# Oracle Identity Manager Integration Implementation Guide Oracle Banking Corporate Lending Release 14.7.1.0.0 Part No. F79326-01 [July] [2023]

# **Table of Contents**

1.	INT	RODUCTION	
	1.1	Scope	1-2
	1.2	INTRODUCTION TO ORACLE IDENTITY MANAGER	
	1.3	ADVANTAGE	
2.	RE	QUIREMENTS / PROBLEM STATEMENT	
3.	PRI	EREQUISITES	
	3.1	SOFTWARE REQUIRED	
	3.2	FLEXCUBE COMPONENT REQUIRED	
4.	SYS	TEM DESCRIPTION	
	4.1	ABOUT ORACLE IDENTITY MANAGER	4-1
	4.1.		
	4.2	INTEGRATION / DESIGN ARCHITECTURE	
	4.2.		
	4.2.	2 Reconciliation Design Architecture	
	4.2	3 Design Constraints	
	4.2.	4 Message Flow	
5.	INS	TALLATION / CONFIGURATION	
	5.1	ENVIRONMENT SETUP/CONFIGURATIONS	
	5.1.	l Enabling SSL for Weblogic and OIM Server	
	5.1.2		
	5.1.	3 Configuring SSL Mode in Oracle Internet Directory	
	5.1.	4 OIM FLEXCUBE Adapter Setup	
	5.1.	5 Build GWEJB	
	5.1.	5 OIM Setup	
	5.1.	7 System Configurations	
6.	SOI	LUTION / USAGE GUIDELINES	
	6.1	WORKING WITH OIM	
	6.1.	l Creating a user in FLEXCUBE through OIM	
	6.1.		
	6.1.		
	6.1.	4 Enabling a Disabled user in FCUBS through OIM	
	6.1	5 Running Reconciliation in OIM	
7.	RE	FERENCE	7-1
8.	API	PENDIX	
	8.1	DATA SOURCE CREATION	



# 1. Introduction

For the purpose of centralized user provisioning FLEXCUBE is qualified with Oracle Identity Manager - Oracle® Fusion Middleware 11g Release 2 (11.1.2.3.0). This feature is available in FLEXCUBE since the release FCUBS V.UM 10.1.0.0.0.0.0.

## 1.1 <u>Scope</u>

This document provides an understanding as to how centralized provisioning through OIM can be enabled for FCUBS.

In addition to providing a background to the various components of the deployment, this document provides detailed steps as to how to install the various FCUBS components required for the integration with OIM configuration in FCUBS and Oracle Identity Manager to enable centralized provisioning.

## 1.2 Introduction to Oracle Identity Manager

Oracle Identity Manager is an identity management product that automates user provisioning, identity administration, and password management, integrated in a comprehensive workflow engine. It enables organizations to reduce Information Technology (IT) administration costs and improve security. Oracle identity manager achieves this by providing a centralized control mechanism to manage the entire life cycle of user identities and entitlements and to control user access to across all resources in the organization.

## 1.3 Advantage

Integrating FCUBS with Oracle identity Manager provides capability for managing the entire life cycle of FCUBS user identities through a centralized point provided by OIM in both scenario- FCUBS without single sign on and FCUBS with single sign on.



# 2. Requirements / Problem Statement

The requirement is to integrate FCUBS with Oracle Identity Manager for FCUBS user provisioning and de-provisioning services with and without FCUBS single sign on.



# 3. Prerequisites

## 3.1 Software Required

Oracle® Fusion Middleware 11g Release 2 (11.1.2.3.0)

Refer Oracle Identity Manager Document for Installation and configuration of Oracle Identity Manager.

OIM Server		FUSION MIDDLEWARE
Welcome         Components to Configure         Database         WebLogic Admin Server         OIM Server         Configuration Summary         Configuration Progress         Configuration Complete	OJM Administrator Password: <u>C</u> onfirm Password: OIM HTTP <u>U</u> RL: OIM External <u>FrontEnd URL:</u> KeyStore <u>P</u> assword: Confirm KeyStore Password:	••••••  ••••••  http://ofss220607.in.oracle.com:14000
	long. Must begin with an alphabe numeric value. Any of these spec tilde(~), at(@), hyphen(-), plus(+)	ion 'alid passwords should be 6 to 30 characters tic character and should include atleast one ial characters underscore (_), dollar (\$), , colon(:), forward slash(/), curly braces(()), tion mark(?), dot(.), asterisk(*) or pound (#)

Note \*: To get the Keystore Password in the above screen while configuring OIM Console, you should have only Weblogic Admin Server, OIM Server and SOA Server in this OIM Domain. Based on that the below keystore will be created with store password

<Domain\_home>/config/fmwconfig/default-keystore.

- Oracle Internet Directory Connector 11.1.1.6.0
- Refer the below sections:
  - Installation of Oracle Internet Directory Connector (Section 2.2.1.1, 2.2.1.2 & 2.3.1.1)
  - > Connector by default will be available with Oracle Identity and Access Management

Suite.

The path will be as follows :

<Oracle\_Middleware>/<OIM\_HOME>/connector/oid

For example:

Linux: /app/oracle/Middleware/Oracle\_IDM1/connector/oid

Windows: C:\apps\oracle\Middleware\Oracle\_IDM1\connector\oid

The above directory <oid> has to be copied into

<Oracle\_Middleware>/<OIM\_HOME>/server/ConnectorDefaultDirectory



> Configuring Oracle Identity Manager Design Console

# 3.2 FLEXCUBE Component Required

FLEXCUBE Gateway EJB



# 4. System Description

## 4.1 About Oracle Identity Manager

Oracle Identity Manager is an identity management product that automates user provisioning, identity administration, and password management, integrated in a comprehensive workflow engine. Key features of Oracle Identity Manager include password management, workflow and policy management, identity reconciliation, reporting and auditing, and extensibility through adapters.

### 4.1.1 Oracle Identity Manager System Components

Oracle Identity Manager is built on an enterprise-class, modular architecture that is both open and scalable. Each module plays a critical role in the overall functionality of the system:

#### **Identity Administration**

Identity administration includes creation and management of identities in Oracle Identity Manager. Identities include users, organizations, and roles. Identity administration also enables password management and user Oracle Identity Manager Self Service operations. Identity administration is performed by using Oracle Identity Manager Administration and Oracle Identity Manager Self Service Web clients, and the SPML Web service.

#### Provisioning

The provisioning transactions are assembled and modified in the provisioning module. This module maintains the "who" and "what" of provisioning. User profiles, access policies, and resources are defined in the provisioning module, as are business process workflows and business rules.

The Provisioning Server is the run-time engine for Oracle Identity Manager. It runs the provisioning process transactions as defined through Oracle Identity Manager Administration and Oracle Identity Manager Design Console and maintained within the provisioning module.

#### Audit and Reports

The audit and compliance functions include evaluating a person, organization, system, process, project, or product. This occurs by capturing data generated by the suite's workflow, policy, and reconciliation engines. By combining this data with identity data, an enterprise has all the information it requires to address any identity and to access a related audit inquiry. Audits are performed to ascertain the validity and reliability of information, and also provide an assessment of a system's internal control.

Reporting is the process of generating a formal document, which is created as a result of an audit. The report is subsequently provided to a user, such as an individual, a group of persons, a company, a government, or even the general public, as an assurance service so that the user can make decisions, based on the results of the audit. An enterprise can create reports on both the history and the current state of its provisioning environment. Some captured identity data includes user identity profile history, role membership history, user resource access, and fine-grained entitlement history.

#### **Reconciliation and Bulk Load**

The reconciliation engine ensures consistency between the provisioning environment of Oracle Identity Manager and Oracle Identity Manager managed resources within the organization. The reconciliation engine discovers illegal accounts created outside Oracle Identity Manager. The reconciliation engine also synchronizes business roles located inside and outside the provisioning system to ensure consistency.

If you want to load a large amount of data from other repositories in your organization into Oracle Identity Manager, then you can use the Bulk Load utility. The Bulk Load utility reduces the downtime in loading the data. In addition, Bulk Load utility import Oracle Identity Manager users, roles, role memberships, and accounts provisioned to users.



#### **Common Services**

Various services are grouped together that are shared and used by other Oracle Identity Manager components. These services are:

**Form Designer**: A form that allows you to create process and resource object forms that do not come packaged with Oracle Identity Manager.

**Scheduler**: A service that provides the capability to run specific jobs at specific schedules. This service can be used by users, application developers, connector developer, and administrators to create and configure a Job to be run at specified intervals. In addition, this service provides administrative capabilities to manage the functionality of jobs and their schedules.

**Notification Templates**: A common notification service is used by other functional components to send notifications to interested parties about events occurring in Oracle Identity Manager. In addition, this service provides the administrative capabilities for notification template management. A notification template is used for sending the outgoing notifications. These templates typically contain the variables that refer to the available data to provide more contextual content.

**System Properties**: A system property is an entity that controls the configuration aspect of an application. In addition, to the default system properties, you can create and manage system properties in Oracle Identity Manager.

**Deployment Manager**: The Deployment Manager is a tool for exporting and importing Oracle Identity Manager configurations. The Deployment Manager enables you to export the objects that make up your Oracle Identity Manager configuration.

#### Workflow and Request Management

Various operations in Oracle Identity Manager cannot be performed directly. Instead, the operations must be requested. The request management service provides a mechanism to create, approve, and manage requests. A request is an entity created by the users or administrators who want to perform a specific action, which requires a discretionary permission to be obtained from someone or some process before the action can be performed. For example, a user can create a request to gain access to a laptop computer, a manager can approve the request and create an open requisition, and an IT resource administrator can approve the request.

The primary goal of a provisioning solution is to manage requests and provision resources. Request service provides an abstraction layer on the Business Process Execution Language (BPEL) 11g workflow engine. Functional components such as request, provisioning, and attestation interacts with the workflow engine for human approvals. Request service caters to the various functional components in Oracle Identity Manager by managing workflow instances and categories, and provides an abstraction layer on BPEL.

#### Infrastructure and Middleware Integration

The Adapter Factory, Kernel Orchestration mechanism, Context Manager, and Plug-in Framework are designed to eliminate the need for hard-coding integrations with these systems.

#### **Connector Framework**

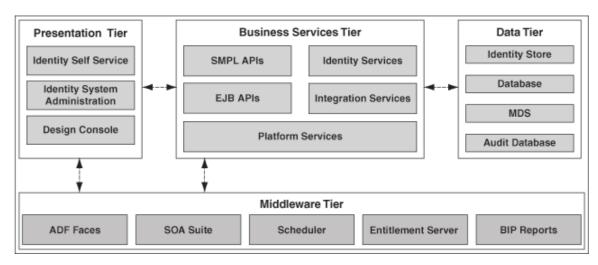
The integration solution strategy of Oracle Identity Manager provides connectors to various heterogeneous identity-aware IT systems. This strategy is designed to minimize custom development, maximize the reuse of code, and reduce deployment time. The tiers of the integration solution are:

• Out-of-the box integration using predefined connectors and predefined generic technology connector providers



- Identity connectors that are designed to separate the implementation of an application from the dependencies of the system that the application is attempting to connect to
- Connectors based on custom generic technology connector providers
- Custom connectors using the Adapter Factory

Following figure illustrates the system components of Oracle Identity Manager.



## 4.2 Integration / Design Architecture

With the integration of FCUBS and Oracle Identity Manager, a user can be created, modified, closed, and reopened in FCUBS. Oracle Identity Manager acts as the front-end entry point for managing mandatory fields of FCUBS user. After users are provisioned, the users can access the FCUBS without any interaction with Oracle Identity Manager. This integration also ensures that any change that has been made for corresponding user in FCUBS should be reflected in OIM using reconciliation feature of OIM.

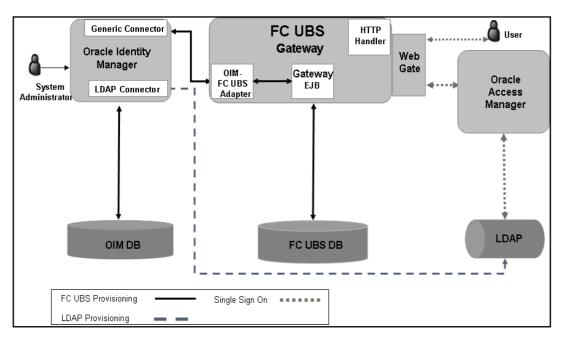
#### Design

For the purpose of integration of Oracle Identity manager and FCUBS "Generic technology connector" (GTC) has been used. GTC provides out of box providers for provisioning and reconciliation.

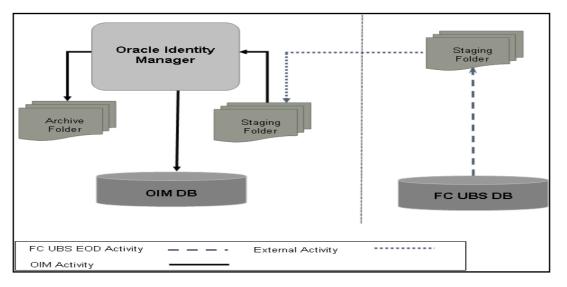
Following two figures illustrate the design aspect of the provisioning and reconciliation process:



## 4.2.1 Provisioning Design Architecture



## 4.2.2 Reconciliation Design Architecture



### 4.2.3 Design Constraints

The followings are the design constraints for this integration:

- This integration is based upon sample configuration containing only mandatory fields of FCUBS user while defining the GTC. Other fields can be defined in the GTC using the same configurations.
- Due to specific data requirement for FCUBS user creation, only manual provisioning method can be used for FCUBS provisioning.
- User role is not taken up in this integration and the FCUBS user will not be associated with any role at the time of user creation.
- A common FCUBS maker id will be used for user creation that is maintained as property in a property file.



