
129	OFSA_SERVER_PORT	ofss server port	17000	
130	DOCUMAKER_SERVER_IP	documaker server ip	documaker-ofss.com	
131	DOCUMAKER_SERVER_PORT	documaker server port	15000	
132	BAM_SERVER_NAME	Bam server name	bam-ofss.com	
133	BAM_SERVER_PORT	Bam server port	9003	
134	ODI_SERVER_NAME	Odi server name	odi-ofss.com	
135	ODI_SERVER_PORT	Odi server port	8001	

### 2.4.3 Database and WebLogic Domain Configuration

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

Table 2–8 DB and WebLogic Domain Configuration

Sr. No.	Name	Description and Example	Value
<b>UI and Host Linux user login details</b>			
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.	
<b>Database Details</b>			
5	IP address of the OBLS Oracle DB server	10.180.90.30	
6	Port of the OBLS Oracle DB instance	1521	
7	OBLS DB Service Name	OBPDB	
8	OBLS DB sys password	*****	
9	ONS NODE	10.180.90.30, Make sure ons service is started on DB.	
10	ONS Port	6250	
<b>Additional UI Install Checklist</b>			
11	Admin user id and password for the OBLS 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 OBLS 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 OBLS 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.	
<b>Additional Host Install Checklist</b>			

Sr. No.	Name	Description and Example	Value
15	Admin user id and password for the OBLs 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 OBLs 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 OBLs 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.	

## 2.5 OID Schema Setup – Custom OBLs Schema

This section describes the OID Schema setup which is a pre-installation configuration required for Oracle Banking Loans Servicing setup.

### 2.5.1 Prerequisite – OID setup

I4.1. It is assumed that OID 12.2.1.4.0 is installed with ODSM and configured.

### 2.5.2 Verify the OID installation

This section describes the procedure to verify the OID installation.

#### 2.5.2.1 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
```

#### 2.5.2.2 OPSS/OID Performance Tuning

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

##### Parameters

Change the parameter values as provided below.

**Table 2–9 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=dsconfig,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=oslddapd,cn=subconfigsentry
```

```
changetype: modify
```

```
replace: orclldapconntimeout
```

```
orclldapconntimeout: 60
```

```
dn: cn=oid1,cn=oslddapd,cn=subconfigsentry
```

```
changetype: modify
```

```
replace: orclmatchdenabled
```

```
orclmatchdenabled: 0
```

3. See the OID Tuning Guide available at:

<https://docs.oracle.com/en/middleware/fusion-middleware/12.2.1.4/asper/oracle-internet-directory-performance-tuning.html#GUID-C3FC1F74-71B7-4F20-B24F-0B5D589D9B19>

## 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 2–10 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;



Sr. No.	DB Property Name	Suggested Value for Tuning	Alter Command
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 UI, Host, 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.policyDistributionMode" 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.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"/>
</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 2–11 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.
-Djps.authz=ACC	Delegates the call to JDK API <code>AccessController.checkPermission</code> which can reduce the performance impact at run time or while debugging.
-DUSE_JAAS=false	
-Djps.auth=ACC	Delegates the call to JDK API <code>AccessController.checkPermission</code> 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 <code>JpsSubject</code> which contains user/enterprise-role information, as well as <code>ApplicationRole</code> 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 <code>WLSUserImpl</code> 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.

Property	Description
	<p>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.</p> <p>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.</p>

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

```

### 2.5.2.3 Import OBLs Specific LDIF files

If Oracle Identity Manager (OIM) 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 OBLs.

If OIM is not part of the ecosystem and an initial sanity test of the OBLs 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 'obpus-host.zip' or 'obpau-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 2–12 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
```

### Idapadd jpsroot.ldif

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

### Idapadd Users.ldif

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

### Idapadd Groups.ldif

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

### Idapadd WebLogic.ldif

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

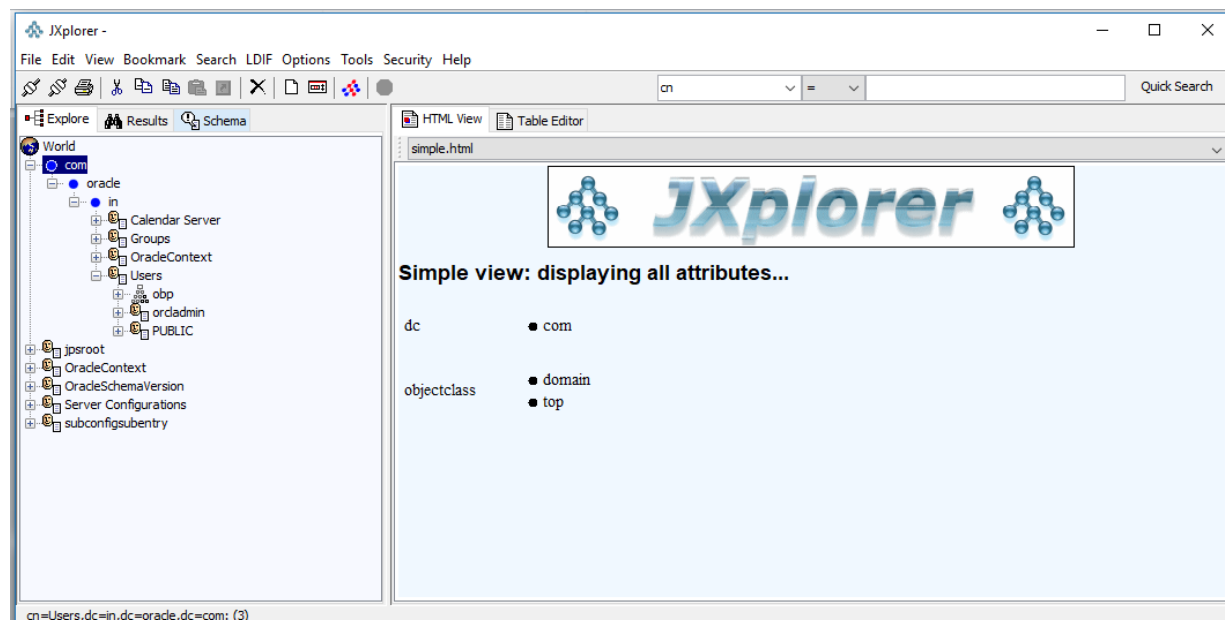
### Idapadd Administrators.ldif

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

## 2.5.2.4 Verify the import using ODSM or JXplorer

The import of Oracle Banking Loans Servicing specific LDIF files can be verified using JXplorer.

Figure 2–2 JXplorer







# 3 OBLS Localization SOA Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Loans Servicing Localization SOA Media Pack. The subsequent section refers to the variable names specified in [Section 2.4 Installation Checklist](#).

For OBLS, SOA Mediapack is optional.

## 3.1 Installation and Configuration Procedure

This section details the installation procedure for the OBLS Localization SOA Media Pack.

### 3.1.1 Preparatory Steps

This section lists the preparatory steps required for the OBLS Localization 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 'obpus-soa.zip' or 'obpau-ui-soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Three files will be extracted:

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

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.4 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 OBLS Localization SOA Media Pack installation.

#### Step 1 Updating installobpsoa.properties

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

#### Step 2 Checklist for a new setup

Before initiating installation, check the following:

- Make sure required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBLs Database Setup – RCU Installation](#).
- Increase the size of tablespace (at least 6GB 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

OBLs 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.

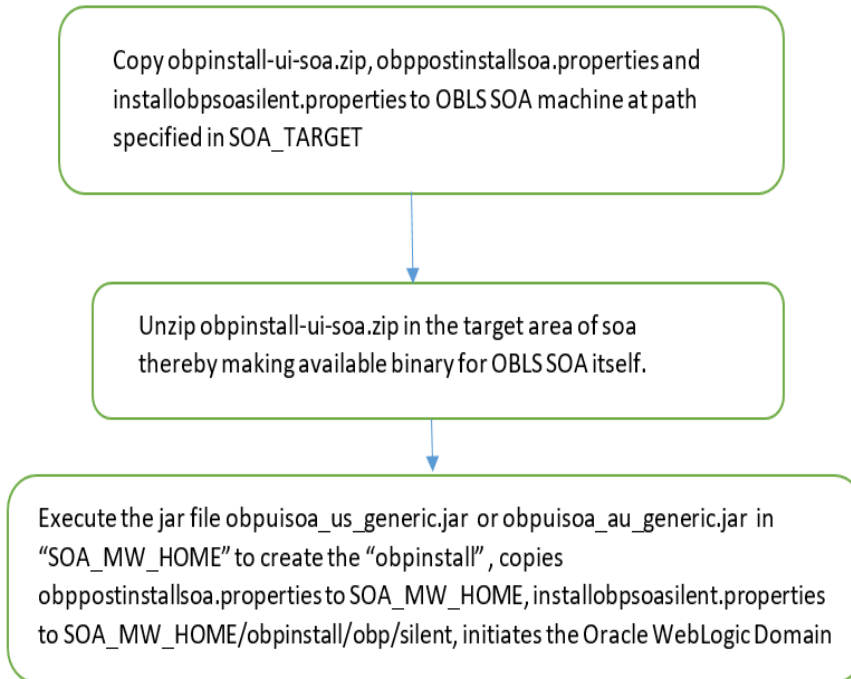
For more information, see the following document:

<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 OBLs Localization 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

```

[ofsobp@mm00abp soa]$ ./installobpsoa.sh
The present working directory is /scratch/install/soa. It is assumed that all installables are present in this directory.
Printing the information entered above
SILENT_INSTALL           : y
LOCAL_IP                 : 10.180.05.159
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         : PROSOA.MDS
SOA_INFRASTRUCTURE_SCHEMA_USER : PROSOA.SOAINFRA
DB_SCHEMA_PASSWORD      : welcome1
DB_IP                    : 10.180.07.04
DB_PORT                  : 1521
DB_SERVICE_NAME          : P0784A
HOST_SCHEMA_USER         : OBP262
HOST_SCHEMA_PASSWORD     : welcome1
HOST_DB_IP               : 10.180.07.04
HOST_DB_PORT             : 1521
HOST_DB_SERVICE_NAME     : P0784A
ADMIN_SERVER_LISTEN_ADDRESS : 10.180.05.159
ADMIN_SERVER_LISTEN_PORT  : 7001
ADMIN_SERVER_SSL_LISTEN_PORT : 7002
SOA_SERVER_LISTEN_ADDRESS : 10.180.05.159
SOA_SERVER_LISTEN_PORT    : 8001
SOA_SERVER_SSL_LISTEN_PORT : 8002
HUMANTASK_SERVER_LISTEN_ADDRESS : 10.180.05.159
HUMANTASK_SERVER_LISTEN_PORT  : 9001
HUMANTASK_SERVER_SSL_LISTEN_PORT : 9002
BAM_SERVER_LISTEN_ADDRESS  : 10.180.05.159
BAM_SERVER_LISTEN_PORT     : 9003
BAM_SERVER_SSL_LISTEN_PORT : 9004
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.05.159
HOST_MANAGED_SERVER_LISTEN_PORT  : 8001
LDAP_PROVIDER              : OID
OID_IP                     : 10.180.07.04
  
```

**Figure 3–3 Verification of Properties**

```

OED_IP : 10.100.07.84
OED_PORT : 389
OED_ADMIN_USER : cn=orcladmin
OED_ADMIN_PWD : welcom1
OED_GROUP_DSN : cn=Groups,dc=in,dc=oracle,dc=com
OED_USER_DSN : cn=Users,dc=in,dc=oracle,dc=com
OPSS_SOA_SCHEMA_USER : PROSOA.OPSS
OPSS_SOA_SCHEMA_PASSWORD : welcom1
OPSS_SOA_DB_IP : 10.100.07.84
OPSS_SOA_DB_PORT : 1521
OPSS_SOA_DB_SERVICE_NAME : P0784A
NODE_MGR_PORT : 5556
SOA_IP : 10.100.05.159
SOA_CLUSTER_NAME : obpsoa_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_101
OUT_JAVA_HOME : /scratch/app/product/jdk1.8.0_101
CENTRAL_INVENTORY_LOS : /scratch/app/oraInventory/
SOA_MW_HOME : /scratch/app/product/fmw
UI_IP : 10.100.05.196
UI_UNIX_USER : ofssobp
UI_DOMAIN_HOME : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS : ofssobp
SOA_MNTR_JVM_PARAMS : -Xms1024m -Xmx2048m
SOA_MANAGED_JVM_PARAMS : -Xms1024m -Xmx2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -
XX:CMSInitiatingOccupancyFraction=75
SOA_HUMANTASKSERVER_JVM_PARAMS : -Xms192m -Xmx1380m
-@jls -@pool.doampooling=false -Xms4096m -Xmx6000m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+
CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Dob
p.http.maxConnectionsPerHost=20 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.id
leTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=true
KEYSTORE_PASSWORD : welcom1
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.100.05.196
UI_MANAGED_SERVER_LISTEN_PORT : 8081
DEFAULT_BANK_CODE : 08
DEFAULT_TRANSACTION_BRANCH_CODE : 089999
    
```

**Figure 3–4 Confirmation to Proceed Domain Installation (cont.)**

```

DEFAULT_TRANSACTION_BRANCH_CODE : 089999
DEFAULT_TARGET_UNIT : OBP_BU
CARD_USERNAME : orakey
CARD_PASSWORD : welcom1
RULE_USERNAME : orakey
RULE_PASSWORD : welcom1
USER_TIMEZONE : +5:30
SOA_SSL_PASSWORD : welcom1
REMOTE_EXECUTION : Y
SAM_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_ipm/Oracle_ECM1
IPM_SERVER_IP : 10.100.0.143
BIP_SERVER_IP : 10.100.0.143
BIP_SERVER_PORT : 9502
BIP_UNIX_USER : ofssobp
BIP_HOME : /scratch/app/product/fmw_bip/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 obpininstall-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:bd: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:
obpininstall-soa.zip                                100% 357MB 178.6MB/s 00:02
installobpsoasilent.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/obpininstall-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/PyPyML-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/obpininstall
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 2.0.2.0.0
  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%
..... 52%
..... 53%
..... 56%
..... 60%
..... 63%

```

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

```

..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%
..... 23% Done.
..... 46% Done.
..... 70% Done.
-----
Installation in progress (Thursday, May 3, 2018 2:59:53 PM IST)
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
[obfssobp@mm0babp soa1]
    
```

## 3.2 Post Installation Configuration

This section describes the post installation configuration procedure for OBLS Localization SOA Media Pack.

### Checklist for Post Installation Procedure

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

- Replace /scratch/app/product/fmw path with your middleware home path in setDomainEnv.sh and setDomainEnvSOA, if not replaced.
- 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 OBLS 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:

```
$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**

```
[ofssobp@mum00abp fmw]$ ./obp-soa-post-install.sh
DOMAIN_NAME                : base_domain
DOMAIN_DIRECTORY_LOCATION  : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME          : weblogic
WEBLOGIC_PASSWORD          : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.159
ADMIN_SERVER_LISTEN_PORT   : 7001
SOA_SERVER_LISTEN_ADDRESS  : 10.180.85.159
SOA_SERVER_LISTEN_PORT     : 8001
BAM_SERVER_LISTEN_ADDRESS  : 10.180.85.159
BAM_SERVER_LISTEN_PORT     : 9003
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.195
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
LDAP_PROVIDER              : 010
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
SOA_IP                     : 10.180.85.159
SOA_CLUSTER_NAME           : obpsoa_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_101
SOA_MW_HOME                : /scratch/app/product/fmw
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
SOA_ADMIN_JVM_PARAMS       : -Xms1024m -Xmx2048m
SOA_MANAGED_JVM_PARAMS     : -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Xms8192m -Xmx15360m
SOA_HUMANTASKSERVER_JVM_PARAMS : -Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Dob
```

Figure 3–10 Starting Post Installation (contd)

```

SOA_HUMANTASKSERVER_JVM_PARAMS      : -Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+
CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Do
bp.http.maxConnectionsPerHost=20 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.id
leTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=true
KEYSTORE_PASSWORD                  : welcome1
UI_MANAGED_SERVER_LISTEN_ADDRESS    : 10.180.85.196
UI_MANAGED_SERVER_LISTEN_PORT       : 8001
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
REMOTE_EXECUTION                    : Y
BAM_INSTALLATION                    : N
DB_SCHEMA_PASSWORD                 : welcome1
DB_IP                               : 10.180.87.84
DB_PORT                             : 1521
DB_SERVICE_NAME                     : P8784A
IPM_USERNAME                        : weblogic
IPM_PASSWORD                        : weblogic1
FTP_IPM_USERNAME                    : ofssobp
FTP_IPM_PASSWORD                    : ofssobp123
FTP_IPM_BATCH_USERNAME              : ofssobp
FTP_IPM_BATCH_PASSWORD              : ofssobp123
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 3–11 Starting 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...
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:
libnAPI_v3.jar                               100% 904KB 904.4KB/s 00:00
libnAPI_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
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 WLS 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 3–12 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/ob.soa.process/metadata/metadata
[unjar] Expanding: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar into /scratch/app/product/fmw/obpinstall/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=maxMessageRaiseSize,itemType=javax.management.openbean.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.openbean.SimpleType(name=java.lang.Long)),(itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.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=ClusterConfig,itemType=javax.management.openbean.CompositeType(name=ClusterConfig,items=((itemName=ClusterDbTimeRefresh,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)),(itemName=heartBeatInterval,itemType=javax.management.openbean.SimpleType(name=java.lang.Long)),(itemName=masterAliveThreshold,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=RecurringScheduleConfig,itemType=javax.management.openbean.CompositeType(name=RecurringScheduleConfig,items=((itemName=maxMessageRaiseSize,itemType=javax.management.openbean.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.openbean.SimpleType(name=java.lang.Integer)),(itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.SimpleType(name=java.lang.Integer)))))),(itemName=StartupscheduleConfig,itemType=javax.management.openbean.CompositeType(name=StartupscheduleConfig,items=((itemName=maxMessageRaiseSize,itemType=

```

Figure 3–13 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_SettlementPayoutSpi_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 <mm00abp.in.oracle.com.cer>
Certificate was added to keystore
Certificate was added to keystore
[ofssobp@mm00abp fmw]$ █

```

- 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

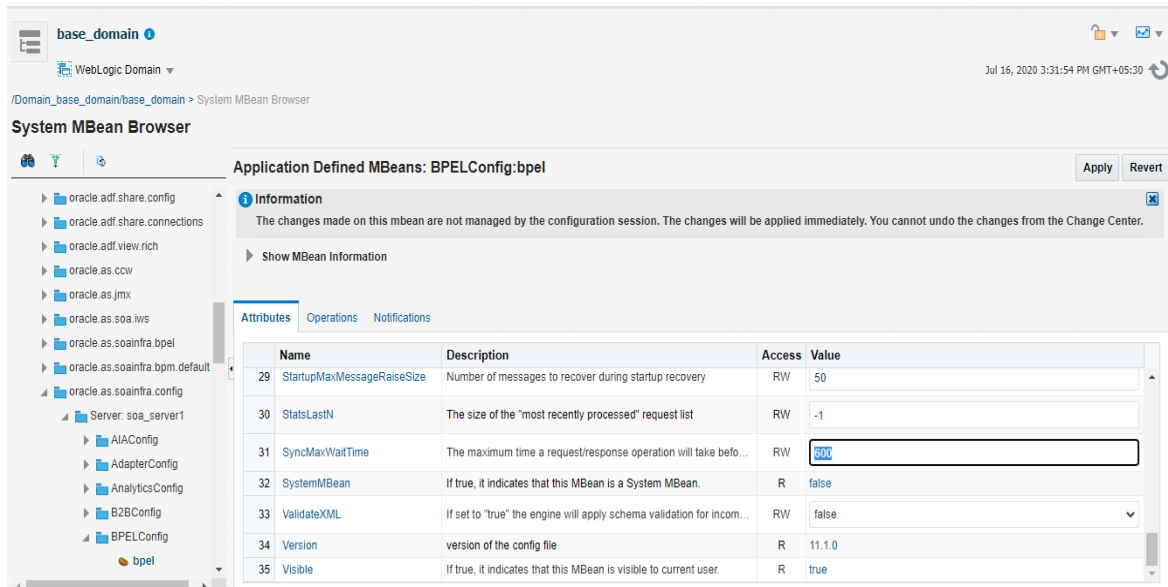
```

update-syncMaxTimeWait.log

obp-soa-install-log.txt

7. SyncMaxWaitTime value from 45 to 600
  - a. Login to SOA EM and click on  
base\_domain > System Mbean Browser > Application Defined Mbeans >  
oracle.as.soainfra.config > Server: soa\_server1 > BPELConfig > bpe

**Figure 3–14 BPELConfig:bpeI**



8. Restart SOA admin and SOA managed server and obphumantask server.
9. After completion of restart, attach the oracle/wss\_saml\_or\_username\_token\_service\_policy in com.ofss.ob.webservice.soamanagement.war. To attach the policy:
  - a. Log in to SOA EM.
  - b. Click Application Deployments > com.ofss.ob.webservice.soamanagement > Domain Application Deployment > Administration > Web Services Configuration.

Figure 3–15 Go to Web Services Configuration



- c. Click Resource Pattern and attach the policy oracle/wss\_saml\_or\_username\_token\_service\_policy for com.ofss.ob.webservice.soamanagement webservice.

Figure 3–16 Attach Policy





# 4 OBLS Localization Host Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Loans Servicing Localization Host Media Pack. The subsequent section refers to the variable names specified in [Section 2.4 Installation Checklist](#).

## 4.1 Installation and Configuration Procedure

This section details the installation procedure for the OBLS Localization Host Media Pack.

### 4.1.1 Preparatory Steps

This section lists the preparatory steps required for the OBLS Localization 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 'obpus-host.zip' or 'obpau-host.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Below files will be extracted:

- The zip file:
  - 'obpinstall-host.zip'
  - 'Table\_Partitioning.zip'
- The installation script:
  - 'installobphost.sh'
  - 'ossh.sh'
  - 'ossh.sh'
  - 'load-artifacts.sh'
- The install configuration property file 'installobphost.properties'
- dbScripts\_us.tar.gz or dbScripts\_au.tar.gz

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.4 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 OBLS Localization Host Media Pack installation.

For OBLS, SOA is optional.

Use flag "IS\_SOA\_INSTALLED=Y" if SOA pre-installation is done or "IS\_SOA\_INSTALLED=N" if SOA is not required.

Following are the domains for XD components of middleware. Domain for batchhost must be created first and then others (no sequence for others).

The following table lists the XD components.

**Table 4–1 XD Components**

Sr. No.	Name	Value	Description
1	XD_COMPONENT_NAME	batchhost	Value for batch host sever, Policy seeding and BIP reports upload will be done with this batch host server installation.
2	XD_COMPONENT_NAME	obepmhost	Value for OBEPM server (Product Manufacturing)
3	XD_COMPONENT_NAME	oblshost	Value for OBLs server (Lending)
4	XD_COMPONENT_NAME	obpmhost	Value for OBPM server (Party)
5	XD_COMPONENT_NAME	obshhost	Value for OBshared server
6	XD_COMPONENT_NAME	obeprhost	Value for OBPR server (Pricing)
7	XD_COMPONENT_NAME	obccmhost	Value for OBCCM server (LCM)

The following table shows examples of fmw dir name, domain name, server name, and memory parameters. Multiple domains can be created on a single VM according to memory parameters.

**Table 4–2 Examples of FMW Dir Name, Domain Name, Server Name and Memory Parameters**

XD Component Name	MW_HOME	Domain Name	Server Name or Cluster Name
batchhost	/scratch/app/product/fmw	host_domain	obphost_server1/obphost_cluster1
obepmhost	/scratch/app/product/fmw_pm	obepm_domain	obepm_server1/obepm_cluster1
oblshost	/scratch/app/product/fmw_loan	oblending_domain	oblending_server1/oblending_cluster1
obshhost	/scratch/app/product/fmw_sh	obsh_domain	obshared_server1/obshared_cluster1
obpmhost	/scratch/app/product/fmw_party	obparty_domain	obparty_server1/obparty_cluster1
obeprhost	/scratch/app/product/fmw_pr	obpr_domain	obpr_server1/obpr_cluster1
obccmhost	/scratch/app/product/fmw_occm	occm_domain	occm_server1/occm_cluster1

## Memory Parameters

### 1. Batchhost:

- Admin Server: `USER_MEM_ARGS="-Xms2g -Xmx4g"`
- Managed Server: `USER_MEM_ARGS="-Xms8g -Xmx8g -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75"`

### 2. Other XD HOST:

- Admin Server: `USER_MEM_ARGS="-Xms512m -Xmx512m"`
- Managed Server: `USER_MEM_ARGS="-Xms1g -Xmx3g -XX:+UseG1GC -XX:ParallelGCThreads=8 -XX:ConcGCThreads=2 -XX:+UseStringDeduplication"`

## Batchhost Installation Steps

Following are the pre-installation steps for batchhost XD component.

### Step 1 Updating `installobphost.properties`

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

Value for below properties should be 'Y' in `installobphost.properties` for batchhost installation. For other XD host, value should be 'N'.

- `OID_FARM_AND_POLICY_SEEDING_FLAG`
- `BIP_REPORTS_UPLOADING_FLAG`

### Step 2 Checklist for a new setup

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

- Please make sure required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBLs 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`.

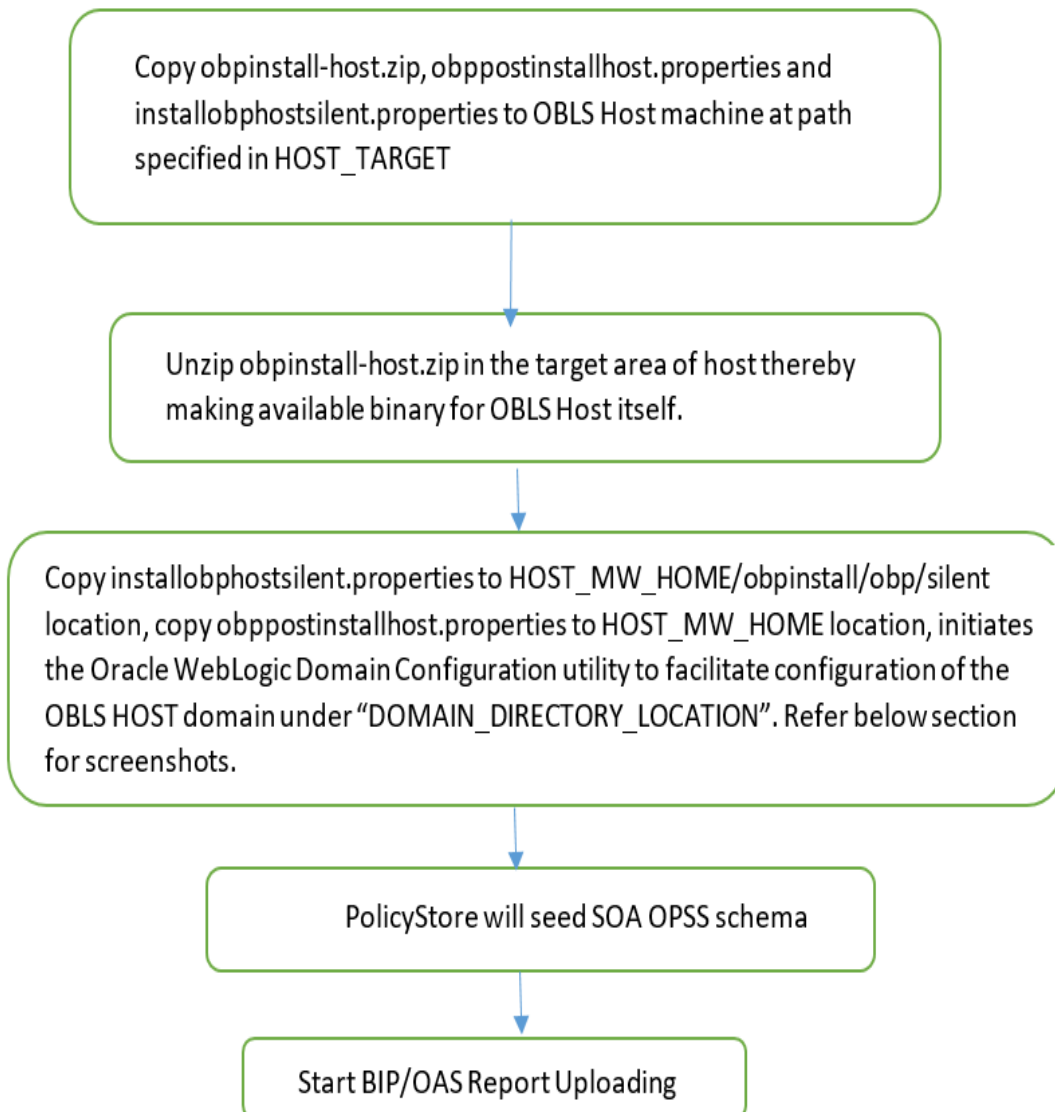
- `OID_DOMAIN_NAME` in `installobphost.properties` should match with the `OID_DOMAIN_NAME` given in `installobpui.properties`. Any other domain with the same name must not exist in OID. The domain in OID will be created in host pre-install.
- `OBP_HOST_DB_USER` and `BIP_DATASOURCE_NAME` must be same in `installobphost.properties`.
- 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 OBLS Localization 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 `installobphost.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]s ./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                        : 10.180.85.195
SOA_UNIX_USER                 : ofssobp
SOA_MW_HOME                   : /scratch/app/product/fmw
SOA_WEBLOGIC_USERNAME         : weblogic
SOA_WEBLOGIC_PASSWORD         : weblogic1
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.195
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_ECML
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)

```

OBP_HOST_DB_IP           : 10.180.87.04
OBP_HOST_DB_PORT        : 1521
OBP_HOST_DB_SERVICE_NAME : P8704A
DMS_HOST_DB_USER        : PRDHOST_MDS
DMS_HOST_DB_PASSWORD    : welcome1
DMS_HOST_DB_IP         : 10.180.87.04
DMS_HOST_DB_PORT       : 1521
DMS_HOST_DB_SERVICE_NAME : P8704A
HOST_ADMIN_JVM_PARAMS   : -Xms1024m -Xmx4096m
HOST_MANAGED_JVM_PARAMS : -Xms4096m -Xmx8192m -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75
IPM_OUTBOUND_USERNAME   : weblogic
IPM_OUTBOUND_PASSWORD   : weblogic1
BIP_OUTBOUND_USERNAME   : weblogic
BIP_OUTBOUND_PASSWORD   : weblogic1
OOI_OUTBOUND_USERNAME   : weblogic
OOI_OUTBOUND_PASSWORD   : weblogic1
OTM_OUTBOUND_USERNAME   : weblogic
OTM_OUTBOUND_PASSWORD   : weblogic1
WCM_OUTBOUND_USERNAME   : weblogic
WCM_OUTBOUND_PASSWORD   : weblogic1
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : welcome1
SAM_ISSUER_OUTBOUND_USERNAME : weblogic
SAM_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
ATMUSER_OUTBOUND_USERNAME : ATMUser
ATMUSER_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.

- 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.tpl
  inflating: /scratch/install/target/updateSystemDetails.sql.tpl
  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/JPype1-0.5.7.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
ofssohp@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 16957324 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 /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
ofssobp@10.180.85.195's password:
ofssobp@10.180.85.195's password:
ofssobp@10.180.85.195's password:
PolicyStoreSetup/
PolicyStoreSetup/lib/
PolicyStoreSetup/lib/poi-3.10.1.20140818.jar
PolicyStoreSetup/addMatrixBasedPolicies.sh
PolicyStoreSetup/PolicyStoreDiagnosticsUtility.properties
PolicyStoreSetup/PolicyStoreSetup.jar
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_xmlsec.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
oidl.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
jmsoriginatonmodule-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
```

Figure 4–15 BIP Reports Upload

```

BIP Reports are being uploaded now
ofssobp@10.100.6.143's password:
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
ofssobp@10.100.85.195's password:
ofssobp@10.100.6.143's password:
TDS001.xdoz          100% 13KB 12.8KB/s 00:00
TDS001.rtf           100% 55KB 54.7KB/s 00:00
TDS001.xdmz          100% 2168 2.1KB/s 00:00
CSWHTX00001.xdmz    100% 2249 2.2KB/s 00:00
CSWHTX00001.xdoz    100% 13KB 12.8KB/s 00:00
CSWHTX00001.rtf     100% 64KB 64.0KB/s 00:00
PL001.rtf            100% 426KB 425.5KB/s 00:00
PL001.xsl            100% 120KB 120.2KB/s 00:00
PL001.xdoz           100% 11KB 11.5KB/s 00:00
PL001.xdmz           100% 2950 2.9KB/s 00:00
PL004.rtf            100% 318KB 318.5KB/s 00:00
PL004VD.xsl         100% 98KB 98.5KB/s 00:00
PL004VD.xdoz        100% 30KB 30.0KB/s 00:00
PL004VD.xdmz        100% 2569 2.5KB/s 00:00
PL003.rtf            100% 304KB 304.1KB/s 00:00
PL003.xdoz           100% 33KB 33.2KB/s 00:00
PL003.xsl            100% 83KB 83.4KB/s 00:00
PL003.xdmz           100% 2425 2.4KB/s 00:00
PL008.xsl            100% 82KB 82.1KB/s 00:00
PL008.xdmz           100% 2688 2.6KB/s 00:00
PL008.xdoz           100% 25KB 24.9KB/s 00:00
PL008.rtf            100% 264KB 264.3KB/s 00:00
PL009.xsl            100% 66KB 65.9KB/s 00:00
PL009.xdmz           100% 2421 2.4KB/s 00:00
PL009.rtf            100% 280KB 280.2KB/s 00:00
PL009.xdoz           100% 28KB 28.2KB/s 00:00
PL011.xsl            100% 75KB 75.1KB/s 00:00
PL011.xdmz           100% 2077 2.0KB/s 00:00
PL011.rtf            100% 304KB 304.3KB/s 00:00
PL011.xdoz           100% 30KB 29.9KB/s 00:00

```

Figure 4–16 BIP Reports Upload (contd)

```
ofssobp@10.180.6.143's password:
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
Archive: /scratch/app/product/fmw_bip/bi/clients/bipublisher/reportscripts.zip
  inflating: /scratch/app/product/fmw_bip/bi/clients/bipublisher/ngpUploadReports.sh
  inflating: /scratch/app/product/fmw_bip/bi/clients/bipublisher/ngpUpdateUrlAndDataSource.sh
mkdir: cannot create directory 'fc_lib': File exists
[import] Connect to http://10.180.6.143:9502/xmlpserver/ using weblogic
May 10, 2018 3:20:14 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BR106.xdmz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob_reports/ob_reports/TP/BR106" to "~weblogicOBP/R262INSTALLER/ob_reports/TP/BR106/BR106.xdm"
[import] Connect to http://10.180.6.143:9502/xmlpserver/ using weblogic
May 10, 2018 3:20:15 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BR106.xdoz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob_reports/ob_reports/TP/BR106" to "~weblogicOBP/R262INSTALLER/ob_reports/TP/BR106/BR106.xdo"
[import] Connect to http://10.180.6.143:9502/xmlpserver/ using weblogic
May 10, 2018 3:20:16 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BR105.xdoz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob_reports/ob_reports/TP/BR105" to "~weblogicOBP/R262INSTALLER/ob_reports/TP/BR105/BR105.xdo"
[import] Connect to http://10.180.6.143:9502/xmlpserver/ using weblogic
May 10, 2018 3:20:17 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BR105.xdmz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob_reports/ob_reports/TP/BR105" to "~weblogicOBP/R262INSTALLER/ob_reports/TP/BR105/BR105.xdm"
```

Figure 4–17 BIP Reports Upload (contd)

```

May 10, 2018 3:28:14 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BUNDLEEEARN.xdmz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BUNDLEEEARN" to "~weblogicOBP/R262IN
STALLER/ob.reports/BN/BUNDLEEEARN/BUNDLEEEARN.xdm"
[import] Connect to http://10.180.6.143:9502/xmlpservlet/ using weblogic
May 10, 2018 3:28:15 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BUNDLEEEARN.xdoz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BUNDLEEEARN" to "~weblogicOBP/R262IN
STALLER/ob.reports/BN/BUNDLEEEARN/BUNDLEEEARN.xdo"
[import] Connect to http://10.180.6.143:9502/xmlpservlet/ using weblogic
May 10, 2018 3:28:16 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BUNDLEEXCP.xdmz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BUNDLEEXCP" to "~weblogicOBP/R262IN
STALLER/ob.reports/BN/BUNDLEEXCP/BUNDLEEXCP.xdm"
[import] Connect to http://10.180.6.143:9502/xmlpservlet/ using weblogic
May 10, 2018 3:28:17 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BUNDLEEXCP.xdoz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BUNDLEEXCP" to "~weblogicOBP/R262IN
STALLER/ob.reports/BN/BUNDLEEXCP/BUNDLEEXCP.xdo"
[import] Connect to http://10.180.6.143:9502/xmlpservlet/ using weblogic
May 10, 2018 3:28:18 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BEFEES.xdoz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BEFEES" to "~weblogicOBP/R262INSTALLER/
ob.reports/BN/BEFEES/BEFEES.xdo"
[import] Connect to http://10.180.6.143:9502/xmlpservlet/ using weblogic
May 10, 2018 3:28:19 AM org.apache.axis.utils.JavaUtils isAttachmentSupported
WARNING: Unable to find required classes (javax.activation.DataHandler and javax.mail.internet.MimeMultipart). Attachment support is disabled.
[import] Import "BEFEES.xdmz" from "/scratch/app/product/fmw_bip/bi/clients/obpdeploy/ob.reports/ob.reports/BN/BEFEES" to "~weblogicOBP/R262INSTALLER/
ob.reports/BN/BEFEES/BEFEES.xdm"
.....

```

Similar to above, perform pre-installation for other XD components.

If you are creating multiple domains on same VM, then change fmw path, domain path, ports, node manager port and so on.

OID POLICY SEEDING and BIP Reports upload will be done only once during batchhost installation.

#### 4.1.4 Front End Processing Interface (FEPI) Installation Steps

Following are the basic steps for FEPI installation procedure:

##### Step 1 Installation

The installer will create a directory structure for FEPI as /scratch/app/product/fmw/obpinstall/obp/fepi

1. Change the paths in FEPI start scripts based on the environment.
2. Modify Start\_fepi\_atm.sh and Start\_fepi\_pos.sh located at /scratch/app/product/fmw/obpinstall/obp/fepi/scripts.
3. Change the property values in channels\_atm.properties and channels\_pos.properties based on the environment as follows:

**Table 4–3 Properties**

Property	Description	Example
BANK_CODE	Indicates the bank code	BANK_CODE=335
LISTENER_PORT	The port number on which FEPI server accepts incoming ISO message requests	LISTENER_PORT=9999
COMMAND_PORT	The port number on which FEPI server accepts command message Note: Need to specify an available valid port number, so that FEPI starts; it is a feature of native code and currently no messages are sent.	COMMAND_PORT=9998
ISO_TRACE_FILE_AREA	The location for ATM Trace logs	ISO_TRACE_FILE_AREA=/scratch/app/product/fmw/obpinstall/obp/fepi/logs/ATMTRACE
FNDI.FJ.java.naming.provider.url	The IP address and port number on which WebLogic accepts requests	FNDI.FJ.java.naming.provider.url=t3://10.180.9.108:7001

4. Start ATM and POS FEPI.
5. On prompt enter WebLogic login credentials. For example, \$ sh start\_fepi\_atm.sh.

### Step 2 ATM and POS Trace logs

The Trace logs are available in the logs folder. For example, the trace logs can be located at /oracle/deployables/iut2/fepi/logs.

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

### Step 3 module.channel or cz.module.channel enabling of logs

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

### Step 4 Multiple Instances

Currently, there are two instances of FEPI which are ATM and POS. Each instance has the following set of individual files along with the common shared files. For example, for the ATM FEPI server, the files are as follows:

**Table 4–4 Examples of files**

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

## 4.2 Post Installation Configuration

This section describes the post installation configuration procedure for OBLS Localization Host Media Pack. The procedure can be started after 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 creating and 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/obphostdomain/bin
./startWebLogic.sh
```

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

**Figure 4–18 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 OBLS 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

---

**Note**

Ensure that Oracle IPM application is running as during post install of OBLS host. There is a call to the same for creating OBLS content applications.

---

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 4–19 Host Domain Post Installation Script Execution**

```
[ofssobp@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              : ofssobp
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               : ofssobp
UI_DOMAIN_HOME             : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                 : ofssobp
BIP_UNIX_USER              : ofssobp
BIP_HOME                   : /scratch/app/product/fmw_bip/bi
BIP_SERVER_IP              : 10.180.6.143
BIP_SERVER_PORT            : 9502
```

**Figure 4–20 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        : ofsaam-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 4–21 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 4–22 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                               100% 16MB 15.5MB/s 00:00
bpm-services.jar copied from SOA machine
ofssobp@10.180.85.159's password:
soa-infra-mgmt.jar                             100% 1661KB 1.6MB/s 00:00
soa-infra-mgmt.jar copied from SOA machine
ofssobp@10.180.85.159's password:
orabpel.jar                                    100% 6929KB 6.8MB/s 00:00
bpm-services.jar copied from SOA machine
ofssobp@10.180.85.159's password:
tracking-api.jar                              100% 24KB 24.3KB/s 00:00
bpm-services.jar copied from SOA machine
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:
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
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 4–23 Host Domain Post Installation Script Execution Summary

```

/APP-INF/lib/com.offs.fc.enumeration.communications.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.wsdli.external.recovery.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.wsdli.client.recovery.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.client.proxy.collection.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.appx.client.proxy.recovery.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.client.proxy.recovery.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.wsdli.external.collection.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.appx.client.proxy.collection.jar:/scratch/app/product/fmw/obinstall/obp/ob.host.client/ob.app.client.coll/APP-INF/lib/com.offs.fc.wsdli.client.collection.jar:/scratch/app/product/fmw/wlserver/..oracle.common/modules/oracle.odl/ojdl.jar:/scratch/app/product/fmw/wlserver/..oracle.common/modules/oracle.dms/dms.jar -Duser.home=/scratch/app/product/fmw/obinstall/obp/config -Dfc.io.dir=/scratch/app/product/fmw/obinstall/obp -Dfc.log.dir=/scratch/app/product/fmw/obinstall/obp -Djava.util.logging.config.class=oracle.core.ojdl.logging.LoggingConfiguration -Doracle.core.ojdl.logging.config.file=/scratch/app/product/fmw/obinstall/obp/config/nonweblogic/logging.xml -Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl -Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.xpath.internal.jaxp.DocumentBuilderFactoryImpl -Xms512m -Xmx1024m -XX:MaxPermSize=512M com.offs.fc.domain.rule.utils.RuleDeploymentUtilityServer CMD_UPGRADE_ALL_FILTERS jdbc:oracle:thin:@10.100.07.84:1521/P87844_OBP262_welcome1
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 SystemResource Directory/resourceDirectory: /scratch/app/product/fmw/obinstall/obp/config/.esapi/ESAPI.properties
Loaded 'ESAPI.properties' 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 SystemResource Directory/resourceDirectory: /scratch/app/product/fmw/obinstall/obp/config/.esapi/validation.properties
Loaded 'validation.properties' properties file
Server: Could not initialize class com.offs.fc.infra.das.orm.DataAccessManager
Rule Utility executed successfully. Refer OBP host log for details
Press any key to continue...
[offsobp@um80adh fmw]$ █

```

Here during post installation part, at last execute libovdadapterconfig script to create two adapters from the template and during execution, it will prompt for password. Pass weblogic console password (for example: weblogic1)

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 after verifying details as mentioned in [Section 1.3 REST \(SWAGGER\) Deployment Check](#) to check the domain configuration status as described in verification part in [Section 11.2 Host Domain Verification](#).

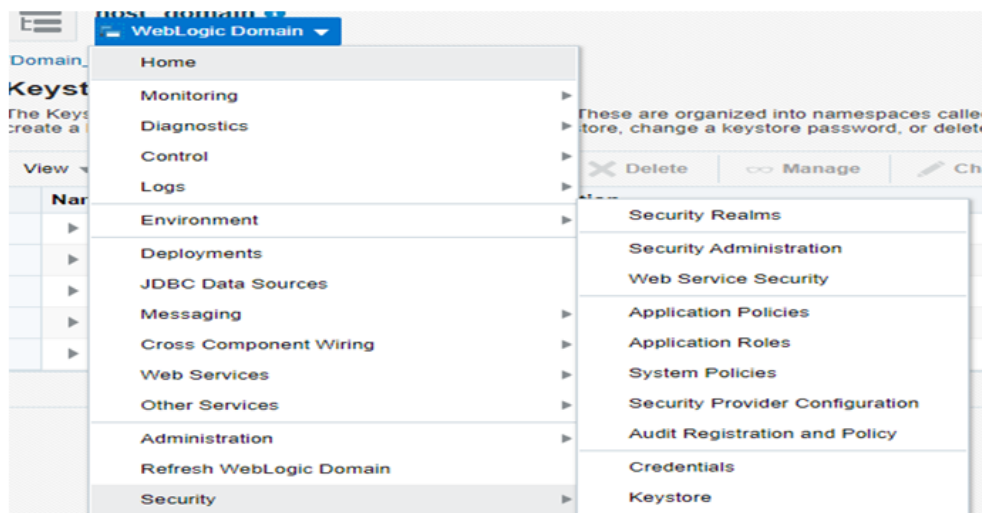
Similar to the above batchhost post installation, perform post installation for other XD components.

## 4.3 REST (SWAGGER) Deployment Check

This section lists the steps to check REST API deployment. REST API deployment has already been done in [Section 4.2 Post Installation Configuration](#). Verify the following points that are part of batchhost installation:

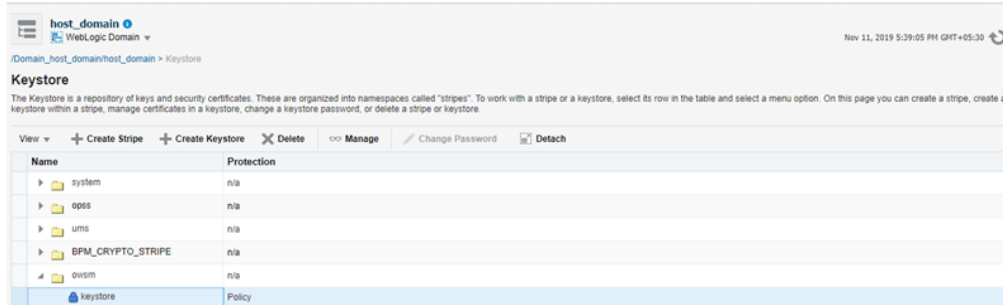
1. OWSM keystore creation on HOST EM: It is a part of host post installation. Verify if OWSM is present on HOST EM console. If not, then create it.
  - a. Log in to HOST EM and click weblogin domain > security > keystore.

**Figure 4–24** Navigate to Keystore



- b. Create Stripe 'OWSM'.
- c. Create KeyStore 'keystore' under OWSM.

**Figure 4–25 Create Keystore**



- d. Click Manage and generate Keypair using the following values:
  - Alias: orakey
  - Common name: orakey
  - Organizational Unit: Oracle Cloud for Industry
  - Organization: Oracle Corporation
  - City: Redwood Shores
  - State: California
  - Country: United States

**Figure 4–26 Generate Keypair**

2. jax-rs library deployment on host console.
3. Host IP with port will be present in json/yaml files under \$MW\_HOME/obpinstall/obp/OBPAPI/yaml.
4. OBPAPI folder present under \$MW\_HOME/obpinstall/obp and it gets deployed as a war on host.

**Figure 4–27 OBPAPI deploy on obphost\_cluster1**

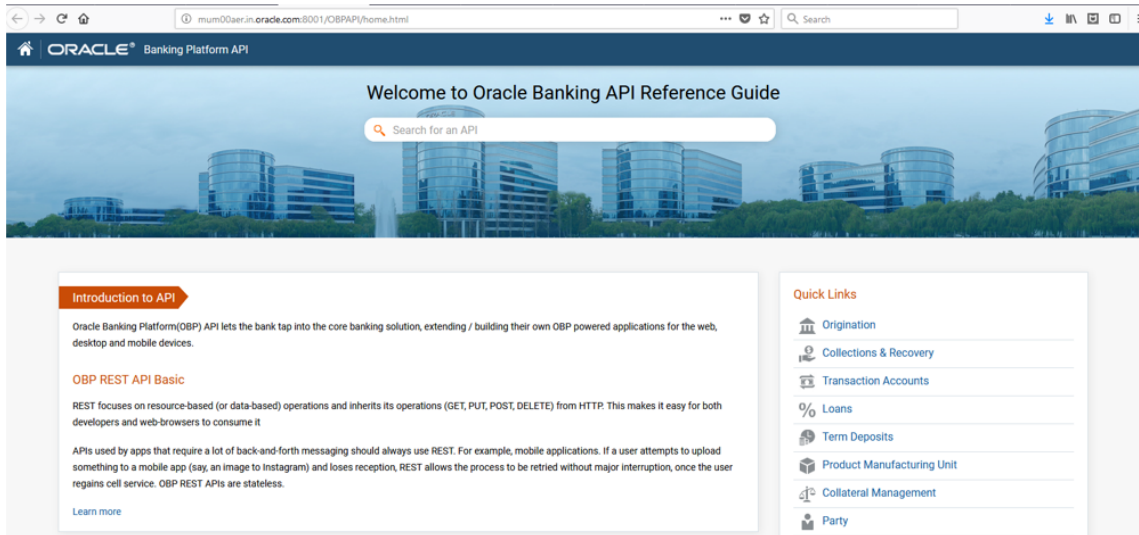
ob.app.host.tp.cz(2.7.0.0.0,2.7.0.0.0)	Active		Library	obphost_server1	Global		100
OBPAPI	Active	OK	Web Application	obphost_cluster1	Global		100
od.didhistory(1.0,12.2.1)	Active		Library	AdminServer, obphost_cluster1	Global		100
od.didhistory.webapp(1.0,12.2.1)	Active		Library	AdminServer, obphost_cluster1	Global		100

5. After completion of the above steps, restart the HOST managed server to reflect the changes.

[http://\\$HOSTIP:\\$HOSTPORT/OBPAPI/home.html](http://$HOSTIP:$HOSTPORT/OBPAPI/home.html)



Figure 4–28 REST API





# 5 OBLS Localization Presentation Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Loans Servicing Localization Presentation (UI) Media Pack. The subsequent section refers to the variable names specified in [Section 2.4 Installation Checklist](#).

## 5.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Loans Servicing Localization Presentation Media Pack.

### 5.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Loans Servicing Localization 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 'obpus-ui.zip' or 'obpau-ui-soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Three files will be extracted:

- A zip file 'obpinstall-ui-soa.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 2.4 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 Loans Servicing Localization Presentation Media Pack installation.

For OBLS, SOA is optional.

Use flag "IS\_SOA\_INSTALLED=Y" if SOA pre-installation is done or "IS\_SOA\_INSTALLED=N" if SOA is not required.

The procedure can be started after SOA pre-installation steps are executed and set flag "IS\_SOA\_INSTALLED=Y"

and if "IS\_SOA\_INSTALLED=N" , the procedure can be started after HOST pre-installation steps are executed.

### Step 1 Updating installobpui.properties

Navigate to the directory where the files obpinstall-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

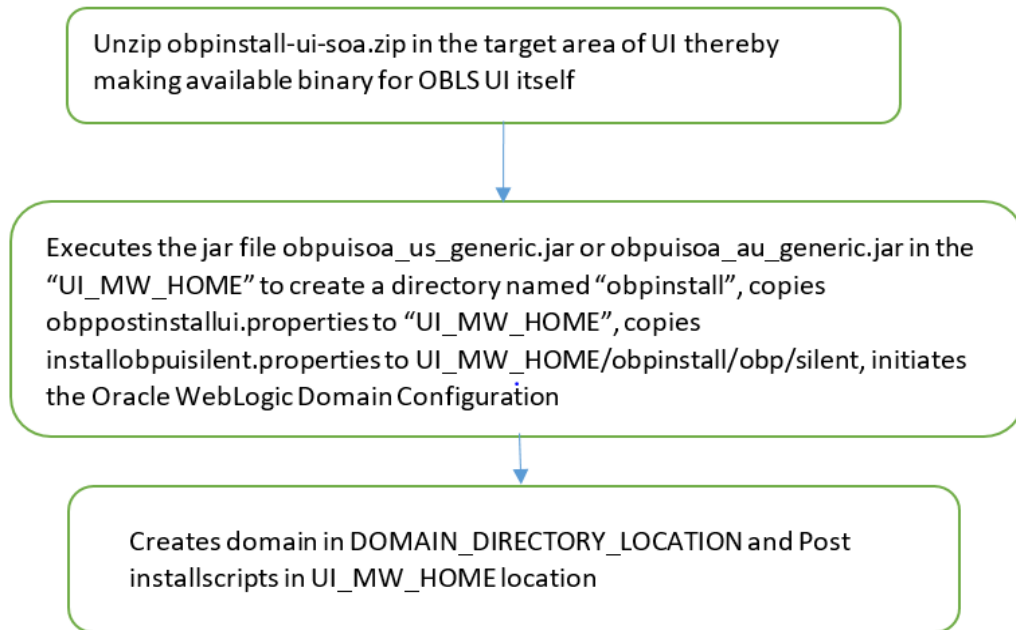
Before initiating installation on a completely new setup, check the following:

- Make sure required RCU schemas have been created. For more information, see [Section 6.1 Pre-Installation Steps](#) and [Section 6.2 OBL 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 Loans Servicing Localization 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@mum00adi 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                               100% 649MB 216.3MB/s 00:03
installobpuiilent.properties                   100% 1241  1.2KB/s 00:00
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 obpininstall-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)
Install successful 98% Done.

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

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.
[ofsobp@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 Loans Servicing Localization 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:
```

**Figure 5–9 UI Admin Server Running**

```
FMMProv: 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/console/status.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 BD 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 DB 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 88 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 iiops,
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 iiop, 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 iiops,
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@mum00ad1: 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 : welcome1
CARD_USERNAME           : orakey
CARD_PASSWORD           : welcome1
RULE_USERNAME           : orakey
RULE_PASSWORD           : welcome1
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 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]$ █

```

Here during post installation part, at last execute libovdadapterconfig script to create two adapters from the template and during execution, it will prompt for password. Pass weblogic console password (for example: weblogic1).

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
8. Restart UI admin and UI managed server.



# 6 Standalone Database Setup

This chapter details the steps involved in setting up Oracle Banking Loans Servicing 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 Loans Servicing DB mentioned in [Section 6.2 OBLs Database Setup – RCU Installation](#):

1. Oracle Database Enterprise Edition 19c must be installed on the database server.
2. Obtain the tar file dbScripts\_us.tar.gz or dbScripts\_au.tar.gz (present in obpau-host.zip) from OBLs Host localization media pack and copy it onto the database server.
3. Ensure that the ONS service is started after DB installation where the OBLs Application schema needs to be created.

## 6.2 OBLs Database Setup – RCU Installation

The steps that should be performed to create the OBLs 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 (note that 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
  - SOA\_WLS\_RUNTIME
- 
- UI\_STB
  - UI\_OPSS
  - UI\_MDS
  - UI\_IAU\_APPEND

- UI\_IAU\_VIEWER
- UI\_WLS\_RUNTIME
  
- HOST\_STB
- HOST\_OPSS
- HOST\_IAU\_APPEND
- HOST\_IAU\_VIEWER
- HOST\_MDS
- HOST\_WLS\_RUNTIME

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 OBLS 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\_us.tar.gz or dbScripts\_au.tar.gz file (present in obpau.host.zip) from OBLS Host media pack location to any machine where sqlplus is available.

Untar the 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

Now 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 while was 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_OBP/welcome1@OBPDB
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 OBP tables are present.

### 6.3.3 HOST DB Schema Seeding

This section provides information on the Host Database Schema Seeding. The procedure is as follows:

Now 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_OBP/welcome1@OBPDB
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 OBLS DB seeding is completed, the control will return to the sql prompt.

---

#### Note

If you are going to install localization on top of product, DO NOT execute ddl and seed of product, execute ddl and seed which are present under localization host mediapack in form of dbscripts\_au.tar.gz and dbScripts\_us.tar.gz.

---

### 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_OBP@welcome1@OBPDBB
D:\seed > @updateSystemDetails.sql
```

For enabling Local Policy Store instead of OPSS(For this there is flag 'LOCAL\_SECURITY\_ENABLED=Y' in host and ui properties file, which must be true during host and ui installation):

```
UPDATE FLX_FW_CONFIG_ALL_B SET PROP_VALUE = 'SQL' WHERE CATEGORY_ID =
'SecurityConstants'
```

```
AND PROP_ID = 'AuthorizationServiceProvider';
```

**Figure 6–1 UPDATE FLX\_FW\_CONFIG**

PROP_ID	CATEGORY_ID	PROP_VALUE	FACTORY_SHIPPED_FLAG	PROP_COMMENTS	SUMMARY_TEXT
AuthorizationServiceProvider	SecurityConstants	SQL	Y	Indicates the authorization service provider. It can be OES or OPSS. Midd	AuthorizationServiceProvider OPSS

For enabling local role based menu:

```
UPDATE flx_fw_config_all_b SET prop_value = 'FILE' WHERE prop_id = 'ui.menu.provider';
```

```
UPDATE flx_fw_config_all_b SET prop_value = 'DB' WHERE prop_id = 'ui.menu.source';
```

Verify using below query

```
Select * from flx_fw_config_all_b WHERE prop_id IN ('ui.menu.provider','ui.menu.source');
```

**Figure 6–2 Query Result**

PROP_ID	CATEGORY_ID	PROP_VALUE	FACTORY_SHIPPED_FLAG	PROP_COMMENTS	SUMMARY_TEXT	CREATED_E
ui.menu.provider	UiConfig	FILE	Y	Menu provider: FILE/OPSS	ui.menu.provider OPSS Menu provider: FILE/OPSS UiConfig	ofssuser
ui.menu.source	UiConfig	DB	Y	Menu source: FILE/DB	ui.menu.source FILE Menu source: FILE/DB UiConfig	ofssuser

### 6.3.5 Removing Preference Refresh Level

OBLS Preferences are held in the weblogic servers in the form of a cache which is refreshed at a configurable interval. As part of installation, the preferences are declared in a file called Preferences.xml in the "config" folder. These preference values are mostly technical in nature and are seldom changed in production.

Hence, majority of OBLS customers have configured to disable preference refresh. This is done by setting "syncTimeInterval" to -1 on the target preference. Customers should deliberate and take a decision on the preferences for which they wish to disable the refresh.

For example:

```
<Preference name="MiddlewareTaskMetadataDTOFieldConfig"
PreferencesProvider="com.ofss.fc.infra.config.impl.DBBasedPropertyProvider"
    parent="jdbcpreference"
    propertyFileName="SELECT SERVICE_ID || ':' || DTO_CLASS || ':' ||
COD_ATTR_ID valuekey, FIELD_NAME AS valuestring FROM flx_fw_mw_tasks_dto_map"
    syncTimeInterval="-1" />
```

### 6.3.6 Database Table Partitioning

For Database Table Partitioning, execute the scripts present in Table\_Partitioning.zip present in host.zip. Execute the script in sequence and follow the guidelines mentioned in the script.

1. OBP\_PARTITION\_TABLE.sql
2. OBP\_PARTITION\_TABLE\_SEED.sql
3. APPLY\_PARTITION.sql

### 6.3.7 Enable Native Workflow

By default, the native workflow processes will be disabled. It can be enabled by changing the preference value to Y as follows:

Execute the below query in application schema.

```
update FLX_FW_CONFIG_ALL_B c set c.prop_value = 'Y' where c.category_id = 'Workflow'
and c.prop_id = 'IsLocalWorkflowEnabled';
```

The native workflow processes deployment is part of batch host installation. Below sh file executes during post deployment of batch host:

- party\_deploy\_all\_processes.sh

# 7 OBLs and IPM Integration

This chapter details the steps involved in the integration of Oracle Banking Loans Servicing and Oracle Imaging and Process Management (IPM).

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

- [Section 7.1 IPM Application Setup for OBLs 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 OBLs. 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 OBLs Content Management

This is a mandatory configuration required on IPM to enable integration of OBLs 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

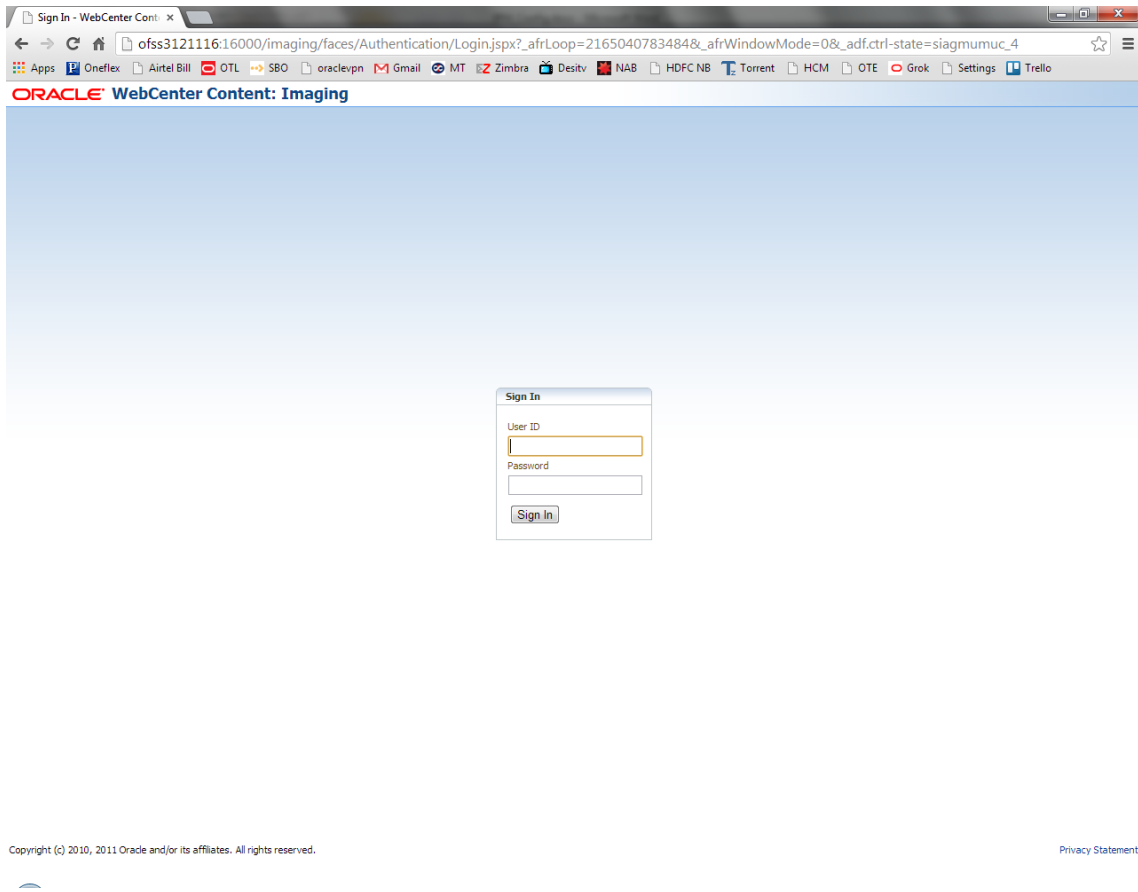
The UCM connection is used to point to the underlying UCM Server where the documents are stored.

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

`http://hostname:16000/imaging`

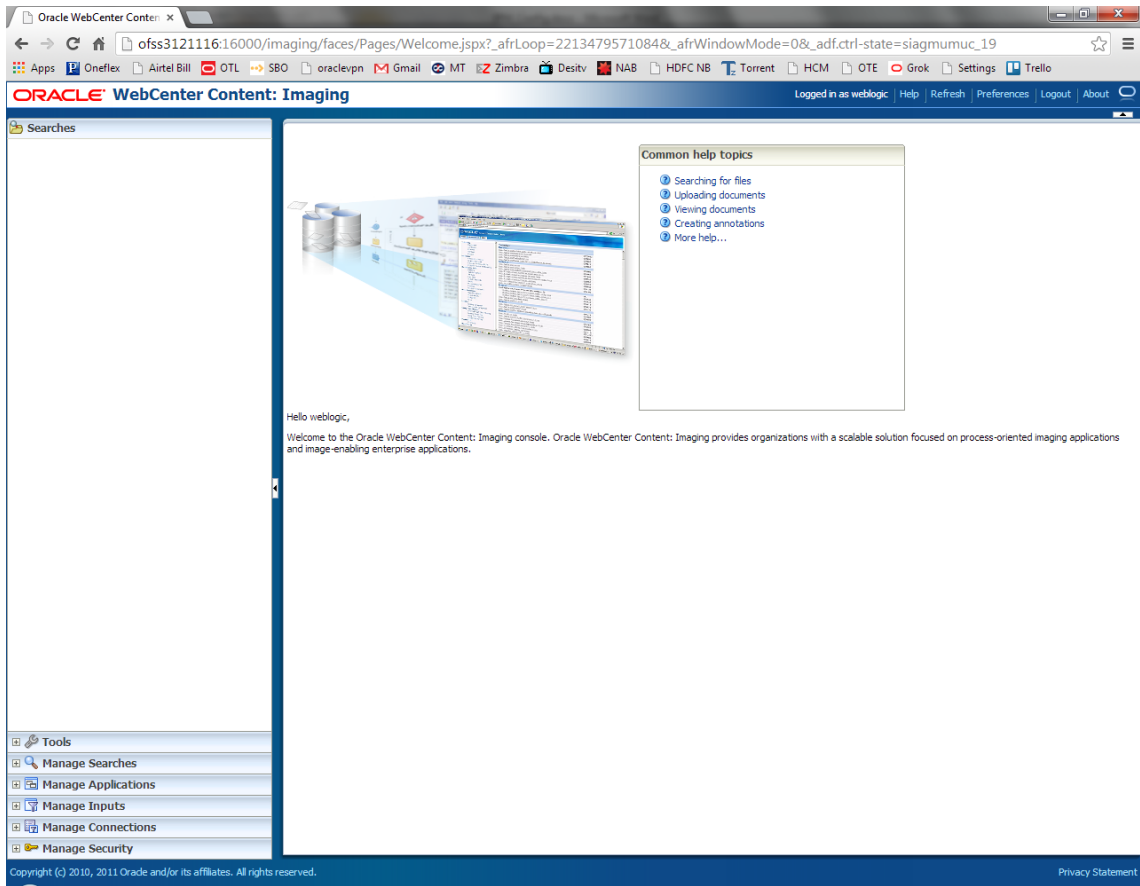


Figure 6–3 IPM Imaging Console - Login page



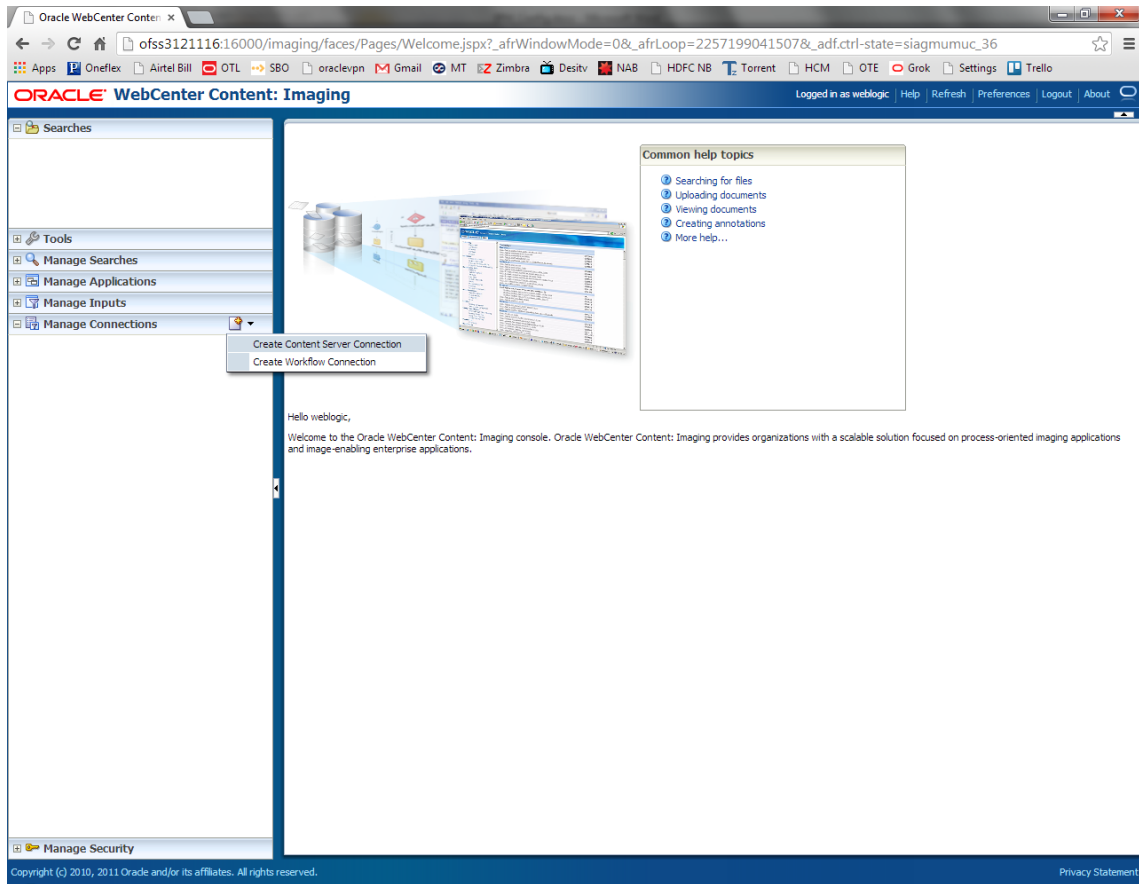
2. Enter the user ID and password set during IPM installation.

Figure 6–4 IPM - Welcome page



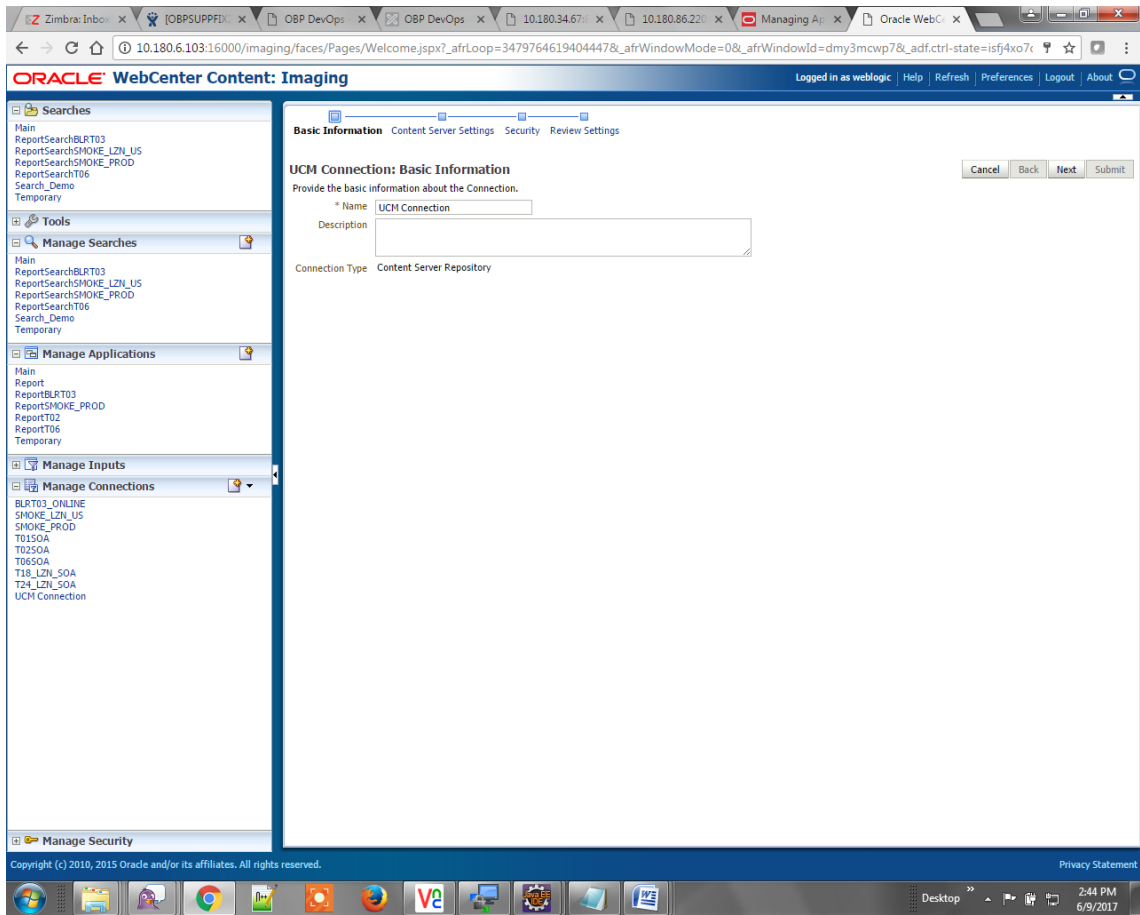
3. Navigate to Manage Connection and select Create Content Server Connection.

Figure 6–5 Create Content Server Connection



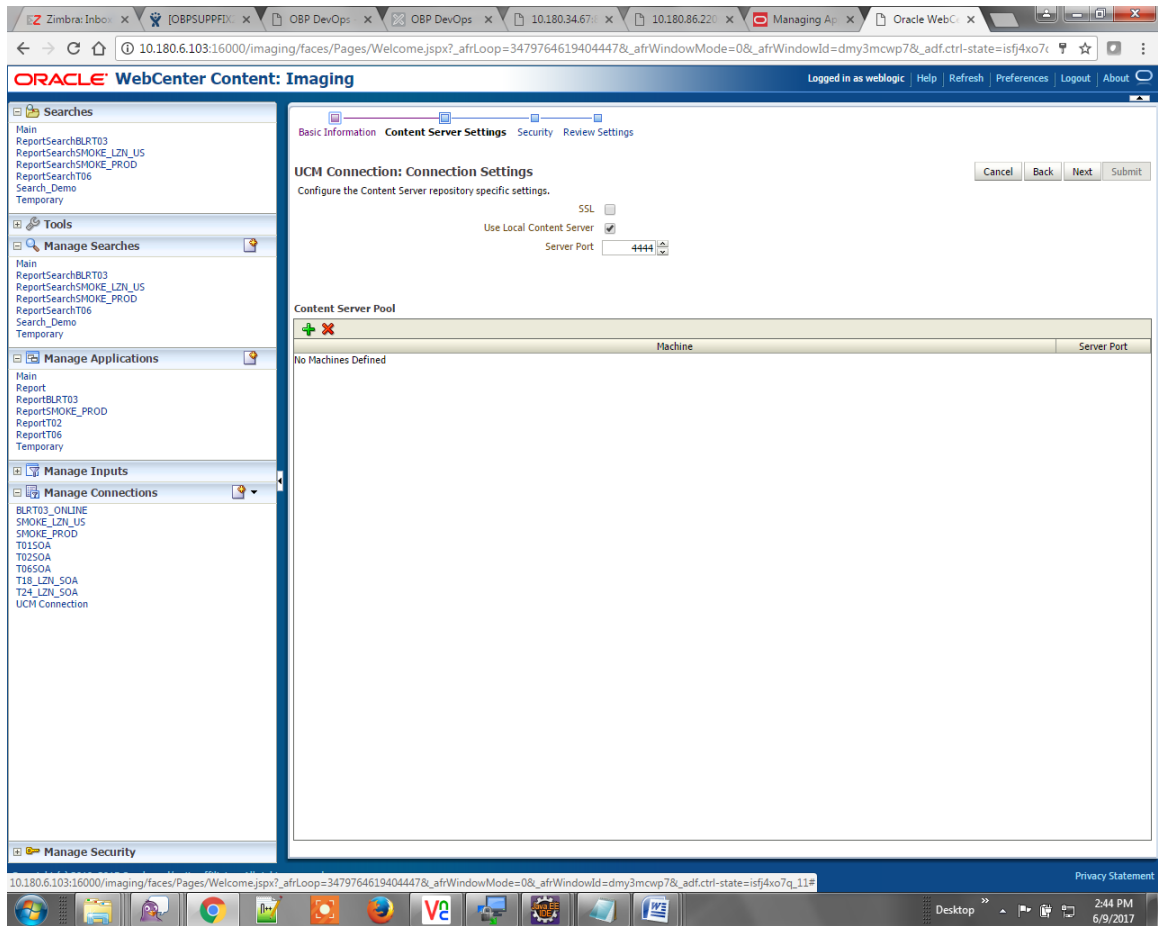
4. In the Basic Information stage, enter the name and description for Content Server Connection as UCM Connection and click Next.

Figure 6–6 UCM: Basic information



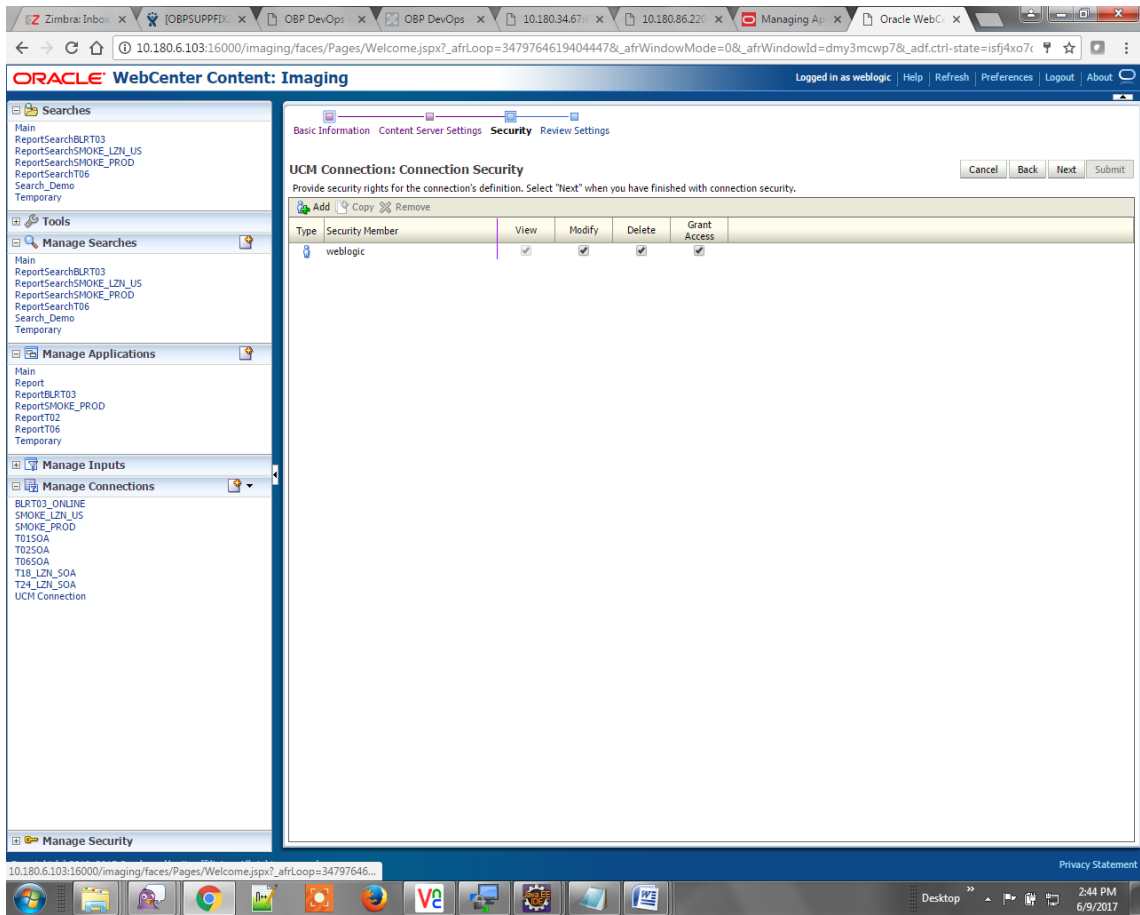
5. In the Content Server Settings page, select the Use Local Content Server check box and select the Server Port as 4444. Click Next.

Figure 6–7 UCM: Connection Settings



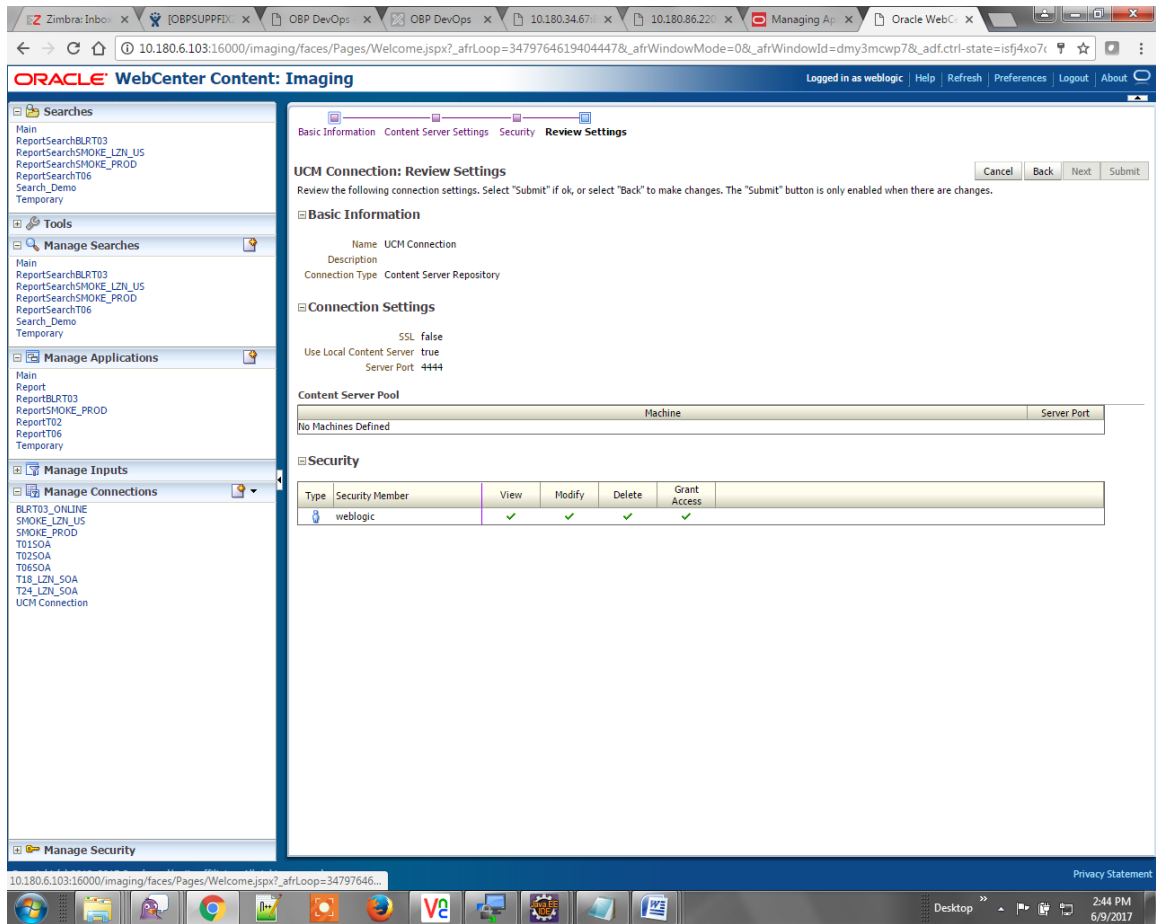
- In the Security stage, select security rights for connection definition as shown below and click Next. If weblogic security member is not present, create it by clicking Add.

Figure 6–8 UCM: Connection Security



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

Figure 6–9 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/en/middleware/webcenter/content/12.2.1.4/admin-image/managing-applications.html#GUID-4A1A138D-FFEC-4FBB-A6D3-7F4FA4BDE06A>.

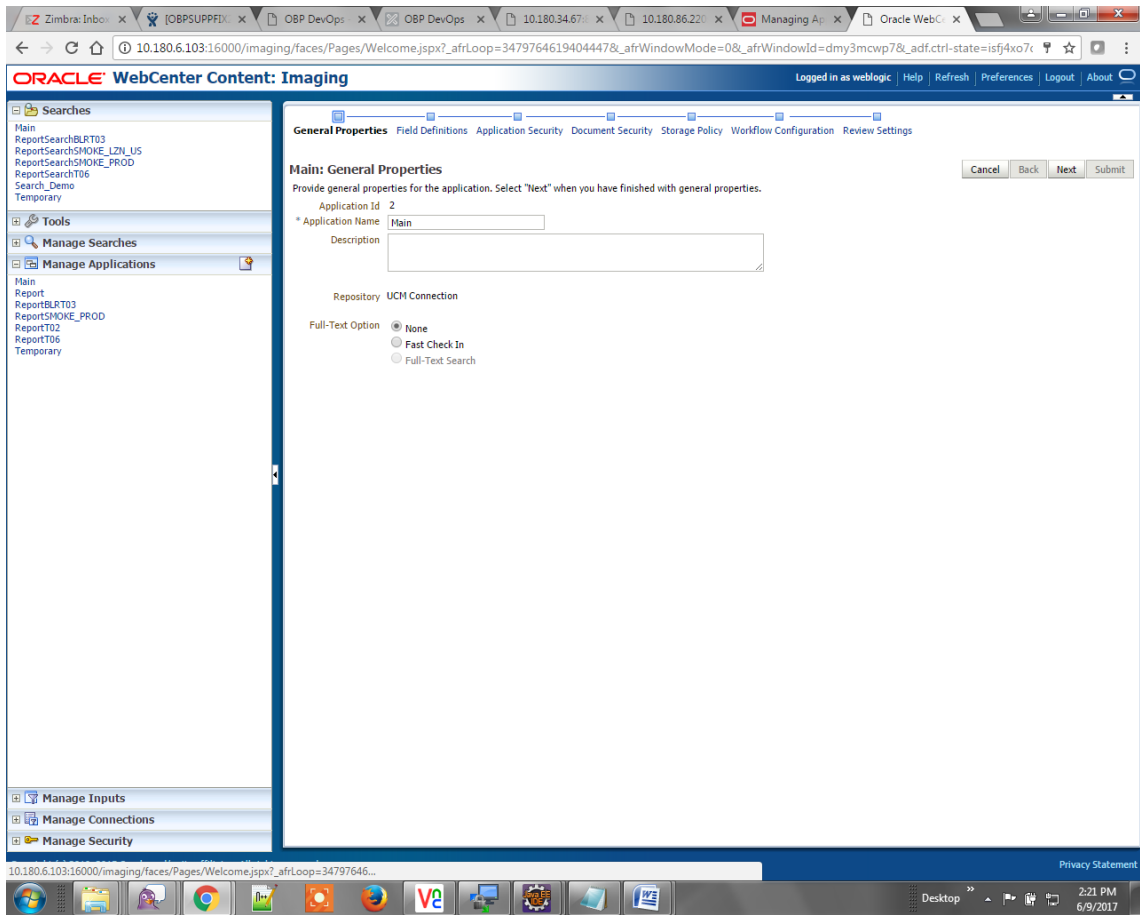
Create a main application and a temporary application in IPM.