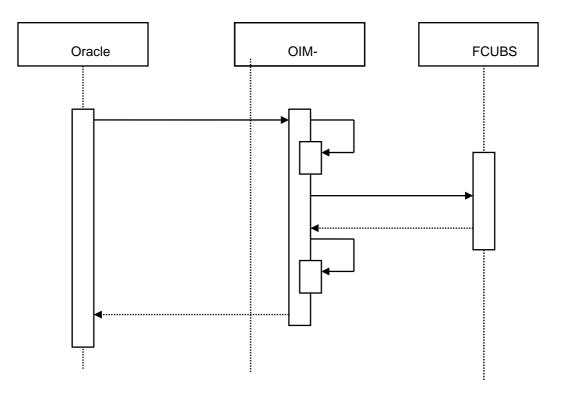
 OIM does not allow ASCII special characters e.g. ampersand, colon, braces etc. Apart from this, OIM also does not allow multiple consecutive occurrences of some of special ASCII character like underscore etc.

#### 4.2.4 Message Flow

OIM-FCUBS adapter would transform the request from the OIM SPML/DSML to FCUBS Gateway request using Extensible Style sheet Language Transformation (XSLT). Transformed XML request will be sent to the FCUBS Gateway EJB for further processing based on the type of the request. Based on the FCUBS Gateway EJB response OIM-FCUBS adapter will prepare the response in SPML/DSML format and will send to the OIM.

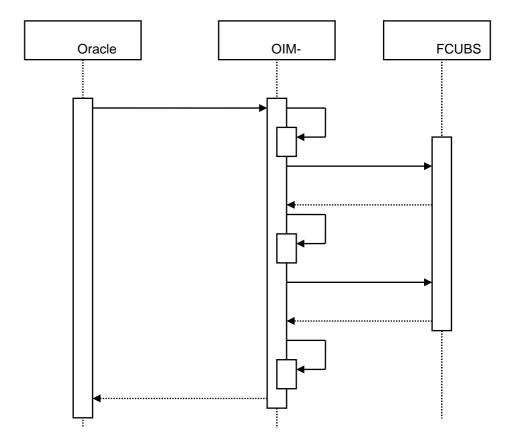
Following gives the sequence of the message exchanges between the adapter and FCUBS Gateway EJB for user provisioning that are initiated from OIM.

#### 4.2.4.1 Message exchange sequence for User Creation



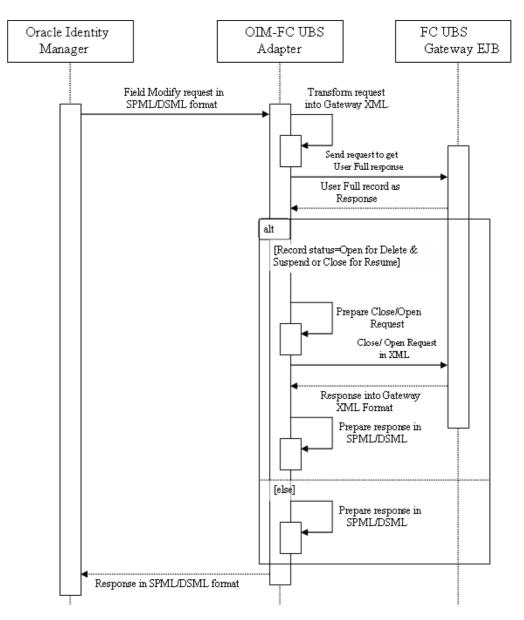


### 4.2.4.2 Message exchange sequence for User Field Modification/Set Password











# 5. Installation / Configuration

## 5.1 Environment Setup/Configurations

FLEXCUBE - OIM Integration environment setup requires

- OIM FLEXCUBE Adapter setup & configuration
- OIM setup

Note: This implementation document describes the installation and setup of OIM FLEXCUBE Adapter on Oracle Fusion Middleware 11g Release 2 (11.1.2.3.0).

#### 5.1.1 Enabling SSL for Weblogic and OIM Server

#### 5.1.1.1 Self-Signed Certificate Creation

To enable SSL mode, Weblogic requires a keystore which contains private and trusted certificates. We have to use the same version of JDK (which is used by Weblogic Domain), to create the keystore and certificates, otherwise it may lead to many difficulties (suggested by Oracle Support).

Keytool utility available in Java JDK will be used to create Keystore. In command prompt set PATH to the JDK\bin location. Follow the below steps to create keystore and self-signed certificates:Keystore Creation

#### 5.1.1.1.1 Key Store Creation

keytool -genkey -keystore <keystore\_name.jks> -alias <alias\_name> -dname "CN=<hostname>, OU=<Organization Unit>, O=<Organization>, L=<Location>, ST=<State>, C=<Country\_Code>" -keyalg <Key Algorithm> -sigalg <Signature Algorithm> -keysize <key size> -validity <Number of Days> keypass <Private key Password> -storepass <Store Password>

For example:

keytool -genkey -keystore AdminFlexcubeKeyStore.jks -alias FlexcubeCert -dname "CN=ofss00001.in.oracle.com, OU=OFSS, O=OFSS, L=Chennai, ST=TN, C=IN" -keyalg "RSA" -sigalg "SHA1withRSA" -keysize 2048 -validity 3650 -keypass Password@123 -storepass Password@123

Note: CN=ofss00001.in.oracle.com is the Host Name of the weblogic server

#### 5.1.1.1.2 Export Private key as Certificate

keytool -export -v -alias <alias\_name> -file <export\_certificate\_file\_name\_with\_location.cer> -keystore <keystore\_name.jks> > -keypass <Private key Password> -storepass <Store Password>

For example:

keytool -export -v -alias FlexcubeCert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123

#### 5.1.1.1.3 Import as Trusted Certificate

keytool -import -v -trustcacerts -alias rootcacert -file <export\_certificate\_file\_name\_with\_location.cer> keystore <keystore\_name.jks> > -keypass <Private key Password> -storepass <Store Password>



For example:

keytool -import -v -trustcacerts -alias rootcacert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123

References: Oracle Support Articles (Article ID 1281035.1, Article ID 1218695.1), in case of Certificates issued by the Trusted Authorities

#### 5.1.1.2 Configuring Weblogic Console

After domain creation, follow the below steps to enable SSL in Weblogic Admin server, OIM Server and SOA Server.

#### 5.1.1.2.1 Select Admin Server to enable SSL options.

ORACLE WebLogic Server®	Administration Console					Ģ
Change Center	🚹 Home Log Out Preferences 🔤 Rec	ord Help			Wel	come, weblogic Connected to: oim_doma
View changes and restarts	Home >Summary of Servers					
Configuration editing is enabled. Future	Summary of Servers					
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Control					
Domain Structure	A server is an instance of WebLogic Ser	use that sums in its own Town Vietual &	Inching (1004) and bas its o	un configuration		
oim_domain   Environment  Clusters  -Virtual Hosts	This page summarizes each server that I			wir coniger seon.		
Migratable TargetsCoherence ServersCoherence ClustersMachinesMachines	Customize this table	Exist)				
Work Managers Startup and Shutdown Classes	New Clone Delete					Showing 1 to 3 of 3 Previous   Next
Deployments	🔲 Name 🏟	Cluster	Machine	State	Health	Listen Port
Security Realms	AdminServer(admin)			RUNNING	✓ ок	7001
How do I	im_server1			RUNNING	🖋 ок	24000
Create Managed Servers	soa_server1			RUNNING	✓ OK	8001
Clone Servers     Delete Managed Servers	New Clone Delete					Showing 1 to 3 of 3 Previous   Next
Delete the Administration Server						
Start and stop servers						
System Status						
Health of Running Servers						
-						
Failed (0) Critical (0)						
Overloaded (0)						
Warning (0)						
OK (3)						

*5.1.1.2.2* Follow the steps in General Tab as shown below:

- 1. Select SSL Listen Port Enabled, Client Cert Proxy Enabled, Weblogic Plug-In Enabled.
- 2. Click on Save.



Domain Structure	General Cluster S	Services Keystore	s SSL	Federation Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services		
am_domain	Save												
Servers Clusters Virtual Hosts Migratable Targets Coherence Servers	Use this page to configu	iure general feature:	of this se	erver such as default ne	twork communic	ations.							
Coherence Clusters Machines	Name:			AdminSe	rver			An alphan	n alphanumeric name for this server instance. More Info he WebLog: Server host computer (machine) on which this server is meant run. More Info he duster, or group of WebLog: Server instances, to which this server elongs. More Info he duster or DNS name this server uses to listen for incoming americans. More Info pedfies whether this server can be reached through the default plain-text tom SSL listen port. More Info he default CP port that this server uses to listen for regular (non-SSL) coming connections. More Info ndcates whether the server can be reached through the default SSL listen ort. More Info he tor/DIP port at which this server listens for SSL connection squeests. More Info he TOR/DIP ort at which this server listens for SSL connection squeests. More Info he toryDIP port at which this server listens for SSL connection squeests. More Info he toryDIP port at which this server listens for SSL connection squeests. More Info he Java compiler to use for all applications hosted on this server that need compile lava code. More Info pedfies whether the Http:/Luster/Serviet provides the clent certificate in a pedfies how of diagnostic data that is automatically produced by Fieldoc) server at run then. Note the the WIDF diagnostic volume setting, the notice the volume of diagnostic data that is automatically produced by Fieldoc) server at run then. Note the the WIDF diagnostic rowardser, first recorder. More info her WIDS is running on JRVE, this specifies the name of the virtual machine				
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How do I	Cluster:			(Standal	one)					ogic <mark>S</mark> erver insta	nces, to which th	is server	
Configure default network connections     Create and configure machines	街 Listen Address:									his server uses t	o listen for incom	ing	
Configure dusters     Start and stop servers     Configure WLDF diagnostic volume	<table-cell> Listen Port Enable</table-cell>	≥d							belongs. More Info The IP address or DNS name this server uses to listen for incoming connections. More Info Specifies whether this server can be reached through the default plan-text (non-SS) listen prt. More Info The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. More Info Indicates whether the server can be reached through the default SSL listen port. More Info				
System Status	Listen Port:		7001							sten for regular (	non-SSL)		
Health of Running Servers Failed (0)	SSL Listen Port En						He Weblagi: Server host computer (machine) on which this server is meant or un. More Info     Hore Info     Hore Info     House Info     House Info     He IP address or DNS name this server uses to listen for incoming     omnections. More Info     pedfes whether this server can be reached through the default plain-text     mon-SQL listen port. More Info     he default TCP port that this server uses to listen for regular (non-SSL)     incoming commentions. More Info     he default TCP port that this server uses to listen for regular (non-SSL)     incoming commentions. More Info     he default TCP port at which this server listen for SSL connection     equests. More Info     he advace Info     he TOP/IP port at which this server listen for SSL connection     equestal. More Info     he advace. More Info     he Java compiler to use for all applications hosted on this server that need     o compile Iava code. More Info     he Java compiler to use for all applications hosted on this server that need     o compile Iava code. More Info						
Critical (0) Overloaded (0)	SSL Listen Port:	SSL Listen Port:							n alphanumeric name for this server instance. More Info he WebLog: Server host computer (machine) on which this server is meant run. More Info he duster, or group of WebLogic Server instances, to which this server elongs. More Info he duster DNS name this server uses to listen for incoming princtions. More Info he default CP port that this server uses to listen for incoming componentiations. More Info dusters whether this server can be reached through the default plain-text om SSJ listen port. More Info dustes whether the server can be reached through the default SSL listen ort. More Info dustes whether the server can be reached through the default SSL listen ort. More Info dustes whether the server can be reached through the default SSL listen ort. More Info dustes whether the the server listens for SSL connection question. More Info be GFGM port at which this server listens for SSL connection specifies the output of all applications hosted on this server that need to complie Java code. More Info he Java code. More Info be diffee whether the 'HtpClusterServiet provides the clent certificate in a becide header. More Info he Was a complet to use for all applications hosted on this server that need to comple Java code. More Info the WLS is running on JRVE, this specifies the name of the virtual machine ming this server. More Info				
Warning (0) OK (3)	🗷 🍂 Client Cert Pro	xy Enabled											
	Java Compiler:			javac					Acutes whether the server can be reached through the default SSL listen rt. More Info eTCP/IP port at which this server listens for SSL connection partis. More Info edifies whether the HittpClusterServlet provies the client certificate in a cid header. More Info e Java compiler to use for all applications hosted on this server that need compile Java code More Info				
	Diagnostic Volume:			Low				WebLogic does not a	Server at run time. I affect explicitly confi	Note that the Wi gured diagnostic	DF diagnostic vo modules. For ex	lume setting ample, this	
	- 🗢 Advanced												
	Virtual Machine Name	e		iam_c	domain_Adm	inSe					e name of the vir	tual machine	
	🕑 👍 WebLogic Plug	;-In Enabled						header, w	which is recommended	d if the server in:			

#### 5.1.1.2.3 Follow the steps in Keystores Tab as shown below:

- 1. Click Change and select Keystores as **Custom Identity and Custom Trust**
- 2. Click on Save
- 3. Note: Keystores as **Custom Identity and Custom Trust** is as suggested by Oracle Support Team

hange Center	Home I	Log Out	Preferences	Record H	ep		Q						Welcome, we	eblogic Connec	ted to: iam_doma
iew changes and restarts	Home >Su	mmary of	Servers >Ad	minServer											
onfiguration editing is enabled. Future nanges will automatically be activated as you	Settings fo	r Admin	Server												
odify, add or delete items in this domain.	Configura	tion F	rotocols	Logging Deb	ug Mo	onitoring	Control	Deployments	Services	Security	Notes				
omain Structure	General	Cluster	Services	Keystores	SSL	Federation	n Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	1
n_domain	Save	Cancel													
Clusters Virtual Hosts Migratable Targets =				torage and man message transn			keys and t	rusted certifica	e authorities	i (CAs). Thi	s page lets y	ou view and define va	rious keystore c	onfigurations. Th	ese settings help
Coherence Clusters Machines Work Managers	Keystore	<b>s</b> :	Custo	o Identity and un Identity an	d Com	mandLin		-				configuration rules sh eystores? More Info		finding the serve	r's identity and
Startup and Shutdown Classes	Save	Cancel	Custo	m Identity an m Identity an o Identity and	d Java	Standard	d I rust								
Services															
ow do I 🖂															
Configure identity and trust															
Configure keystores															
Set up SSL															
ystem Status 🖂															
ealth of Running Servers															
Failed (0)															
Critical (0)															
Overloaded (0)															
Warning (0) OK (3)															

#### 5.1.1.2.4 Follow the steps in Keystores Tab as shown below:

4. Enter Custom Identity Keystore and Custom Trust Keystore as same as the Keystore Name created in step <u>5.1.1.1.1</u> with full path.



- 5. Enter Custom Identity Keystore Type and Custom Trust Keystore Type as jks.
- 6. Enter Custom Identity Keystore Passphrase, Confirm Custom Identity Keystore Passphrase, Custom Trust Keystore Passphrase and Confirm Custom Trust Keystore Passphrase as same as the Store Password entered in step <u>5.1.1.1.1</u>.

ORACLE WebLogic Server®				4 4	1 c									Q
Change Center	Home L	og Out Pr	references	Record He	slp   [		Q					Welcome, w	eblogic Conne	cted to: iam_doma
View changes and restarts	Home >Sun	nmary of S	ervers >Ad	minServer										
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for	AdminS	erver											
modify, add or delete items in this domain.	Configurat	tion Pr	otocols	Logging Debu	ig Mi	onitoring Contro	Deployments	Services	Security	Notes				
Domain Structure	General	Cluster	Services	Keystores	SSL	Federation Servio	es Deploymen	t Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	
am_domain		nage the : :: /	security of	torage and mana message transm		Custom	d trusted certific Identity and Cus cubeKeyStore	tom Trust Cr	ange	Which trust k	ou view and define va configuration rules shi eystores? More Info 15/oam1115/Base	ould be used for	finding the serv	er's identity and
How do I	Custom Id	lentity K	eystore T	уре:		jks				The ty	pe of the keystore. Ge	enerally, this is :	IKS. More Info.	••
Configure identity and trust     Configure keystores     Set up SSL	Custom Id	lentity K	eystore F	assphrase:			•••••	•••			crypted custom identi ystore will be opened i			
	Confirm C	ustom Id	lentity Ke	ystore Passpl	hrase:		•••••							
System Status	- Trust -							- r		11				
Health of Running Servers Failed (0)	Custom Tr	rust Key	store:			nFlex	cubeKeyStore		scratch/a		15/oam1115/Base or and me name or or			
Critical (0) Overloaded (0)	Custom Ti	rust Key	store Typ	e:		jks				The ty	pe of the keystore. Ge	enerally, this is .	IKS. More Info.	••
Warning (0) OK (3)	Custom Ti	rust Key:	store Pas	sphrase:		••••	•••••	•••			stom trust keystore's opened without a pas			n the keystore
	Confirm C	ustom Ti	rust Keys	tore Pa <mark>s</mark> sphra	se:	••••	•••••	•••						
	Save													

7. Click on Save.

#### *5.1.1.2.5* Follow the steps in SSL Tab as shown below:

- 1. Enter Private Key Alias as same as the alias name entered in step <u>5.1.1.1.1</u>.
- 2. Enter Private Key Passphrase and Confirm Private Key Passphrase as same as the Private Key Password entered in step <u>5.1.1.1.1</u>.
- 3. Change the Hostname Verification to None.
- 4. Use JSSE SSL option should be remain unchecked
- 5. Click on Save.



Change Center	Home Log	Out Preference	is 🕍 Reco	rd Help	ļ		Q					Welcome, web	ologic Connecte	d to: iam_dom
View changes and restarts	Home >Summa	ry of Servers >Ar	IminServer											
Configuration editing is enabled. Future	Settings for Ad	lminServer												
hanges will automatically be activated as you nodify, add or delete items in this domain.	Configuration	n Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes				
omain Structure	General Clu	uster Services	Keystore	s SSL	Federation	Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	
m_domain = Environment Servers Clusters Virtual Hosts	Save This page let	s you view and i	define variou	s Secure :	5ockets Laye	r (SSL) set	tings for this ser	ver instance.	. These setti	ings help yo	u to manage the sec	urity of message	e transmissions.	
Migratable Targets Coherence Servers Coherence Clusters Machines	🐠 Identity a — Identity —	and Trust Loca	tions:	Keys	tores Chang	e					s where SSL should well as the server's t			te and private
Work Managers Startup and Shutdown Classes Deployments Services	Private Key L	ocation:		from	Custom Ider	itity Keysto	ore			The key Info	store attribute that c	efines the locati	on of the private	key file. More
Security Realms	Private Key #	Alias:		Fle	xcubeCert						store attribute that o er's private key. Me		alias used to sto	re and retrieve
ow do I 🖻	Debusha M	ey Passphrase		-						The loss	store attribute that o	-fi +		ataria Mar
Configure identity and trust Set up SSL	de Private K	ey Passphrase	•	L		•					private key. More I		nrase used to ret	neve the
Verify host name verification is enabled Configure a custom host name verifier	🕂 Confirm I	Private Key Pa	ssphrase:		••••••	0								
Configure two-way SSL	Certificate Lo	ocation:		from	Custom Ider	itity Keysto	ore				store attribute that c te. More Info	efines the locati	on of the trusted	
ystem Status 🖂	— Trust —													
ealth of Running Servers Failed (0)	Trusted Certi	ificate Authori	ties:	from	Custom Tru	t Keystore					store attribute that c ies. More Info	efines the locati	on of the certifica	te
Critical (0)	— 💎 Advance	ed												
Overloaded (0) Warning (0) OK (2)	👍 Hostnam	e Verification:		BE	stom Host A Hostnan					weblogi	s whether to ignore f c.security.SSL.Hostna nt to another applica	meVerifier inter	face (when this se	e erver is acting
	Custom H	lostname Veri	fier:	No	ne					The nan weblogi	ne of the class that in c.security.SSL.Hostna	mplements the meVerifier inter	face. More Info.	
	Export Key L	ifespan:		500	)					between key. The	s the number of time a domestic server a e more secure you w uld be used before g	nd an exportable ant WebLogic Se	e client before ge erver to be, the fe	nerating a new wer times the
											ether the client shou			

5.1.1.2.6 Select OIM Server & SOA Server to enable SSL options and Repeat the steps performed in 5.1.1.2.2 to 5.1.1.2.5.

Change Center	Home Log Ou	ut Preferences 🛃 Rec	ord Help			Wek	come, weblogic Connected to: oim_doma
liew changes and restarts	Home >Summary	y of Servers					
onfiguration editing is enabled. Future	Summary of Ser	rvers					
hanges will automatically be activated as you nodify, add or delete items in this domain.	Configuration	Control					
omain Structure	i						
_domain			ver that runs in its own Java Virtual M		wn configuration.		
Environment	This page summ	narizes each server that l	nas been configured in the current W	ebLogic Server domain.			
Clusters	<b>C</b> 2						
Virtual Hosts Migratable Targets ==	12						
Coherence Servers	Customize t	his table					
Coherence Clusters Machines	Servers (Filte	ered - More Columns	Exist)				
Work Managers			chocy .				1
Startup and Shutdown Classes	New Clo	ne Delete					Showing 1 to 3 of 3 Previous   Next
Services	📃 Name 🖉	ŵ	Cluster	Machine	State	Health	Listen Port
-Security Realms	AdminSer	rver(admin)			RUNNING	✓ ок	7001
e do I	im serv	er 1	1		RUNNING	✓ ок	24000
Create Managed Servers	soa_serv	ver 1			RUNNING	✓ ок	8001
Clone Servers	New Clo						Showing 1 to 3 of 3 Previous   Next
Delete Managed Servers		Delete					showing 1 to 3 of 3 Previous   Next
Delete the Administration Server							
Start and stop servers							
stem Status 🗉							
ealth of Running Servers							
Failed (0)							
Critical (0)							
Overloaded (0)							
Warning (0)							
OK (3)							

5.1.1.2.7 Now the admin\_server, oim\_server and soa\_server are SSL enabled. Restart all three servers.

## 5.1.2 Enabling SSL on GTC Connector Server

To have SSL enabled Provisioning Web Service in <u>5.1.5.23</u>. We have to have a two way handshake between GTC Connector Server and the Application Server, where FCUBSProvisioningAdService web service deployed.



#### 5.1.2.1 Export the KeyStore Certificate in 5.1.1.1.1

keytool -export -alias <aliasname> -file <exportfilename> -keystore <keystorename> -storetype jks - storepass <keystorepassword> -provider sun.security.provider.Sun

For Example:

keytool -export -alias FlexcubeCert -file webfile.cer -keystore FlexcubeKeyStore.jks -storetype jks - storepass Password@123 -provider sun.security.provider.Sun

#### 5.1.2.2 Import the Certificate to Xellarate Key Store

keytool -import -trustcacerts -alias <aliasname> -noprompt -keystore <Domain\_home>/config/fmwconfig/default-keystore.jks -file <importfilename> -storepass <keystorepassword>

For Example:

keytool -import -trustcacerts -alias FlexcubeCert -noprompt -keystore /app/Middleware/user\_projects/domains/oim\_domain/config/fmwconfig/default-keystore.jks -file webfile.cer -storepass Password123

Note \*: <Domain\_home>/config/fmwconfig/default-keystore.jks will be the KeyStore Password while configuring OIM Server. To have this feature, you should have only Weblogic Admin Server, OIM Server and SOA Server in this OIM Domain.

OIM Server		FUSION MIDDLEWARE
Welcome Components to Configure	O <u>I</u> M Administrator Password:	•••••
Database	<u>C</u> onfirm Password:	••••••
WebLogic Admin Server OIM Server	OIM HTTP <u>U</u> RL:	http://ofss220607.in.oracle.com:14000
Configuration Summary	OIM External ErontEnd URL:	
Configuration Progress	KeyStore <u>P</u> assword:	••••
	Confirm KeyStore Password:	•••••
	Enable OIM for Suite integrat	on
	long. Must begin with an alphaber numeric value. Any of these spec tilde(~), at(@), hyphen(-), plus(+)	alid passwords should be 6 to 30 characters tic character and should include atleast one tal characters underscore (_), dollar (\$), , colon(), forward slash(/), curly braces({}), tion mark(?), dot(.), asterisk(*) or pound (#)

#### 5.1.2.3 Export Xellarate KeyStore Certificate

keytool -export -alias xell -noprompt -keystore <Domain\_home>/config/fmwconfig/default-keystore.jks -file <xellexportfilename> -storetype jks -provider sun.security.provider.Sun

For Example:

keytool -export -alias xell -noprompt -keystore /app/Middleware/user\_projects/domains/oim\_domain/config/fmwconfig/default-keystore.jks -file xellcertificate.cer -storetype jks -provider sun.security.provider.Sun



#### 5.1.2.4 Import the Xellarate Certificate to KeyStore Created in 5.1.1.1.1

keytool -import -alias <aliasname> -trustcacerts -file <xellimportfilename> -keystore <keystorename> storetype jks -storepass <keystorepassword> -provider sun.security.provider.Sun

For Example:

keytool -import -alias xellcertificate -trustcacerts -file xellcertificate.cer -keystore FlexcubeKeyStore.jks storetype jks -storepass Password@123 -provider sun.security.provider.Sun

#### 5.1.3 Configuring SSL Mode in Oracle Internet Directory

To enable SSL for OID LDAP Server refer and follow the below steps.

Login to the Enterprise Manager Console of the domain, in which Oracle Internet Directory is associated.