### 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 6–10 Main: General Properties



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



Figure 6–11 Main: Field Definitions

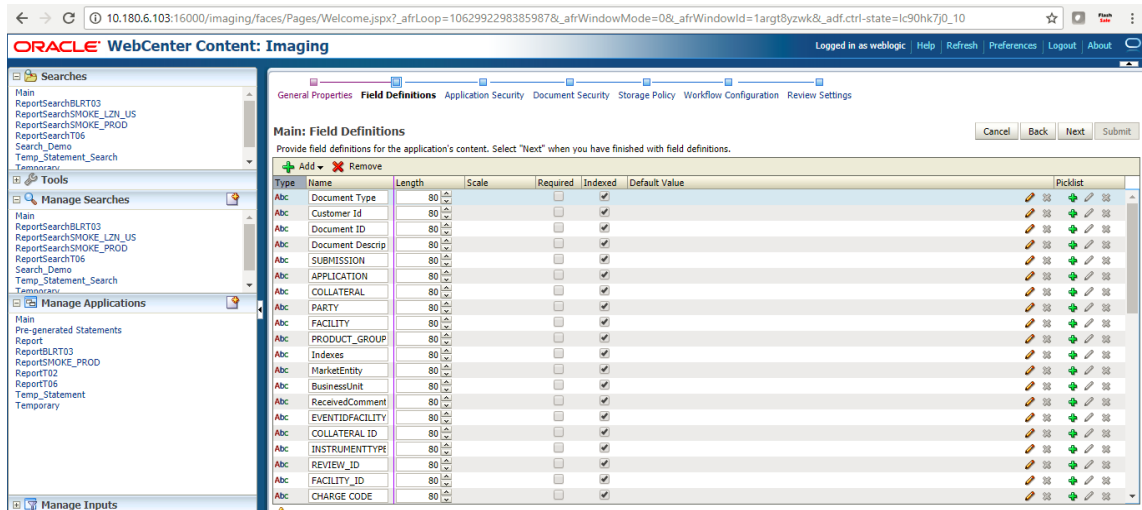
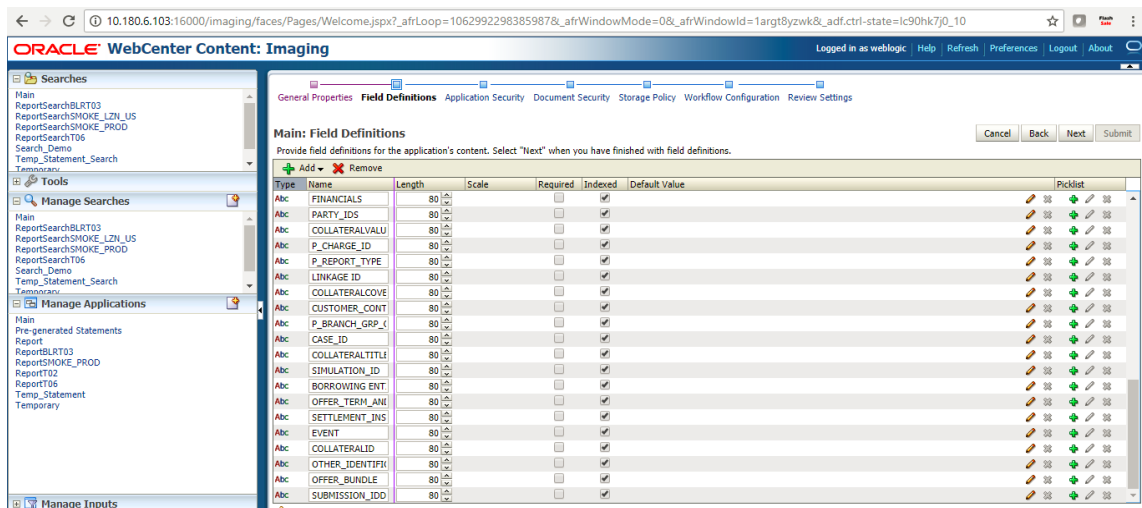


Figure 6–12 Field Definitions (cont.)



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

Figure 6–13 Main: Application Security

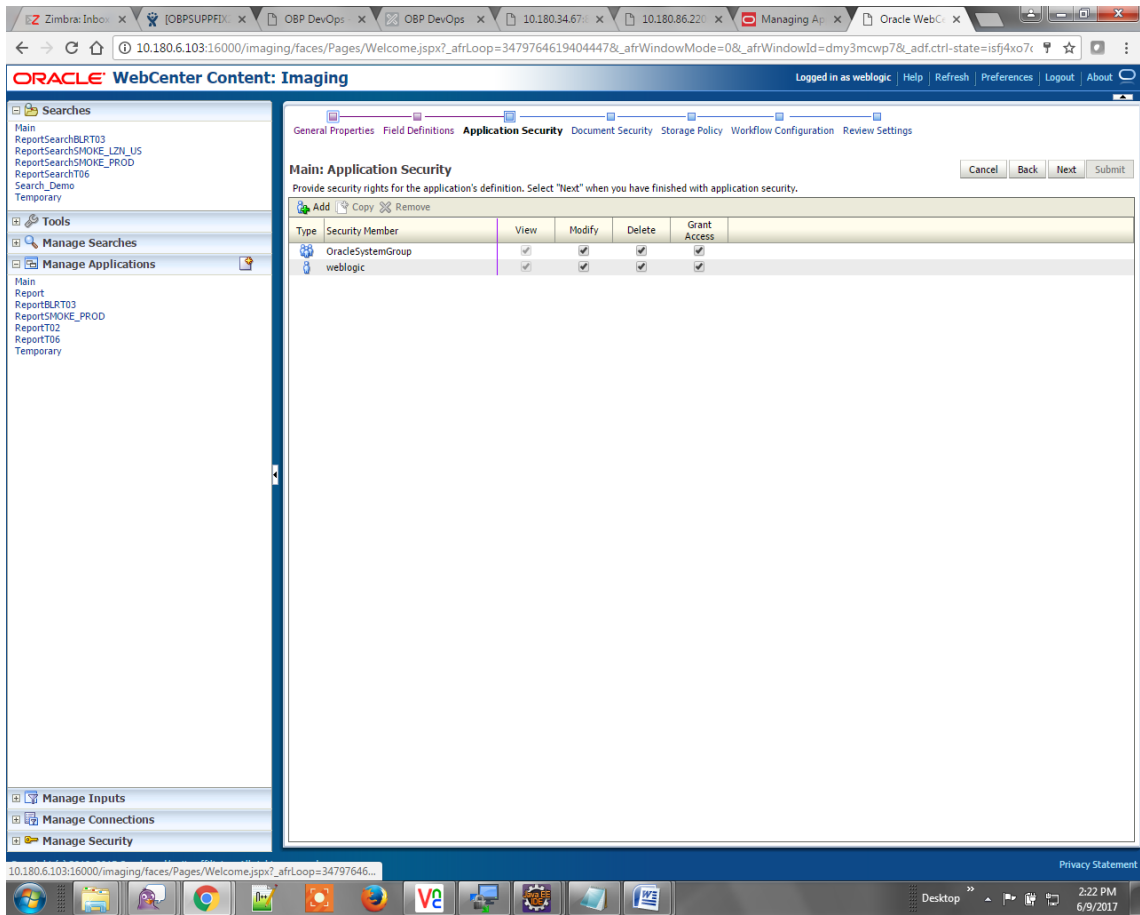


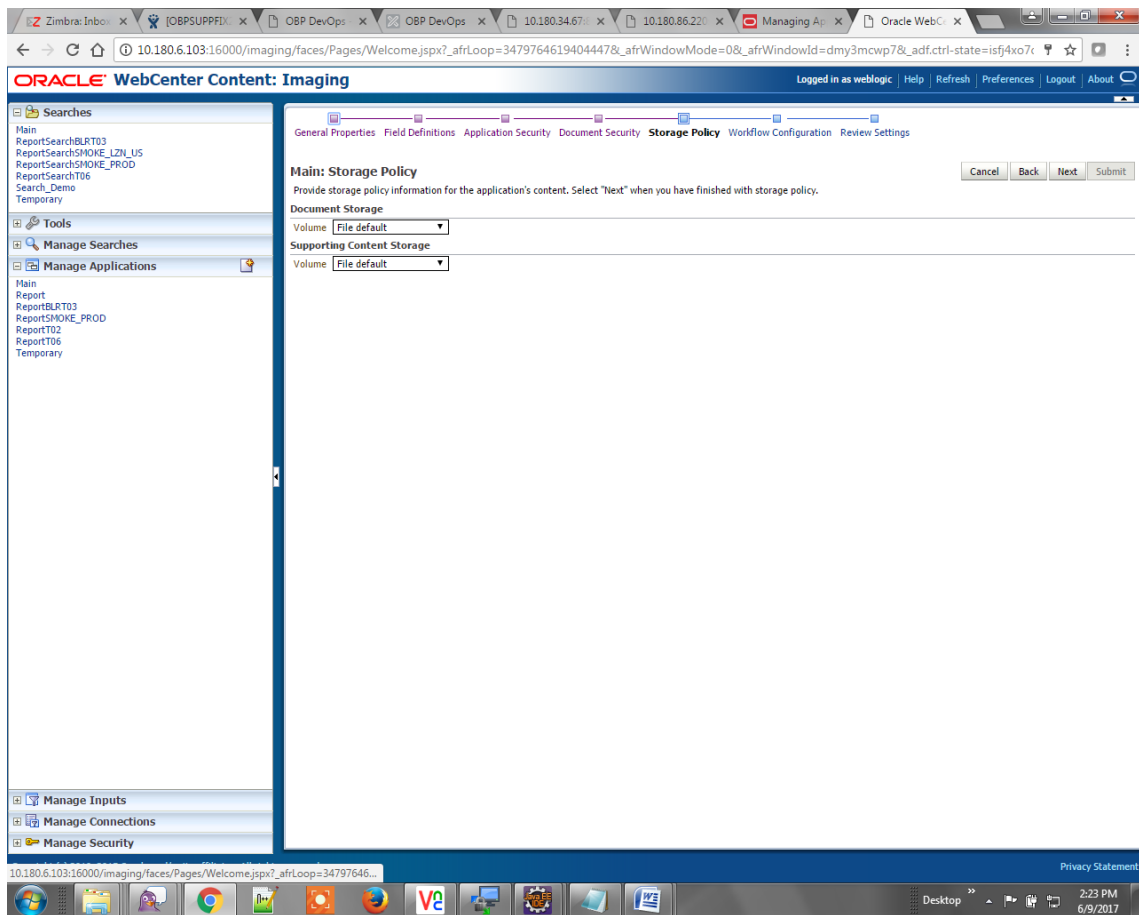
Figure 6–14 Main: Document Security

The screenshot displays the Oracle WebCenter Content: Imaging interface. The main content area is titled "Main: Document Security" and includes a table for configuring security rights. The table has columns for "Type", "View", "Write", "Delete", "Grant Access", "Lock Admin", "Annotate Standard", "Annotate Restricted", and "Annotate Hidden". Two roles are listed: "Administrators" and "Operators".

Type	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annotate Restricted	Annotate Hidden
Administrators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Figure 6–15 Main: Storage Policy**



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

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

**Figure 6–16 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	✓	✓	✓	✓

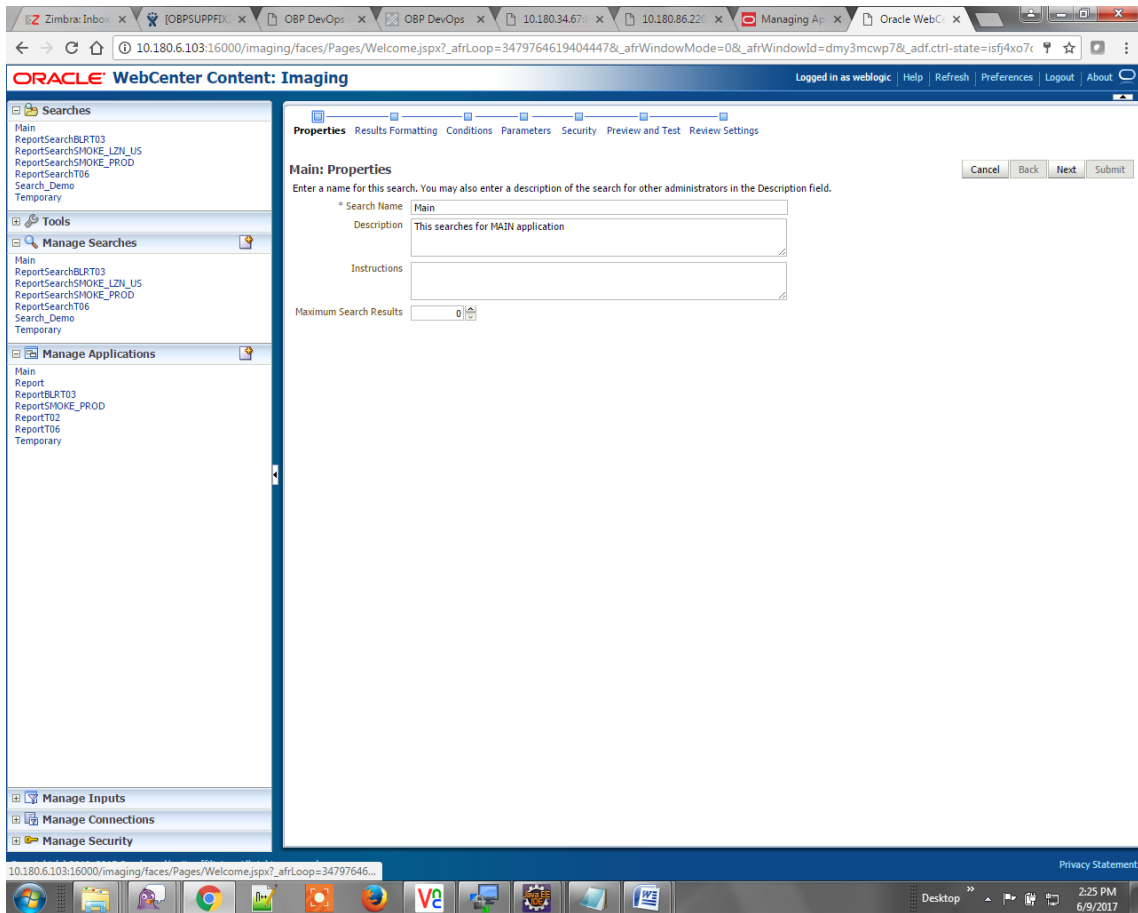
Copyright (c) 2010, 2015 Oracle and/or its affiliates. All rights reserved. Privacy Statement

### 7.1.2.2 Manage Searches

To manage searches:

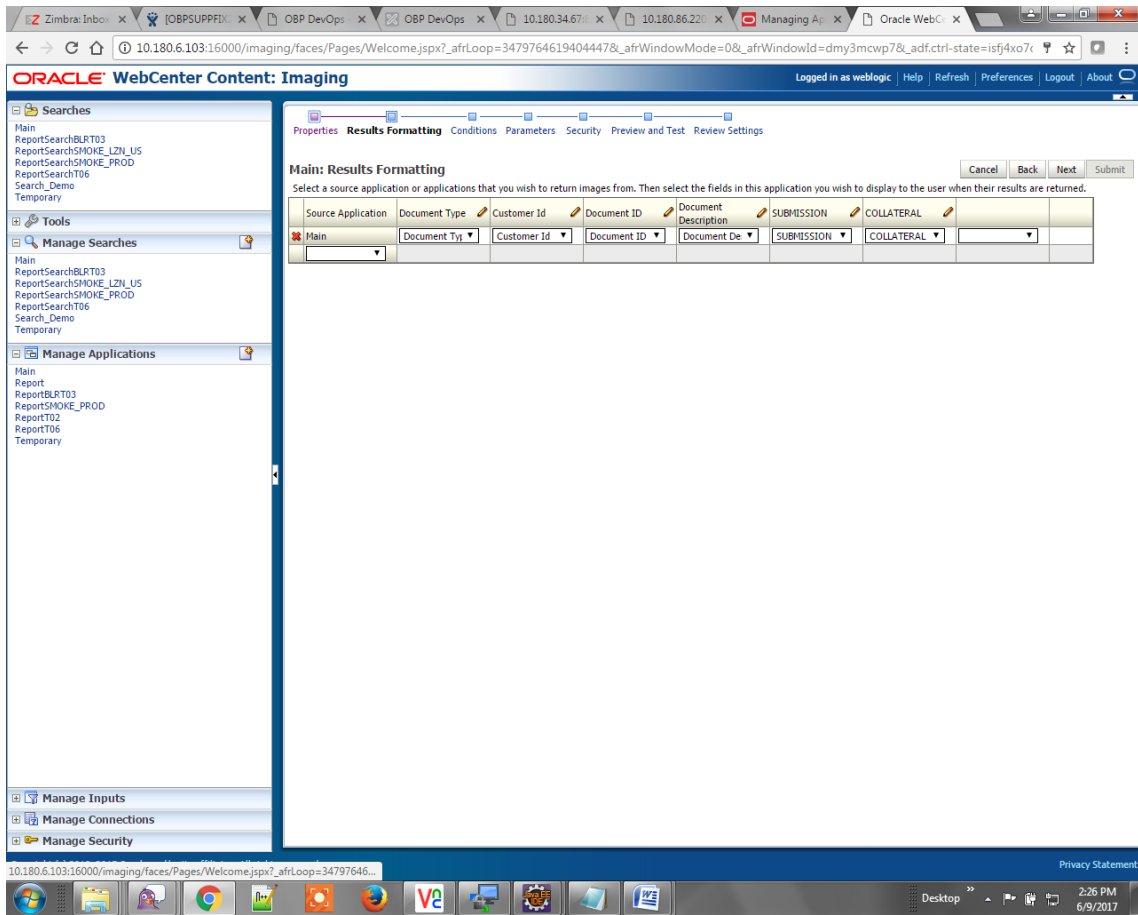
1. Click Manage Searches option and enter the search name with description.

**Figure 6–17 Main: Properties**



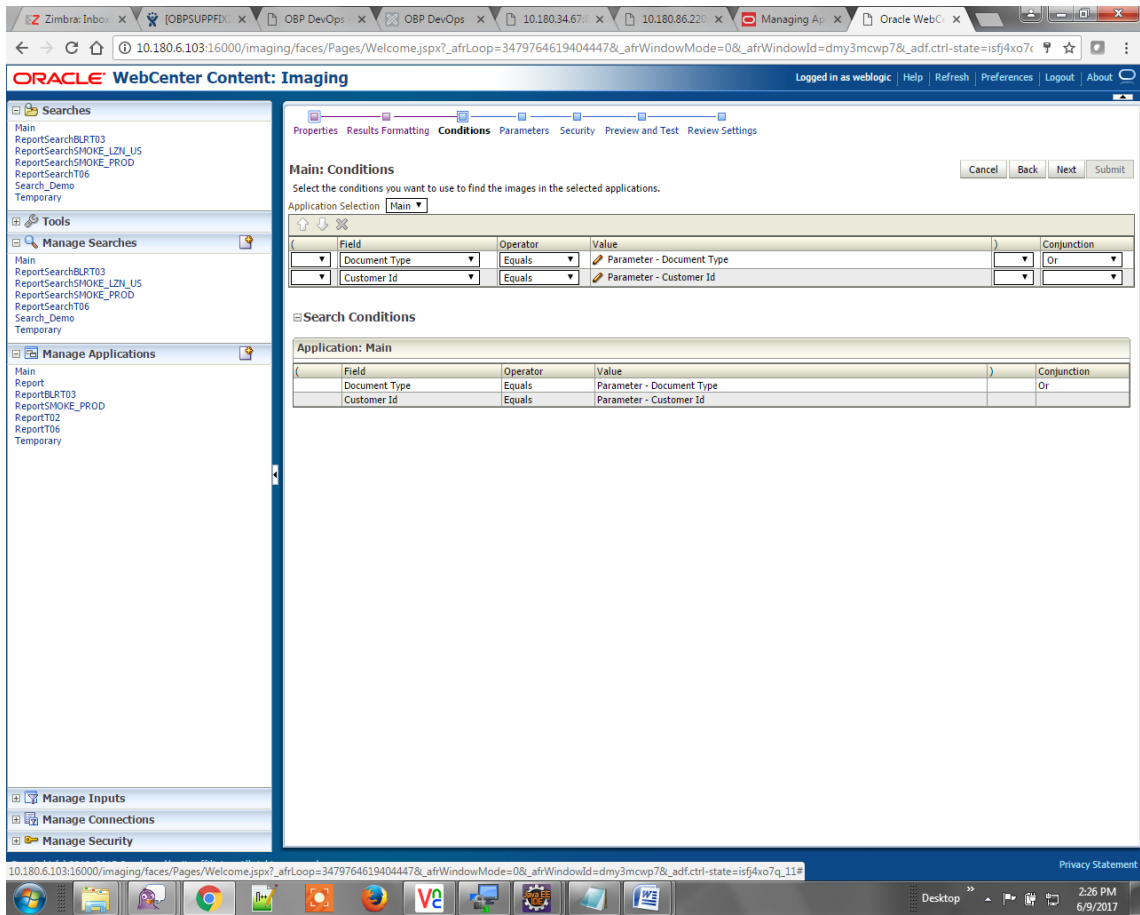
2. Click **Next**.
3. Select the source application along with its field details in the Results Formatting page.

Figure 6–18 Main: Results Formatting



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

Figure 6–19 Main: Conditions



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



Figure 6–20 Main: 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

**Main: Parameters** Cancel Back Next Submit

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"/>

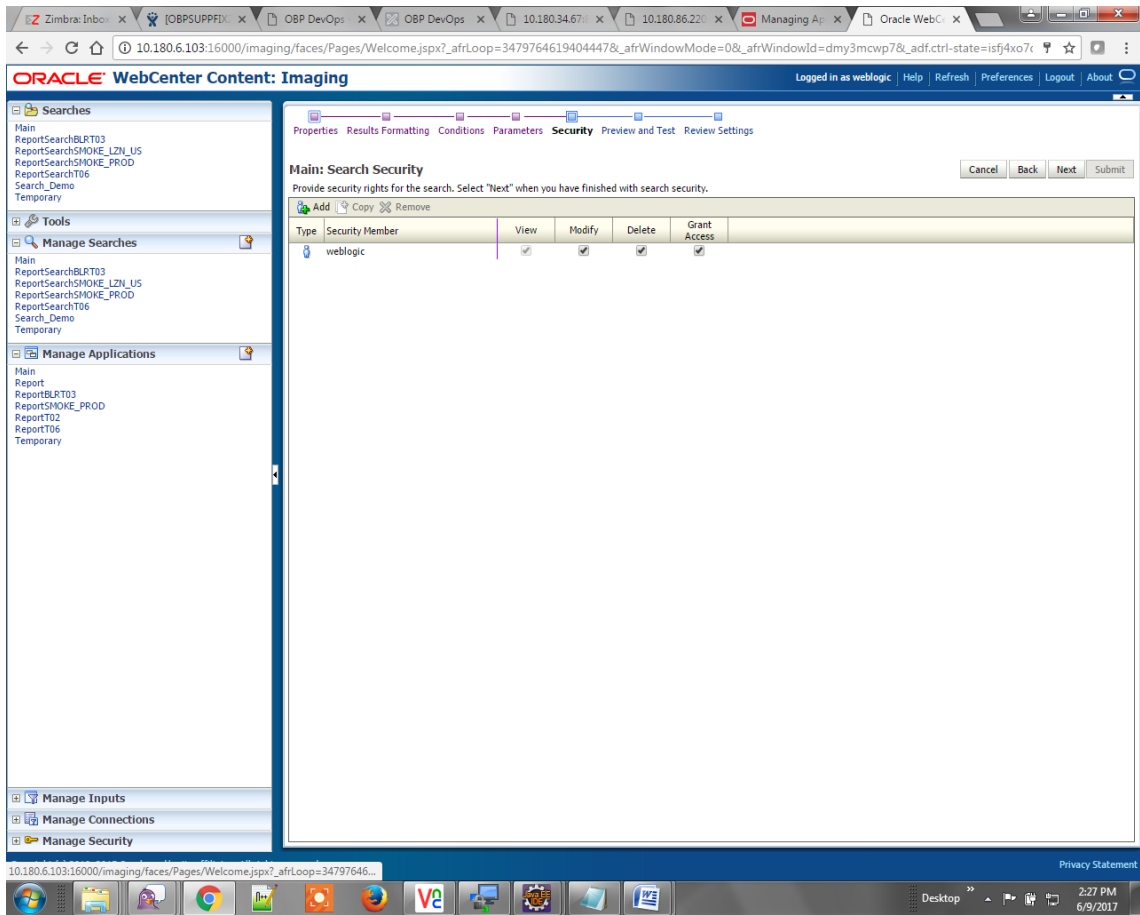
10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?\_afrcLoop=3479764619404447&\_afrcWindowMode=0&\_afrcWindowId=dmy3mcwp7&\_adf.ctrl-state=isf4xo7q\_11#

Privacy Statement

Desktop 2:26 PM 6/9/2017

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

Figure 6–21 Main: Search Security



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

Figure 6–22 Main: Preview and Test

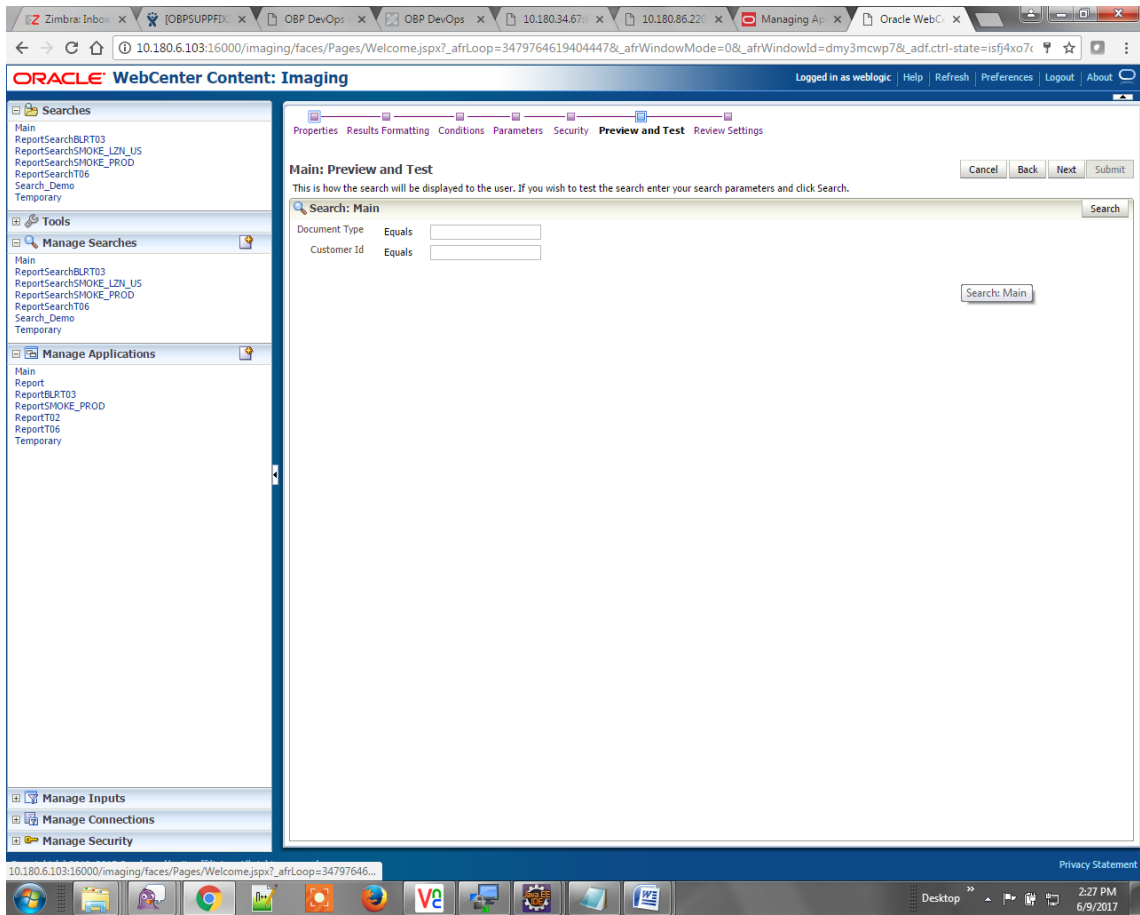
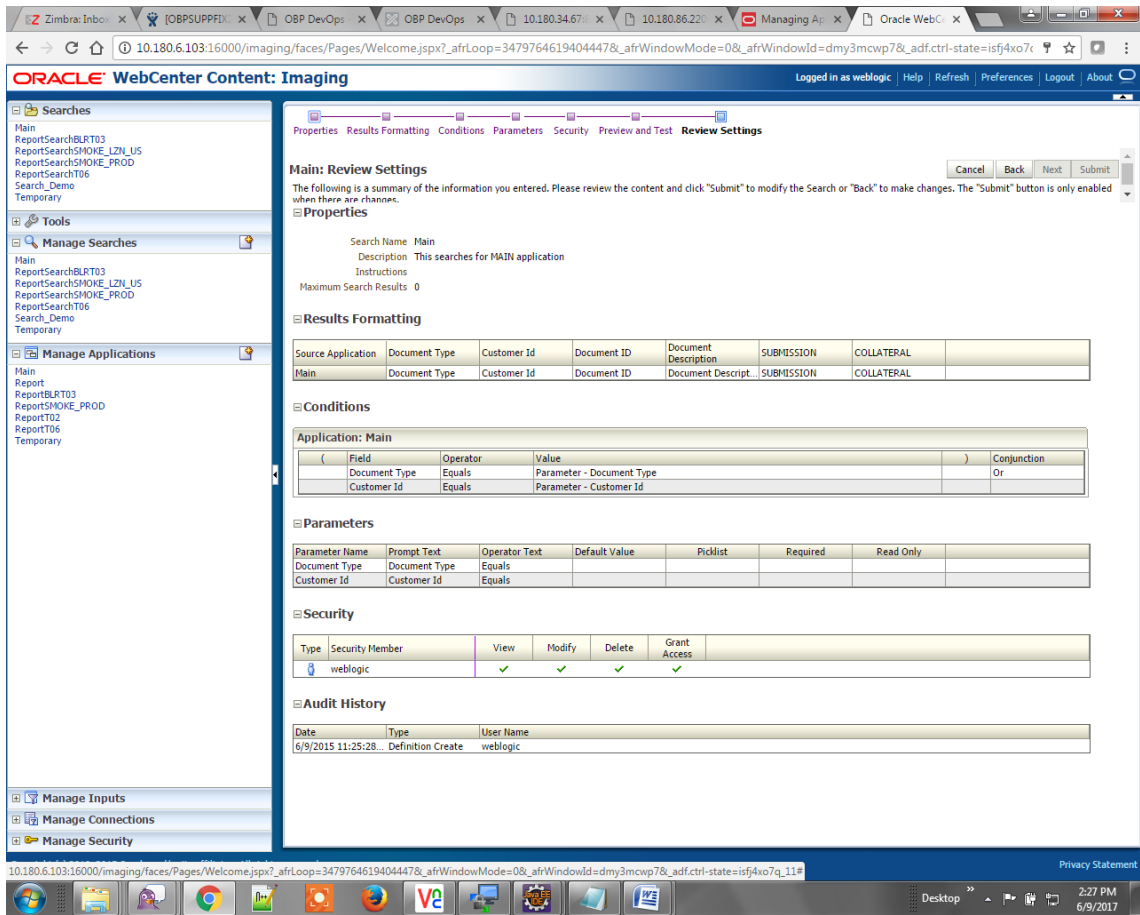


Figure 6–23 Main: Review Settings



### 7.1.3 Temp Application Configuration

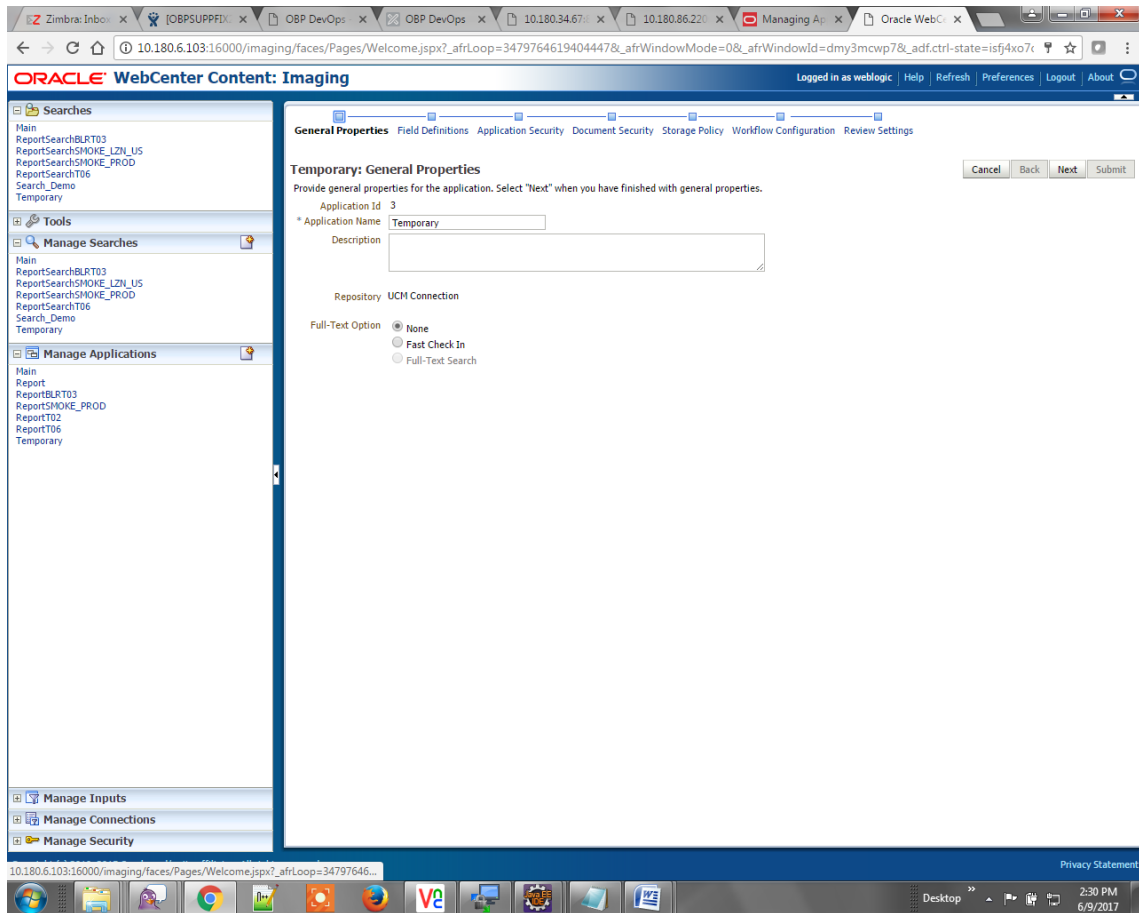
This section provides details about the temp application configuration.

#### 7.1.3.1 Manage Application Configuration

To manage application configuration:

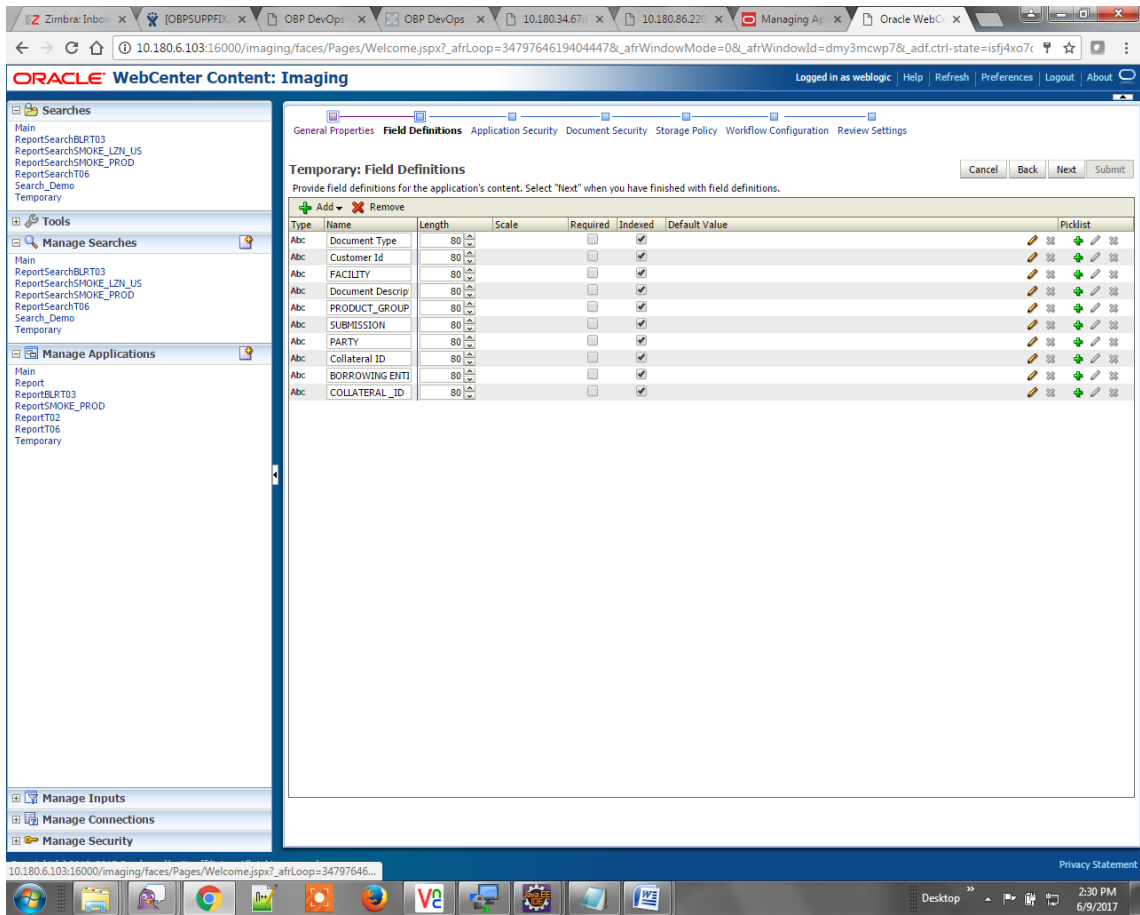
1. Select the Create New Application option.
2. Enter the general properties and click **Next**.

Figure 6–24 Temporary: General Properties



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

Figure 6–25 Temporary: Field Definitions



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

Figure 6–26 Temporary: Application Security

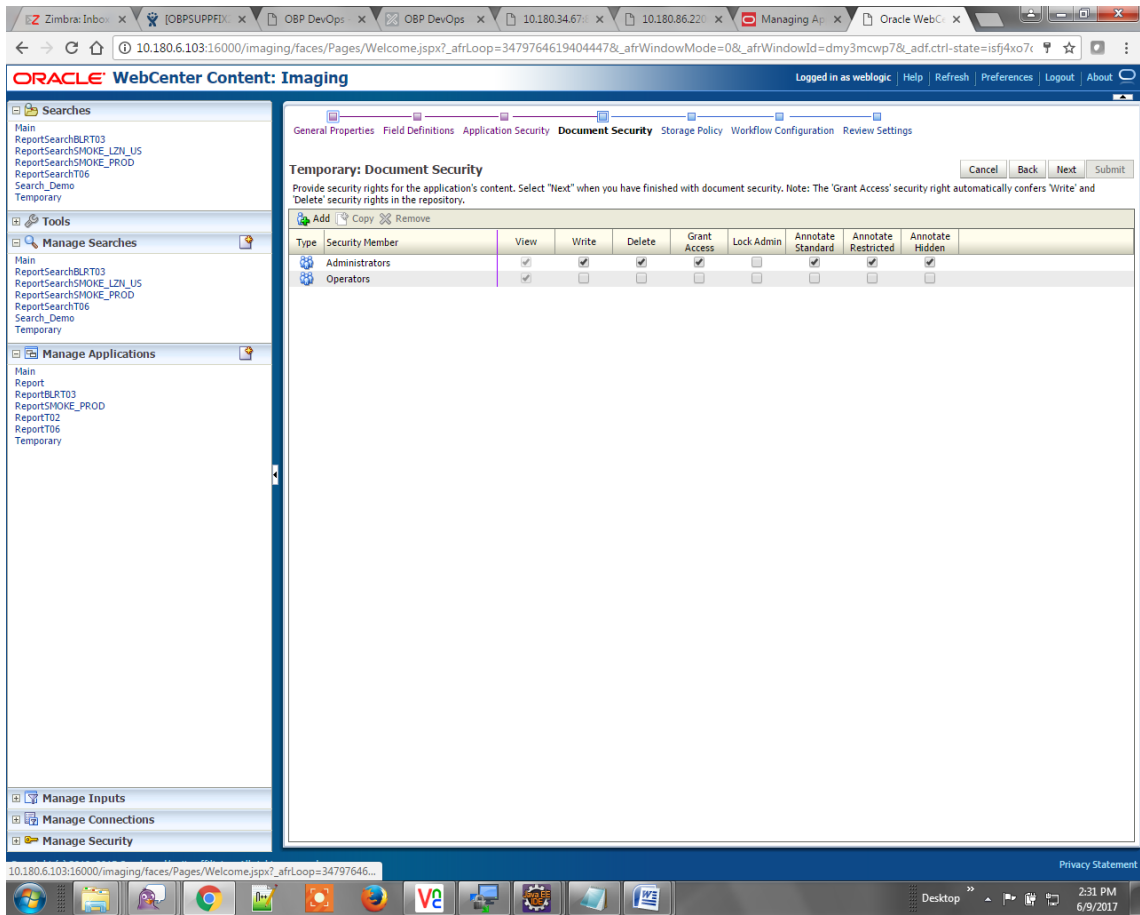
The screenshot shows the Oracle WebCenter Content: Imaging interface. The browser address bar displays the URL: 10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?\_afriLoop=3479764619404447&\_afriWindowMode=08\_afriWindowId=dmy3mcwp7&\_adf.ctrl-state=istf4xo7c. The page title is "Oracle WebCenter Content: Imaging" and it shows the user is logged in as "weblogic".

The main content area is titled "Temporary: Application Security" and includes the instruction: "Provide security rights for the application's definition. Select 'Next' when you have finished with application security." Below this is a table for managing security members.