📑 Farm 👻 🔒 Topology							
□ -	🗘 oid1 🗿					Logged in as weblogic   Host padsri	ini-pc
🛛 📴 Farm_base_domain	🗵 Oracle Internet Directory 🕶					Page Refreshed Feb 15, 2013 4:35:59 PM IS	с) та
Application Deployments     Deployment     WebLogic Domain	Home						
🖂 🚞 Identity and Access	Monitoring		Load		Security		
OAM	Control	121	Total LDAP Connections	0	Failed Bind Operatio	ons 0	
	Logs	220	Operations Completed	2	Failed Super User Lo	ogins 0	
ovd1 ∃ ☐ Metadata Repositories	Port Usage Administration	65	Operations in progress	0	Sucessful Super User	r Logins 0	
🗷 🚞 Web Tier	Security >	Audit Policy					
	Directory Services Manager	Wallets			•		
	General Information					Server Response (ms)	
	20 0 8 6 4 2 0 20 15 10 5 0 10 5 0 10 10 10 10 10 10 10 10 10	(24 16:25 16:26	16:27 16:28 16:29 16:30 16:3	1 18:32 16:33 1	16.34 16.35 16.36	Total Operations CPU Utilization (%) Tram base_domain/asinst_1/oid1 padarni-pc Memory Utilization (%) Farm base_domain/asinst_1/oid1 padarni-pc Table Vic	iew

#### Click on Create Self-Signed Wallet.

	anager 11g Fusion Middleware Control	Setup → Help → Log Ou
Farm - A Topology		
∃ -	🔓 oid1 🕡	Logged in as weblogic   Host padsrini-p
E Farm_base_domain	Cracle Internet Directory -	Page Refreshed Feb 15, 2013 4:39:54 PM IST 3
WebLogic Domain     Jidentity and Access     OAM     OAM     OII     OII	Wallets A Wallet is a Keystore that stores X.509 certificates and private keys in ind Walet. To manage the contents of a wallet, select a wallet and click Manage Create Create Self-Signed Walet	ustry-standard, PKCS #12 format. To create a walet, click Create. To create a walet with a self-signed certificate, click Create Self-Signed e.
🐼 Outri o ovd 1 🖻 🦢 Metadata Repositories 🖻 🍋 Web Tier	Name	Auto-login
		Fetching Data
	3	



Enter the Details as below & Click on OK.

	Manager 11g Fusion M	iddleware Control	Setup 🗸	Help 🗸	Log Out								
🕂 Farm 👻 👗 Topology													
	r oid1		Logged in as weblogi	ic Host	padsrini-pc								
Farm_base_domain	Oracle Internet Di	rectory 🕶	Page Refreshed Feb 15, 2013	4:40:45	PM IST C2								
🗄 🛅 WebLogic Domain	Wallets > Create Se	f-Signed Wallet											
🗉 🛅 Identity and Access	Create Self-Sig	ned Wallet		OK	Cancel								
<ul> <li>OAM</li> <li>☑ oid1</li> <li>OIM</li> <li>☑ ovd1</li> </ul>	or password-protects PKCS#12 wallet that	ed. Passwords, if specified, have a r	elf-signed wallet is not recommended in a production environment. The wallet name should be unique for a given component. The wallet type cas minimum length of eight characters, and contain alphabetic characters combined with numeric or special characters. Auto-login wallet is an obfass es and applications without requiring a password at runtime. Auto-login wallet don't need a password to modify, or delete the wallet. File system	cated fo	rm of								
🗉 🚞 Metadata Repositories	Self-Signed Wallet	Details											
🗄 🛅 Web Tier													
	* Wallet Name	oidselfsigned											
		V Auto-login											
	Wallet Password												
	Confirm Password												
	Add Self-Signed Ce	Self-Signed Certificate											
	Add a self-signed certificate that becomes part of the wallet.												
	* Common Name	hostname.in.oracle.com											
	Organizational Unit	OFSS											
	Organization	Oracle											
	City	Chennai											
	State	TN											
	Country	India 💌											
	Key Size	2048 💌											

Click on 6d Manage...

and the second	Aanager 11g Fusion Middleware Control	Setup    Help    Log Out
👫 Farm 👻 🔒 Topology		
l •	ပြာ oid1 ျ	Logged in as weblogic   Host padsrini-pc
Farm_base_domain Application Deployments	Orade Internet Directory	Page Refreshed Feb 15, 2013 4:44:27 PM IST €2
WebLogic Domain     Dentity and Access     OAM     OAM     OII	Wallets         A Wallet is a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format.         Wallet. To manage the contents of a wallet, select a wallet and cick Manage.         Yeate       Xeates         Yeates       Yeates         Yeates       Yeates	
ovd1	Name	Auto-login
🗄 🚞 Metadata Repositories	oldselfsigned	✓
🛚 🛅 Web Tier		

### Select the Trusted Certificate & Click on Export.

l§Farm → 🛛 🔏 Topology ] →	<pre>     oid1      o </pre>				Looned in as we	blogic Host padsrir
Farm_base_domain	Oracle Internet Directory				Page Refreshed Feb 15.	
WebLogic Domain Identity and Access OAM Identity and Access OAM Identity ord OIM OIM Ovd1	Walets > Manage Certificates         Manage Certificates: oidselfsigned         To generate a certificate signing request (CSR), click 'Add Certificate Request'. After you create a CSR, send it to yo certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same wallet from which the CA-signed Certificate Request into the same wallet from which the CA-signed Certificate Request into the same wallet from which the CA-signed Certificate Request into the same wallet from which the CA-signed Certificate Request into the same wallet from which the CA-signed Certificate Request is the CA-signed Certificate Request into the same wallet from which the CA-signed Certificate Request is the Signed Certificate Request is the CA-signed Certificate Request is the CA-signed Certificate Request is the CA-signed Certificate Request is the Signed Certificate Request is the CA-signed Certificate Request is the Signed Certificate Request is the CA-signed Certificate Request is the Signed Certificate Request is the CA-signed Certificate Req		ty and retur	rn the signe	d certificate. To import	the CA signed
Metadata Repositories	Subject Name	Certificate Type	Status	Key Size	Start Date	Expiration Date
🗷 🦳 Web Tier	CN=padsrini-pc,OU=OFSS,O=Orade,L=Chennai,ST=TN,C=IN	Certificate Request		2048		
	CN=padsrini-pc, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN	Certificate	Valid	2048	February 15, 2013	February 14, 20
	OU=Class 3 Public Primary Certification Authority, O="VeriSign, Inc.", C=US	Trusted Certificate	Valid	1024	January 29, 1996	August 2, 2028
	CN=GTE CyberTrust Global Root, OU="GTE CyberTrust Solutions, Inc.", O=GTE Corporation, C=US	Trusted Certificate	Valid	1024	August 13, 1998	August 14, 2018
	CN=padsrini-pc, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN	Trusted Certificate	Valid	2048	February 15, 2013	February 14, 20
	OU=Class 2 Public Primary Certification Authority, O="VeriSign, Inc.", C=US	Trusted Certificate	Valid	1024	January 29, 1996	August 2, 2028
	OU=Class 1 Public Primary Certification Authority, O="VeriSign, Inc.", C=US	Trusted Certificate	Valid	1024	January 29, 1996	January 8, 2020



Click Export Trusted Certificate and save the certificate file.

Farm + A Topology	A states		Longed in as we	eblogici Host padsrini-po
Farm_base_domain	Orade Internet Directory      ▼			5, 2013 4:45:58 PM 1ST ()
Appication Deployments     Appication Deployments     Identity and Access     OAM     OAM     Odd     Odd     Odd     Odd	Wallets > Manage Certificates Manage Certificates: oidselfsign	Trusted Certificate The Trusted Certificate with Subject Name CN=padsrini-pc, OU=OFSS, O=Orade, L=Chennai, ST=TN, C=IN is shown	certificate. To impor	
ovd1	👍 Add Certificate Request 🛛 👌 Ii	below. You can cut and paste the entire text in the box from BEGIN CERTIFICATE to END CERTIFICATE to the intended location; or click "Export Trusted Certificate " to export the certificate to a file. You may want to do this if another party		
E Metadata Repositories	Subject Name	wants to trust your certificate directly.	Start Date	Expiration Date
8 🛅 Web Tier	CN-padarin-pc, OU-OPSS, O-Or CN-padarin-pc, OU-OPSS, O-Or OU-Cases 9-Abic-Privary Certific CN+oTE CyterTrust Global Root, 1 CN-padarin-pc, OU-OPSS, 0-Or OU-Class 2 Public Primary Certific OU-Class 1 Public Primary Certific	BEGIN CERTIFICATE MIIDODCCALACAQAMOQUJNG-IN-VIEWOQZEBQA-YJEIMAKGALUEBHMCSU4+CSAJBGHVBAgTALROMDAH DGYUDYQUEWDGHUGHVUGHVQQUTVQQKSw2Ecm?bGUJDTALBgHVBAgTALBSGUINAFTDASBGHVBAMT CSBRIZHVy4WFbLASHBHKUTEAUDIHTAHTIHYMV-KUTEHDIAUDAHTIHYMV-vYJEIAKAGAUEBHMC CSBRIZHVy4WFbLASHDIAUTAHDIHYMV-KUTEHDIAUTAHTIHYMV-KUTEHDIAUTAHTIHYMV-VYJEIAKAGAUEBHMC CSRCACLASHPYMBagTALIAOHANDGYUYQUEWDGHUGHVUGHUGHUGHUTVQKEVSEJST SU4acaLSHQWHBAgTALIAOHANDGYUYQUEWDGHUGHUNGHUGHUGHUTVQKEVSEJST CGKCAQEAFHNEXDHILW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTIH CGKCAQEAFHNEXDHILW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTIH CGKCAQEAFHNEXDHILW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTIH CGKCAQEAFHNEXDHILW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTI CGKCAQEAFHNEXDHILW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTIH NmeQHLYEIAMHSONDHUW/THNJLHISAHFIAUTAHTIHYMV-KUTEHDIAUTAHTIH NmeQHLYEIAMHSONDHUW/THNJLHISAHFIAUTAHTIHYMV-KUTESIGHUGHUNGHUHUHUHUHUHUHUHUHUHUHUHUHUHUHUHU	February 15, 2013 January 29, 1996 August 13, 1998 February 15, 2013 January 29, 1996 January 29, 1996	February 14, 2018 August 2, 2028 August 14, 2018
		Export Trusted Certificate Cose		

#### Click on Server Properties.

	Oid1      O					and a state of the second	eblogic Host padsrini					
Farm_base_domain	E Oracle Internet Directory  Page Refreshed Feb 15, 2013 4:45158 PM IST Page Refreshed Feb 15, 2013 4:45158 PM IST											
Application Deployments MebLogic Domain	Home											
	Monitoring Control Logs	<ul> <li>You can only import the CA-sign</li> </ul>	equest". After you create a CSR, send it to yo ed certificate into the same wallet from which		ty and return the s	gned certificate. To impor	t the CA signed					
ovd1	Port Usage	Import 👚 Export	X Delete	Certificate Type	Status Key S	ze Start Date	Expiration Date					
🗈 🫅 Web Tier	Administration	> Server Properties		Certificate Request		ze start bate	Expiration Date					
	Security	Shared Properties		Certificate	Valid 2048	February 15, 2013	February 14, 2018					
	Directory Services Manager	>		Trusted Certificate	Valid 1024	January 29, 1996	August 2, 2028					
		Replication Management	Inc.", O=GTE Corporation, C=US	Trusted Certificate	Valid 1024	August 13, 1998	August 14, 2018					
	General Information	Tuning and Sizing		Trusted Certificate	Valid 2048	February 15, 2013						
	OU=Class 2 Public Primary	Certification Authority, O= VeriSign,	Inc.", C=US	Trusted Certificate	Valid 1024	January 29, 1996	August 2, 2028					
		Certification Authority, O="VeriSign,	Trusted Certificate	Valid 1024	January 29, 1996	January 8, 2020						

#### Click on Change SSL Settings.

fr oid1 @	Logged in as weblogic Host padsrini-po
😰 Orade Internet Directory 🗸	Page Refreshed Feb 15, 2013 4:54:17 PM IST €2
Server Properties	Apply Revert
General Performance SASL Statistics Logging	
Server Mode Read / Write 💌	
SSL Port 3131 Change SSL Settings	
	Server Properties General Performance SASL Statistics Logging Server Mode Read / Write  * Maximum number of entries to be returned by a search 10000

Select the Wallet, SSL Authentication as Server Authentication, Cipher Suite, SSL Protocal Version as below & Click on OK.



	Manager 11g Fusion Middleware Con		
B월 Farm    옮 Topology ㅋ B월 Farm_base_domain	<pre>     oid1      o     Ioracle Internet Directory ▼ </pre>		Logged in as weblogic/Host padsrini-p Page Refreshed Feb 15, 2013 4:55:50 PM 15T 🕻
Application Deployments     WebLogic Domain     Identity and Access		uire a server restart to take effect.	
OAM     OAM     Off     Off     OM     OM	SSL Configuration (2)		OK. Cancel
	SSL Authentication	Server Authentication         Image: Comparison of the comparison of t	
	* SSL Protocol Version	Al	

#### Click on Apply.

	anager 11g Fus	ion Middleware	Control	1					Setup ✔ Help ✔ Log Out
🕂 Farm 👻 🔒 Topology									
∃ -	🗘 oid1 💿								Logged in as weblogic   Host padsrini-pc
E Farm_base_domain	2 Oracle Inter	net Directory 🗸							Page Refreshed Feb 15, 2013 4:56:40 PM IST Č⊉
WebLogic Domain  Methods and Access  OAM  Solution	Information SSL configuration updated for /Farm_base_domain/asinst_1/aid1. Restart component for this change to be effective.								×
호 001	Server Pr	operties							Apply Revert
Metadata Repositories	General	Performance	SASL	Statistics	Logging				
🗉 🛅 Web Tier					Serv	er Mode	Read / Write 💌		
	* Maximum number of entries to be returned by a set				a search	10000			
		* Maximum	time allo	wed for a sea	irch to comple	ete (sec)		3600	
	Preserve Case of Required Attribute Name specified in Search Request Anorymous Bind Maximum time allowed in a Transaction (sec) 0								
	* Maximum Number of Operations allowed in a Transaction 0								
	Port Numb	ers							
				Non-SSL	Port 3060			<b>b</b>	
				SSL	Port 3131			Change SSL Settings	

#### 5.1.3.1 Import LDAP Server SSL Certificate into OIM Server

Import the Exported Certificate into **wlserver\_10.3/server/lib/DemoTrust.jks** of OIM Server Domain using the below command [Store Password is **DemoTrustKeyStorePassPhrase**]

keytool -import -keystore MW\_HOME/wlserver\_10.3/server/lib/DemoTrust.jks -file /home/testoc4j/OIM/globalv.crt - storepass DemoTrustKeyStorePassPhrase

Restart Both OID & OIM Server.

#### 5.1.4 OIM FLEXCUBE Adapter Setup

#### Prerequisite: Gateway EJB component

OIM FCUBS adapter consists of two web services:

- FCUBSLOVAdService : To fetch list of values from FCUBS Database
- FCUBSProvisioningAdService: To handle OIM's request and response for user provisioning and de-provisioning services. This web service requires FCUBS Gateway EJB either on same Weblogic Application server or another. If it is on same Weblogic Application server then this web service is deployed as child of Gateway EJB.



OIM FCUBS adapter setup is all about deployment of these web services on Oracle Fusion Middleware 11g Release 2 (11.1.2.3.0).

#### 5.1.4.1 Environment Setup

The following steps to be followed to do the initial environment setup for OIM FCUBS adapter deployment:

5.1.4.1.1 Copy following folders from the FCUBS Software Release area

- <FCUBS Release Name>\ADAPTERS\OIM\FCUBSLOVAdService
- <FCUBS Release Name>\ADAPTERS\OIM\FCUBSProvisioningAdService
- <FCUBS Release Name>\ADAPTERS\OIM\setup

to local machine (say *D:\OIM* for WINDOWS or */home/kernel/OIM* for UNIX).

Note: If Gateway EJB server and OIM server is on same system, then copy entire folder from FCUBS software release area to local machine.

In this document SPMLADAPTER\_INSTALL\_DIR specifies the directory where adapter will be installed.

e.g.

For WINDOWS:

SPMLADAPTER\_INSTALL\_DIR=D:\

For UNIX:

SPMLADAPTER\_INSTALL\_DIR=/home/kernel/

OIM\_SERVER\_INSTALL\_DIR specifies the OIM server installation directory (like D:\Oracle\Middleware\weblogic\Oracle\_IDM1 in windows or /Oracle/Middleware/weblogic/ Oracle\_IDM1 in unix).

5.1.4.1.2 Create a Data source in WebLogic Server Version: 10.3.6.0.

[Refer Appendix 8.1 Data Source Creation]

#### 5.1.4.1.3 Modify configuration files as below :

Edit **<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\src\webcontent\WEB-INF\web.xmI**. This XML file shall have a similar section as the one shown below (Change the values given in bold)

```
<resource-ref>
<res-ref-name>OIMLOVSQA</res-ref-name>
<res-type>javax.sql.DataSource</res-type>
<res-auth>Container</res-auth>
</resource-ref>
<env-entry>
```

```
<description>Property File Path</description>
```

<env-entry-name>propertyPath</env-entry-name>



```
<env-entry-type>java.lang.String</env-entry-type>
```

```
<env-entry-value>D:/OIM/FCUBSLOVAdService/config/</env-entry-value>
```

</env-entry>

**Edit resource-ref section**: Mention the JNDI name of the Datasource created in Application server for FLEXCUBE UBS Messaging Database Layer Instance at step 3 as res-ref-name.

**Edit Property File Path**: Give the absolute path for lookup\_prop.xml as env-entry-value. Ideally, this file is residing in < SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config.

Note: Give "/" for at the end of the path. Also, note that as separator forward slash has been used instead of backward.

Edit <SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config\lookup\_prop.xml. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

**Edit FCUBS\_CON\_POOLNAME:** Give the same Datasource JNDI name mentioned in above web.xml for FLEXCUBE UBS Messaging Database Layer Instance.

**Edit LOGGER\_PATH:** Give the logging configuration absolute path for lookup\_logger.xml. This file is residing in **<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config** folder.

Note: As separator use forward slash instead of backward slash.

Edit **<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config\lookup\_logger.xml**. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

<add key="ADOIM.LOGGER.FPATH" value="D:/OIM/FCUBSLOVAdService/log/"/>

ADOIM.LOGGER.FPATH: Give the absolute path where log files will be stored. It is recommended that mention the following path <SPMLADAPTER\_INSTALL\_DIR>/OIM/FCUBSLOVAdService/log/

Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.

Edit <**SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\src\webcontent\WEB-INF\web.xmI**. This XML file shall have a similar section as the one shown below (Change the values given in bold)

```
<ejb-ref>
```

<ejb-ref-name>GWEJB\_GW\_EJB\_Bean</ejb-ref-name>

```
<ejb-ref-type>Session</ejb-ref-type>
```

<home>com.ofss.fcubs.gw.ejb.GWEJBRemoteHome</home>



```
<remote>com.ofss.fcubs.gw.ejb.GWEJBRemote</remote>
</ejb-ref>
<env-entry>
<description>Property File Path</description>
<env-entry-name>propertyPath</env-entry-name>
<env-entry-type>java.lang.String</env-entry-type>
<env-entry-value>D:/OIM/FCUBSProvisioningAdService/config/</env-
entry-value>
```

</env-entry>

**Edit ejb-link:** To refer Gateway EJB from the web service locally the reference of Gateway EJB has been defined in this deployment descriptor file. Give the Gateway EJB name here as ejb-link, mentioned as ejb-name in ejb-jar.xml deployment descriptor file of Gateway EJB.

**Edit Property File Path:** Give the absolute path for ADOIM\_Prop.xml as env-entry-value. This file is residing in <**SPMLADAPTER\_INSTALL\_DIR**>\**OIM\FCUBSProvisioningAdService\config.** 

Note: Give "/" for at the end of the path. Also, note that as separator forward slash has been used instead of backward.

Edit **<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config\ADOIM\_Prop.xml**. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

Edit GW\_EJB\_JNDI\_NAME: Give the Gateway EJB JNDI name.

Edit GW\_EJB\_CALL\_TYPE: Give the LOCAL or REMOTE (must be in Upper Case) based on the way EJB is to be referred from web service. If FCUBS Gateway EJB is deployed on same Weblogic Application server then it should be REMOTE.

Edit GW\_EJB\_SERVER\_URL: Give the application server URL where Gateway EJB is deployed.

Following are the parts that make this URL:

t3s://HostName:PortNumber



#### Protocol Host Name Weblogic Port

**Protocol**: This should be t3s as in WebLogic application server.

**Server URL**: This should be the IP address or fully qualified computer name (i.e. <computer name>.<domain>) of the system where the application server is running on which Gateway EJB has been deployed.

Port: This should be the same as request port mentioned in domain.xml file.

#### Edit following section in the

<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\config\ADOIM\_Prop.xml file: (Change the values given in bold )

```
<add key="MAKER_ID" value="OIMUSER9"/>
<add key="HEAD_OFFICE" value="CHO"/>
<add key="REQ_SOURCE" value="IDM"/>
<add key="UBS_OR_IS" value="FCUBS"/>
<add key="UBS_OR_IS" value="FCUBS"/>
<add key="LOGGER_PATH"
value="D:/OIM/FCUBSProvisioningAdService/config/adoim_logger.xml"/>
<add key="FCUBS_SPML_ERROR_FILE"
value="D:/OIM/FCUBSProvisioningAdService/config/
FCUBS_SPML_ERROR.properties"/>
<add key="ADOIM_MSG_LOGGING_ENABLED" value="N"/>
<add key="ADOIM_MSG_LOGGING_PATH"
value="D:/OIM/FCUBSProvisioningAdService/log/"/>
```

**Edit MAKER\_ID:** Give FCUBS user id that can serve as maker id for all OIM requests. Please ensure that this id should be a valid user in FCUBS and should have rights for creating, authorizing and modifying user.

Edit HEAD\_OFFICE: Give the head office branch code.

**Edit REQ\_SOURCE:** Give the external source name. Please ensure that maintenance of this external source has been done in FCUBS.

Edit UBS\_OR\_IS: Give the application name to which the user need to be provisioned. The value will be either FCUBS or FCIS.

Edit LOGGER\_PATH: Give the logging configuration absolute path for adoim\_logger.xml. This file is residing in <SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\config folder.



Edit FCUBS\_SPML\_ERROR\_FILE: Give the absolute path for fcubs\_spml\_error.properties. This file is residing in < SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\config folder.

**Edit ADOIM\_MSG\_LOGGING\_ENABLED:** Give 'Y' if OIM request and response message is required to be stored separately otherwise give 'N".

Edit ADOIM\_MSG\_LOGGING\_PATH: Give the absolute path where OIM request-response will get stored.

Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.

Edit <SPMLADAPTER\_INSTALL\_DIR>\OIM\ FCUBSProvisioningAdService\config\adoim\_logger.xml. This XML file shall have a similar section as the one shown below, (Change the values given in bold)

<add key="ADOIM.LOGGER.FPATH" value="D:/OIM/FCUBSProvisioningAdService /log/"/>

Edit ADOIM.LOGGER.FPATH: Give the absolute path where log files will be stored. It is recommended that mention the following path <SPMLADAPTER\_INSTALL\_DIR>/OIM/ FCUBSProvisioningAdService/log/

Note: As separator use forward slash instead of backward slash. Give "/" for at the end of the path.

**Remark:** GW\_EJB\_SECURITY\_PRINCIPAL & GW\_EJB\_SECURITY\_CREDENTIALS can be update using <SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\setup\ChangePassword.bat or ChangePassword.sh

#### 5.1.4.1.4 Building the Deployment Units for WINDOWS

#### 5.1.4.1.4.1 Building FCUBSLOVAdService.ear

- Edit <SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\setup\WEBLOGIC\ build.xml to set {server\_home} entry to Weblogic Server installed directory
   Eg: D:\Middleware\wlserver\_10.3
- Open a DOS command-prompt and change directory to, D:\OIM\FCUBSLOVAdService\
- Set PATH to JDK\bin and ANT\bin in the command prompt
- Set JAVA\_HOME
- Change the directory to D:\OIM\FCUBSLOVAdService\setup\WEBLOGIC
- To execute the build file, type "ant" on the command-prompt and press enter.

Above step creates an EAR file in D:\OIM\FCUBSLOVAdService\build with the name FCUBSLOVAdService.ear

#### 5.1.4.1.4.2 Building FCUBSProvisioningAdService.ear

- Edit <SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\setup\WEBLOGIC\build.xml to set {server\_home} and {JAVA\_HOME} entry to Weblogic Server installed directory and JDK Installed directory.
  - Eg: D:\Middleware\wlserver\_10.3

C:\Program Files\java\jdk1.7.0\_51

- Change directory to, D:\OIM\FCUBSProvisioningAdService\setup\WEBLOGIC
- To execute the build file, type "ant" on the command-prompt and press enter.



Above step creates an EAR file in build D:\OIM\FCUBSProvisioningAdService folder with the name FCUBSProvisioningAdService.ear

#### 5.1.4.1.5 Building the Deployment Units for UNIX / Linux

#### 5.1.4.1.5.1 Building FCUBSLOVAdService.ear

- Modify {server\_home} entry in the build.xml to where Weblogic Server is installed ( for example /home/kernel/Middleware/wlserver\_10.3 )
- Open a UNIX shell prompt and change directory to, /home/OIM/FCUBSLOVAdService
- Set PATH environment variable with JDK/bin path and ANT\bin path in the command prompt.
- Change the directory to <SPMLADAPTER\_INSTALL\_DIR>/FCUBSLOVAdService/setup/WEBLOGIC
- To execute the build file, type "ant" on the shell prompt and press enter.

Above step creates an EAR file in /home/kernel/OIM/FCUBSLOVAdService/build folder with the name FCUBSLOVAdService.ear

#### 5.1.4.1.5.2 Building FCUBSProvisioningAdService.ear

Edit

<SPMLADAPTER\_INSTALL\_DIR>/OIM/FCUBSProvisioningAdService/setup/WEBLOGIC/build.x ml to set {server\_home} entry to Weblogic Server installed directory

Eg: home/Oracle/Middleware/wlserver\_10.3

home/java/jdk1.7.0\_51

- Change directory to, /home/kernel/OIM/FCUBSProvisioningAdService/setup/WEBLOGIC
- To execute the build file, type "ant" on the command-prompt and press enter.

Above step creates an EAR file in /home/kernel/OIM/FCUBSProvisioningAdService/build folder with the name FCUBSProvisioningAdService.ear



### 5.1.4.2 Deployment

### Deploy FCUBSLOVAdService

Login to Administrative Console

Enter Weblogic administrator username/password and press Login.

VEACLE VebLogic Server® 11g		
Administration Console		
		Welcome
	Log in to	work with the WebLogic Server domain
	Userna	
	Passwo	
		Lo

Click on Deployments as shown in below screen.

New changes and setsation       Home semanary of Deployments         Configure and long is enabled, Future dynamical by a chysical c	Change Center	🖻 Home Log Out Preferences 🔤 Record Help	<u> </u>	Welcome, weblogic Connected to: oim_doma
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		<ul> <li>Set your console preferences</li> </ul>	<ul> <li>Oracle Guardian Overview</li> </ul>	
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Nanage Console extensions     • Work Managers     • Foreign 1/D1 Providers     • SNP       • Monitor servers     • Startup And Shutdown Classes     • Sources     • Charts and Graphs       • Startup And Shutdown Classes     • Doployed Resources     • Mail Sessions     • Charts and Graphs       • Failed (0)     • Deployments     • Fiet3     • Fiet3       • Oriclad (0)     • Security Settings     • Fiet3       • Security Realms     • Security Realms     • Security Realms				
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#### Click on the Install as shown below.