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

The left sidebar contains navigation options: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. The Windows taskbar at the bottom shows the system time as 2:30 PM on 6/9/2017.

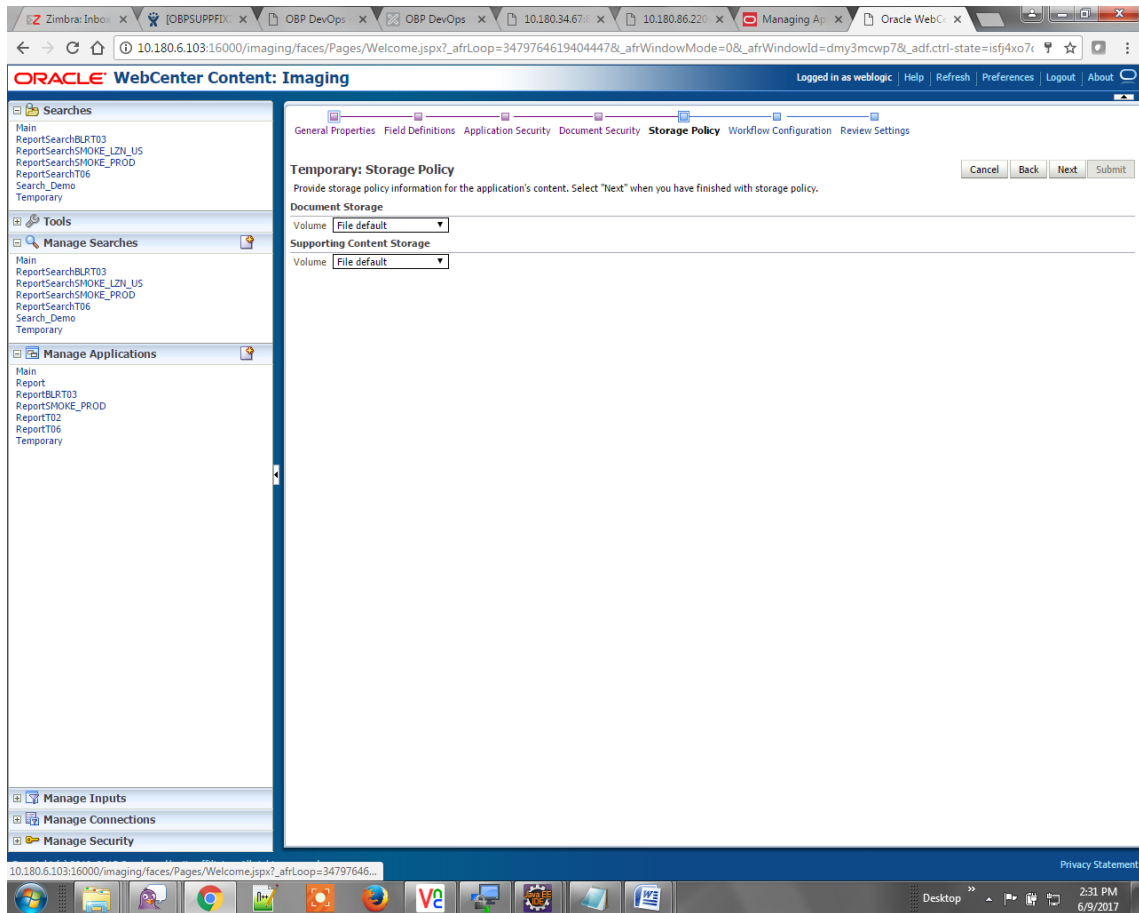
Figure 6–27 Temporary: Document Security



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

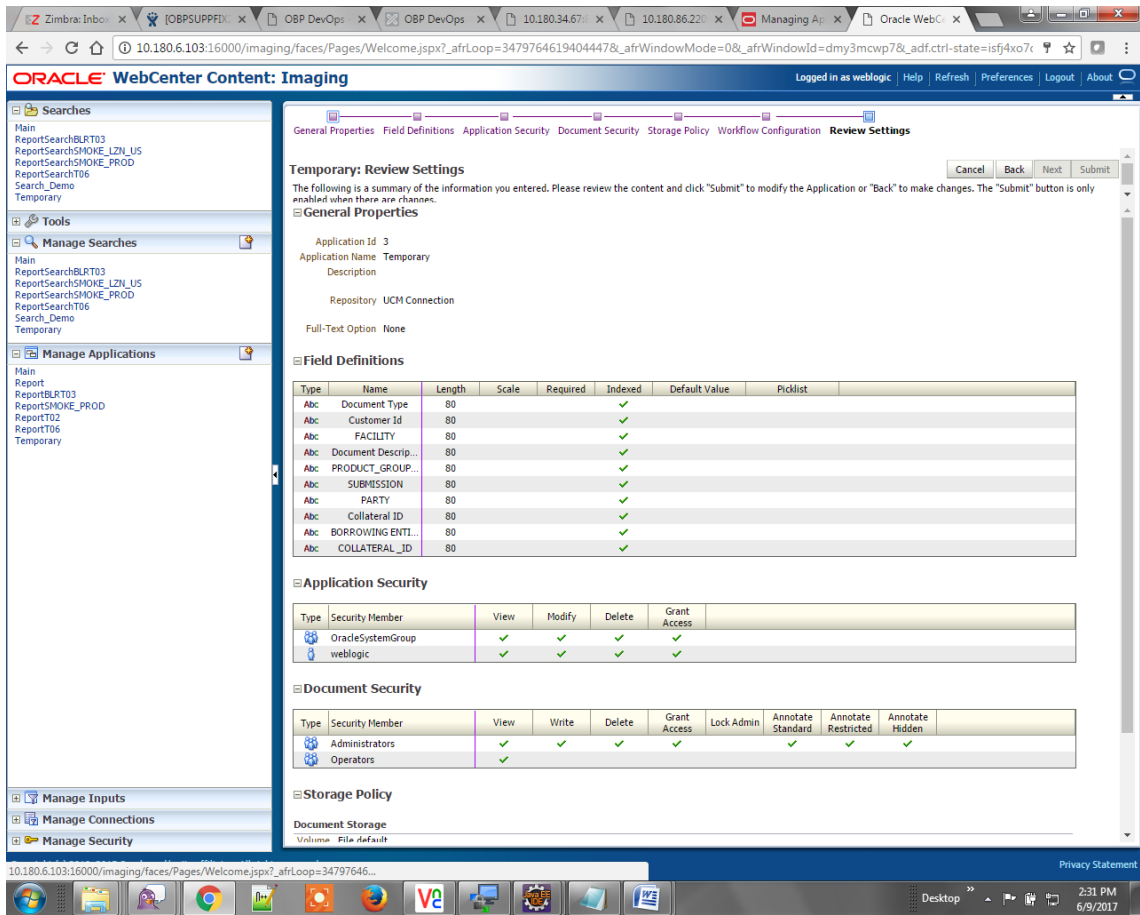


Figure 6–28 Temporary: Storage Policy



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

Figure 6–29 Temporary: Review Settings

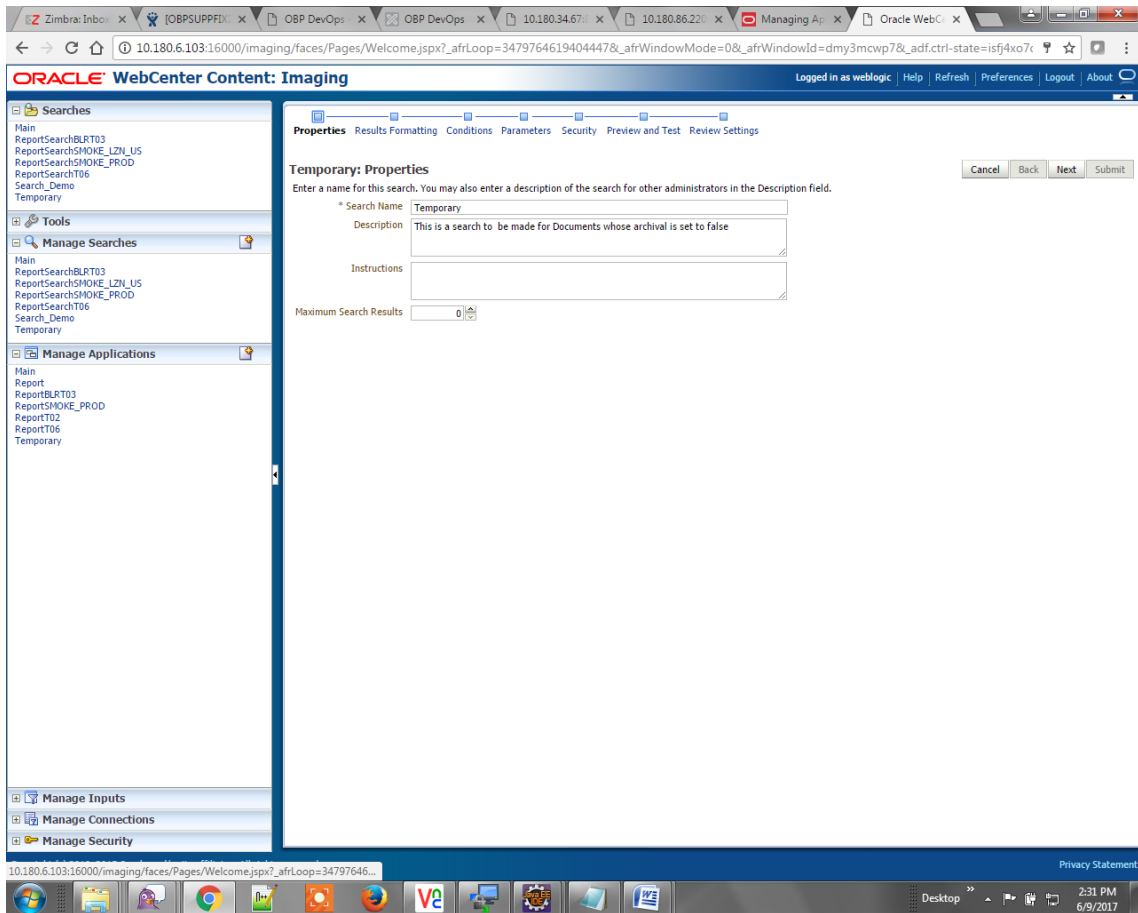


### 7.1.3.2 Manage Searches

To manage searches:

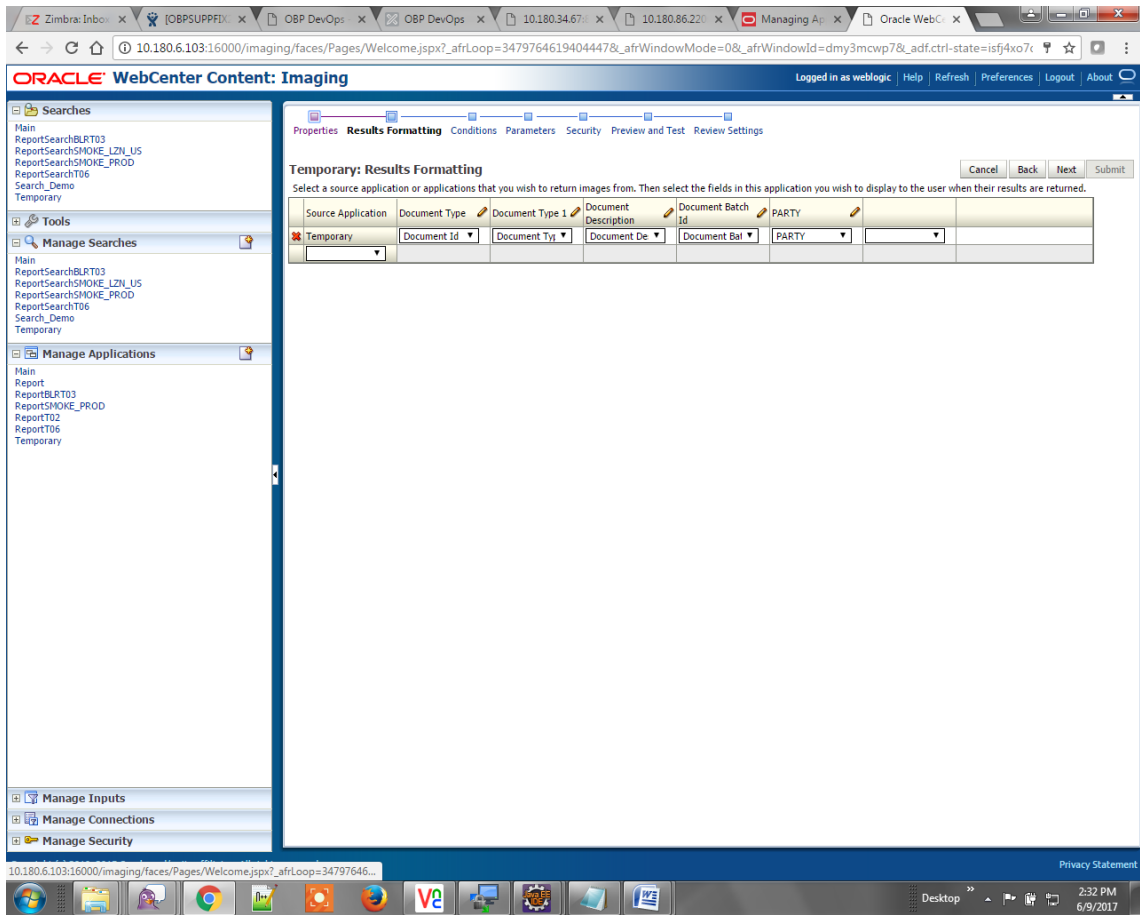
1. Click the Manage Searches option and enter the search name with description.

**Figure 6–30 Temporary: Properties**



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

Figure 6–31 Temporary: Results Formatting



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

Figure 6–32 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

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	Or

Search Conditions

Application: Temporary

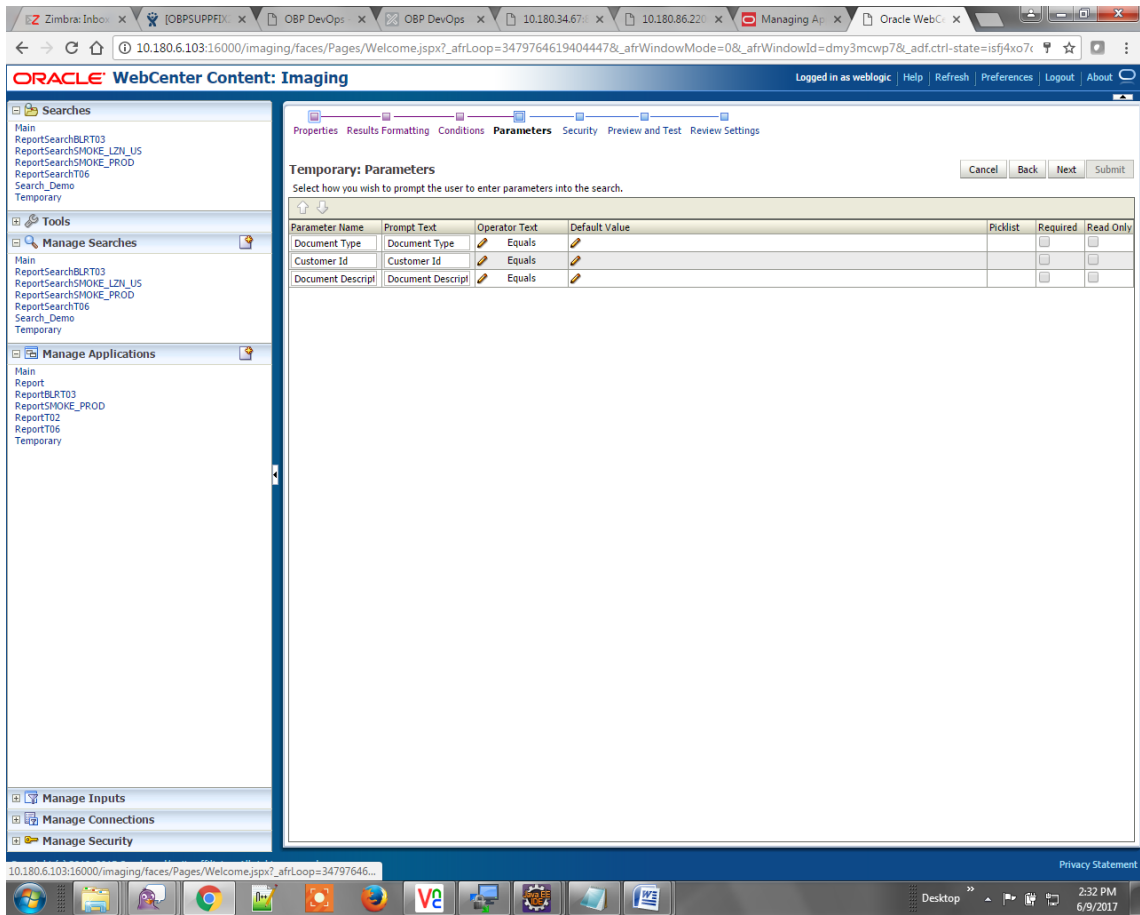
Field	Operator	Value	Conjunction
Document Type	Equals	Parameter - Document Type	Or
Customer Id	Equals	Parameter - Customer Id	Or
Document Description	Equals	Parameter - Document Description	Or

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

2:32 PM 6/9/2017

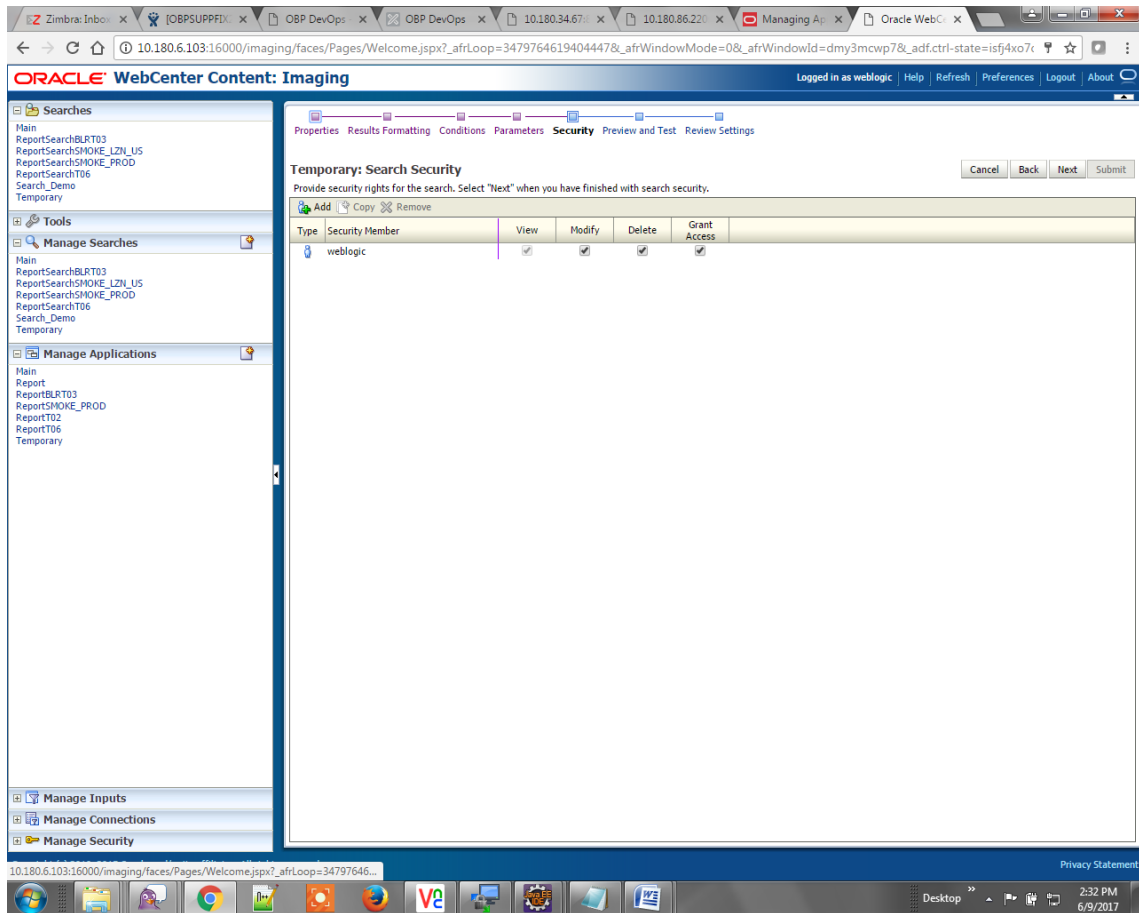
4. Select the appropriate settings in the Parameters page as shown below.

Figure 6–33 Temporary: Parameters



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

Figure 6–34 Temporary: Search Security



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

Figure 6–35 Temporary: Preview and Test

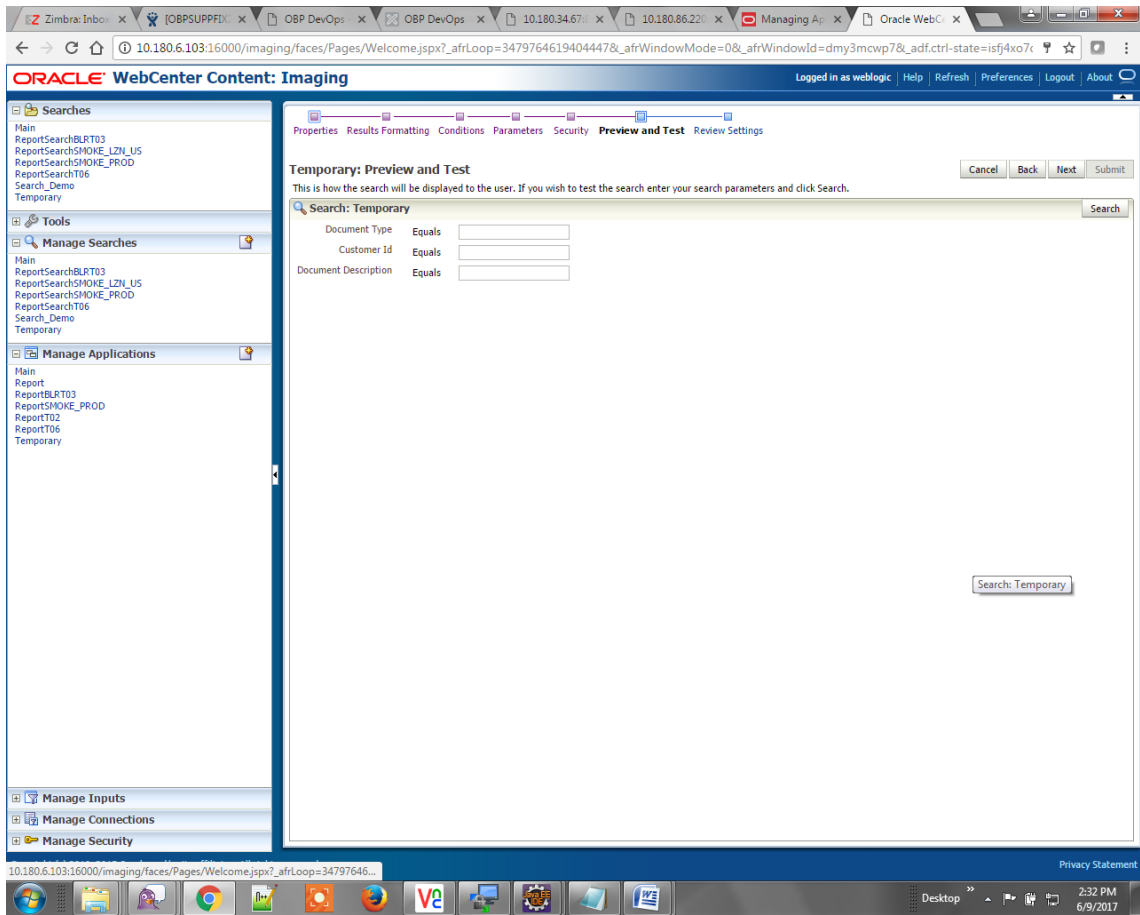
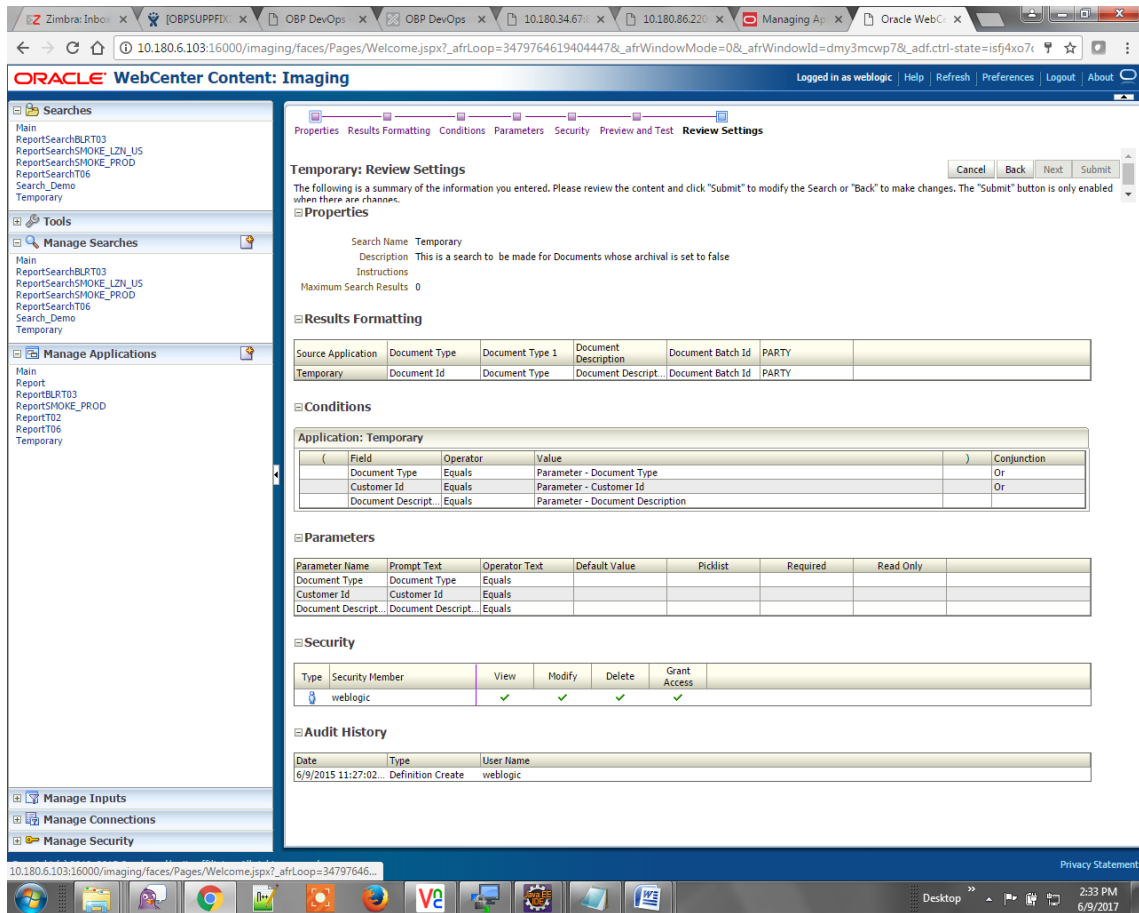




Figure 6–36 Temporary: Review Settings



The application ID generated for the main and temporary applications should be updated in the OBLS 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 OBLIS 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.

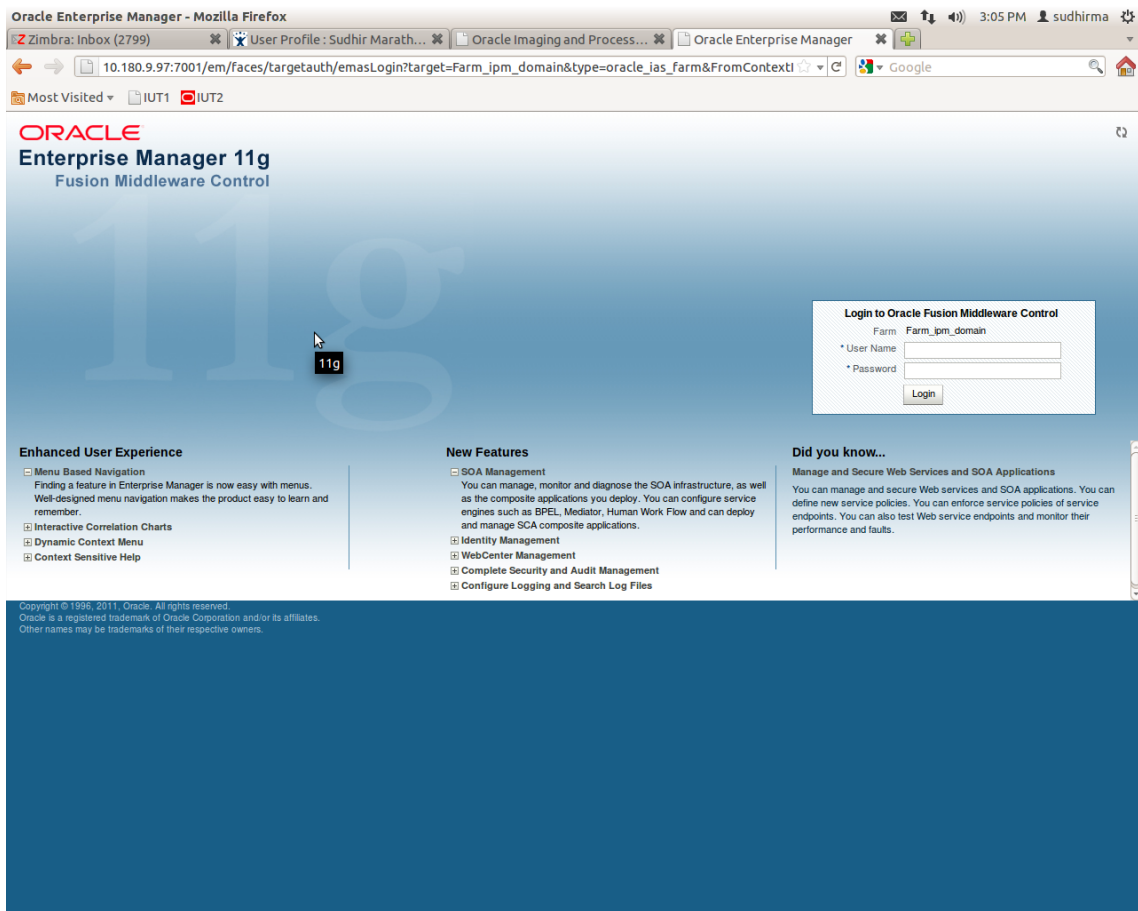
### 7.2.2 Setting up the Connection Name

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

To set up a bulk process:

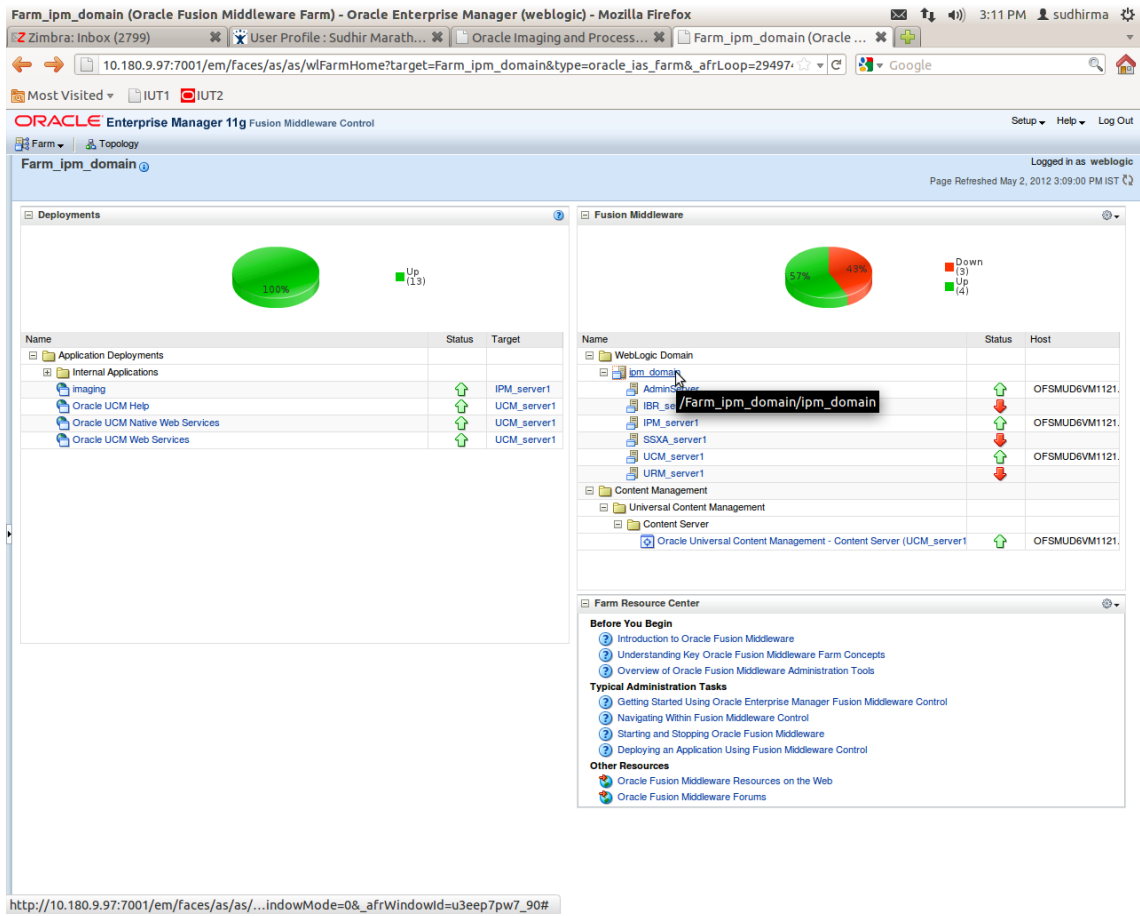
1. Log in to Enterprise Manager (EM) console.

**Figure 6–37 EM Console Login**



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

Figure 6–38 Click Weblogic Domain: ipm domain



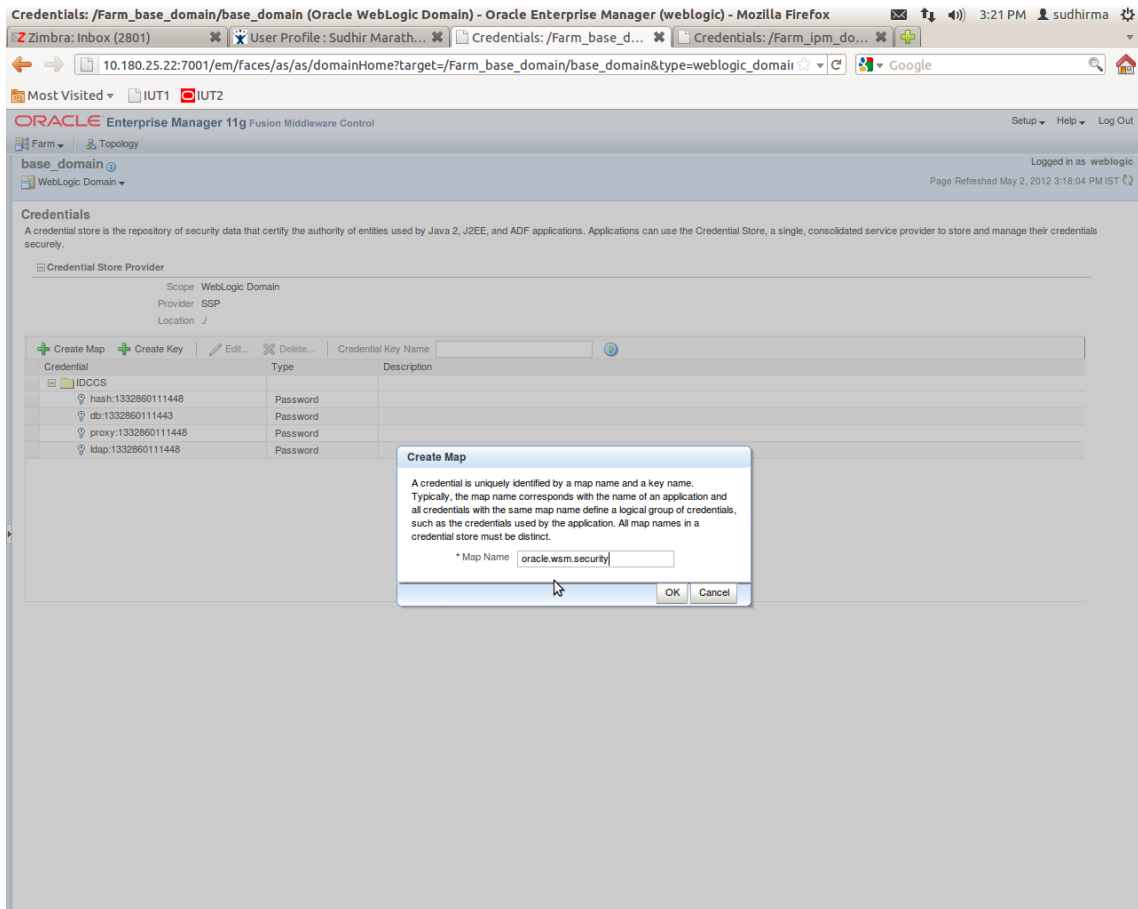
3. In the top menu, **click Weblogic Domain**. The corresponding menu appears.
4. Navigate to **Security > Credentials**. The Credentials page appears.

Figure 6–39 Navigate to WebLogic Domain --&gt; Security --&gt; Credentials

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The left-hand navigation pane is expanded to 'WebLogic Domain' > 'Security' > 'Credentials'. A context menu is open over the 'Credentials' option, listing the following items: Credentials, Security Provider Configuration, Application Policies, Application Roles, System Policies, and Audit Policy. The main content area displays a table of server components with columns for Name, Request Processing Time (ms), and Bean Accesses (per minute). Below this, there is a 'Deployments' section with a table of application deployments.

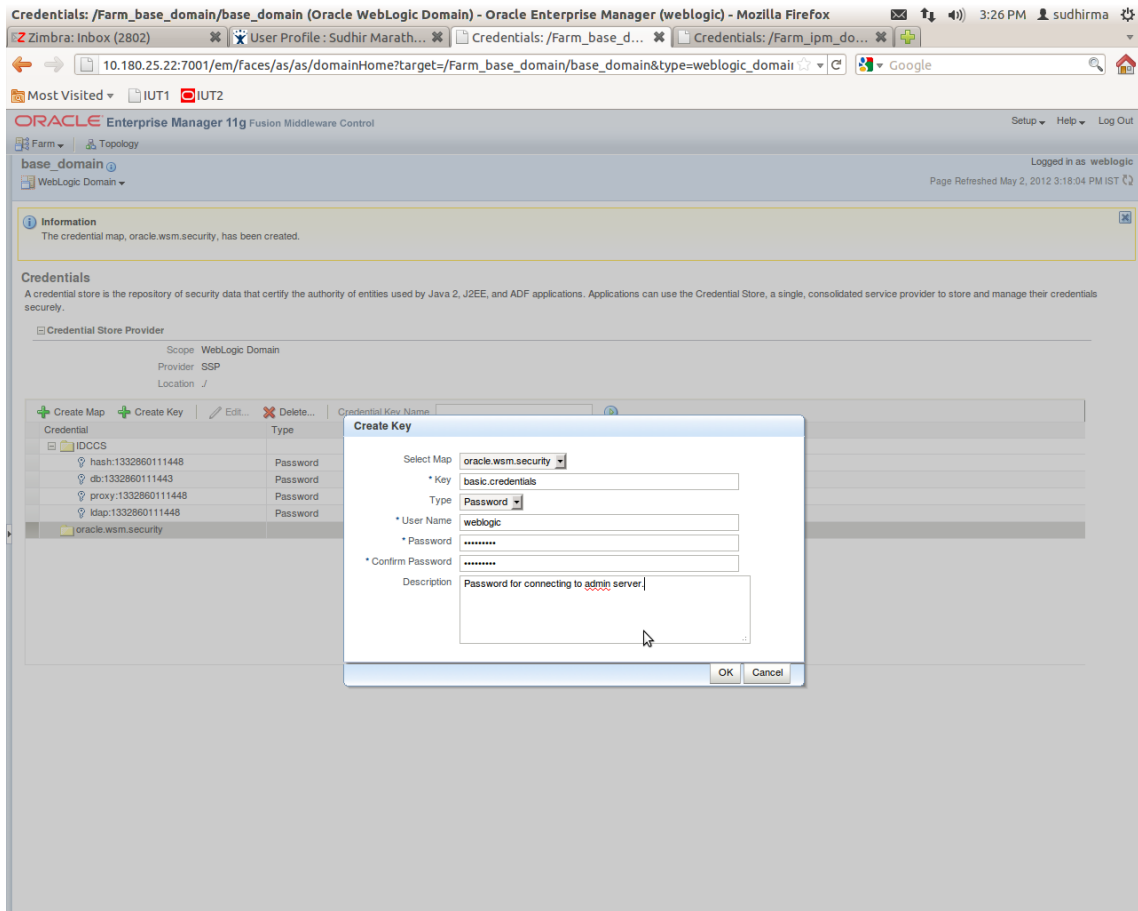
Name	Status	Target
Application Deployments		
Internal Applications		
imaging	Up	IPM_server1
Oracle UCM Help	Up	UCM_server1
Oracle UCM Native Web Services	Up	UCM_server1
Oracle UCM Web Services	Up	UCM_server1

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

**Figure 6–40 Create Map oracle.wsm.security**

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

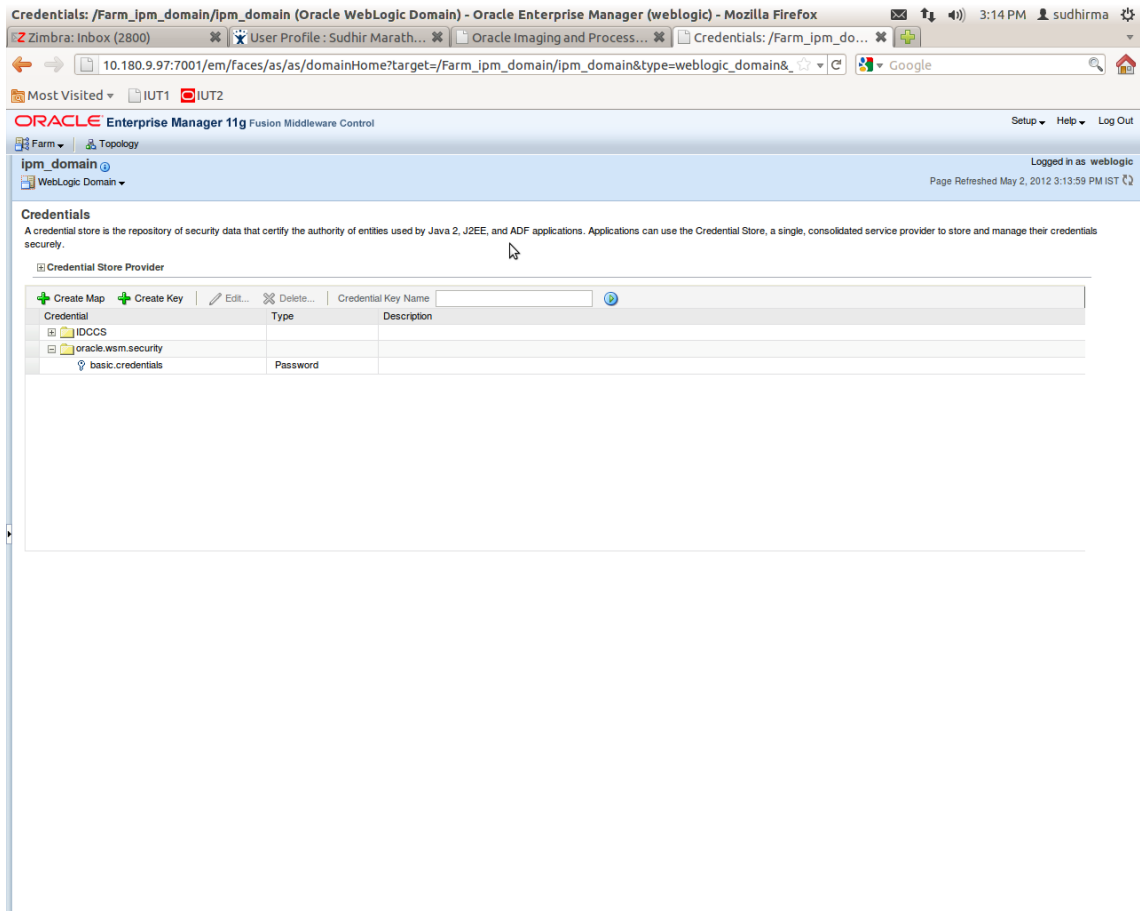
Figure 6–41 Create Key basic.credentials



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 6–42 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 6–43 Navigate to Weblogic Domain --&gt; System MBean Browser

The screenshot displays the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The browser address bar shows the URL: `10.180.9.97:7001/em/faces/as/as/domainHome?target=/Farm_ipm_domain/ipm_domain&type=weblogic_domain&`. The page title is `/Farm_ipm_domain/ipm_domain (Oracle WebLogic Domain) - Oracle Enterprise Manager (weblogic) - Mozilla Firefox`. The user is logged in as `weblogic` and the page was refreshed on May 2, 2012 at 3:35:07 PM IST.