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w do I		adf.oracle.domain(1.0,11.1.1.2.0)	Active		Library	100
Install an Enterprise application Configure an Enterprise application		<pre>madf.oracle.domain.webapp(1.0, 11.1.1.2.0)</pre>	Active		Library	100
Update (redeploy) an Enterprise application	1		Active	<b>⊘</b> ОК	Resource Adapter	324
Start and stop a deployed Enterprise application		🗄 🕞 b 2bui	Active	🖋 ок	Enterprise Application	313
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Critical (0) Overloaded (0) Warning (0)	Inst	III Update Delete Start * Stop *	I		She	wing 1 to 10 of 90 Previous   Ne:

The following screen is displayed.

a. Click on upload your file(s)

ORACLE WebLogic Server®				Q
Change Center	Home Log Out Preference		Q	Welcome, weblogic Connected to: oim_domai
View changes and restarts	Home >Summary of Deployment	ts >Summary of JDBC Data Sou	arces >Summary of Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assistant	incel		
Domain Structure	Locate deployment to ins	tall and prepare for depl	ovment	
oim_domain ▲ Environment → Deployments ⇒ Services ⊕ Hessaging	Select the file path that repre the application directory or file	sents the application root dire e in the Path field.	ectory, archive file, exploded archive	directory, or application module descriptor that you want to install. You can also enter the path of your file(s) and or confirm that your application contains the required deployment descriptors.
Data Sources     Persistent Stores     Foreign JNDI Providers     Work Contexts	Path: Recently Used Paths:	(none)	23/wl1036/NMiddleware/user_p	vojects/domains/oim_domain
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Configure an Enterprise application				
Create a deployment plan				
<ul> <li>Target an Enterprise application to a server</li> <li>Test the modules in an Enterprise application</li> </ul>				
System Status				
Health of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
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WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. A				

Choose the enterprise archive file from the build path:

<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSLOVAdService\build\

a. Click on Next



	Administration Console				Q
Change Center	🙆 Home Log Out Prefere	nces 🛃 Record Help		Q	Welcome, weblogic Connected to: oim_domain
View changes and restarts	Home >Summary of Deploy	ments >Summary of JDBC I	Data Sources >Sumr	nary of Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assist Back Next Finish	Cancel			
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Environment     Deployments     Deployments     Deployments	Click the Browse button bel deployment to the Administ		n or module on the	machine from which you are cu	urrently browsing. When you have located the file, dick the Next button to upload this
Messaging     Data Sources     Persistent Stores	Deployment Archive:	dapters\OIM\FCUE	SLOVAdServic	e\build\FCUB <mark>SLOVAdSen</mark>	vice.ear Browse
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How do L	Back Next Finish	Cancel			
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>					
Configure an Enterprise application					
Create a deployment plan					
Target an Enterprise application to a server     Test the modules in an Enterprise application					
rescure modules in an enterprise application					
System Status					
Health of Running Servers					
Failed (0)					
Critical (0)					
Overloaded (0)					
Warning (0)					
ОК (2)					
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation		may be trademarks of their	respective owners.		

Select the enterprises archive file FCUBSLOVAdService.ear

a. Click on Next

Change Center	Home Log Out Preferences Record Help     Welcome, weblogic     Connected to: oim_domai
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments
Configuration editing is enabled. Future	Messages
changes will automatically be activated as you modify, add or delete items in this domain.	The file FCUBSLOVAdService.ear has been uploaded successfully to /scratch/app/sso1123/w1036/M4iddleware/user_projects/domains/oim_domain/servers/AdminServer/upload
Domain Structure	Install Application Assistant
oim_domain	Book Next Finish Cancel
Deployments	Locate deployment to install and prepare for deployment
E-Services	Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to instal. You can also enter the path of
MessagingData Sources	the application directory or file in the Path field.
Persistent Stores	Note: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.
Foreign JNDI Providers Work Contexts	Path: /scratch/app/sso1123/w1036/NMiddleware/user projects/domains/oim domain/servers/AdminServer/upload/FCUBSLOVAdService.
XML Registries	Recently Used Paths: (none)
XML Entity Caches	Current Location: 05820223.in.orade.com / scratch / app / sso1123 / w1036 / NMiddleware / user_projects / domains / oim_domain / servers / AdminServer / upload
Mail Sessions	Contract controls
File T3	CUBSLOVAdservice.ear
How do I	Back Next Frish Cancel
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	
<ul> <li>Configure an Enterprise application</li> </ul>	
Create a deployment plan	
<ul> <li>Target an Enterprise application to a server</li> <li>Test the modules in an Enterprise application</li> </ul>	
<ul> <li>Test the modules in an unterprise application</li> </ul>	
System Status	
Health of Running Servers	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
OK (2)	

The following screen is displayed.

- a. Select Install this deployment as an application.
- b. Click on Next.



ORACLE WebLogic Server®	Administration Console		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	<u> </u>	Welcome, weblogic Connected to: oim_domain
View changes and restarts	Home >Summary of Deployments >Summary of JDBC D	ata Sources >Summary of Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assistant Back Next Finish Cancel		
Domain Structure	Choose targeting style		
om_domain ▲ B <sup>+</sup> Environment Deployments D <sup>-</sup> Services CH-Messaging Data Sources →Persident Stores	Targets are the servers, clusters, and virtual hosts of Install this deployment as an application The application and its components will be targeted to		
Versistent storesForeign JND ProvidersVork ContextsXML RegistriesXML Entity Coches	Install this deployment as a library     Application libraries are deployments that are available     Back Next Frist     Cancel	e for other deployments to share. Libraries should be	available on all of the targets running their referencing applications.
How do L			
Start and stop a deployed Enterprise application     Configure an Enterprise application     Create a deployment plan     Target an Enterprise application to a server     Test the modules in an Enterprise application			
System Status			
Health of Running Servers			
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           Ok (2)			
WebLogic Server Version: 10.3.6.0 Copyright (6) 1996, 2011, Oracle and/or its affiliates. All Oracle is a resistered trademark of Oracle Corporation	I rights reserved. n and/or its affiliates. Other names may be trademarks of their ri	espective owners.	

The following screen is displayed.

- a. Select the Application Server Instance in which the FCUBSLOVAdService needs to be deployed.
- b. Click on Next.

	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: oim domain
Change Center			welcome, weblogic   connected to: onn_domain
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Sun	nmary of Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assistant           Back         Next         Finish         Cancel		
Domain Structure	Select deployment targets		
oim domain			
Environment	Select the servers and/or clusters to which you want to deploy this a	application. (You can reconfigure deployment t	argets later).
Deployments	Available targets for FCUBSLOVAdService :		
D-Services			
E-Messaging			
Data Sources	Servers		
Foreign JNDI Providers			
Work Contexts	AdminServer		
-XML Registries			
XML Entity Caches	☑ oim_server1		
јсом			
Mail Sessions			
File T3	soa_server1		
How do I			
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	Back Next Finish Cancel		
Configure an Enterprise application			
<ul> <li>Create a deployment plan</li> </ul>			
Target an Enterprise application to a server			
Test the modules in an Enterprise application			
System Status			
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			
OK (2)			
WebLogic Server Version: 10.3.6.0			



The following screen is displayed.

b. Click on Finish.

ORACLE WebLogic Server®	Administration Cons	ole		9
Change Center	Home Log Out	Preferences 🔤 Record Help	٩	Welcome, weblogic Connected to: oim_doma
View changes and restarts	Home >Summary of	Deployments >Summary of JDBC Data Sources >Summary of	f Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Back Next F	Assistant Inish Cancel		
Domain Structure	Optional Setting			
olm_domain  B_Environment Deployments Services	You can modify the	ese settings or accept the defaults		
Messaging     Data Sources     Persistent Stores     Foreign JNDI Providers	What do you want Name:	io name this deployment? FCUBSLOVAdService		
Work Contexts XML Registries XML Entity Caches	Security What security mode	do you want to use with this application?		
jCOM Mail Sessions File T3	OD Only: Use only roles and policies that are defined in the deployment descriptors.			
How do L	Custom Role	s: Use roles that are defined in the Administration	Console; use policies that are de	fined in the deployment descriptor.
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	🔘 Custom Role	s and Policies: Use only roles and policies that are	defined in the Administration Cor	nsole.
Configure an Enterprise application     Create a deployment plan	Advanced: Use a custom model that you have configured on the realm's configuration page.			
Target an Enterprise application to a server	Source accessibility			
Test the modules in an Enterprise application	How should the sou	rce files be made accessible?		
System Status	Ose the defa	ults defined by the deployment's targets		
Health of Running Servers Failed (0)	Recommended select	ction.		
Critical (0) Overloaded (0)	Copy this application onto every target for me			
Warning (0)	During deployment, the files will be copied automatically to the managed servers to which the application is targeted.			
OK (2)	🔘 I will make t	he deployment accessible from the following locati	ion	
	Location:	/scratch/app/sso1123/wl1036/NMiddleware/us	ser_projects/	

Deploy FCUBSProvisioningAdService

If the **GW\_EJB\_CALL\_TYPE** is set as **REMOTE** in the **ADOIM\_Prop.xml** then follow the same step as above (Section 5.1.4.2.1) to deploy the FCUBSProvisioningAdService web service with following changes

- Select the ear file from the path <SPMLADAPTER\_INSTALL\_DIR>\OIM\ FCUBSProvisioningAdService\build\FCUBSProvisioningAdService.ear
- Give the application name as FCUBSProvisioningAdService.

If the GW\_EJB\_CALL\_TYPE is set as REMOTE in the ADOIM\_Prop.xml, follow the below steps

The following screen is displayed.

1. Make sure that Gateway EJB bean has been deployed there as shown in below screen shot.



Change Center	Arme Log Out Preferences Record Help     Home >Summary of Deployments >Summary of Deployments >GWEJB >SUM A + GWEJB				Welcome, we	blogic Connected to: oim_do	
View changes and restarts	Home >	Summary of Deployments >Summary of JDBC Data S	ources >Summary of Deployments >GWEJB	>Summary of Depl	oyments >GWE	JB >Summary of JDBC Data Sourc	es >Summary of Deployments
Configuration editing is enabled. Future	Summa	ry of Deployments					
hanges will automatically be activated as you nodify, add or delete items in this domain.	Contro	Monitoring					
omain Structure							
n_domain		age displays a list of Java EE applications and stan sloved), or deleted from the domain by first selecti			domain. Installe	ed applications and modules can	be started, stopped, updated
"Deployments	To inc	tall a new application or module for deployment to	targets in this domain, click the Install butt	00			
Services	10 115	tai a new application or module for depoyment to	targets in this domain, click the firstal buck	011.			
Messaging     Data Sources	Dourt	mize this table					
Persistent Stores	Custo	omize this table					
"Foreign JNDI Providers	Deplo	yments					
Work Contexts	Insta	Update Delete Start v Stop v				Showing	11 to 20 of 92 Previous   Ne
XML Registries						T	1 11 10 20 01 92 Previous   Ne.
jCOM		Name 💫		State	Health	Sort table by Type	Deployment Order
File T3		n emai		Active		Library	100
w do I		nternas and the second s		Active		Library	100
Install an Enterprise application Configure an Enterprise application	(C)	nemcore .		Active		Library	100
Update (redeploy) an Enterprise application		FCUBSLOVAdService		Active	✓ ок	Enterprise Application	100
Start and stop a deployed Enterprise		-0					
application Monitor the modules of an Enterprise		FileAdapter		Active	🖋 ОК	Resource Adapter	321
application		E FMW Welcome Page Application (11.1.0.0	.0)	Active	🖋 ок	Enterprise Application	5
Deploy EJB modules Install a Web application		FtpAdapter		Active	🖋 ок	Resource Adapter	325
		E GWEJB		Active	≪ок	Enterprise Application	100
ystem Status				HEUVE	+ OK	Enterprise Appleador	100
ealth of Running Servers		Modules					
Failed (0)		GW_EJB_Bean.jar				EJB Module	
Critical (0)		🖃 EJBs				-	
Overloaded (0) Warning (0)		GWEJB_GW_EJB_Bean				EJB	
OK (3)		Web Services					
0.1. (0)		None to display		_	-	1	

Refer 5.1.4.2.1 to know more about the deployment steps.

2. Choose the enterprise archive file Path from the build path:

<SPMLADAPTER\_INSTALL\_DIR>\OIM\FCUBSProvisioningAdService\build\

- 3. Select the enterprises archive file FCUBSProvisioningAdService.ear
- 4. Click on Finish.

ORACLE WebLogic Server®	Administration Console
Change Center	🏠 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments >GWEJB >Summary of Deployments >GWEJB >Summary of JDBC Data Sources >Summary of Deployments
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assistant Back Next Finish Cancel
Domain Structure	Optional Settings
om_dnain	Opcoming Sections         You can modify these settings or accept the defaults         General         What do you want to name this deployment?         Name:       FCUBSProvisioningAdSenice         Security         What security model do you want to use with this application?         Iw DD Only: Use only roles and policies that are defined in the deployment descriptors.
How do I	Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
Start and stop a deployed Enterprise application     Configure an Enterprise application	Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
Create a deployment plan	Advanced: Use a custom model that you have configured on the realm's configuration page.
Target an Enterprise application to a server	- Source accessibility
Test the modules in an Enterprise application	How should the source files be made accessible?
System Status	Ise the defaults defined by the deployment's targets
Health of Running Servers           Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (3)	Recommended selection.         Copy this application onto every target for me         During deployment, the files will be copied automatically to the managed servers to which the application is targeted.         I will make the deployment accessible from the following location         Location:       /scratch/app/sso1123/wh1036/NMiddleware/user_projects/



### 5.1.5 Build GWEJB

To execute the FCUBS Installer for GWEJB build following folder/files should be created/copied at **\ADAPTERS\OIM\FCUBSGW** along with the compiled sources.