The left-hand navigation pane shows the following menu items:

- Home
- Control
- Logs
- Port Usage
- Application Deployment
- Web Services
- Security
- Metadata Repositories
- JDBC Data Sources
- System MBean Browser** (highlighted)
- WebLogic Server Administration Console
- General Information

The main content area displays a table of resources for the `ipm_domain`. The table has columns: Host, Cluster, Listen Port, Active Sessions, Request Processing Time (ms), and Bean Accesses (per minute). The resources listed are:

Host	Cluster	Listen Port	Active Sessions	Request Processing Time (ms)	Bean Accesses (per minute)
AdminServer	OFSMUC	7001	3	374	0.00
IBR_server1	Unavailat	Unavailat	Unavailat	Unavailat	Unavailat
IPM_server1	OFSMUC	16000	50	96	1.18
SSXA_server1	Unavailat	Unavailat	Unavailat	Unavailat	Unavailat
UCM_server1	OFSMUC	16200	0	0	0.00
URM_server1	Unavailat	Unavailat	Unavailat	Unavailat	Unavailat

Below the table is the `Oracle WebLogic Domain Resource Center` section, which includes links for `Before You Begin`, `Typical Administration Tasks`, and `Other Resources`.

On the right side of the interface, there are sections for `Clusters` (No Clusters found) and `Deployments` (Application Deployments, Internal Applications, Imaging, Oracle UCM Help, Oracle UCM Native Web Services, Oracle UCM Web Services).

- 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 6–44 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 MBeans, with the path `oracle.imaging:Location=IPM_server1,type=config` selected. The right pane shows the configuration for the `InputDirectories` MBean, which is highlighted in red. The configuration table is as follows:

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	GDFontPath	RW	/usr/share/X11/fonts/TTF
10	InputAgentRetryCount	RW	3
11	InputDirectories	RW	home/oracle/testinputagent/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

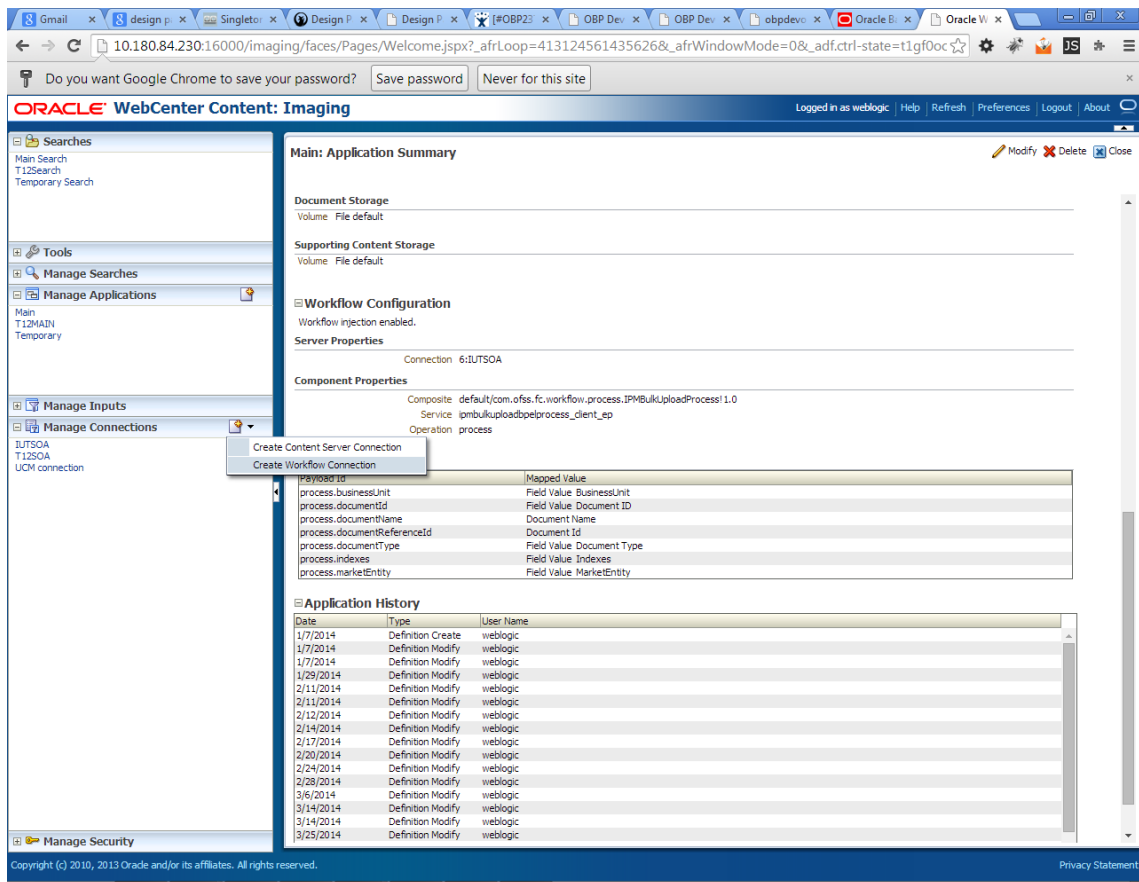
7. Restart IPM server.

## 7.2.4 Create SOA Connection

To create a SOA Connection:

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

Figure 6–45 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.

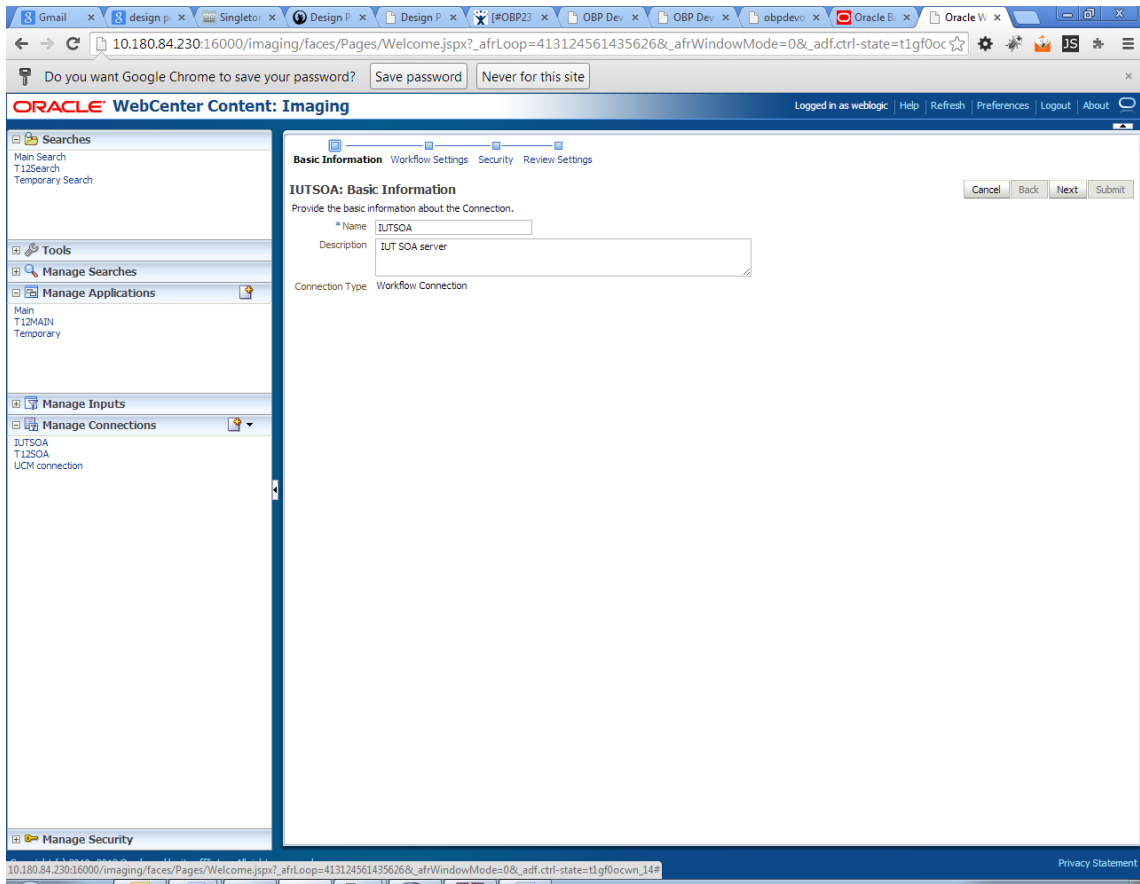
OBP\_IPM\_SOA\_CONN\_NAME

SOA\_MANAGED\_SERVER\_LISTEN\_ADDRESS

SOA\_MANAGED\_SERVER\_LISTEN\_PORT

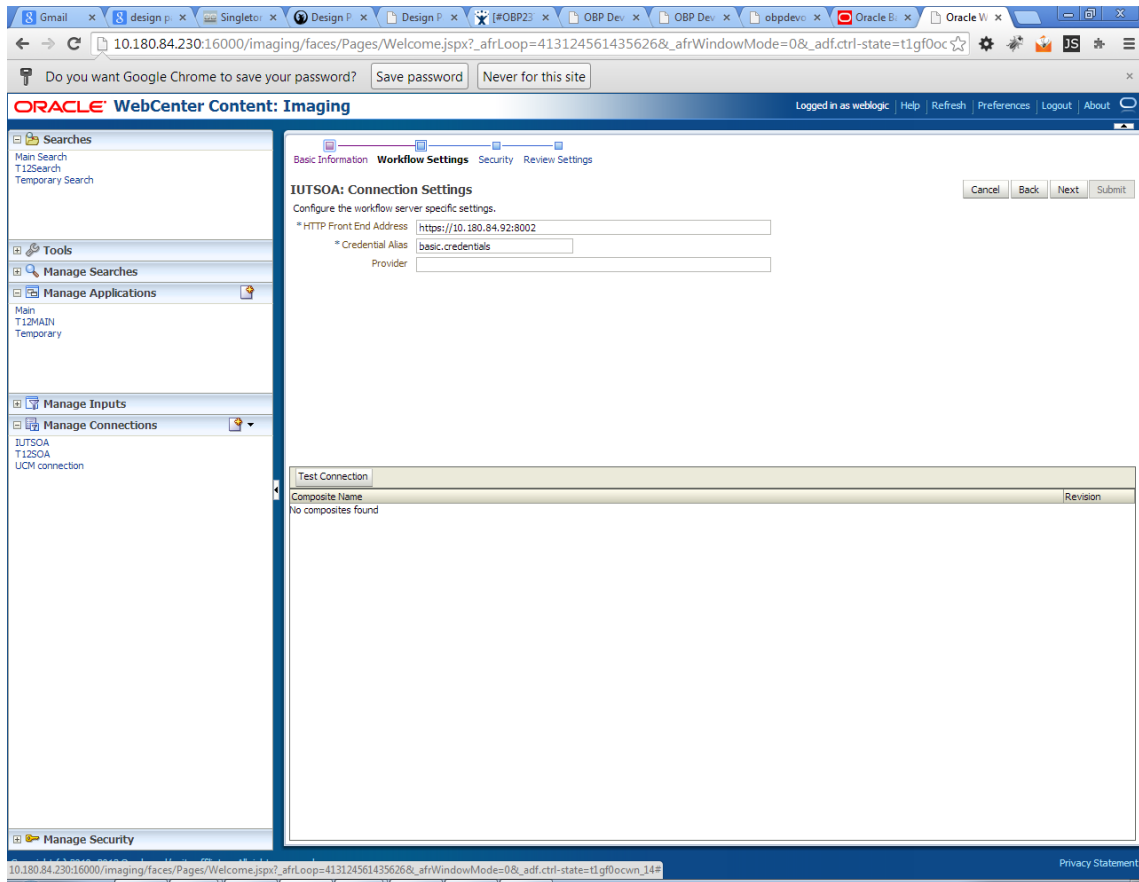
4. In the **Name** field, enter the name for SOA Connection as IUTSOA.

Figure 6–46 IUTSOA: Basic Information



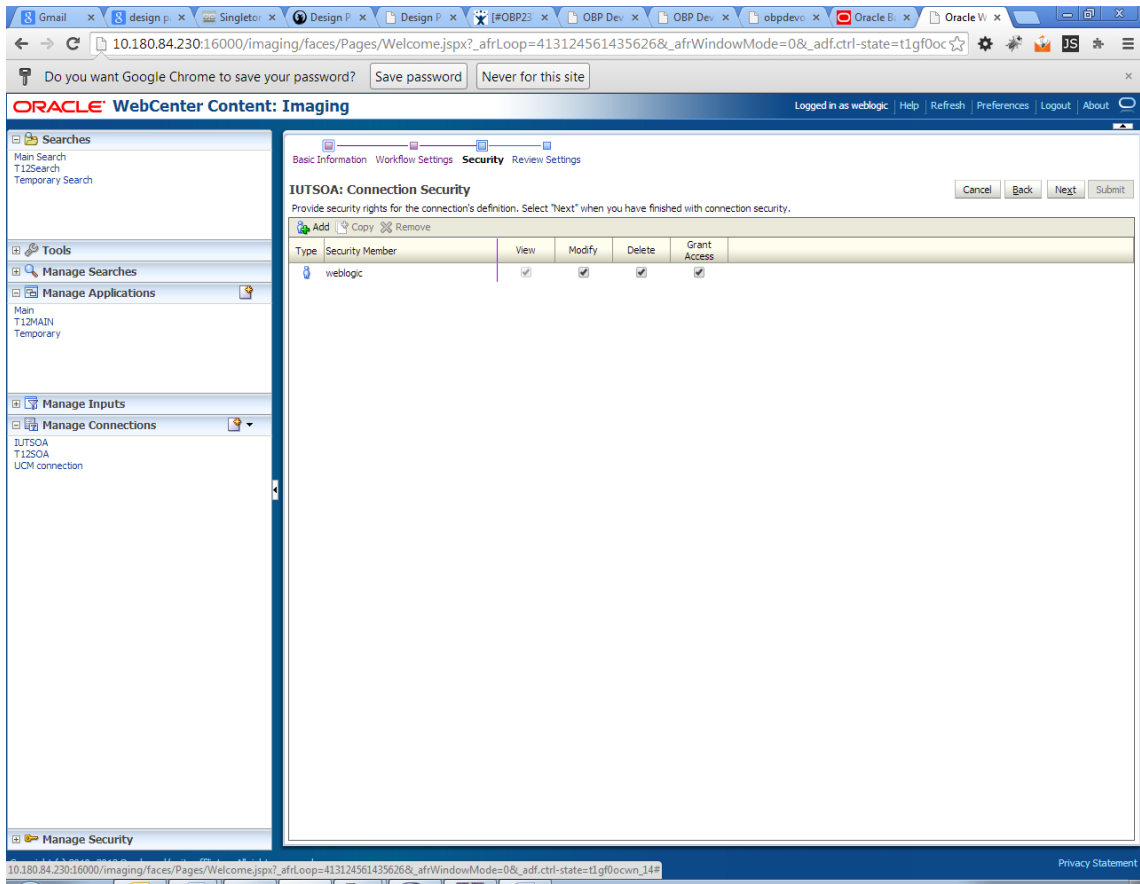
5. In the **HTTP Front End Address** field, enter the value for SOA server.

Figure 6–47 IUTSOA: Workflow Settings



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

**Figure 6–48 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 6–49 IUTSOA: Review Settings

The screenshot shows the Oracle WebCenter Content: Imaging interface. The main content area displays the 'IUTSOA: Connection Summary' page. The page is organized into several 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:** A table showing security members with columns for Type, Security Member, View, Modify, Delete, and Grant Access.
- Audit History:** A table showing audit events with columns for Date, Type, and User Name.

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

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

The interface also includes a left-hand navigation menu with sections like Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, and Manage Connections. The footer contains copyright information for Oracle (© 2010, 2013) and a Privacy Statement link.

## 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 6–50 Main: Application Summary

The screenshot displays the Oracle WebCenter Content: Imaging interface. The main content area is titled 'Main: Application Summary' and includes the following sections:

- General Properties:** Application Id: 2, Application Name: Main, Description: Main Content Store, Repository: UCM connection, Full-Text Option: None.
- Field Definitions:** A table listing fields with their types, names, lengths, scales, required status, indexed status, default values, and picklist options.
- Application Security:** A table showing security members and their permissions for View, Modify, Delete, and Grant Access.
- Document Security:** A table showing security members and their permissions for View, Write, Delete, Grant Access, Lock Admin, Annotate Standard, Annotate Restricted, and Annotate Hidden.

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80			✓		
Abc	Customer Id	80			✓		
Abc	Document ID	80			✓		
Abc	Document Descri...	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			✓		

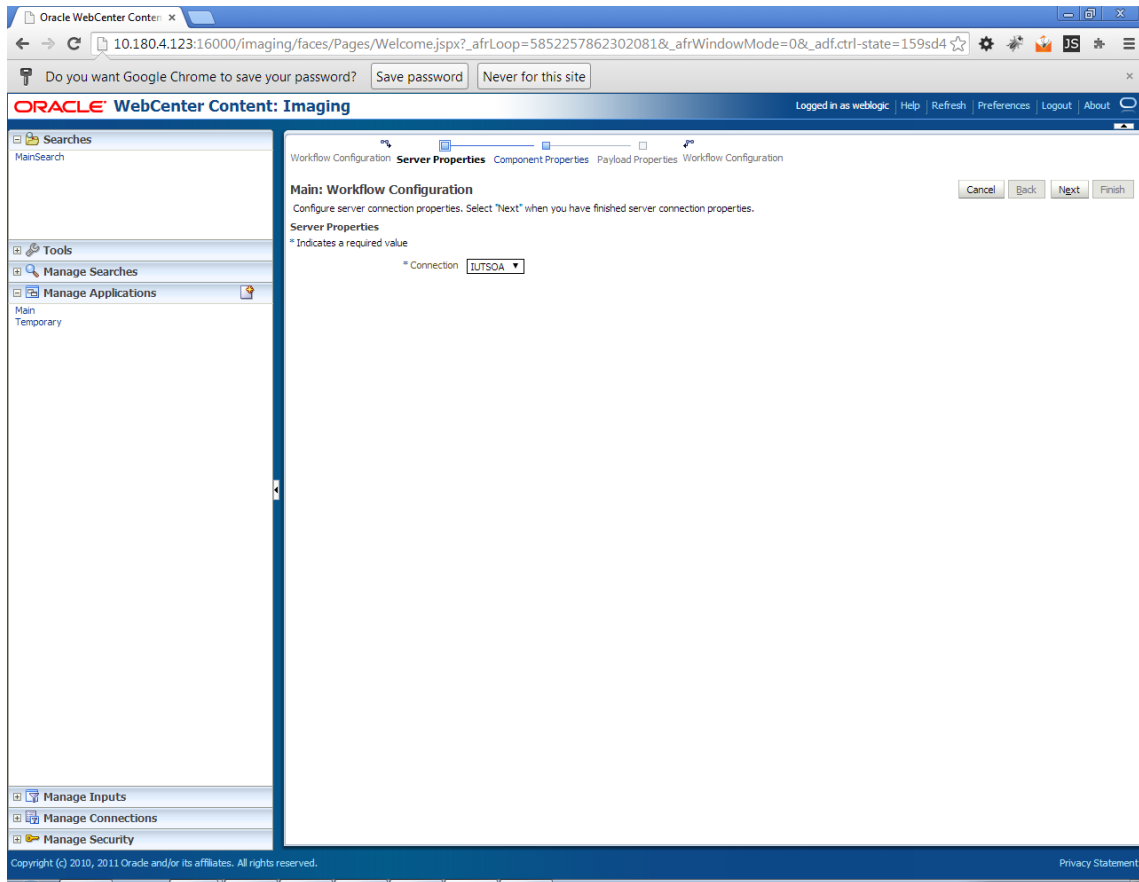
Type	Security Member	View	Modify	Delete	Grant Access
	weblogic	✓	✓	✓	✓

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

3. Select the application for which workflow configuration has to be done as shown in Figure 6–50.
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.

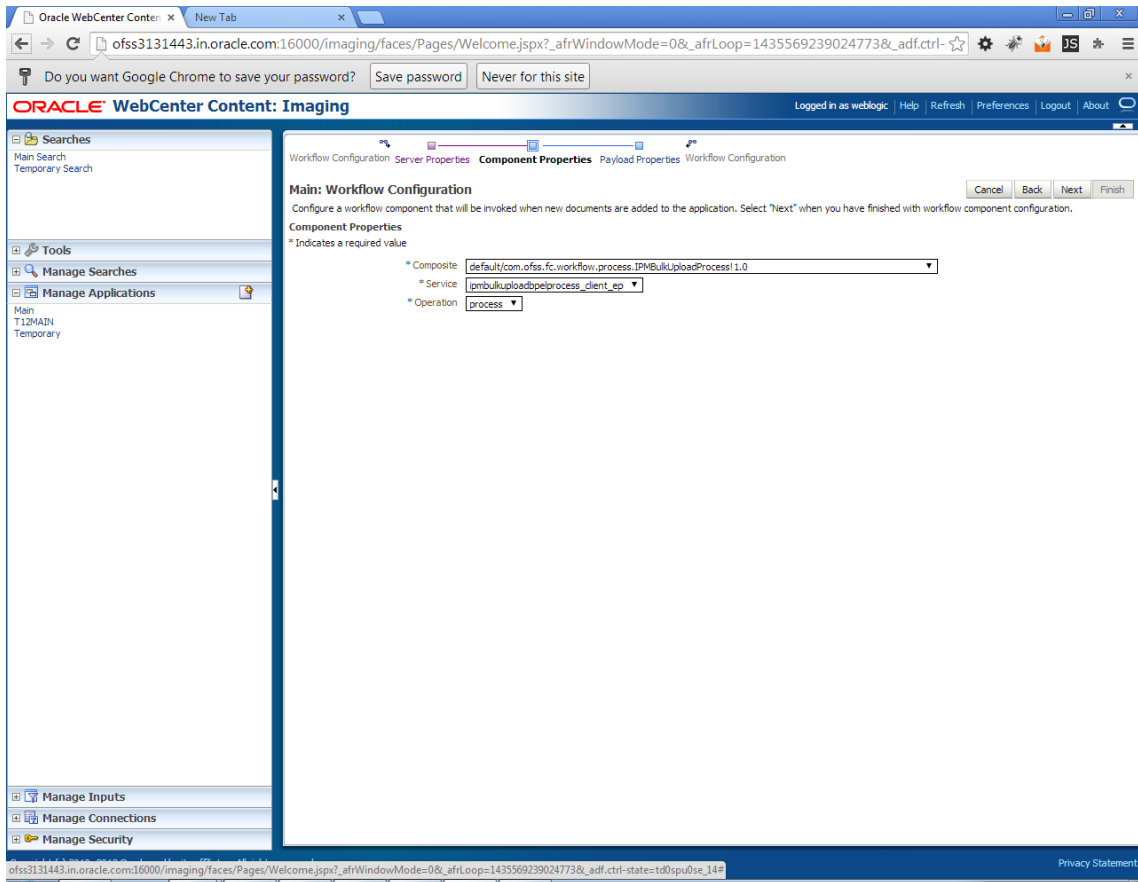


Figure 6–51 Manage Applications - Server Properties



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 6–52 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 6–53 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

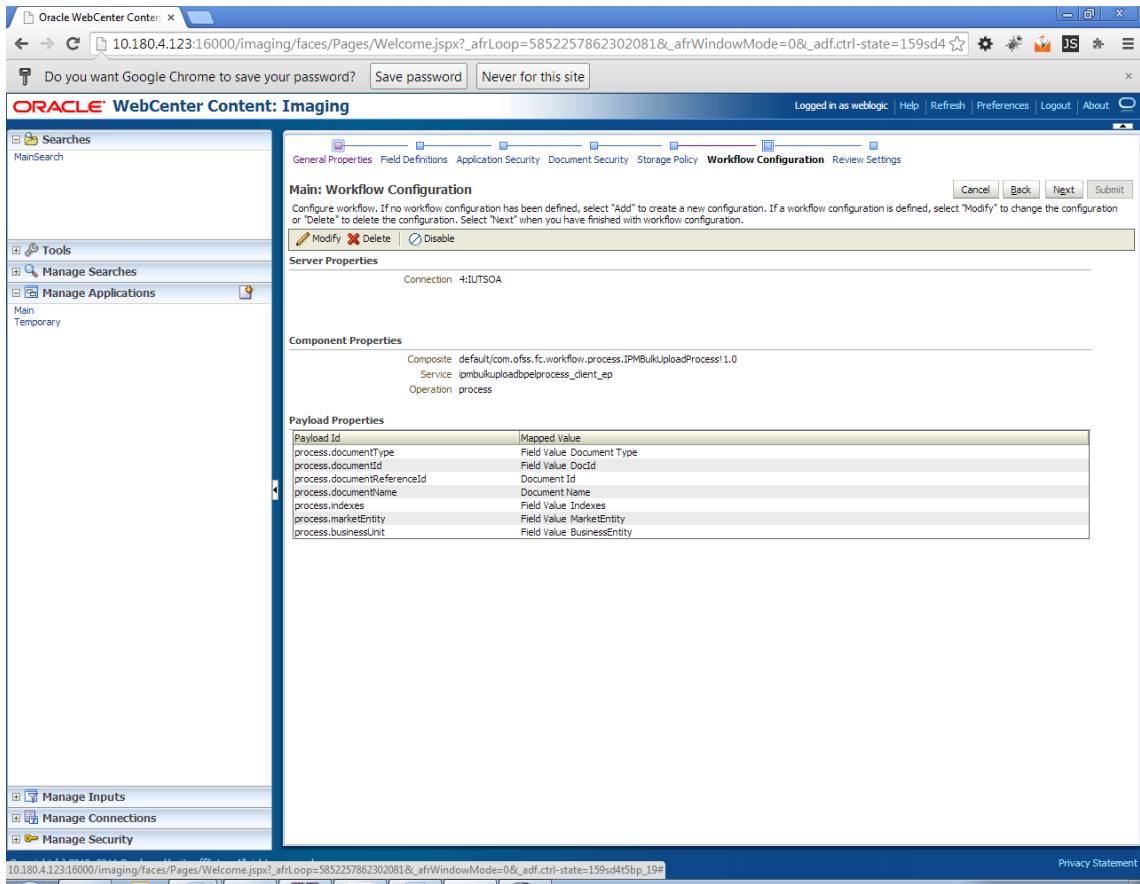
\* Indicates a required value

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

Buttons: Cancel Back Next Finish

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

**Figure 6–54 Manage Applications - Workflow Configuration**



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

Figure 6–55 Field Definitions

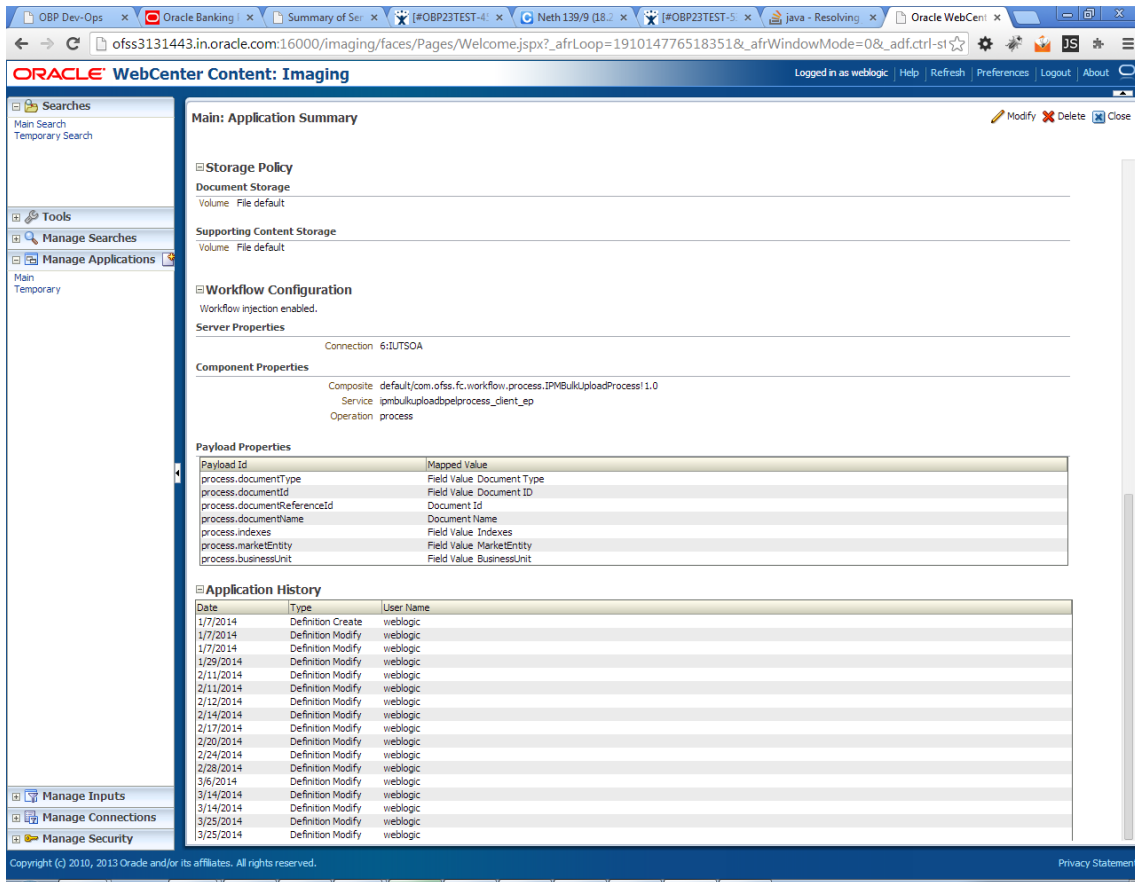
The screenshot shows the Oracle WebCenter Content: Imaging interface. The main content area is titled "T12MAIN: Field Definitions" and contains a table of field definitions. The table has the following columns: Type, Name, Length, Scale, Required, Indexed, Default Value, and Picklist. The table lists 17 fields, all with a length of 80. The "Required" and "Indexed" columns contain checkboxes, with most fields having the "Indexed" checkbox checked. The "Default Value" column is empty for all fields. The "Picklist" column contains icons for editing and deleting picklist values.

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80		<input type="checkbox"/>	<input type="checkbox"/>		
Abc	SUBMISSION	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	APPLICATION	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	PARTY	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Document Descript	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERAL	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERALVALU	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERALTITLE	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Indexes	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Doc Id	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	businessunit	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	marketenbty	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	Customer Id	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	ID	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERALVALU	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Abc	COLLATERALTITLE	80		<input 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.

The Main Application Summary appears as shown Figure 6–56.

Figure 6–56 Main: Application Summary



## 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 6–57 Input Agent: Basic Information

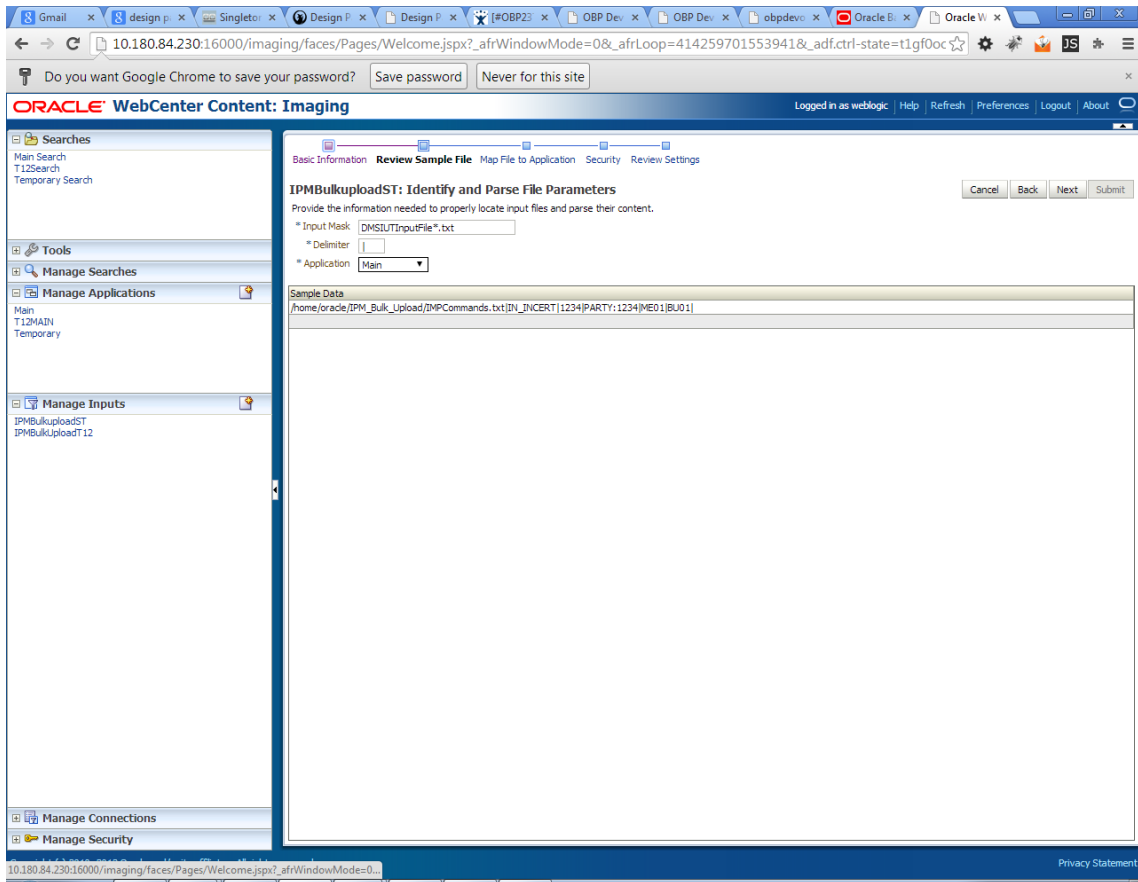
The screenshot displays the Oracle WebCenter Content: Imaging web application. The browser address bar shows the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?\_afWindowMode=0&\_afLoop=414259701553941&\_adf.ctrl-state=t1gf0oc. The page title is 'ORACLE WebCenter Content: Imaging'. The user is logged in as 'weblogic'. The main content area is titled 'Basic Information' and contains the following form fields and options:

- Name:** IPMBulkuploadST
- Description:** (Empty text area)
- Online:**
- Auto-detect input file character set:**
- Sample File:** DMSInputFile.txt, with 'Upload' and 'Browse' buttons.

Navigation buttons at the top right include 'Cancel', 'Back', 'Next', and 'Submit'. The left sidebar contains a tree view with categories: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs (containing IPMBulkuploadST and IPMBulkuploadT12), Manage Connections, and Manage Security. A 'Create Input' button is visible next to the 'Manage Inputs' section.

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

Figure 6–58 Input Agent: Input Mask



5. Upload the attached 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|
```

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 = '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.

---

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



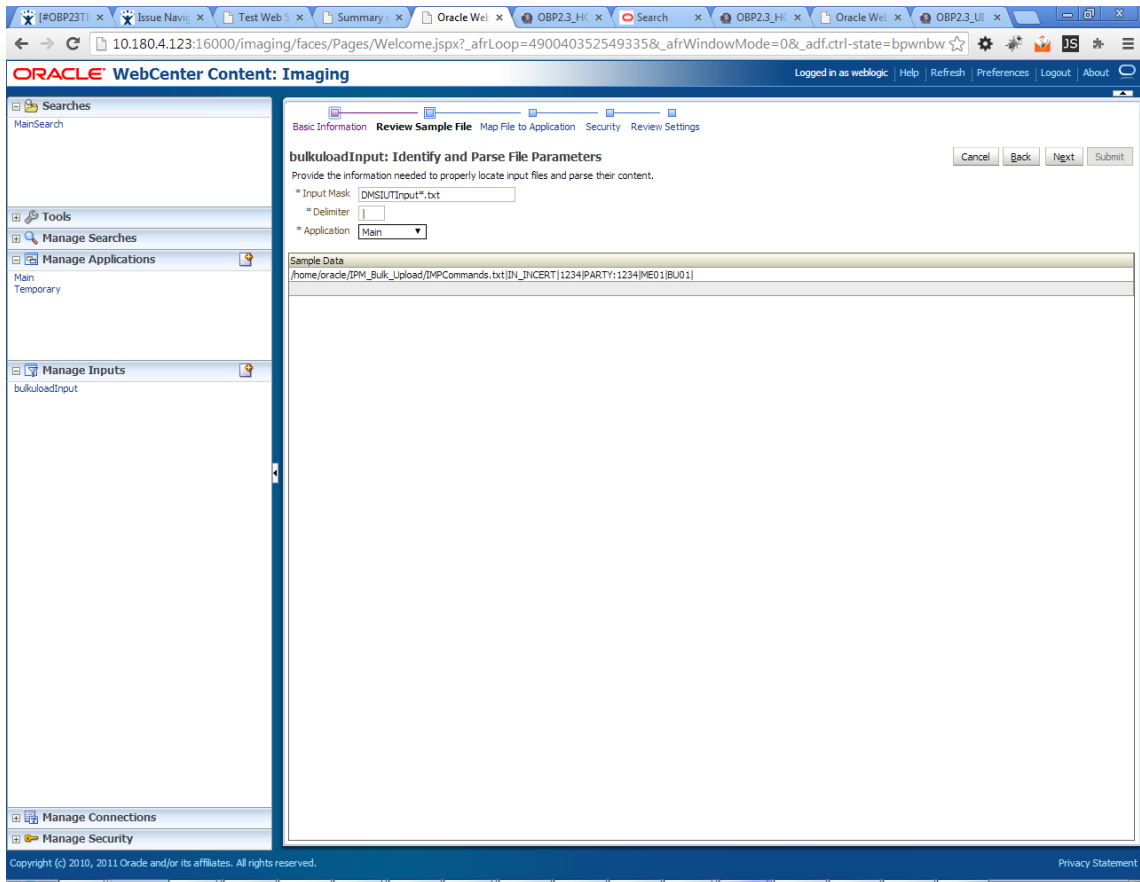
- From the **Application** field, select the application to which the input agent will be applied.

**Figure 6–59 Input Agent: File Parameters**

The screenshot shows the Oracle WebCenter Content: Imaging interface. The browser address bar indicates the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?\_afWindowMode=0&\_afLoop=414259701553941&\_adf.ctrl-state=t1gf0oc. The page title is "ORACLE WebCenter Content: Imaging". The user is logged in as "weblogic". The main content area is titled "IPMBulkuploadST: Identify and Parse File Parameters". It includes a "Review Sample File" tab and a "Sample Data" section. The "Sample Data" section displays the following text: "/home/oracle/IPM\_Bulk\_Upload/IPMCommands.txt|IN\_INCERT|1234|PARTY:1234|MED1|BU01|".

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

Figure 6–60 Input Agent: Fields Mapping



10. After completion of the procedure, the Input Summary appears. The Input agent should have the settings similar to those shown in Figure 6–61.

Figure 6–61 Input Agent: Summary

Oracle WebCenter Content: Imaging

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_JNCERT		
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...				
ACCOLUNT_ID				
BRANCH				
COLLATERAL ID				
BORROWING ENTITY				
APPLICATION				
COLLATERAL				
FACILITY				

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**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 6–1 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 1.5 Manage Inputs for Input Agents section.

Figure 6–62 flx\_fw\_config\_all\_b table

The screenshot shows the Oracle SQL Developer interface with a query executed in the Worksheet. The query is: `select * from flx_fw_config_all_b where category_id = 'reports';` The Query Result pane displays 14 rows of data from the 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/ORAOCF	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.

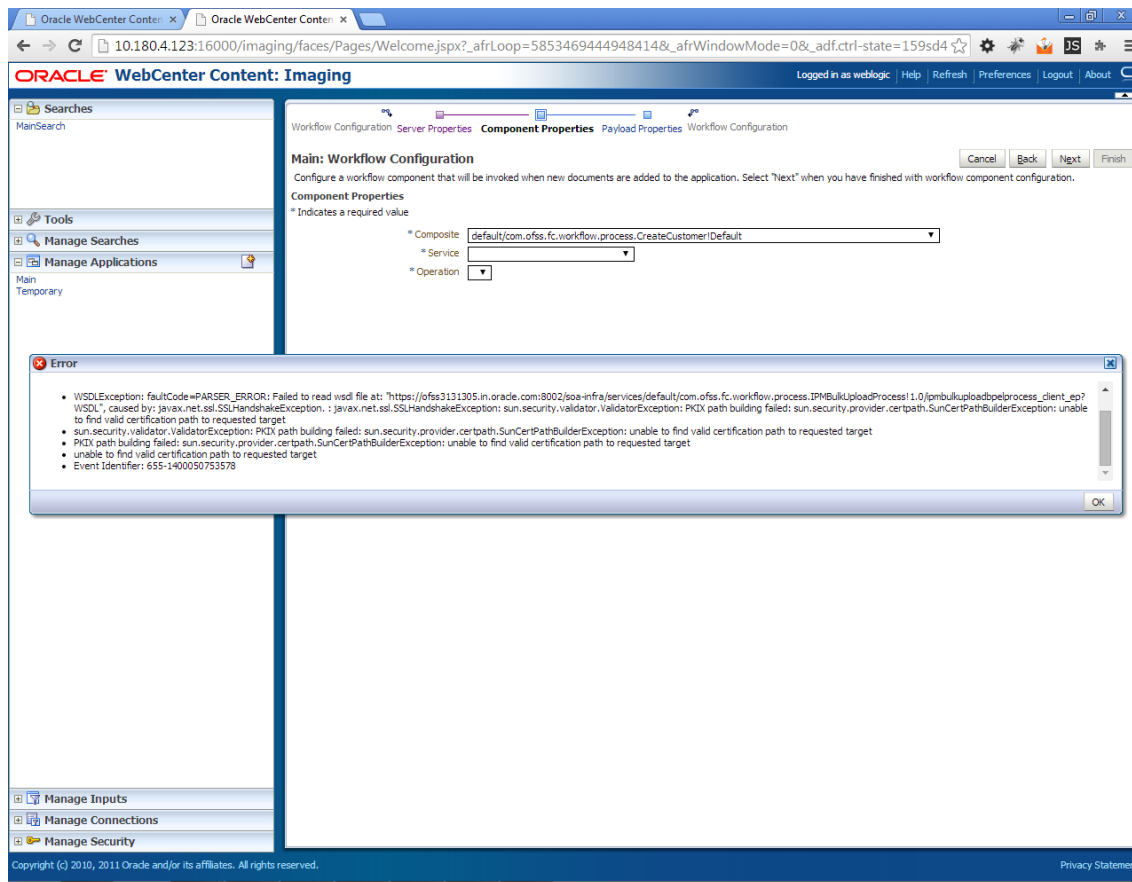
```
keytool -import -noprompt -trustcacerts -alias UI_SSL_trustself -file SOACert.cer -keystore cacerts -storepass changeit
```

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 6–63 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.

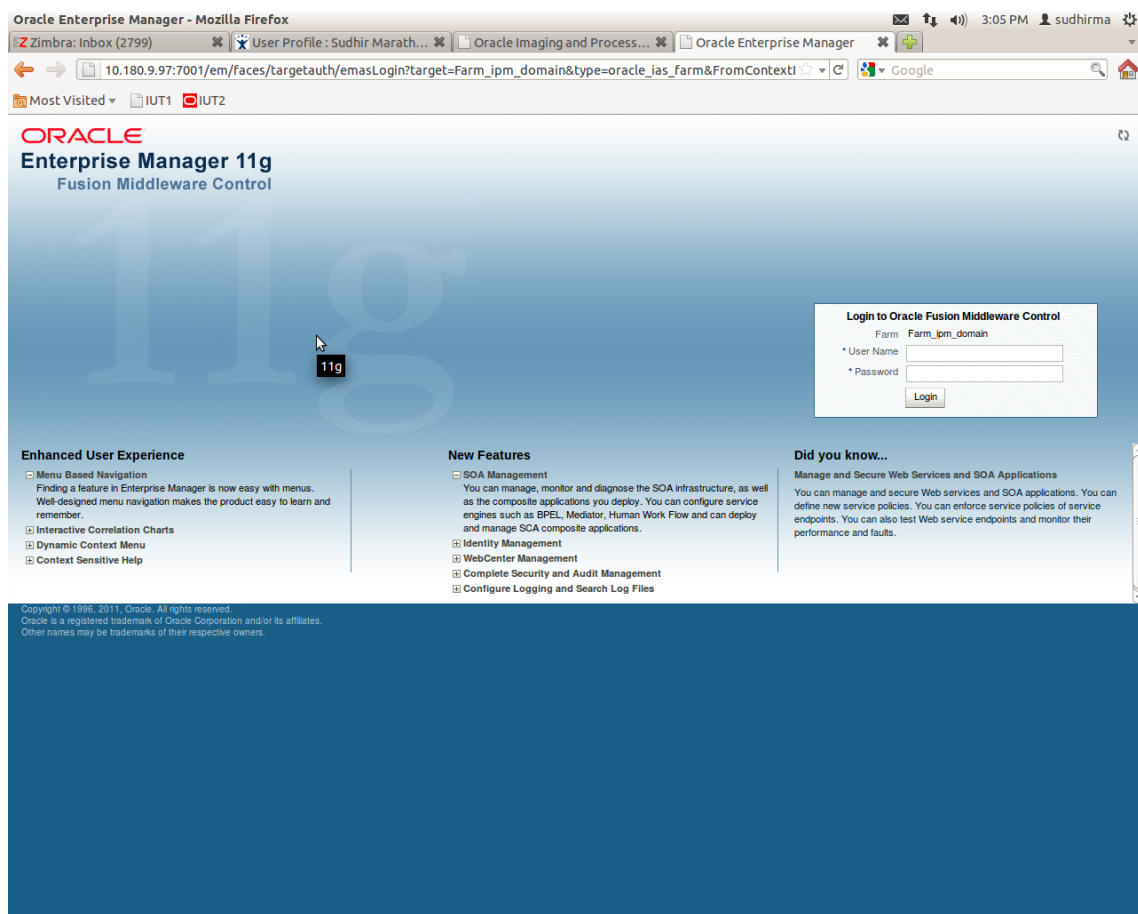
### 7.3.2 Setting up the Connection Name

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 6–64 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 6–65 Click Weblogic Domain: ipm domain

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The main content area is divided into two panels:

- Deployments:** A pie chart shows 100% Up (13). Below it is a table listing application deployments:

Name	Status	Target
Application Deployments		
Internal Applications		
Imaging	Up	IPM_server1
Oracle UCM Help	Up	UCM_server1
Oracle UCM Native Web Services	Up	UCM_server1
Oracle UCM Web Services	Up	UCM_server1

- Fusion Middleware:** A pie chart shows 57% Up (4) and 43% Down (3). Below it is a table listing WebLogic Domain components:

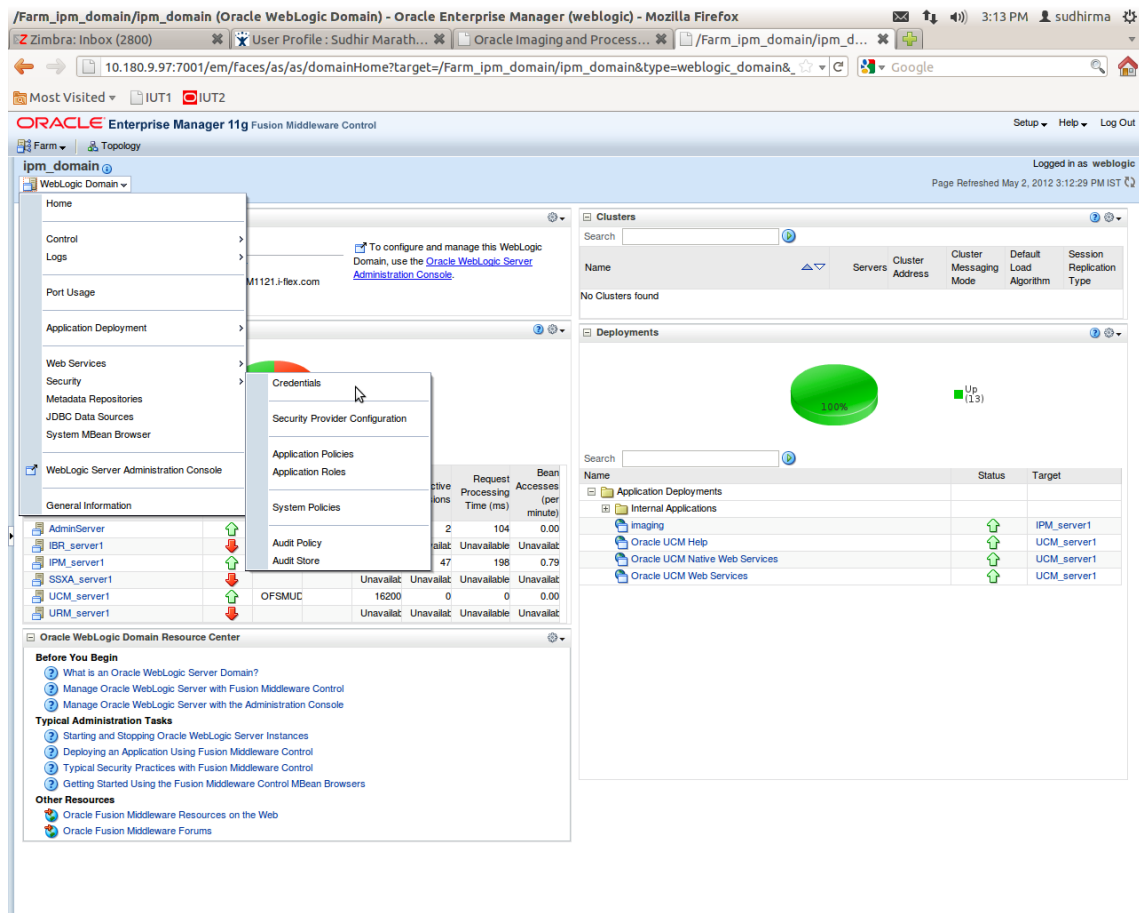
Name	Status	Host
WebLogic Domain		
ipm_domain		
AdminServer	Up	OFSMUD6VM1121
IPM_server1	Down	OFSMUD6VM1121
SSXCA_server1	Down	OFSMUD6VM1121
UCM_server1	Up	OFSMUD6VM1121
URM_server1	Down	OFSMUD6VM1121
Content Management		
Universal Content Management		
Content Server		
Oracle Universal Content Management - Content Server (UCM_server1)	Up	OFSMUD6VM1121

At the bottom of the Fusion Middleware panel, there is a **Farm Resource Center** section with links for "Before You Begin", "Typical Administration Tasks", and "Other Resources".

The URL at the bottom of the browser window is: [http://10.180.9.97:7001/em/faces/as/...indowMode=0&\\_afwWindowId=u3eep7pw7\\_90#](http://10.180.9.97:7001/em/faces/as/...indowMode=0&_afwWindowId=u3eep7pw7_90#)

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

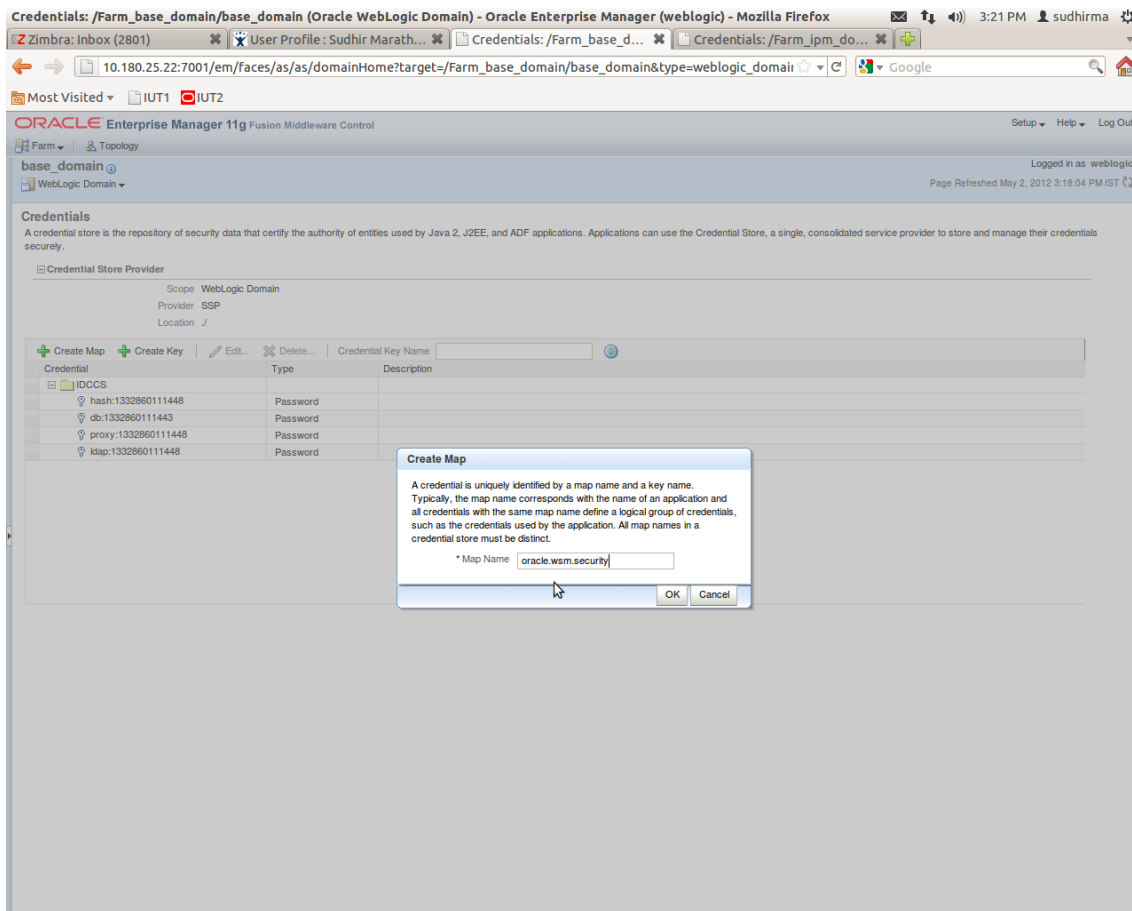
**Figure 6–66 Navigate to Weblogic Domain --> Security --> Credentials**



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

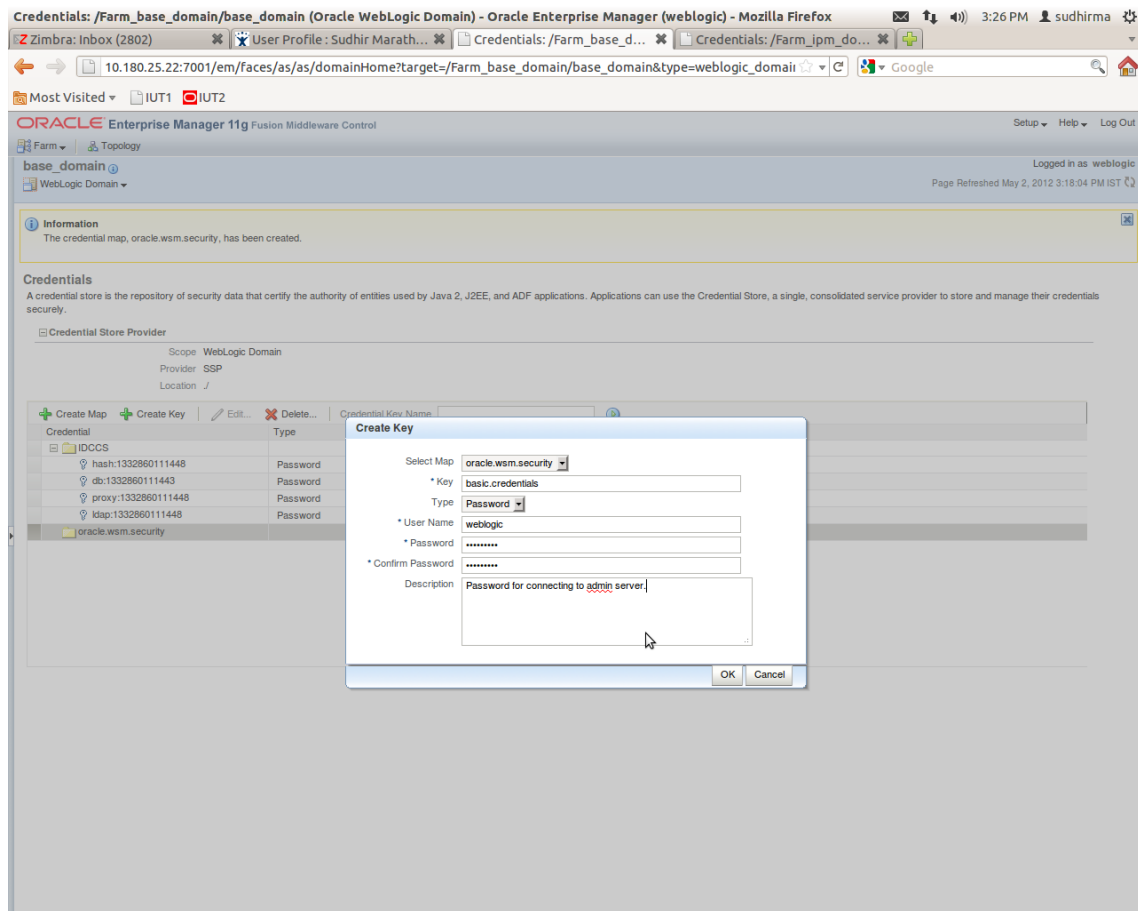


Figure 6–67 Create Map oracle.wsm.security



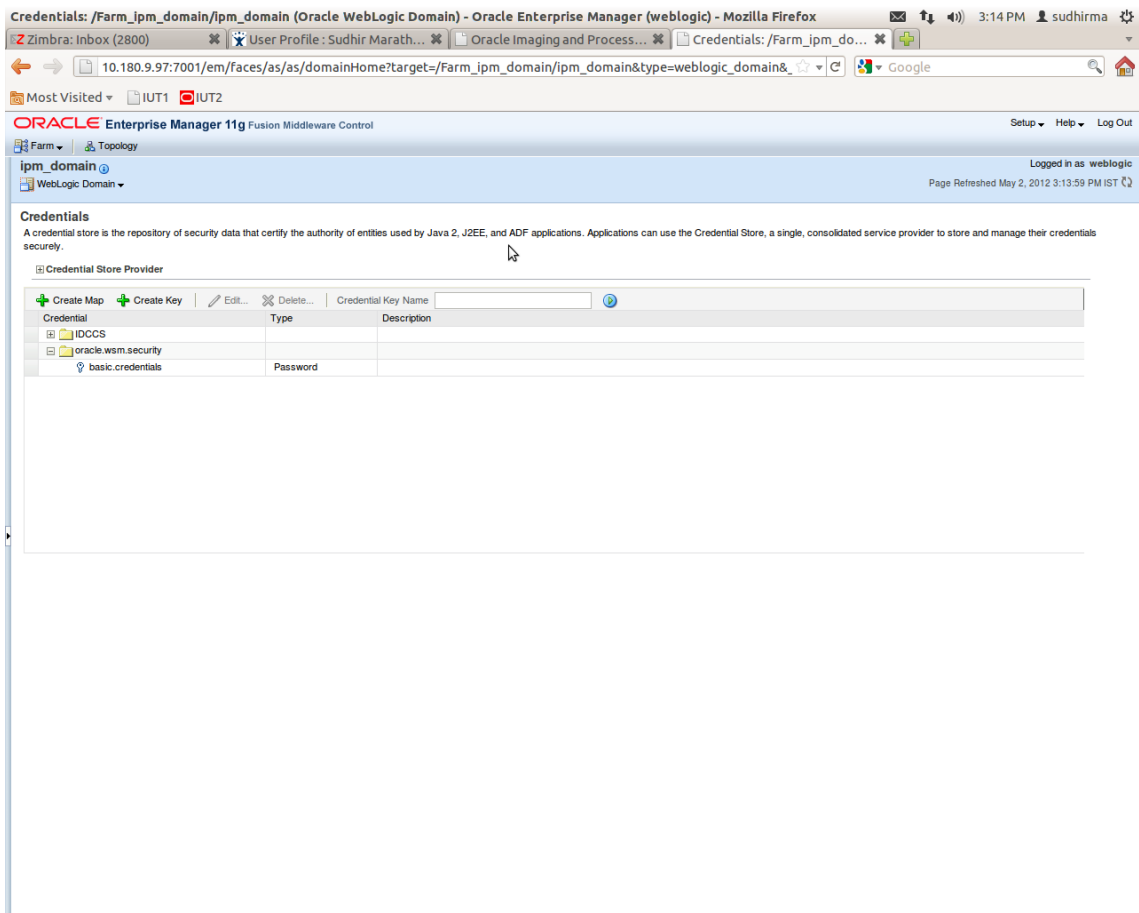
6. Click **Create Key** to create a key under the map **oracle.wsm.security**.

Figure 6–68 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 6–69 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 6–70 Navigate to Weblogic Domain --&gt; System MBean Browser

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The left-hand pane displays a navigation tree with the following items:

- Home
- Control
- Logs
- Port Usage
- Application Deployment
- Web Services
- Security
- Metadata Repositories
- JDBC Data Sources
- System MBean Browser** (highlighted)
- WebLogic Server Administration Console
- General Information

The main content area shows the 'ipm\_domain' configuration page. A table lists the servers and their status:

Host	Cluster	Listen Port	Active Sessions	Request Processing Time (ms)	Bean Accesses (per minute)
	OFSMUC	7001	3	374	0.00
		Unavailable	Unavailable	Unavailable	Unavailable
	OFSMUC	16000	50	96	1.18
		Unavailable	Unavailable	Unavailable	Unavailable
	OFSMUC	16200	0	0	0.00
		Unavailable	Unavailable	Unavailable	Unavailable

The 'Declarations' section shows a table of application deployments:

Name	Status	Target
Application Deployments		
Internal Applications		
imaging	Up	IPM_server1
Oracle UCM Help	Up	UCM_server1
Oracle UCM Native Web Services	Up	UCM_server1
Oracle UCM Web Services	Up	UCM_server1

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 6–71 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 MBeans, with the path `oracle.imaging:Location=IPM_server1,type=config` selected. The right pane shows the configuration for the `InputDirectories` MBean, which is highlighted in orange. The configuration table is as follows:

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	GDFontPath	RW	/usr/share/X11/fonts/TTF
10	InputAgentRetryCount	RW	3
11	InputDirectories	RW	home/oracle/testinputagent/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

8. Restart IPM server.

### 7.3.4 Create SOA Connection

To create a SOA Connection:

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

Figure 6–72 Manage Connections: Create Workflow Connection

The screenshot displays the Oracle WebCenter Content: Imaging interface. The main content area is titled "Report: Application Summary" and includes the following sections:

- Storage Policy:** Document Storage (Volume: File default) and 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.ReportIPMRefStoreProcess1.0; Service: reportipmrefstorepelprocess\_client\_ep; Operation: process.
- Payload Properties:** A table mapping process fields to field values.
 

Process Field	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:** A table showing recent changes to the definition.
 

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

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

Figure 6–73 IUTSOA: Basic Information

The screenshot shows the Oracle WebCenter Content: Imaging interface. The browser address bar displays the URL: 10.180.84.230:16000/imaging/faces/Pages/Welcome.jspx?\_afLoop=413124561435626&\_afWindowMode=0&\_adf.ctrl-state=t1gf0oc. The page title is "ORACLE WebCenter Content: Imaging" and the user is logged in as "weblogic".

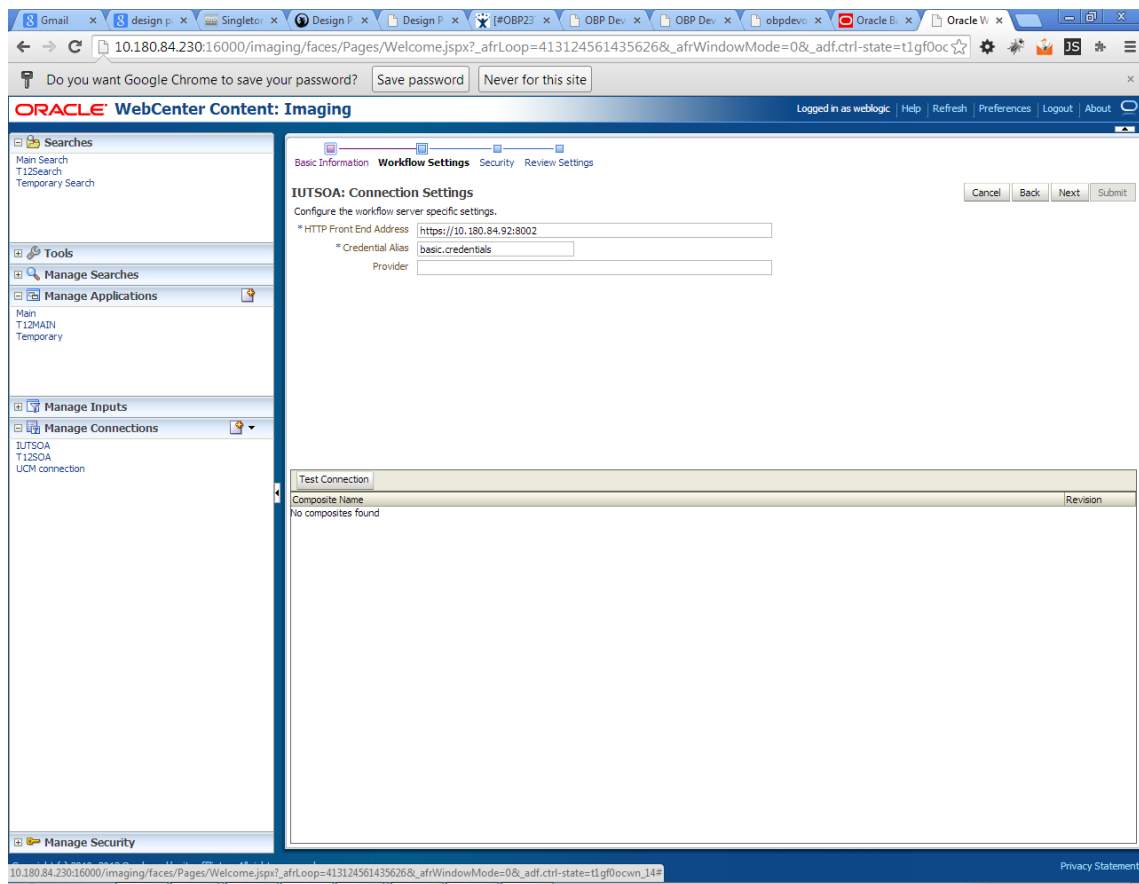
The main content area is titled "IUTSOA: Basic Information" and includes the following fields and options:

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

Navigation buttons at the top right include "Cancel", "Back", "Next", and "Submit". The left sidebar contains a tree view with categories: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, Manage Connections, and Manage Security. The "Manage Connections" category is expanded, showing "IUTSOA", "T12SOA", and "UCM connection".

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

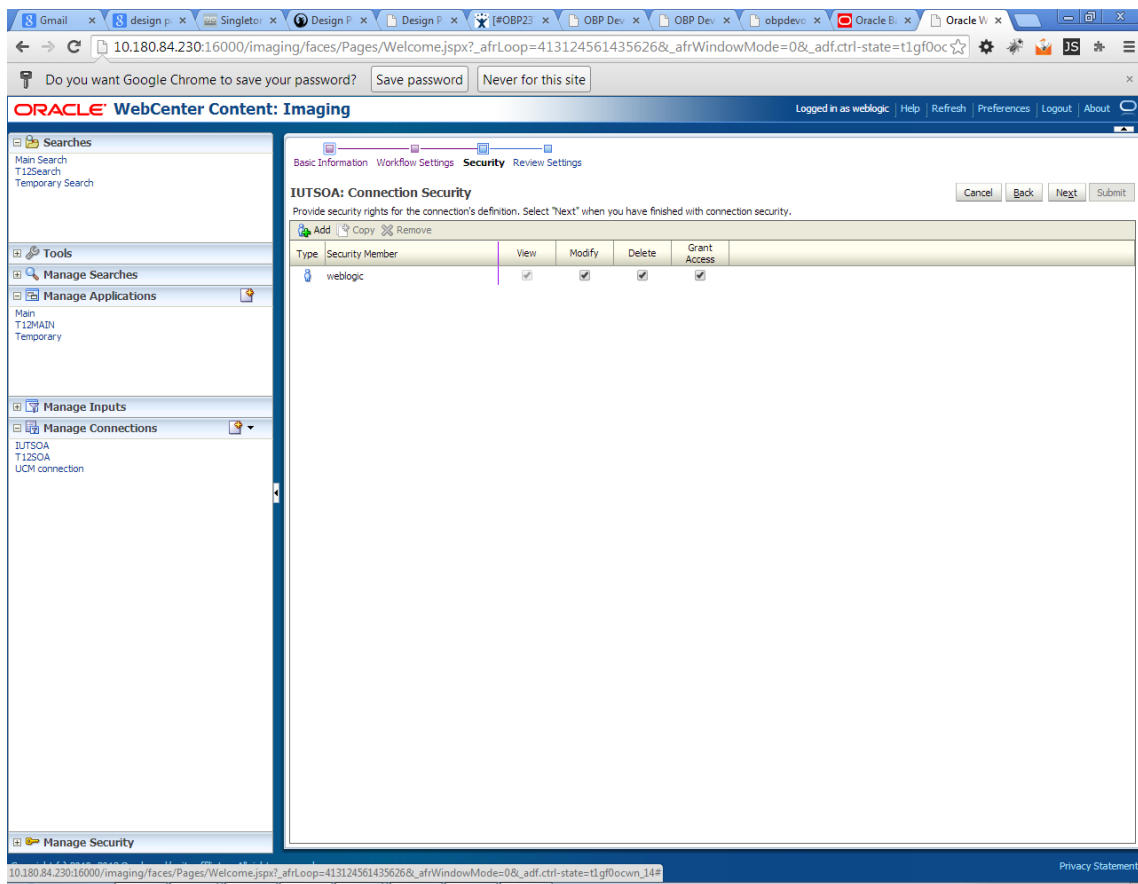
Figure 6–74 IUTSOA: Workflow Settings



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



Figure 6–75 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 6–76 IUTSOA: Review Settings

The screenshot shows the Oracle WebCenter Content: Imaging interface. The main content area displays the 'IUTSOA: Connection Summary' page. The page is organized into several 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:** A table listing security members with actions for View, Modify, Delete, and Grant Access.
- Audit History:** A table listing audit events with columns for Date, Type, and User Name.

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

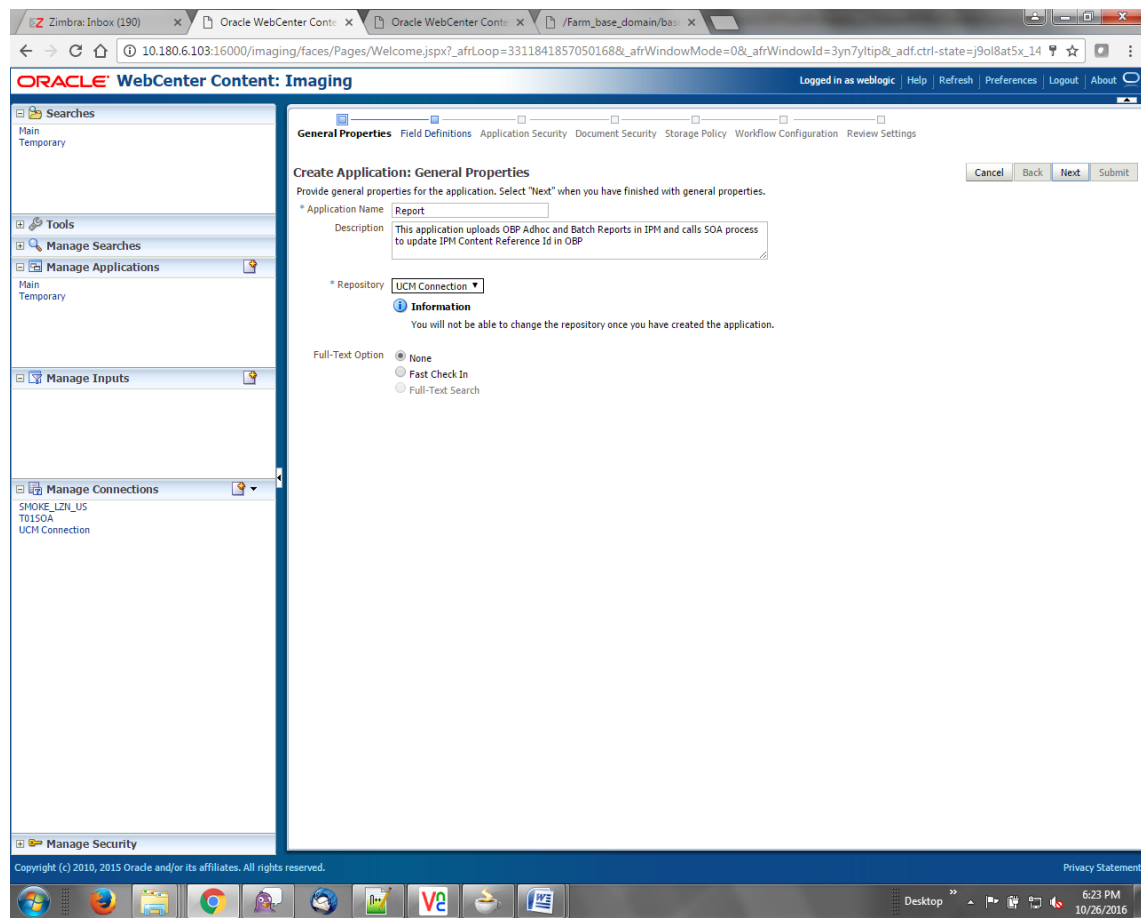
Date	Type	User Name
1/7/2014	Definition Create	weblogic
3/21/2014	Definition Modify	weblogic

The left sidebar contains navigation options: Searches, Tools, Manage Searches, Manage Applications, Manage Inputs, and Manage Connections. The 'Manage Applications' section is currently selected, showing 'IUTSOA' and 'UCM connection'.

### 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 6–77 Create Application: General Properties



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

Figure 6–78 Report: Field Definitions

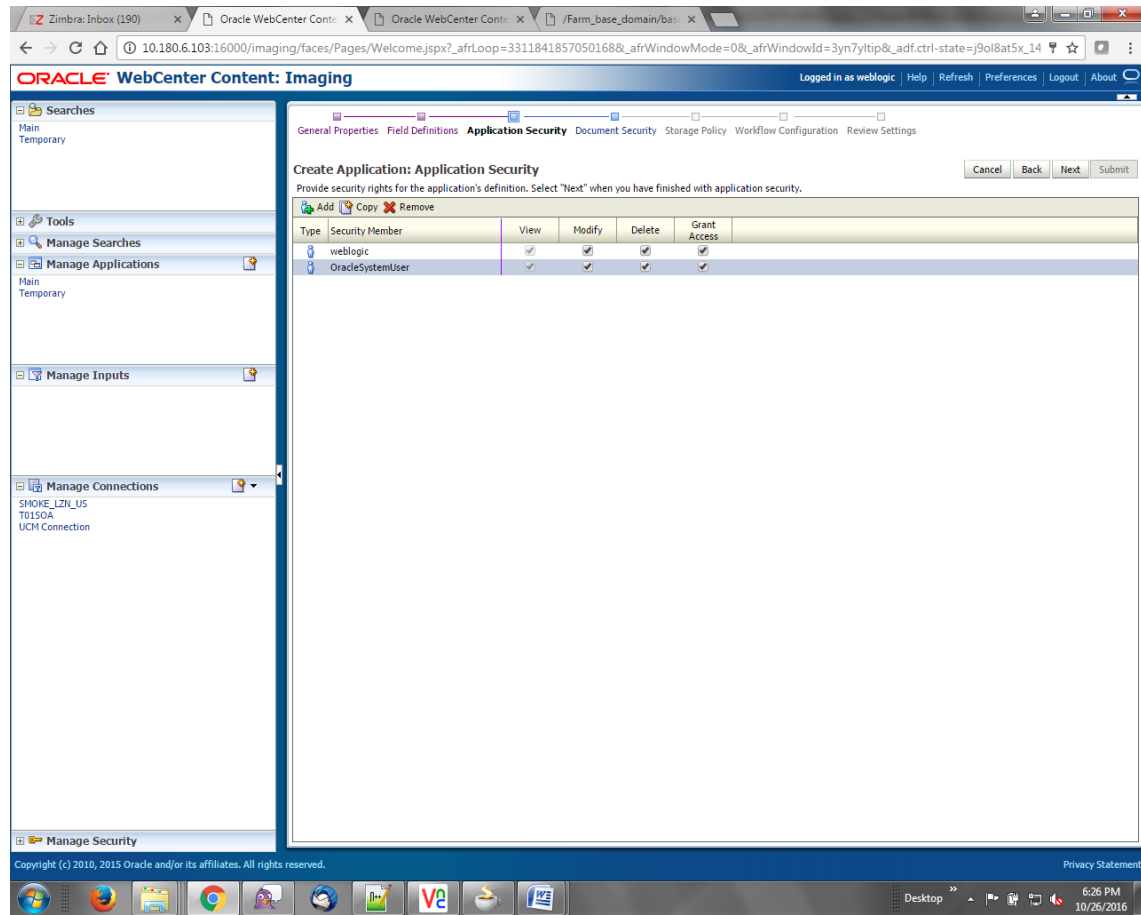
The screenshot shows the Oracle WebCenter Content: Imaging interface. The main content area is titled "Report: Field Definitions" and contains a table of field definitions. The table has the following columns: Type, Name, Length, Scale, Req, Inde, Default, and Value. The rows list various fields such as BANK\_CODE, CHANNEL, EXTERNAL\_BATCH\_NUMBER, EXTERNAL\_SYSTEM\_AUDIT\_TRAIL\_NUMBER, TARGET\_UNIT, TRANSACTION\_BRANCH, USER\_ID, ADHOC\_REPORT\_REQUEST\_ID, REPORT\_ID, REPORT\_TYPE, BRANCH\_GROUP\_CODE, REPORT\_RUN\_DATE, CONTENT\_REFERENCE\_ID, FILE\_PATH, and REPORT\_SPLIT\_KEY. The "Next" button is highlighted in the top right corner of the table area.

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

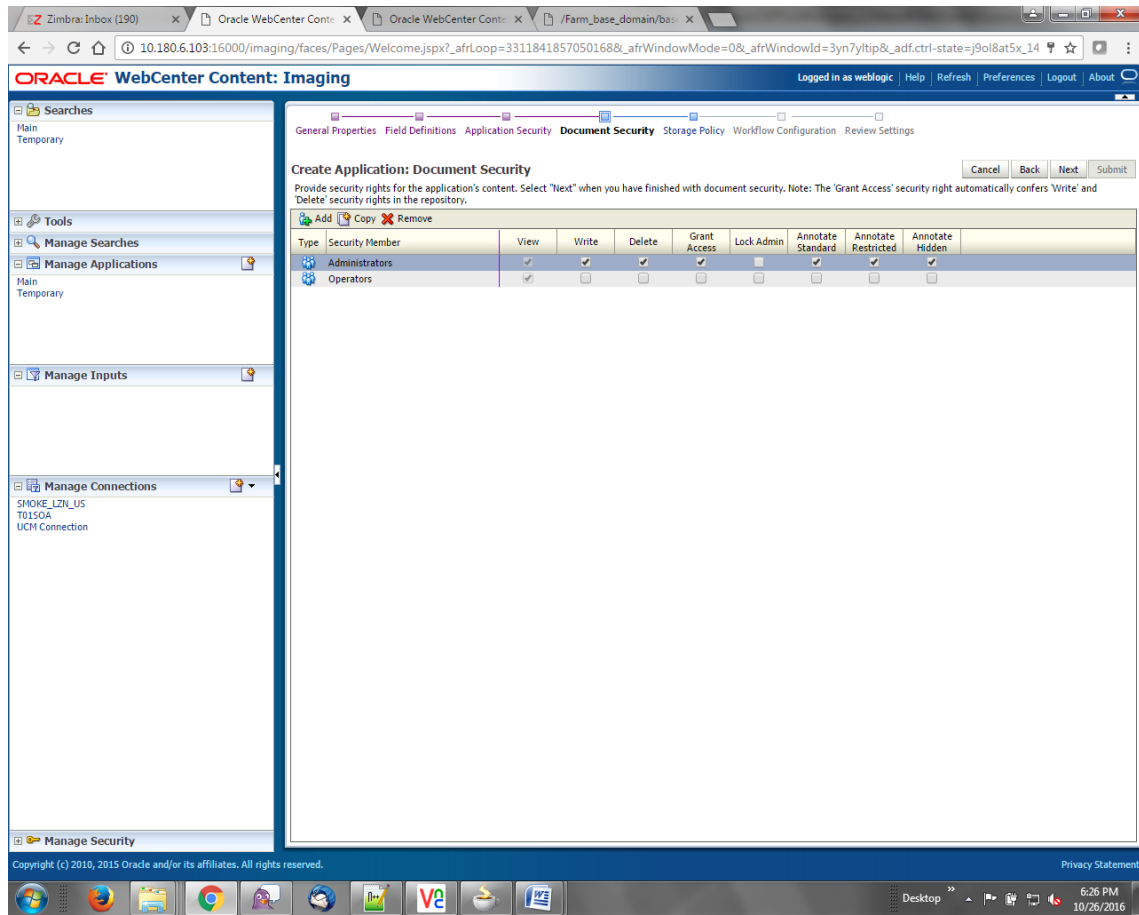
4. Enter the field definition details and click **Next**. The Create Application: Applications Security page appears.

Figure 6–79 Create Application: Applications Security



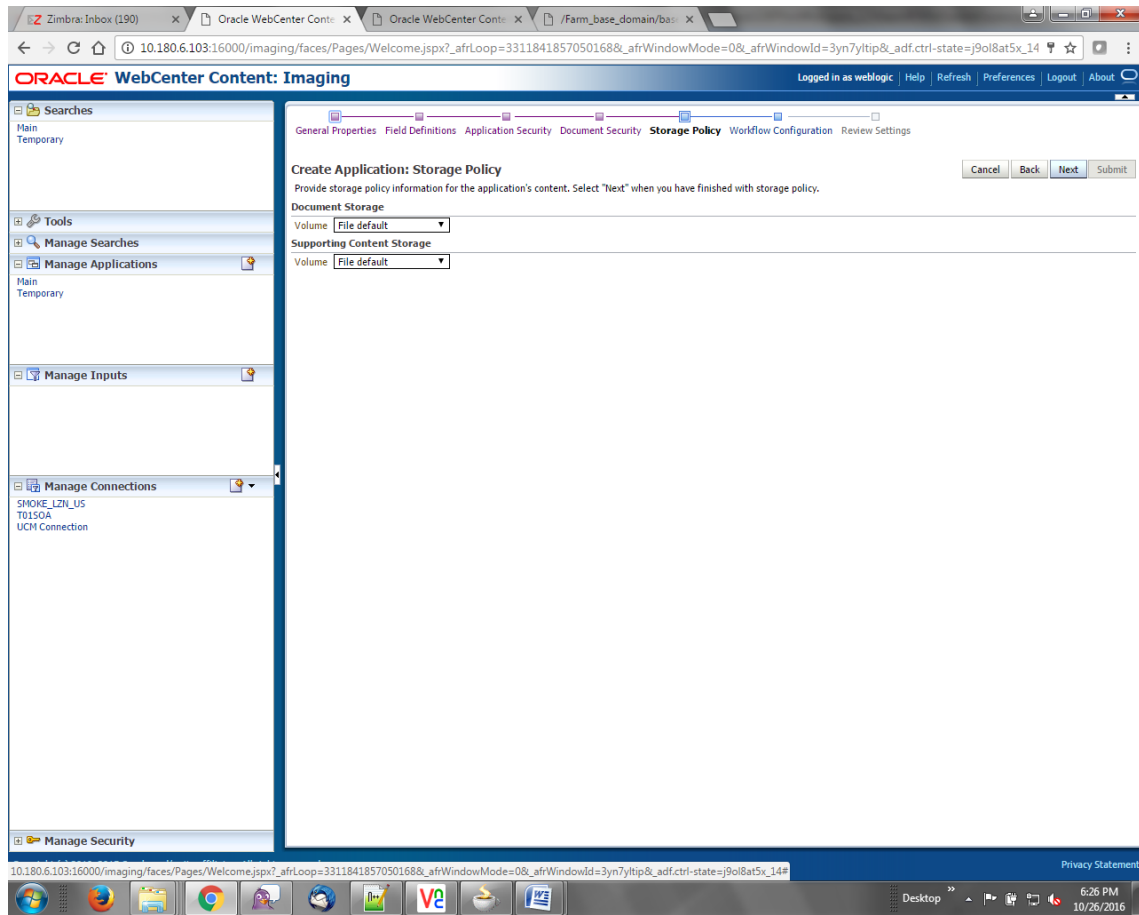
- In the Application Security section, select the access rights for users and click **Next**. The Create Application: Document Security page appears.

Figure 6–80 Create Application: Document Security



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

Figure 6–81 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 6–82 Report: Workflow Configuration - Server Properties

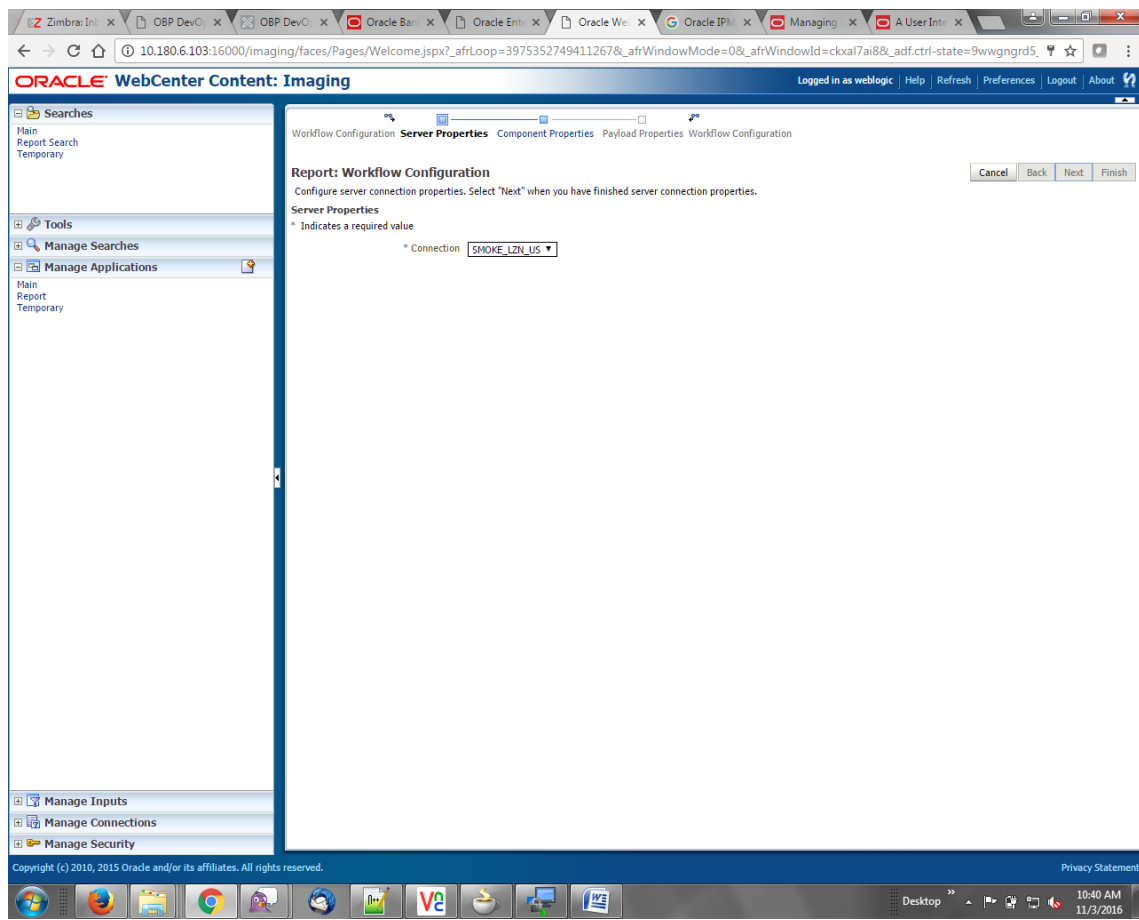




Figure 6–83 Report: Workflow Configuration - Component Properties

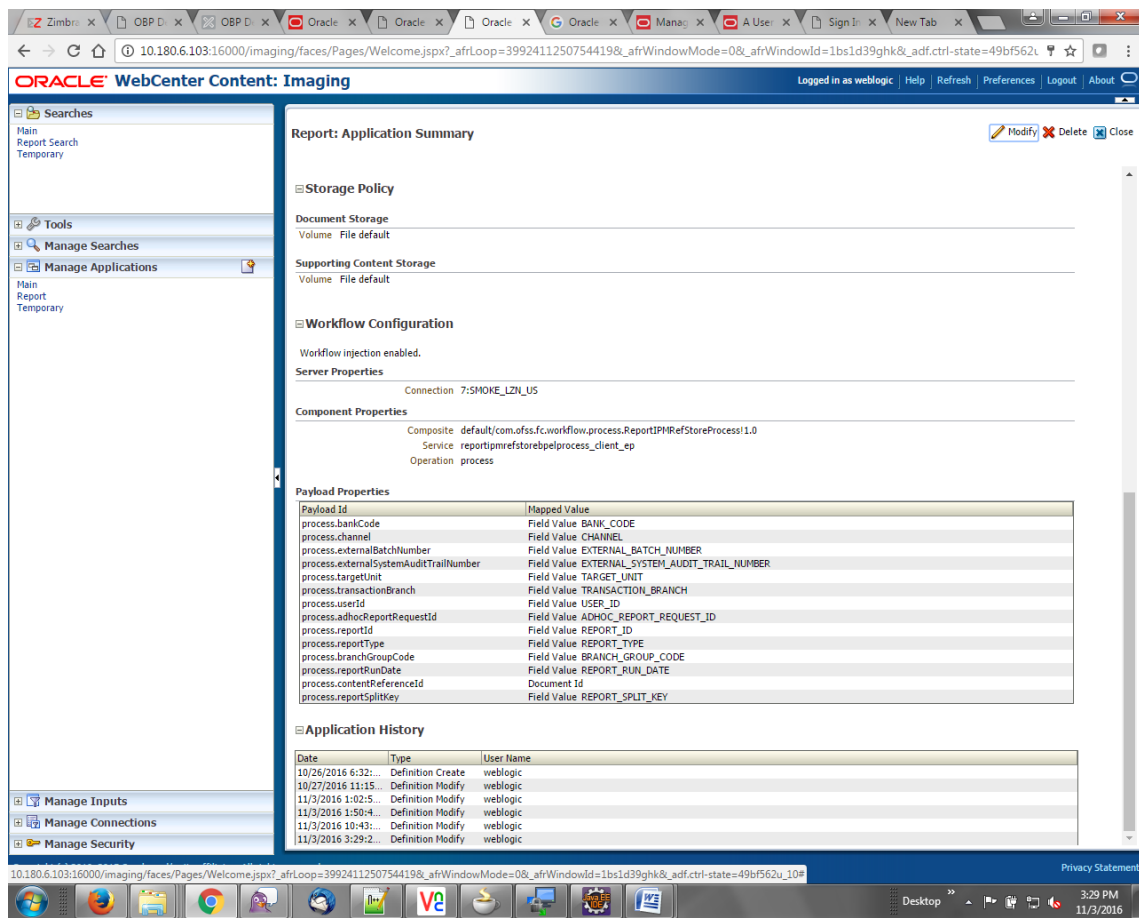
The screenshot displays the Oracle WebCenter Content: Imaging interface. The browser address bar shows the URL: `10.180.6.103:16000/imaging/faces/Pages/Welcome.jspx?_afrcLoop=3975352749411267&_afrcWindowMode=0&_afrcWindowId=cxal7ai8&_adf.ctrl-state=9wwngnrd5_10#`. The page title is "ORACLE WebCenter Content: Imaging" and the user is logged in as "weblogic".

The main content area is titled "Report: Workflow Configuration" and includes a sub-section for "Component Properties". The configuration details are as follows:

- Composite:** `default/com.ofss.fc.workflow.process.ReportIPMRefStoreProcess1.0`
- Service:** `reportipmrefstorebpelprocess_client_ep`
- Operation:** `process`

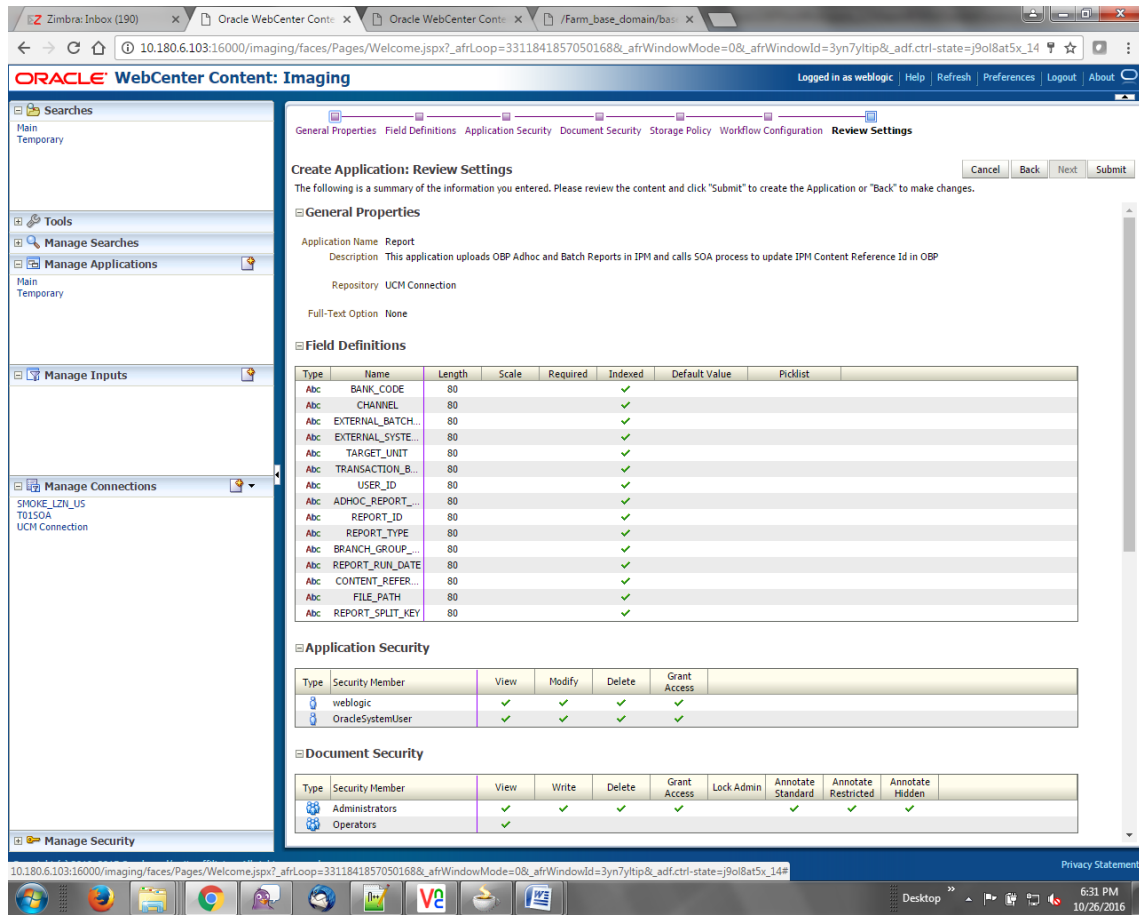
Navigation buttons at the top right include "Cancel", "Back", "Next", and "Finish". The left sidebar contains navigation options such as "Searches", "Tools", "Manage Searches", "Manage Applications", "Manage Inputs", "Manage Connections", and "Manage Security". The Windows taskbar at the bottom shows the system time as 10:41 AM on 11/3/2016.

Figure 6–84 Report: Application Summary



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

Figure 6–85 Create Application: Review Settings

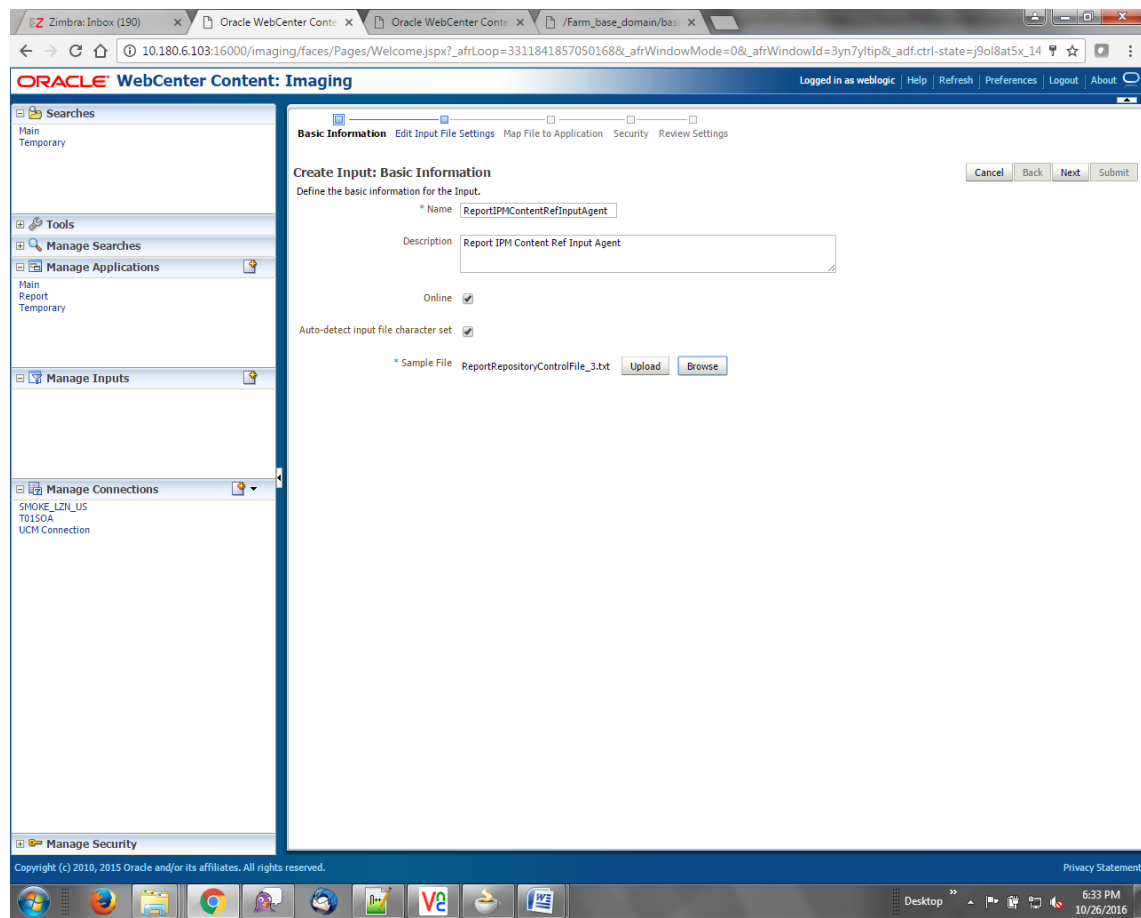


### 7.3.6 Manage Inputs for Input Agents

To manage workflow configuration:

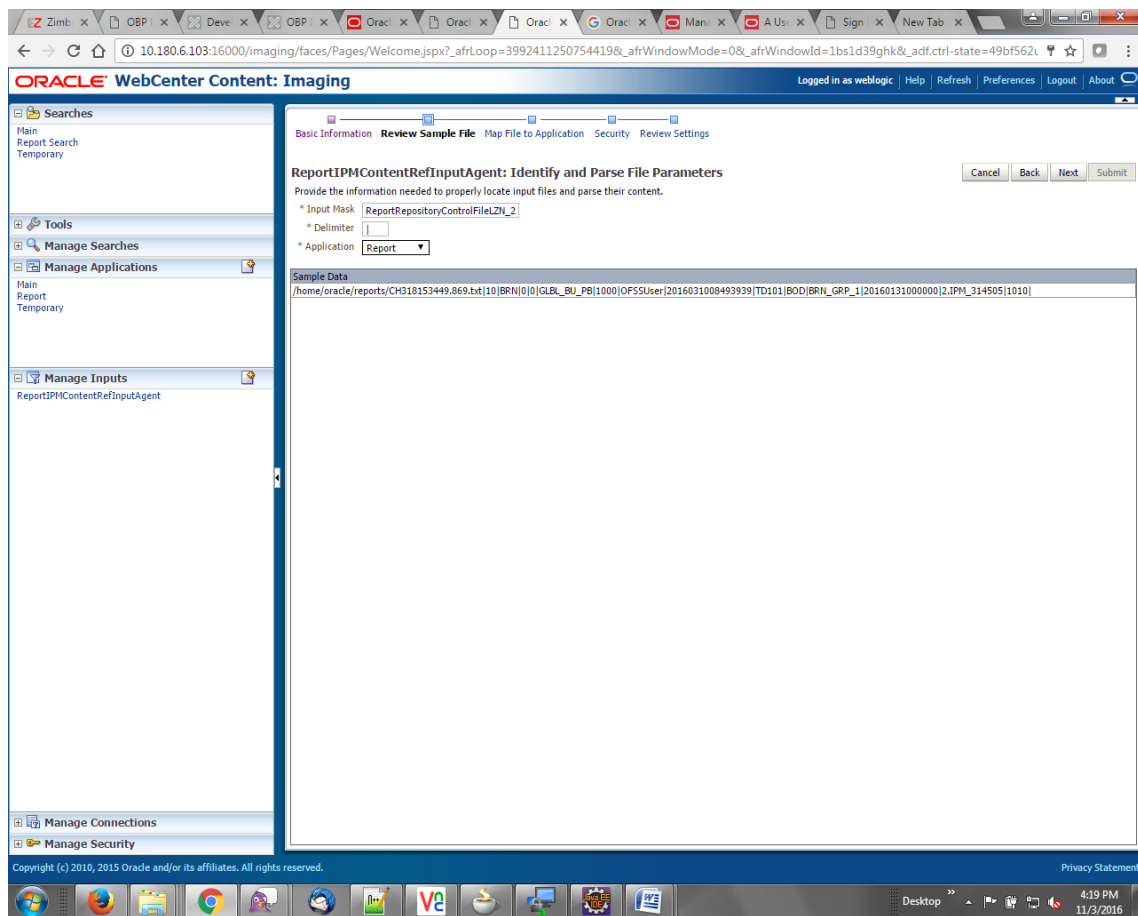
1. Log in to Image Processing Management (IPM).
2. Navigate to Manage Inputs section.

**Figure 6–86 Manage Inputs**



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

Figure 6–87 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.

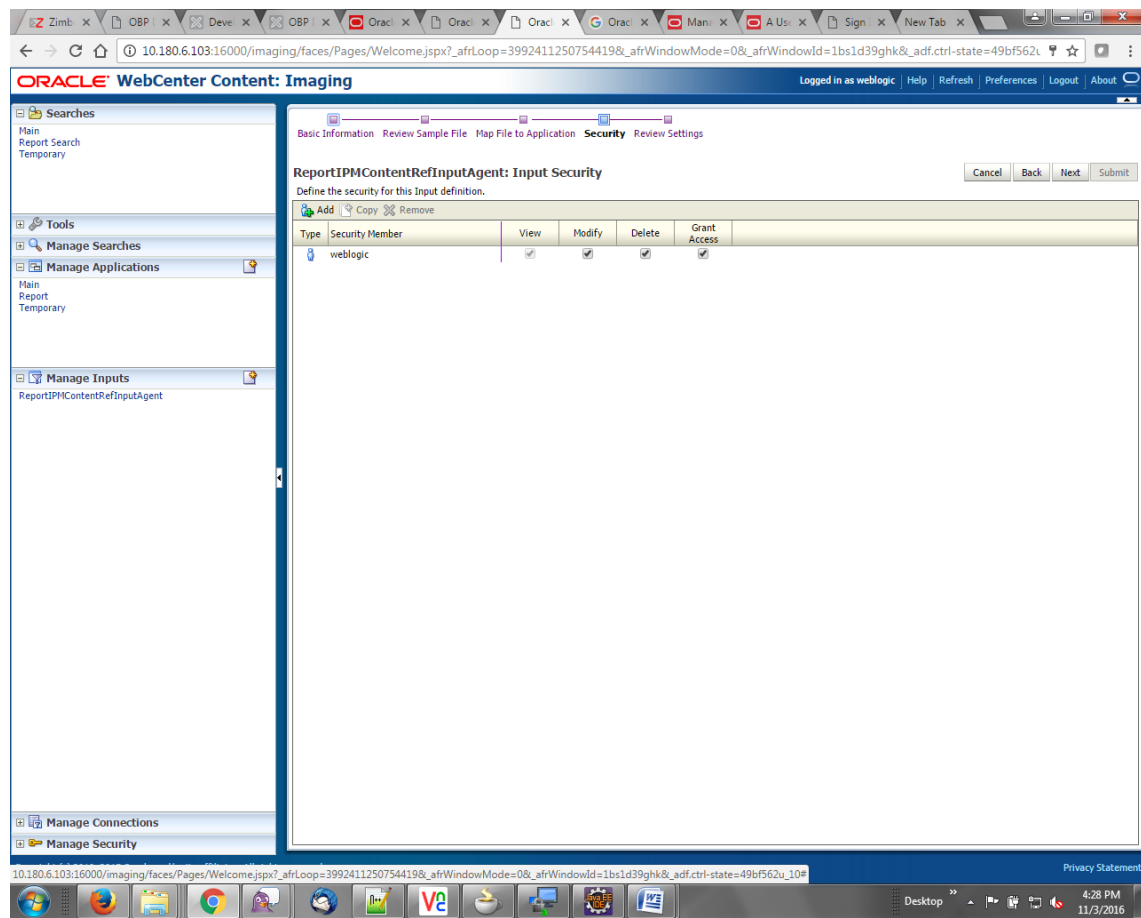
**Figure 6–88 Input Agent Details: Field Mapping**

The screenshot shows the Oracle WebCenter Content: Imaging interface. The main window is titled "ReportIPMContentRefInputAgent: Field Mapping" and contains a table for mapping application fields to input columns. The table has five columns: Application Fields, Input Column, Sample Data, Use Application Default, and Date Format. The "Input Column" column contains a dropdown menu with "Column 1" through "Column 15" selected. The "Sample Data" column shows various values corresponding to the application fields. The "Use Application Default" and "Date Format" columns contain icons for editing these settings.

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	BRN		
EXTERNAL_BATCH_NUMBER	Column 4	0		
EXTERNAL_SYSTEM_AUDIT_...	Column 5	0		
TARGET_UNIT	Column 6	GLBL_BJ_PB		
TRANSACTION_BRANCH	Column 7	1000		
USER_ID	Column 8	OFSSUser		
ADHOC_REPORT_REQUEST_...	Column 9	2016031008493939		
REPORT_ID	Column 10	TD101		
REPORT_TYPE	Column 11	BOD		
BRANCH_GROUP_CODE	Column 12	BRN_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		

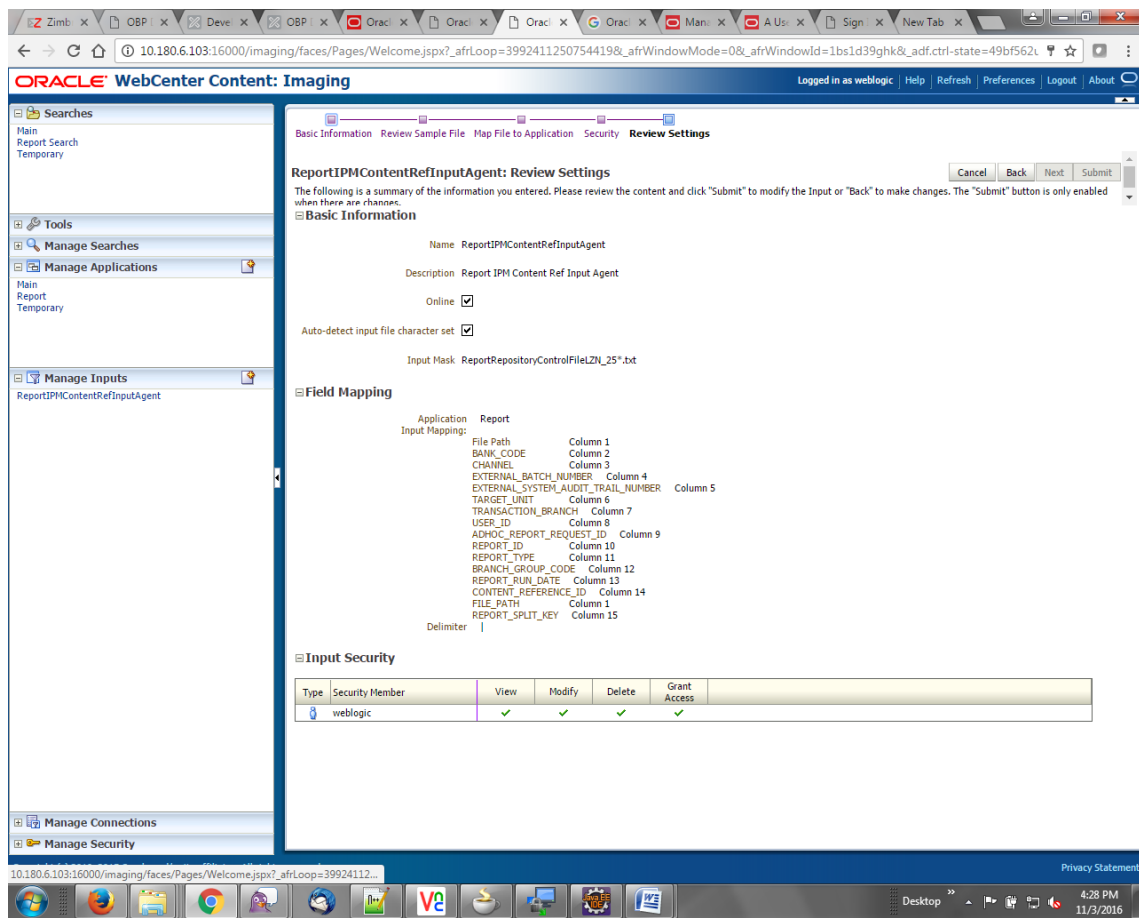
9. Select the access rights for user in the Security section and click **Next**.

Figure 6–89 Input Agent Details: Security



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

Figure 6–90 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 6–91 Create Search: Properties**

The screenshot shows the Oracle WebCenter Content: Imaging interface. The left sidebar contains a navigation menu with the following items: Searches (Main, Temporary), Tools, Manage Searches (Main, Temporary), Manage Applications (Main, Report, Temporary), Manage Inputs (ReportIPMContentRefInputAgent), Manage Connections (SMOKE\_LZH\_US, T01504, UCM Connection), and Manage Security. The main content area is titled 'Create Search: Properties' and includes a breadcrumb trail: Properties > Results Formatting > Conditions > Parameters > Security > Preview and Test > Review Settings. The form contains the following fields: Search Name (text input with value 'Report Search'), Description (text area with value 'Search Report Application'), Instructions (text area), and Maximum Search Results (text input with value '0'). At the top right of the form are buttons for 'Cancel', 'Back', 'Next', and 'Submit'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the time as 6:36 PM on 10/26/2016.

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

**Figure 6–92 Create Search: Results Formatting**

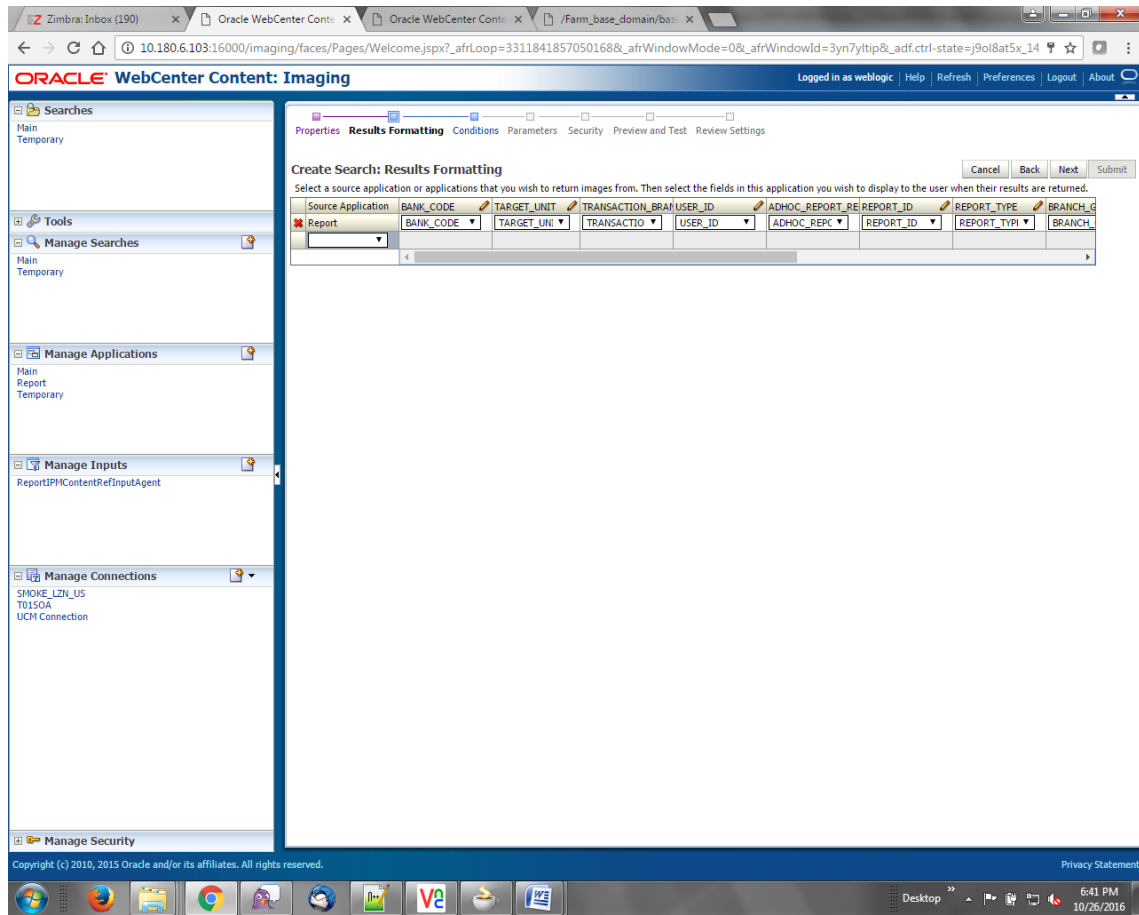


Figure 6–93 Create Search: Conditions

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

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

Cancel Back Next Submit