- MAIN (Blank folder)
- FCHome.ini (copy from OSDC sources, file will be present at parallel to ADAPTERS folder)

After this GWEJB ear can be build with the source location as **\ADAPTERS\OIM\FCUBSGW**. For GWEJB build kindly refer the doc **Gateway\_EAR\_Building.doc**.

Deploy the created GWEJB ear in OIM server.

#### 5.1.6 OIM Setup

**Prerequisite:** Oracle Identity Server & Oracle Design Console.

OIM side setup should be done on the system where OIM server is running. This setup includes

Java code deployment of OIM's pre-populate adapter, entity adapter and schedule task & importing integration specific configuration files into OIM.

The following steps to be followed to do the initial environment setup:

#### 5.1.6.1 Copy following folders from the FCUBS Software Release area

- <FCUBS Release Name>\ADAPTERS\OIM\OIM-Config
- <FCUBS RELEASE NAME>\ADAPTERS\OIM\setup

to local machine (say D:\OIM for WINDOWS or /home/kernel/OIM for UNIX).

#### 5.1.6.2 Building the Lookup Search Scheduled Task deployment units for WINDOWS.

- Change directory to, D:\OIM\OIM-Config\Sch-Task\setup
- Modify the OIM\_SERVER\_INSTALL\_DIR entry in the build.xml to where OIM Server is installed ( for example D:\Oracle\Middleware\weblogic\Oracle\_IDM1) and JAVA\_HOME entry.
- In the below section of build.xml change the WSDL location hostname and port.

<exec executable="\${JAVA\_HOME}/bin/wsimport">

<arg line="-keep -p com.iflex.fcubs.integration.oim.ws.client http:// <hostname>:<port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI?WSDL"/>

</exec>

• To execute the build file, type "ant" on the command-prompt and press enter.

Above step creates a JAR file in D:\OIM\OIM-Config\Sch-Task\build\ FCUBSLOVSchTask folder with the name **FCUBSLOVSchTask.Jar** 

• Copy this FCUBSLOVSchTask.Jar to the <OIM\_SERVER\_INSTALL\_DIR>\server\ScheduleTask folder and <OIM\_SERVER\_INSTALL\_DIR>\server\apps\oim.ear\APP-INF\lib

#### 5.1.6.3 Building the Lookup Search Scheduled Task deployment units for UNIX

- Change directory to /home/kernel/OIM/OIM-Config/Sch-Task/setup
- Modify the OIM\_SERVER\_INSTALL\_DIR entry in the build.xml to where OIM Server is installed ( for example /Oracle/Middleware/weblogic/Oracle\_IDM1) and JAVA\_HOME entry.
- In the below section of build.xml change the WSDL location hostname and port.



<exec executable="\${JAVA\_HOME}/bin/wsimport">

### <arg line="-keep -p com.iflex.fcubs.integration.oim.ws.client http://<hostname>:<port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI?WSDL"/>

</exec>

• To execute the build file, type "ant" on the shell and press enter.

Above step creates a JAR file in /home/kernel/OIM/OIM-Config/Sch-Task/build/FCUBSLOVSchTask folder with the name **FCUBSLOVSchTask.Jar** 

• Copy this FCUBSLOVSchTask.Jar to the <OIM\_SERVER\_INSTALL\_DIR>/server/ScheduleTask folder and <OIM\_SERVER\_INSTALL\_DIR>/server/apps/oim.ear/APP-INF/lib

### 5.1.6.4 Deployment of Pre-population Adapters

Below Steps will be valid In case of different name used to create the form in 5.1.5.35

Change the directory to

<AdapterSource>/OIM/OIM-Config/PrePopulateAdapter

• Edit the plugin.xml and update the FlexcubeForm into the form name entered in 5.1.5.35

<?xml version="1.0" encoding="UTF-8" ?>

<oimplugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<plugins pluginpoint="oracle.iam.request.plugins.PrePopulationAdapter">

<plugin pluginclass="com.oracle.oim.utility.eventhandler.UserIDPrepopulateAdapter" version="1.0"</pre>

name="UserIDPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::USERID</value>

</metadata>

</plugin>

cplugin pluginclass="com.oracle.oim.utility.eventhandler.UserNamePrepopulateAdapter" version="1.0"

name="UserNamePrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::USERNAME</value>

</metadata>

</plugin>

<plugin pluginclass="com.oracle.oim.utility.eventhandler.UserPasswordPrepopulateAdapter" version="1.0"</pre>

name="UserPasswordPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::USERPASSWORD</value>



</metadata>

</plugin>

<plugin pluginclass="com.oracle.oim.utility.eventhandler.EmailPrepopulateAdapter" version="1.0"

name="EmailPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::EMAIL</value>

</metadata>

</plugin>

cplugin pluginclass="com.oracle.oim.utility.eventhandler.LdapUserPrepopulateAdapter" version="1.0"

name="LdapUserPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::LDAPUSR</value>

</metadata>

</plugin>

<plugin pluginclass="com.oracle.oim.utility.eventhandler.StartDatePrepopulateAdapter" version="1.0"</pre>

name="StartDatePrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::STARTDATE</value>

</metadata>

</plugin>

</plugins>

<plugins pluginpoint="oracle.iam.platform.kernel.spi.EventHandler">

cplugin pluginclass="com.oracle.oim.utility.eventhandler.UserPasswordPreProcessHandler" version="1.0"

name="UserPasswordPreProcessHandler"></plugin>

</plugins>

</oimplugins>

Change the directory to

<AdapterSource>/OIM/OIM-Config/PrePopulateAdapter /setup

- Modify the OIM\_SERVER\_INSTALL\_DIR entry in the build.xml to where OIM Server is installed ( for example D:\Oracle\Middleware\weblogic\Oracle\_IDM1) and JAVA\_HOME entry
  - To execute the build file, type "ant" on the shell and press enter.

Above step creates a zip file in <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter/build/ folder with the name **prepopulateadapter.zip** 

 Copy the <AdapterSource>/OIM/OIM-Config/PrePopulateAdapter/build/prepopulateadapter.zip into <OIM\_SERVER\_INSTALL\_DIR>/server/plugins/



•	<oim_server_install_dir>/server/plugin_utility/ant.properties should be changed from</oim_server_install_dir>
	*********
	## The installation directory for WLS or WAS
	*******
	#wls.home=@wls_home
	#was.home=@was_home
	#######################################
	# The OIM server directory for OIM. For example: MW_HOME/Oracle_IDM1/server
	*****
	#oim.home@oim_home
	*****
	#login file name with path for WAS or WLS
	******
	#login.config=\${oim.home}/config/authwl.conf
	#login.config=\${oim.home}/config/authws.conf
	*****
	# Represents the directory where Oracle Fusion Middleware is installed.
	******
	#mw.home=@mw_home

То

\*

## The installation directory for WLS or WAS

\*\*\*\*\*\*\*\*\*

wls.home=<Installation\_DIR>/Middleware/wlserver\_10.3

#was.home=@was\_home

oim.home=<OIM\_INSTALLATION\_DIR>/server/



\*\*\*\*

#login file name with path for WAS or WLS

login.config=\${oim.home}/config/authwl.conf

#login.config=\${oim.home}/config/authws.conf

# Represents the directory where Oracle Fusion Middleware is installed.

\*\*\*\*

mw.home=<Installation\_DIR>/Middleware

- Set the ANT\_HOME & JAVA\_HOME
- In Command Prompt / SHELL type the below command and Press Enter
- ant -f pluginregistration.xml register
- Following Information has to be provided
  - > OIM Admin User xelsysadm
  - OIM Admin User Password
  - OIM Admin server URL : t3://hostname:portname
  - Full path of adapter which needs to be imported
- <OIM\_SERVER\_INSTALL\_DIR>/server/plugins/prepopulateadapter.zip
  - Result will be displayed like

Plugin com.oracle.oim.utility.eventhandler.LdapUserPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserIDPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.StartDatePrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserNamePrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserPasswordPrepopulateadapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.EmailPrepopulateAdapter version 1.0 Registered

Plugin com.oracle.oim.utility.eventhandler.UserPasswordPreProcessHandler version 1.0 Registered

Modify the weblogic.properties under < OIM\_SERVER\_INSTALL\_DIR >/server/bin

wls\_servername=@servername

application\_name=@appname

metadata\_from\_loc=@metadata\_from\_loc

to

wls\_servername=oim\_server1

application\_name=OIMMetadata



- Type **sh weblogicImportMetadata.sh** in shell or **weblogicImportMeteData.bat** in command prompt and press enter to execute the command.
- You have to enter Weblogic Admin Server user name, password and URL (like t3://localhost:7001)
- Type **sh PurgeCache.sh all** in shell or **PurgeCache.bat all** in command prompt and press enter to execute the command.
- Now you have to enter oim admin user name (xelsysadm), password and oim server URL (like t3://localhost:14000)
- Restart the OIM Server to impact the changes done.

### 5.1.6.5 Create folders for Reconciliation

- For reconciliation, there should be different folder for staging files (yet to be reconciled) and for processed files (after reconciliation). These folders can be anywhere that OIM should able to access. If it is other than the OIM server system then that network path should be mapped as network drive.
- Create folder to keep staging file, for example

<OIM\_SERVER\_INSTALL\_DIR>\xellerate\GTC\Recon\Staging

Create folder to keep processed file, for example

<OIM\_SERVER\_INSTALL\_DIR>\xellerate\GTC\Recon\Archive

#### 5.1.6.6 Importing Configuration Files

This step involves import of integration specific configuration files into OIM using OIM provided Deployment Manager.

Prerequisite: Ensure that OIM setup steps have been followed properly.

Note: Do the import in the same order as it is described below.

Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)

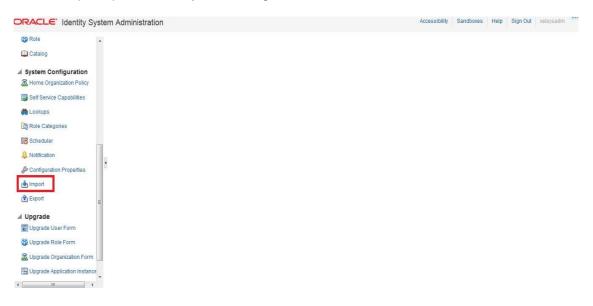
Login to Administrative Console

Enter OIM administrator username/password and press Sign In.

ORACLE' Identity System Administration			Accessibility H	lelp About Oracle	
	Sign In				
		Sign in with your account			
		User ID			
		xelsysadm			
		Password			
		••••••			
		Sign In			
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Click on Import option under System Configuration.



The following screen will get displayed with Add File option.

- a. Select Lookup.xml file from the folder <SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\Screens-Config.
- b. Click on Open.

			Deployment Man	ager - Impo	ort	
Click Add File to add more files.						
Show Information Reset	Legend					
Summary	•	Current Selections				Objects Removed From Import
Import Files	•	Current Selections				objects Removed From import
💠 Add		🚺 🔬 Select a file fo	r import.		×	
Substitutions	•					
💠 Add		Look in:		🌀 🎓 📂 🛄 <del>-</del>		
IT Resources	•	(Arrow)	Name	Date modified	Туре	
💠 Add			Lookup.xml	4/13/2016 3:51 PM	XML Docu	
New Roles	•	Recent Places				
◆ Add			< File name: Lookup xml Files of type: All Files (*.*)	•	) Open Cancel	Missing Dependencies To Create

We will get File preview screen

a. Click on Add file.



Deployment Manager - Import	Deployment	Manager	-	Import
-----------------------------	------------	---------	---	--------

Click Add File to add more files.			
Show Information Reset	Legend		
Summary	•	Current Selections	Objects Removed From Import
Import Files	•	Current Selections	objects Removed From Import
💠 Add		Deployment Manager	1
Substitutions	•		
💠 Add			
IT Resources	•	File Preview	
💠 Add			
New Roles	•	FlexcubeLookup	
◆ Add		File New: Lookup.ami         Exported By: XELSYSA0M         Export Dize: August 20, 214 2:54:44 PM         Export Dize: August 20, 214 2:54:4521 Oracle11g550         Cancel       <<< Back         Add File       Import	Missing Dependencies To Create

### Click on Add File

### Deployment Manager - Import

lick Add File to add more files.			
	Legend		
Summary All: 3 Æ Lookup: 3	•	Current Selections	Objects Removed From Import
Import Files	•	🚈 🖉 Lookup.FLEX.UserLanguage 🔊	
Lookup.xml			
Substitutions	•		
+ Add IT Resources	•		
Add			
New Roles	•		Missing Dependencies To Create
PAGE			
		Add File Import	

Select SchTask.xml file from the folder

<SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\Sch-Tasks\Config-XML.

a. Click on Open.