**Create Search: Conditions**  
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**

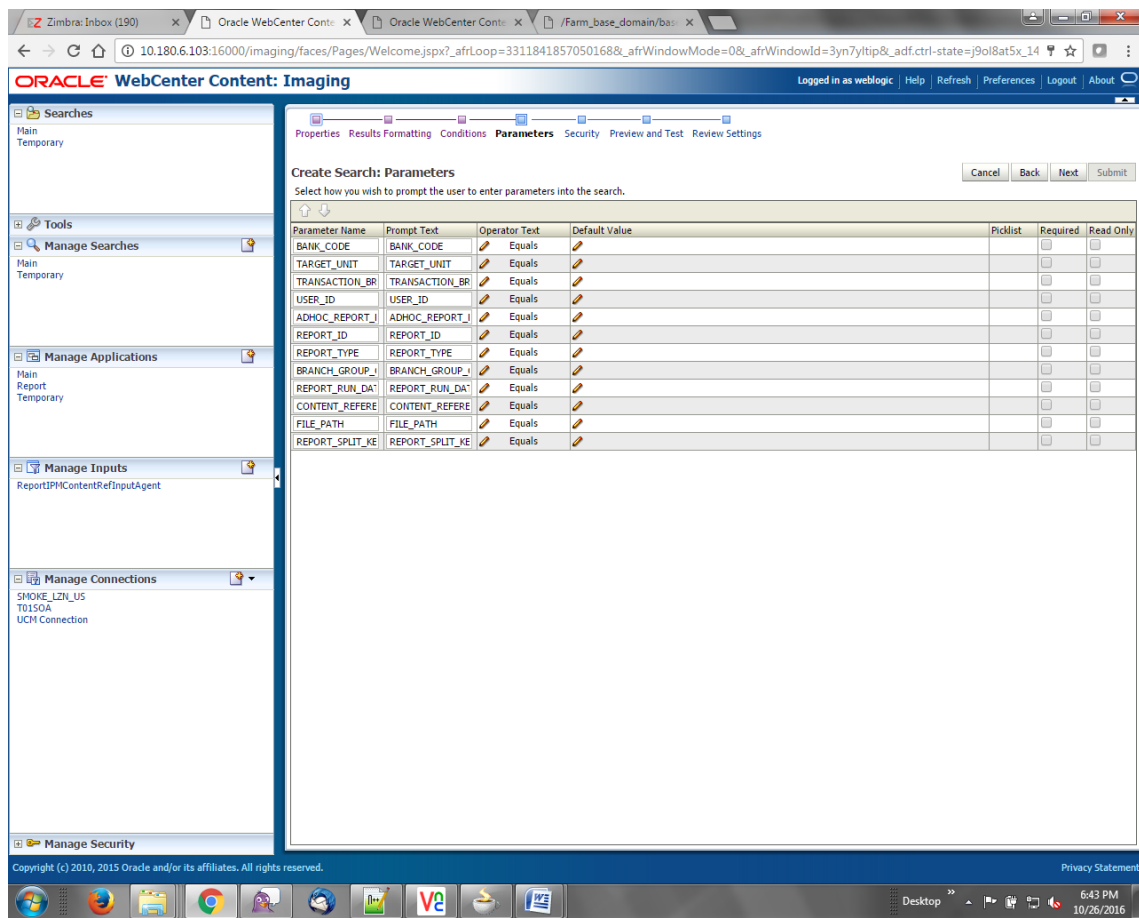
Application: Report

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

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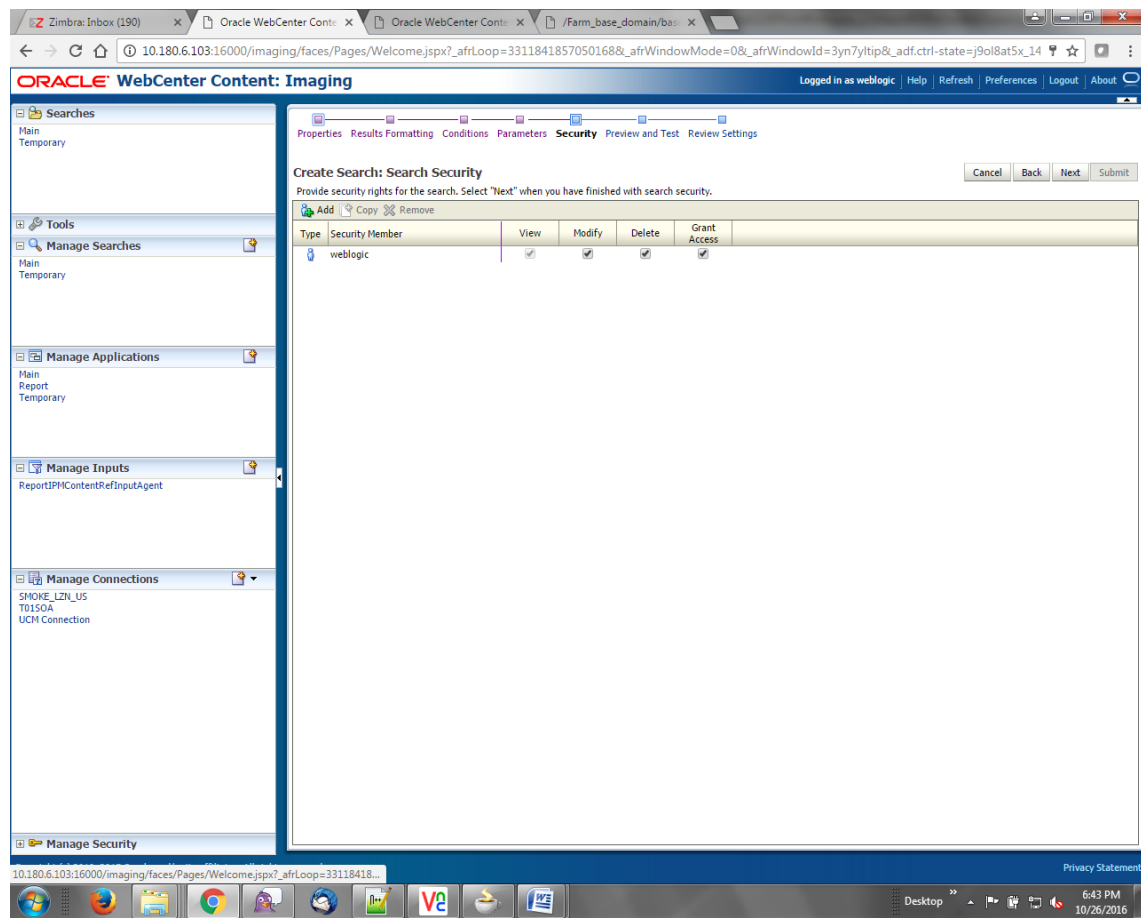
Desktop 6:43 PM 10/26/2016

Figure 6–94 Create Search: Parameters



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

Figure 6–95 Create Search: Security



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

Figure 6–96 Create Search: Preview and Test

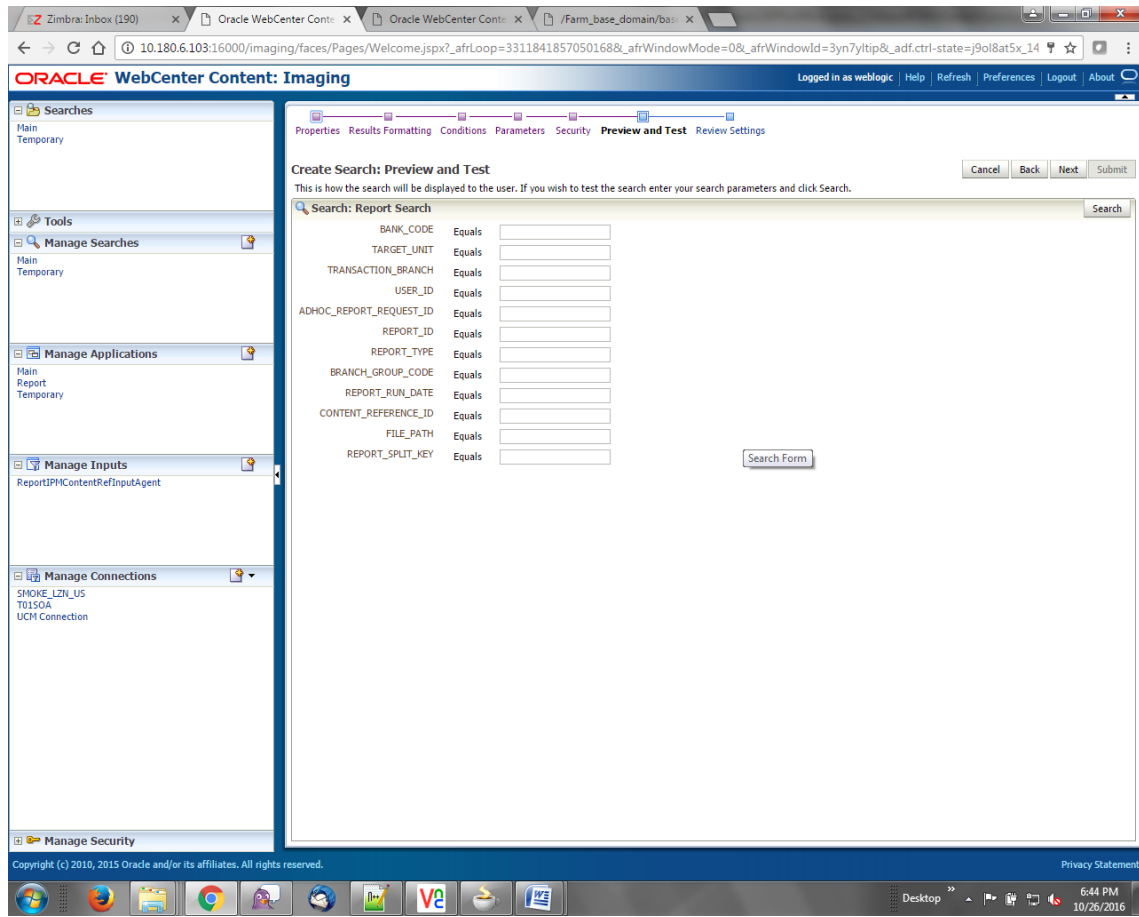


Figure 6–97 Create Search: Review Settings

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

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

**Create Search: 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 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_BRAI	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 6–2 PROP ID Values

PROP_ID	PROP_VALUE
FTPSEVER.DMSFILEPATH=/scratch/ofssobp/testinputagent/inputdir/1/	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 1.5 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 6–98 Component Properties

The screenshot shows the Oracle WebCenter Content: Imaging interface. The main window is titled "Component Properties" and is part of a "Workflow Configuration" process. The "Component Properties" section is currently active, showing a "Composite" dropdown menu set to "default/com.ofss.fc.workflow.process.CreateCustomer.Default". There are also "Service" and "Operation" dropdown menus, though they are not clearly visible.

An "Error" dialog box is overlaid on the main window, displaying the following message:

- WSDLException: faultCode=PARSER\_ERROR: Failed to read wsdl file at: "https://ofss3131305.in.oracle.com:8002/soa-infra/services/default/com.ofss.fc.workflow.process.IPMBulkUploadProcess/1.0/ipmbulkuploadpeprocess\_client\_ep?wsdl", caused by: javax.net.ssl.SSLHandshakeException: javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target
- sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target
- PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target
- unable to find valid certification path to requested target
- Event Identifier: 655-1400050753578

The error dialog box has an "OK" button at the bottom right. The main window also has "Cancel", "Back", "Next", and "Finish" buttons at the top right.

At the bottom of the Oracle WebCenter Content: Imaging window, the copyright notice reads: "Copyright (c) 2010, 2011 Oracle and/or its affiliates. All rights reserved." and a "Privacy Statement" link is visible on the right.

# 8 OAS (BIP) Datasource Creation

This chapter explains the steps required for Oracle Analytics Server (OAS) (formerly known as BIP or Business Intelligence Publisher) datasource creation.

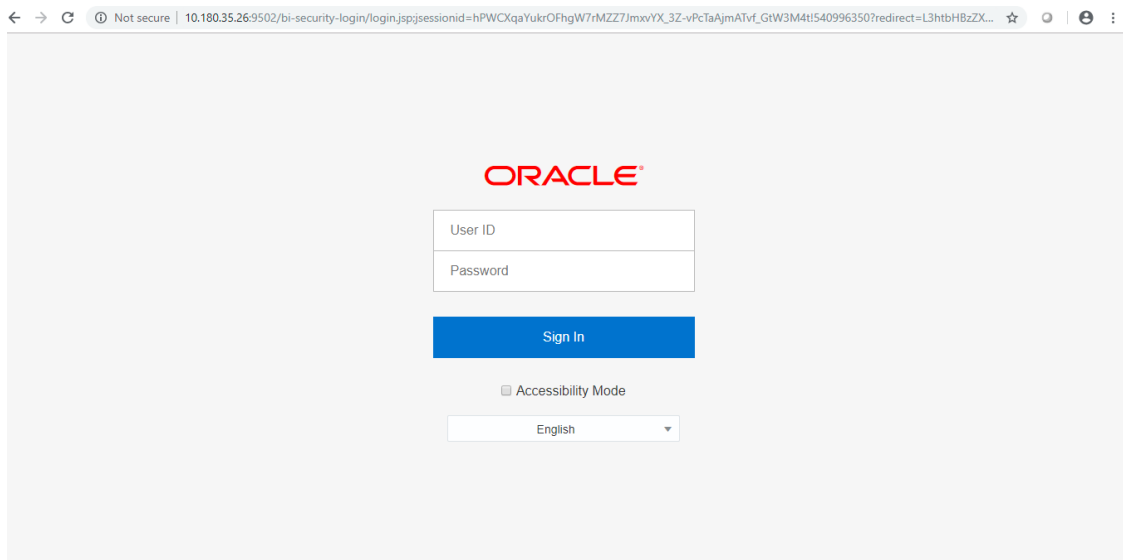
## 8.1 OAS (BIP) Datasource Creation

To use OAS (BIP), it is required to create datasource in OAS (BIP) server. This can be done after Host pre-install. The data source must point to the same db schema as given in BIP\_DATASOURCE\_NAME in installobphost.properties.

Follow the below mentioned steps to create the datasource:

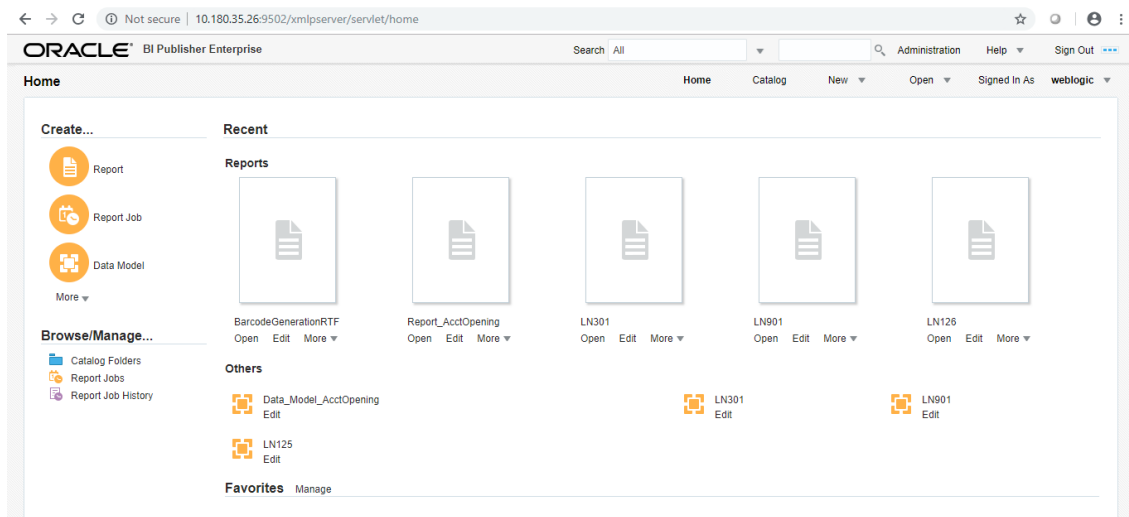
1. Open a browser and navigate to:  
<BIP\_SERVER\_IP>:<BIP\_SERVER\_PORT>/xmlpserver
2. Log in using the following credentials:
  - Username: <BIP\_SERVER\_USER>
  - Passowrd: <BIP\_SERVER\_PSWD>

**Figure 6–99 OAS (BIP) Server Console Login**



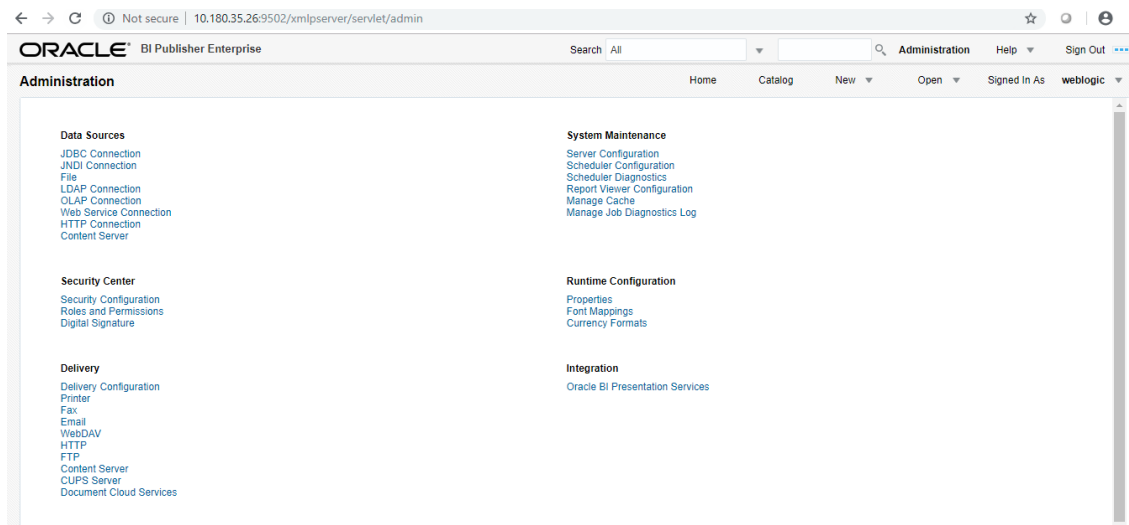
3. After logging in, click **Administration**.

Figure 6–100 OAS (BIP) Administration

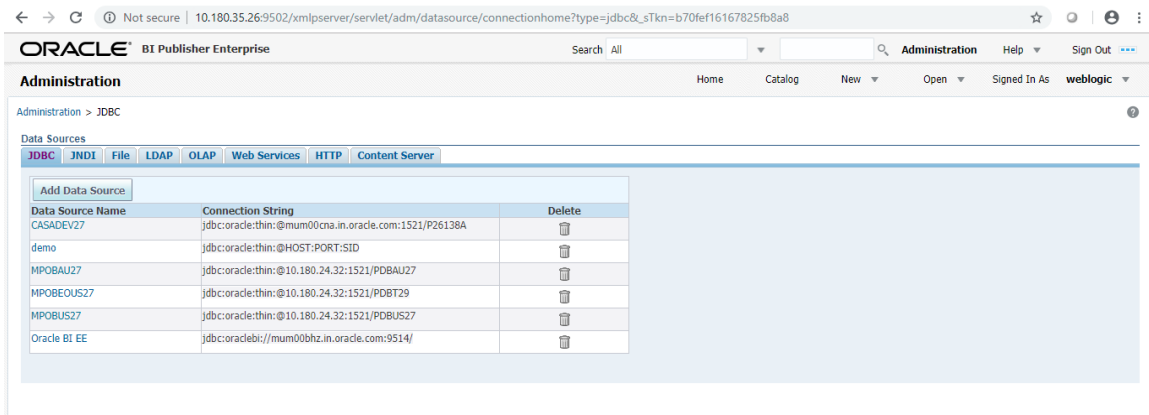


4. Click **JDBC Connection** under **Data Sources**.

Figure 6–101 OAS (BIP) JDBC Connection



5. Click the **Add Data Source** button.

**Figure 6–102 OAS (BIP) - Add Data Source**

- Fill up the following fields:

**Table 6–1 Data Source Details**

Field Name	Description
Data Source Name	Any name can be given here
Driver Type	Oracle 11g
Database Driver Class	oracle.jdbc.OracleDriver
Connection String	jdbc:oracle:thin:@<OBP_HOST_DB_IP>:<OBP_HOST_DB_PORT>:<OBP_HOST_DB_SERVICE_NAME>
Username	<BIP_DATASOURCE_NAME>
Password	<OBP_HOST_DB_PASSWORD>

- Click **OK**.

Figure 6–103 OAS (BIP) Data Source Created

The screenshot shows the Oracle BI Publisher Administration console. The browser address bar indicates the URL: `10.180.35.26:9502/xmlpservlet/adm/datasource/updateconnection?mode=UPDATE&type=jdbc&name=MPOBUS27&s_tkn=b70fef16167825fb8a8`. The page title is "ORACLE BI Publisher Enterprise Administration". The breadcrumb navigation shows "Administration > JDBC > Update Data Source: MPOBUS27".

The "Update Data Source: MPOBUS27" form is displayed with the following fields and values:

- Data Source Name:** MPOBUS27
- Driver Type:** Oracle 12c
- Database Driver Class:** oracle.jdbc.OracleDriver (Example: oracle.jdbc.OracleDriver)
- Connection String:** jdbc:oracle:thin:@10.180.24.32:1521/PDBUS27
- Use System User:**
- Username:** MPOBUS27
- Password:** \*\*\*\*\*
- Pre Process Function:** (empty)
- Post Process Function:** (empty)
- Use Proxy Authentication:**

At the bottom of the form, there is a "Test Connection" button. Two tips are visible at the top of the form:

- TIP** Please make sure to install the required JDBC driver classes.
- TIP** With Oracle Fusion Middleware Security Model, select the Use System User checkbox to use the BI System User for your BI Server Database Connection.

# 9 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 1.1.2.1 Certification Details](#).

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

## 9.1 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. Set ODI Level Configurations as 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`

# 10 Monitoring Servers Using Oracle Enterprise Manager

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

The OBLS servers can be monitored using Oracle Enterprise Manager. '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 OBLS Servers, follow the procedures given in Oracle Banking Loans Servicing Management Pack Setup Guide.





# 11 Post Installation Verification

This chapter lists the steps required to verify the Oracle Banking Loans Servicing solution installation.

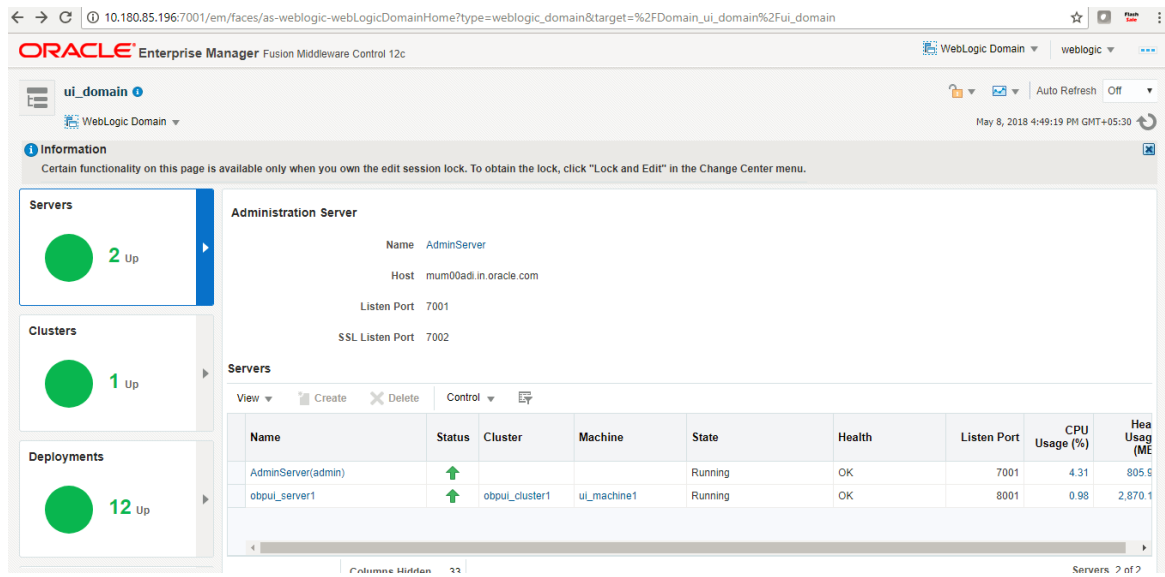
## 11.1 UI Domain Verification

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 OBLS libraries and applications is *Active*.
  - Shared Libraries
    - ob.app.client.coll
    - ob.app.client.communications
    - ob.app.client.cz
    - ob.app.client.deposit
    - ob.app.client.fw
    - ob.app.client.lcm
    - ob.app.client.lending
    - ob.app.client.or
    - ob.app.client.party
    - ob.app.client.pm
    - ob.app.client.pricing
    - ob.app.client.sh
    - ob.ui.coll
    - ob.ui.communications
    - ob.ui.cz
    - ob.ui.deposit
    - ob.ui.fusion
    - ob.ui.lcm
    - ob.ui.lending
    - ob.ui.or
    - ob.ui.party
    - ob.ui.pm

- ob.ui.pricing
  - 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.view
    - com.ofss.fc.ui.view.obcm
    - com.ofss.fc.ui.view.admin
    - com.ofss.fc.ui.view.admin.dashboard
    - com.ofss.fc.ui.view.developer
    - com.ofss.fc.ui.view.mds
    - com.ofss.fc.ui.view.obls
    - com.ofss.fc.ui.view.obepm
    - com.ofss.fc.ui.view.qa
    - com.ofss.fc.ui.view.taskqueue
4. In EM console (<UI\_IP>:<UI\_ADMIN\_PORT>/em), check the status of:
- Cluster
  - Managed Servers
  - Applications

**Figure 7–1 UI EM Console Status Check**



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 7–2 UI Admin wsm-pm Validator**

Policy Name	Priority	Description
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 7–3 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 <a href="http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/">http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/</a> and <a href="http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/">http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/</a> 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

## 11.2 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 OBLs libraries and applications is **Active**. Following are the details of all XD components libraries and ears:

### Batchhost Server deployments

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw

- ob.app.client.lcm
- ob.app.client.lending
- ob.app.client.or
- 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.lcm
- ob.app.host.or
- ob.app.host.party
- ob.app.host.pm
- ob.app.host.pricing
- ob.app.host.sh
- ob.app.host.tp
- ob.app.host.tp.cz
- ob.app.integration
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging
  - com.ofss.fc.middleware
  - com.ofss.fc.module.rest.ops
  - com.ofss.fc.reports.communications
  - com.ofss.fc.webservices
  - OBPAPI

### **OBPR Server deployments**

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz

- ob.app.client.deposit
- ob.app.client.fw
- ob.app.client.lcm
- ob.app.client.lending
- ob.app.client.or
- ob.app.client.party
- ob.app.client.pm
- ob.app.client.pricing
- ob.app.client.sh
- ob.app.host.cz
- ob.app.host.fw
- ob.app.host.pricing
- ob.app.host.tp
- ob.app.host.tp.cz
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.pricing
  - com.ofss.fc.middleware.pricing
  - com.ofss.fc.webservices.pricing

### **OBEPM Server deployments**

- 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.cz
  - ob.app.host.fw
  - ob.app.host.pm

- 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

### **OBLS Server deployments**

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.lending
  - ob.app.client.or
  - ob.app.client.party
  - ob.app.client.pm
  - ob.app.client.pricing
  - ob.app.client.sh
  - ob.app.host.cz
  - ob.app.host.fw
  - ob.app.host.lending
  - ob.app.host.sh
  - ob.app.host.tp
  - ob.app.host.tp.cz
  - ob.app.integration
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.lending

- com.ofss.fc.middleware.lending
- com.ofss.fc.webservices.lending

### **OBPM Server deployments**

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.lending
  - ob.app.client.or
  - ob.app.client.party
  - ob.app.client.pm
  - ob.app.client.pricing
  - ob.app.client.sh
  - ob.app.host.cz
  - ob.app.host.fw
  - ob.app.host.party
  - ob.app.host.tp
  - ob.app.host.tp.cz
  - ob.app.integration
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.party
  - com.ofss.fc.middleware.party
  - com.ofss.fc.webservices.party

### **OBShared Server Deployments**

- Shared Libraries
  - ob.app.client.coll
  - ob.app.client.communications



- ob.app.client.cz
- ob.app.client.deposit
- ob.app.client.fw
- ob.app.client.lcm
- ob.app.client.lending
- ob.app.client.or
- ob.app.client.party
- ob.app.client.pm
- ob.app.client.pricing
- ob.app.client.sh
- ob.app.host.cz
- ob.app.host.fw
- ob.app.host.sh
- ob.app.host.tp
- ob.app.host.tp.cz
- ob.app.host.communication
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.sh
  - com.ofss.fc.middleware.sh
  - com.ofss.fc.webservices.sh

### **OBCCM Server deployments**

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.lending
  - ob.app.client.or
  - ob.app.client.party

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

### JMS Modules

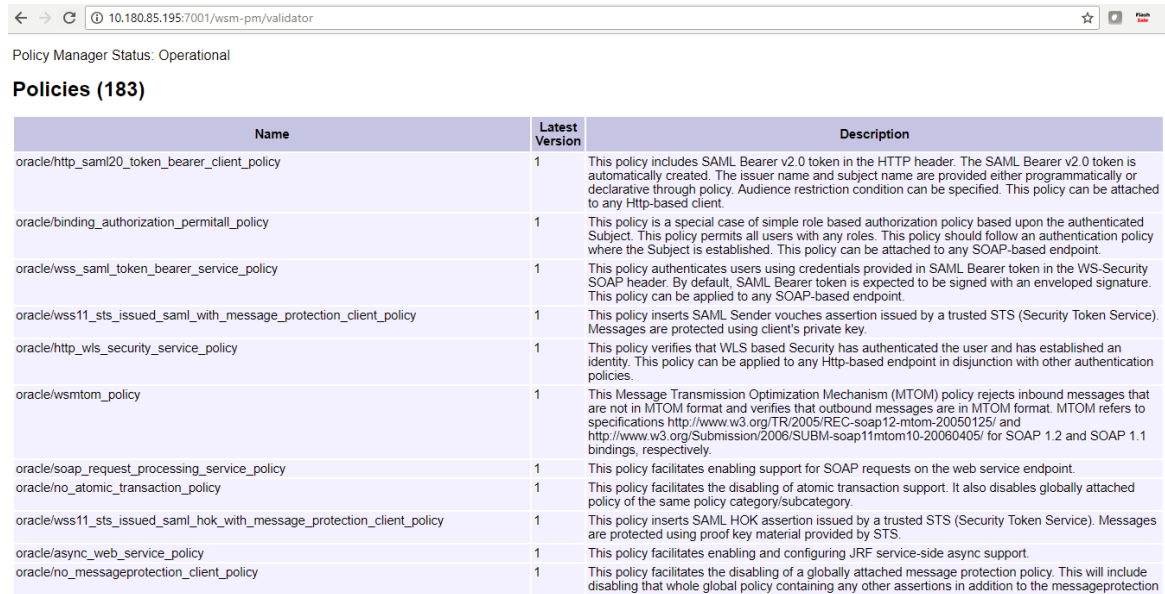
JMS Modules for all XD host servers.

**JMS Modules (Filtered - More Columns Exist)**  
 Click the *Lock & Edit* button in the Change Center to activate all the buttons on this page.

<input type="checkbox"/>	Name ↕	Type
<input type="checkbox"/>	jmsAccountingModule	JMSSystemResource
<input type="checkbox"/>	jmsAnalyticsModule	JMSSystemResource
<input type="checkbox"/>	jmsAsyncAuditModule	JMSSystemResource
<input type="checkbox"/>	jmsBatchModule	JMSSystemResource
<input type="checkbox"/>	jmsCasaModule	JMSSystemResource
<input type="checkbox"/>	jmsCollateralModule	JMSSystemResource
<input type="checkbox"/>	jmsCollectionModule	JMSSystemResource
<input type="checkbox"/>	jmsDocumentOutboundModule	JMSSystemResource
<input type="checkbox"/>	jmsDomainPublishModule	JMSSystemResource
<input type="checkbox"/>	jmsODIModule	JMSSystemResource
<input type="checkbox"/>	jmsOriginationModule	JMSSystemResource
<input type="checkbox"/>	jmsPartyModule	JMSSystemResource
<input type="checkbox"/>	jmsPaymentModule	JMSSystemResource
<input type="checkbox"/>	jmsPricingAnalysisModule	JMSSystemResource
<input type="checkbox"/>	jmsReportModule	JMSSystemResource
<input type="checkbox"/>	jmsRuleModule	JMSSystemResource
<input type="checkbox"/>	jmsWorkflowModule	JMSSystemResource

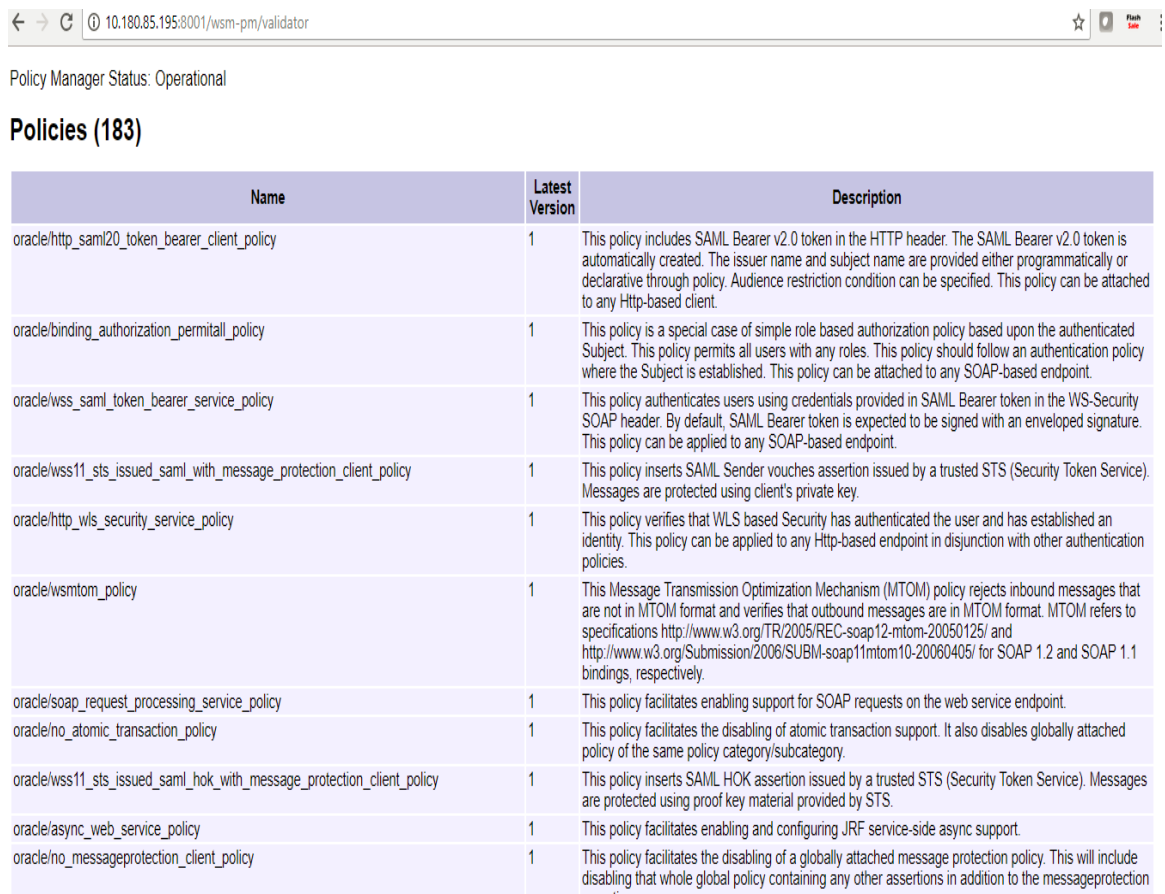
4. In (<HOST\_IP>:<HOST\_ADMIN\_PORT>/wsm-pm/validator) and (<HOST\_IP>:<HOST\_MANAGED\_PORT>/ wsm-pm/validator) screens, all policies must appear.

Figure 7–4 HOST admin wsm-pm validator



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 <a href="http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/">http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/</a> and <a href="http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/">http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/</a> 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 7–5 HOST managed wsm-pm validator



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 <a href="http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/">http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/</a> and <a href="http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/">http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/</a> 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

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.

## 11.3 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 OBLS libraries and human task files with .ear extension is *Active*.

- Shared Libraries

- ob.app.client.coll
- ob.app.client.communications
- ob.app.client.cz
- ob.app.client.deposit
- ob.app.client.fw
- ob.app.client.lcm
- ob.app.client.lending
- ob.app.client.or
- ob.app.client.party
- ob.app.client.pm
- ob.app.client.pricing
- ob.app.client.sh
- ob.ui.coll
- ob.ui.communications
- ob.ui.cz
- ob.ui.deposit
- ob.ui.fusion

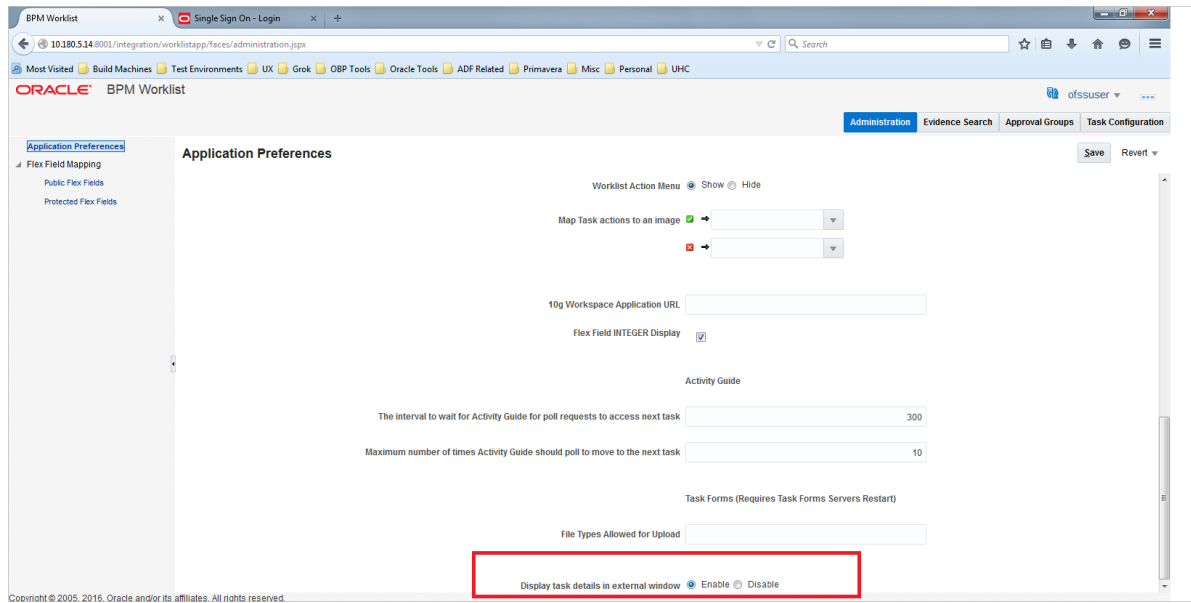
- ob.ui.lcm
- ob.ui.lending
- ob.ui.or
- ob.ui.party
- ob.ui.pm
- ob.ui.pricing
- ob.ui.sh
- ob.ui.tp
- ob.ui.tp.cz
- Ears
  - com.ofss.fc.app.ui.connector
  - com.ofss.fc.ui.view.mds
  - com.ofss.fc.workflow.ui.batchexceptionrecovery
  - com.ofss.fc.workflow.ui.brop
  - com.ofss.fc.workflow.ui.CapturePartyFinancialsHumanTask
  - com.ofss.fc.workflow.ui.common.approval
  - com.ofss.fc.workflow.ui.FeeNegotiationApprovalTask
  - com.ofss.fc.workflow.ui.hardshiprelief
  - com.ofss.fc.workflow.ui.lcm.PerformManualAllocationUITask
  - com.ofss.fc.workflow.ui.lcm.valuation
  - com.ofss.fc.workflow.ui.loans
  - com.ofss.fc.workflow.ui.PartyMerge
  - com.ofss.fc.workflow.ui.ProcessLoanRolloverHumanTask
  - com.ofss.ob.webservice.soamanagement

4. Also verify that the standard SOA application soa-infra is in *Active* state.

## 11.4 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 7–6](#).

Figure 7–6 BPM Worklist Window Settings



# 12 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 Loans Servicing.

## 12.1 OBLS 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 OBLS 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 8–1 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_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/obphuman
task_server1
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/base_domain in offline mode
Domain created successfully
Domain /scratch Configuration started successfully
```

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

## 12.2 OBLS Security Policy Seeding

For monitoring Oracle Banking Loans Servicing application security policy seeding, you can check the logs generated in \$HOST\_FMW/obpoidinstall/PolicyStoreSetup/logs.

## 12.3 OBLS 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 OBLS 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 OBLS Host installation in which once the post install script for OBLS host has secured itself against a LDAP (OID/OVD) it proceeds to restart the OBLS 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-\*.log' logs created in the OBLS Host domain would indicate an incomplete attempt by the 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 the 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 the domain directory.

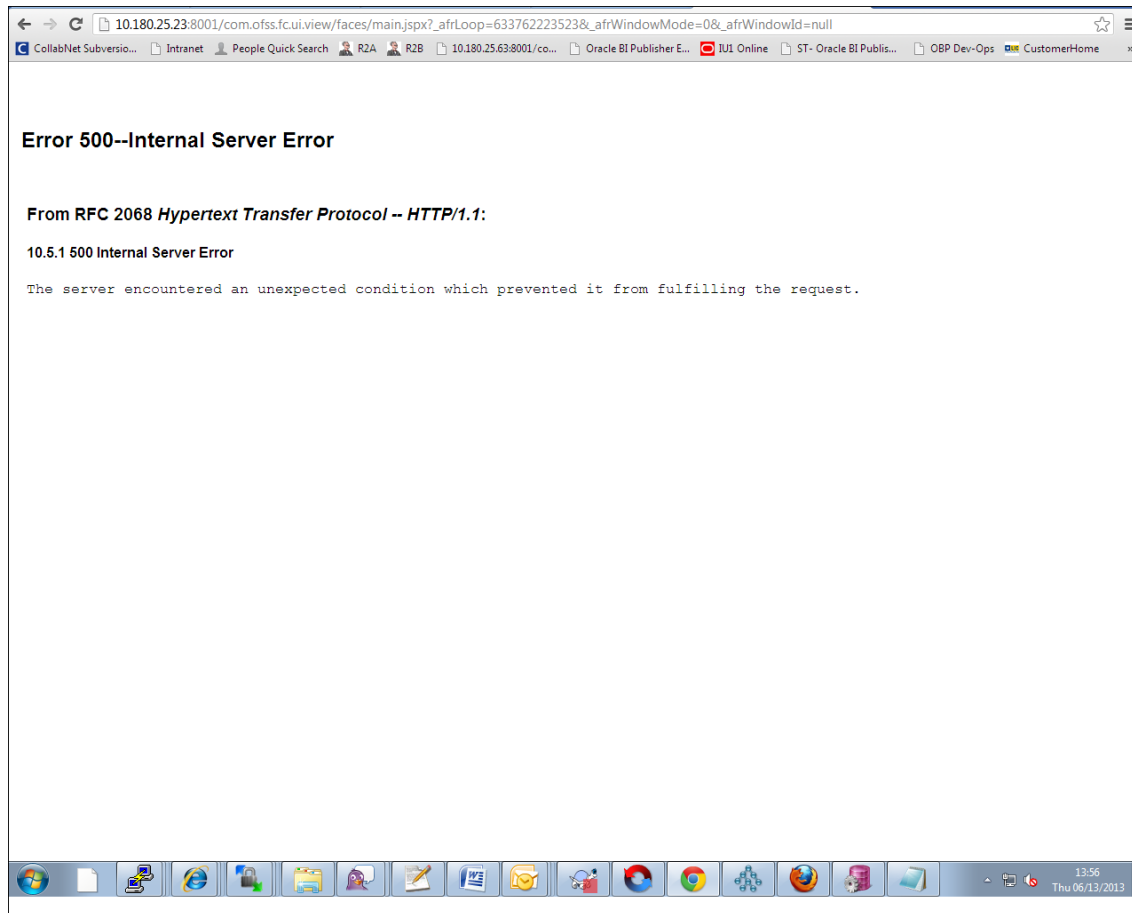
When you start the managed servers post installation, there may occur a lot of error printing in the startup logs that you can ignore. However, ensure that the status of the applications deployed on the components is active and the server is in running mode. Even if there are errors during the startup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

## **12.4 Error on First Log in**

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



Figure 8–2 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: <https://10.180.25.23:8001/com.ofss.fc.ui.view/faces/main.jspx>) again.

## 12.5 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.

## 12.6 SOA Setup in Cluster

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

### 12.6.1 "COMPONENTTYPE": invalid identifier error

Due to one of the one-off patches for SOA applied during the OBLS 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:

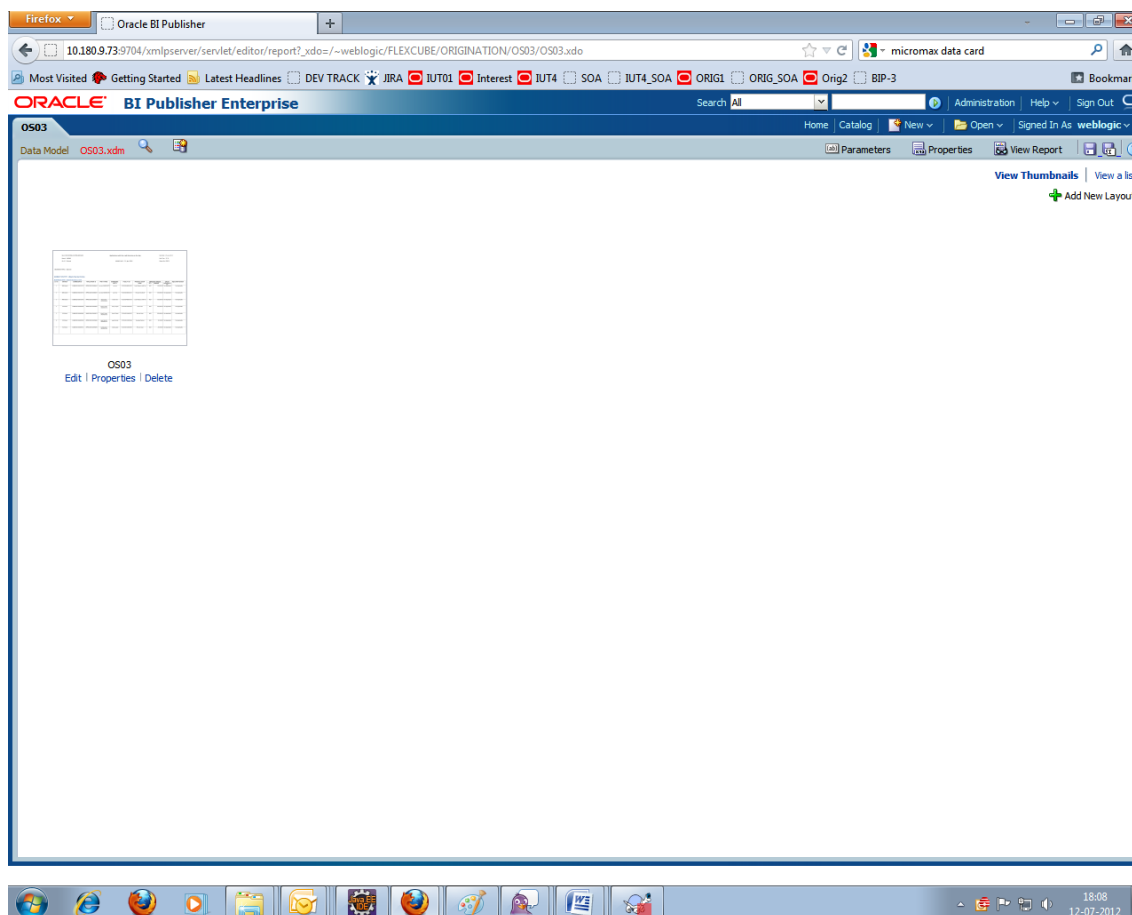
```
alter table cluster_master add (componenttype varchar2(10));
```

## 12.7 BIP Report Data Model Linkage Problem after Host Post Installation Step

After editing a report, click the magnifying glass icon to select the data model associated with this report.

(Here in red indicates that the data model is not properly connected with the report or that the report is not able to find the model at the location that it is referring)

**Figure 8–3 Selecting the Data model**



### Note

The above step is to be carried out in case the data model of a report has not correctly linked with a report, after reports are deployed in BIP server in Host Post Installation step.

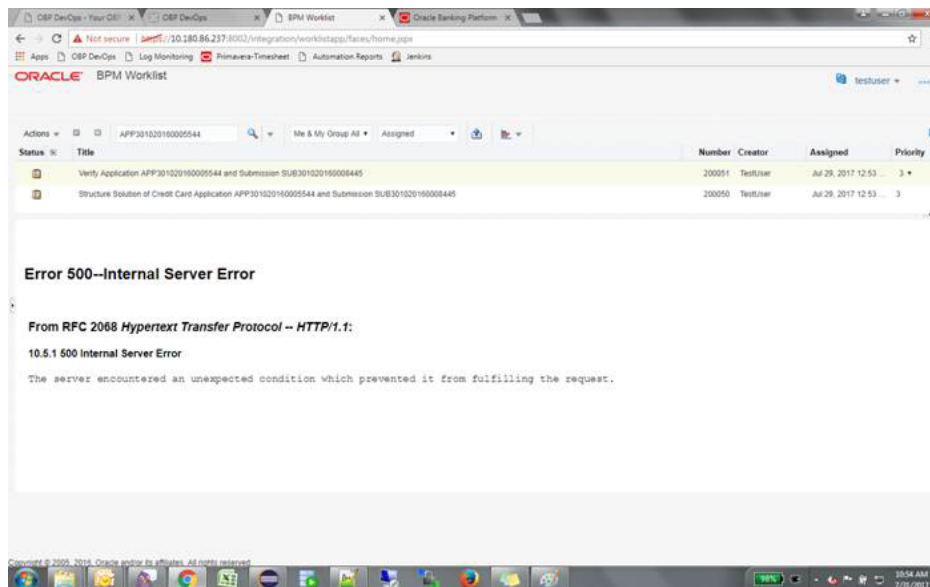
## 12.8 BPM Worklist Task Issue

If the BPM Task (human task) 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.DocumentBuilderFactoryImpl
  - | -
  - Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl
  - 
  - Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl
 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 8–4 BPM Worklist Task issue



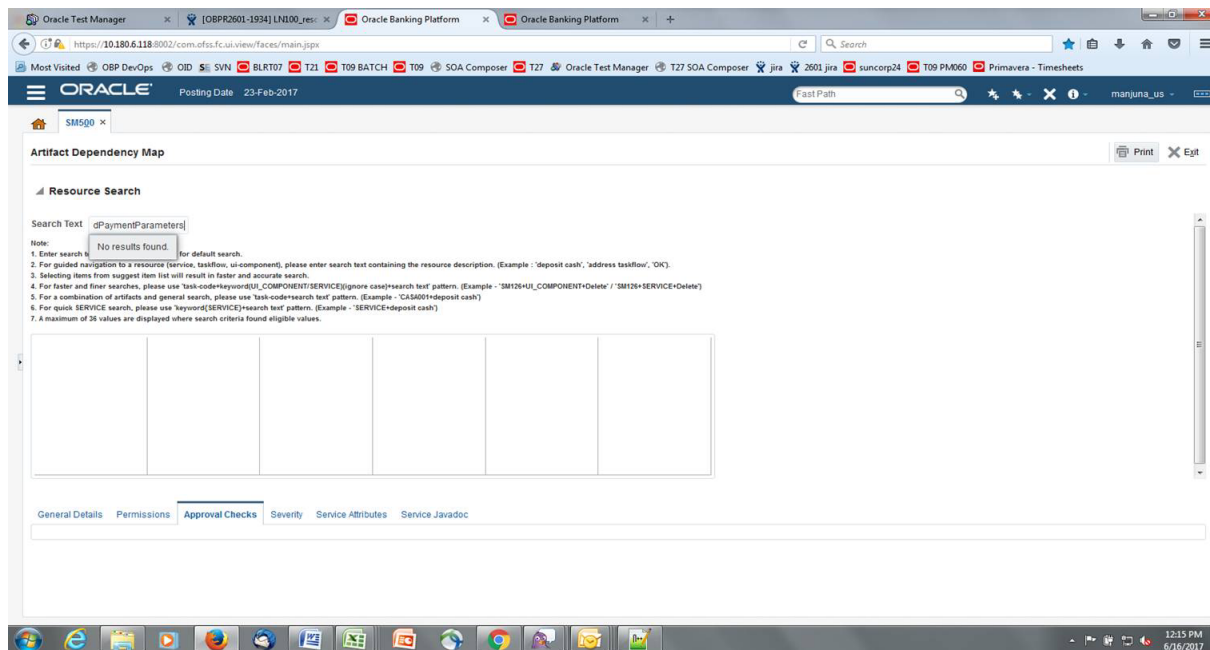
## 12.9 Artifacts Issue for SM500 page

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 8–5 Artifacts Issue for SM500 page



## 12.10 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 8–6 Settings for `javax.resource.cci.ConnectionFactory` page

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Settings for javax.resource.cci.ConnectionFactory' page, specifically the 'Connection Pool' tab. The settings are as follows:

Parameter	Value	Description
Initial Capacity	1	The initial number of connections in the pool. <a href="#">More Info...</a>
Max Capacity	50	The maximum number of connections in the pool. <a href="#">More Info...</a>
Capacity Increment	1	The number of connections created when new connections are added to the connection pool. <a href="#">More Info...</a>
Shrinking Enabled	true	Should unused connections be removed from the pool? <a href="#">More Info...</a>
Shrink Frequency Seconds	900	The number of seconds to wait before shrinking a connection pool that has incrementally increased to meet demand. (You must also enable connection pool shrinking.) <a href="#">More Info...</a>
Highest Num Unavailable	0	The Highest Num Unavailable of this outbound connection. <a href="#">More Info...</a>
Highest Num Waiters	15	The Highest Num Waiters of this outbound connection. <a href="#">More Info...</a>
Connection Creation Retry Frequency Seconds	0	The number of seconds between attempts to establish connections to the database. <a href="#">More Info...</a>
Connection Reserve Timeout Seconds	-1	The Connection Reserve Timeout Seconds of this outbound connection. <a href="#">More Info...</a>
Test Frequency Seconds	0	The frequency, in seconds, to test connections in this outbound connection pool. <a href="#">More Info...</a>

## 12.11 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
```

## 12.12 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.

## 12.13 DDA, Party and LOAN Mocking for OBLs installer

For DDA, Party and LOAN Mocking, perform the following steps:

1. Update the setDomainEnv.sh configuration file on HOST server with the following parameters:

```
EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES}-
DAdapterFactories:ACCOUNT_DDA MOCKED=true -
DAdapterFactories:ACCOUNT_LOAN MOCKED=true -
DAdapterFactories:PARTY_ENTITLEMENT_ADPT MOCKED=true "
export EXTRA_JAVA_PROPERTIES
```

2. Restart the HOST managed server.

# 13 Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Loans Servicing.

## 13.1 Manual Uninstall

Currently an installed OBLs 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 Loans Servicing related database schemas run the RCU utility and choose the **Drop** option.