### Deployment Manager - Import

Show Information Reset Legend	
Summary         V           AL: 3         Current Selections           File Codrug PLEX Transformed Bill         File Codrug PLEX Transformed Bill	Objects Removed From Import
JE Lookup: 3 Select a file for import.	
Import Files V Look in: Look i	
Lookup.xml Date modified Type	
Add Name Date modified Type SchTaskumi 4/13/2016 3:51 PM XML Doc	
Substitutions v Recent Places	
◆ Add	
T Resources V Desktop	
17 Mar.	
New Roles V	Missing Dependencies To Create
Add      Libraries	
Computer	
Network	
File game: Sch Task xml	
Files of type: All Files (".")  Cancel	
Add File Import	
Annu IIIo III III III III	

We will get File preview screen

a. Click on Add file.

Deployment Manager - Import						
Click Add File to add more files.						
Show Information Reset	Legend					
Summary	Current Selections     Object	ts Removed From Import				
All: 3		E Lookup.FCUBS.TimeLevel 🔊				
🔎 Lookup: 3		FLEX_UsrLang_SchTask 🔊				
	∠ Lookup, LEX.IserLanguage ↓	FLEX_UsrLang_SchTask				
Import Files		Lookup.FCUBS.BranchCode				
Lookup.xml	Deployment Manager					
💠 Add		FLEX_BranchCode_SchTask 🔊				
Substitutions	Y	🔊 FLEX_BranchCode_SchTask 🔊				
🔶 Add	File Preview					
IT Resources	FlexcubeScheduledTasks					
💠 Add	riextubescheduled lasks					
New Roles	File Name: SchTask.xml	Dependencies To Create				
I Add	Exported By: XELSYSADM					
	Export Date: August 20, 2014 2:53:53 PM					
	Export Utility Version: 2.0.2.1					
	Exported From: jdbc:oracle:thin:@ofss220246:1521/Oracle11gSSO					
	Cancel << Back Add File					



## Click on Import.

Objectie Dermond From Instant
Minning Deparatorseine To Cenate

Above will prompt for Import Confirmation

a. Click on Import to start import.

Click Add File to add more files.		
Show Information Reset	Legend	
Summary	*	
Alt 7	Current Selections	Objects Removed From Import
🍃 Job: 2	- <u>A</u> Lookup.FLEX.TimeLevel	
Z Laakup: 3	ELEX_UsrLang_SchTask FLEX_UsrLang_SchTask	
Scheduled Task: 2	FLEX_LISTLANG_Schlass and flexes	
	- Elokup.r.EX.branchCode_schTask	
Import Files	FLEX_BranchCode_SchTask	
SchTask.xml	A Lookup.FLEX.UserLanguage	
Lookup.xml		
Add	Confirmation	
Substitutions		
Add	Are you sure you want to import the selections?	
IT Resources	T Import Cancel	Missing Dependencies To Create
Add	Import	
New Roles		
💠 Add		
	Add File Import	

#### Deployment Manager - Import



On successful import following screen will come.

a. Ensure that import is successful and click on ok.

Deployment Manager - Import					
Click Add File to add more files.					
Show Information Reset Legend					
Summary         ▼         Current Set           AE 7         ₽         ₽           ↓ ob: 2         ₽         ₽           ↓ Lookup: 3         ₽         ₽           ≧ Scheduld Task: 2         ₽         ₽           Import Files         ▼         ₽	Kup FLEX TimeLevel X Juri Long SchTask Kup FLEX Ustrang SchTask Kup FLEX Ustrang SchTask FLEX Jerenchock SchTask Crease If you are importing forms with encrypted afful	Import successful butes for a clustered configuration, then restart all nodes of the cluster.	Objects Removed From Import		

The following screen will get displayed.

a. Click on Add File.

#### Deployment Manager - Import

Click Add File to add more files.			
Show Information Reset L	egend		
Summary	•	Current Selections	Objects Removed From Import
Import Files	•	Current Selections	objects Removed From Import
🚸 Add			
Substitutions	•		
💠 Add			
IT Resources	•		
🔶 Add			
New Roles	•		
🛧 Add			
			Missing Dependencies To Create
		Add File Import	



Open file window will get appeared.

- b. Select GTC.xml file from the folder <SPMLADAPTER\_INSTALL\_DIR>\OIM\OIM-Config\GTC-Config\.
- c. Click on Open.

		Deployment Man	ager - Impo	rt	
Click Add File to add more files.					
Show Information Reset Legend					
Summary 🔻					
Import Files 🔻	Current Selections				Objects Removed From Import
🚸 Add	Select a file for	r import.		<b>X</b>	
Substitutions 🔻					
+ Add	Look in:	🏭 GTC-Config 🗾 👻	G 🤌 📂 🛄		
IT Resources 🔻	(Alian	Name	Date modified	Туре	
+ Add	<b>S</b>	GTC.xml	4/13/2016 3:51 PM	XML Docu	
New Roles V	Recent Places				
◆ Add		< III File name: GTC.xml Files of type: All Files (*.*)		Open Cancel	Missing Dependencies To Create

We will get File preview screen

d. Click on Add file.

Deployment	Manager - Import	
------------	------------------	--

Click Add File to add mo				
Show Information	Reset	Legend		
Summary		•	Current Selections	Objects Removed From Import
Import Files		•		objects Removed From import
🚸 Add			Deployment Manager	
Substitutions		•		
💠 Add				
IT Resources		•	File Preview	
🚸 Add				
New Roles		•	Flexcube	
🛧 Add			File Name: GTC.sml	
			Exported By: XELSYSADM	
			Export Date: August 20, 2014 6:35:17 PM	
			Export Utility Version: 2.0.2.1	Missing Dependencies To Create
			Exported From: jdbc:oracle:thin:@ofss220246:1521/Oracle11gSSO	Missing bependencies to create
			Cancel << Back Add File	
			Cancel << Back Add File	
			Add File	
			waa ree import	



Next screen will be the substitution screen.

- e. If the GTC is imported first time then click on Next.
- f. If GTC have been already imported once successfully, change the Version name for example UD\_FLEXCUBE Version = FLEXCUBE V2.
- g. Click on Next.

			Deployment Manage	er - Import		
Click Add File to add mor	re files.					
Show Information	Reset Legen	4				
Summary	•	Current Selections				
Import Files	•	Current Selections			Objects Removed	From Import
💠 Add		Deployment Manager	- Import		X	
Substitutions	•					
🜩 Add						
IT Resources	•	Substitutions				
💠 Add		Provide the subs	titutions for the users/groups (Optional).			
New Roles	•					
💠 Add		Туре	Current Name	New Name		
			DIE SYSTEM ADMINISTRATORS			
		U		land		
		UD_FLEXCUBE Vers		JC2	Missing Depender	ncies To Create
			SELF OPERATORS			
		R	Die ALL USERS			
		Cancel Sul	stitution	Next		
		A dal 1784 Incore d				
		Add File Import				

Above will prompt for substitution Confirmation

h. If any value has been changed on previous screen it will list those substitution otherwise below screen will get displayed. Click on Next.

ick Add File to add m								
	Reset	Legend						
Summary		*	Current Selections					Objects Removed From Import
Import Files								
💠 Add		_		Confirmation			×	
Substitutions		•						
💠 Add								
IT Resources		•		Confirmation				
💠 Add				Are you sure you wa	ant to make the following substitutions?			
New Roles		•		Туре	Current Name	New Name		
💠 Add				UD_FLEXCUBE Version		2 JC2		
				Cancel Subst	tuton ee	Back Next	]	Missing Dependencies To Create
			Add File	Import				

#### Deployment Manager - Import



Next, Provide IT resource instance data screen will get displayed.

- i. Ensure that the green arrow should point to FLEXCUBE\_GTC.
- j. Provide followings to the right hand table:

Parameter Name	Parameter Value
SPML_targetID	FLEXCUBE
SharedDrive_filePrefix	SMOIMHOFF
SharedDrive_stageDirParent	Full path of the staging folder created in step 4 of OIM setup Eg: /home/Oracle/Oracle/Middleware/FCUBS-OIM- Config/Staging
Webservices_webserviceURL	Provisioning web service FCUBSProvisioningAdService URL deployed in step .Typically it should be like https:// <hostname>:<port>/FCUBSProvisioningAdServic ce/FCUBSProvisioningAdServiceSEI Eg: https://ofss000000:14001/FCUBSProvisioningAdServic</port></hostname>
SharedDrive_archiveDir	e/FCUBSProvisioningAdServiceSEI Full path of the archiving folder created in step 4 of OIM setup
	Eg: /home/Oracle/Oracle/Middleware/FCUBS-OIM- Config/Archive
SharedDrive_delimeter	, [Comma ]
SharedDrive_uniqueAttrPare nt	USERID

k. Click on Next.



FLEXCUBE_GTC	FLEXCUBE_GTC	
FLEXCUBE_GTC 🔊	Parameter Name	Parameter Value
<< New Instance>>	SharedDrive_uniqueAttrParen	
	SPML_userName	
	SPML_targetIE	FLEXCUBE
	WebServices_webServiceURL	https://ofss220607.in.oracl
	SPML_userPassword	4
	SharedDrive_stageDirParen	t /scratch/work_area/DBG/C
	SharedDrive_stageDirMultva	I
	SharedDrive_fixedWidth	۱ <b></b> _
	SharedDrive_archiveDi	r /scratch/work_area/DBG/C
	Timestam	

FLEXCUBE_GTC	FLEXCUBE_GTC
🕨 FLEXCUBE_GTC 🔊	Parameter Name Parameter Value
<< New Instance>>	WebServices_webServiceURL https://ofss220607.in.oracl
	SPML_userPassword
	SharedDrive_stageDirParent /scratch/work_area/DBG/0
	SharedDrive_stageDirMultval
	SharedDrive_fixedWidth
	SharedDrive_archiveDir /scratch/work_area/DBG/g
	Timestamp
	SharedDrive_delimiter
	SharedDrive_whetherTabDelimited
	SharedDrive_filePrefix SMOIMHOFF



The following screen will get displayed.

I. Click on Skip.

Click Add File to add more files.			
Show Information Reset L	.egend		
Summary			
Import Files		Current Selections	Objects Removed From Import
🚸 Add		Deployment Manager	×
Substitutions	•	Provide IT Resource Instance Data.	_
💠 Add		Provide II Resource Instance Data.	
IT Resources		FLEXCUBE_GTC Provide the name	e of the IT resource instance to be created.
💠 Add		FLEXCUBE_GTC Distance Name:	
New Roles	•	«« New Instance»»	
💠 Add		Para	neter Name Parameter Value
		Shi	redDrive_uniqueAttrParent
			SPML_userName
			SPML_targetD = Missing Dependencies To Create
		V/el	Services_webServiceURL
			SPML_userPassword
			haredDrive_stageDirParent
		s	haredDrive_stageDirMultval
			SharedDrive_fixedWidth
		Cancel IT Resource Modification «« Back	Skip Next
		Add File Import	
		··	

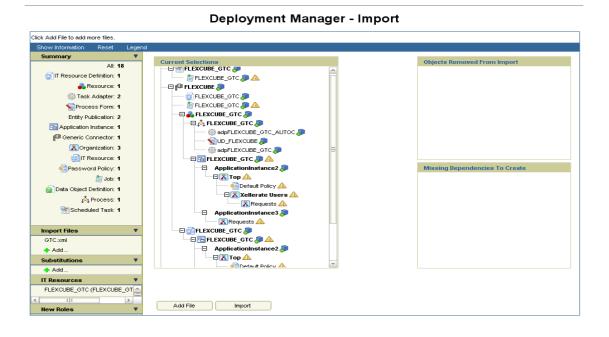
A confirmation window for parameter values will get displayed.

m. Confirm the values and click on View Selections.

We will get Selection screen that will show all components of GTC.

- n. Make sure that there should be no items in Missing Dependencies to create box on right below of the screen. If so, probably some previous imports has been missed out or not imported successfully. Repeat the earlier imports again.
- o. Otherwise click on Import.





# ORACLE

Above will prompt for Import Confirmation

p. Click on Import to start import.

Deployment Manager - Import				
Click Add File to add more files.				
Show Information Reset Legend				
Summary 🔻				
Ak 18       If Resource Definition 1       If Resource 1       Task Adapter: 2       Process Form 1       Ently Addottor: 2       If Operation Instance 1       If Operation Instance 1       If Operation Instance 1       If Operation Operation 3       If Resource 1       If Operation 2       If Operati	Current Selections and FLEXCUE or and of FLEXCU	Objects Removed From Import		
◆ Add IT Resources				
FLEXCUBE_GTC (FLEXCUBE_GT	Add File Import			

Note: Import of GTC.xml may take more time as compare to other imports.

On successful import following screen will come.

q. Ensure that import is successful and click on ok.

Strometor       Rest       Logod         Summary       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1         Import Seconce 1       Import Seconce 1       Import Seconce 1	Click Add File to add more files.		
At 19 Intervence Deritation 1 Resources Deritation 1	Show Information Reset Legend		
Import Files       Import Successful       Import Successful         Import Files       CK         Substitutions       CK	Summary         V           At 18         (a)           (a)         (b)           (c)         (c)           (c) <th>Sub-FLEXCUEE_OTC_AUTOC      Sub-FLEXCUEE_OTC     Sub-FLEXCUEE_OTC</th> <th>ects Removed From Import</th>	Sub-FLEXCUEE_OTC_AUTOC      Sub-FLEXCUEE_OTC     Sub-FLEXCUEE_OTC	ects Removed From Import
Import Hese     ▼       CTC.mt     ■       ▲ Add     ■       Substitutions     ▼       C(0.F_LEXCUBE Version) 2: JC2     ■	الله Organization: 3 المجال Resource: 1 المجال Resource: 1 المجال Resource: 1 المجال Resource: 1 المجال Resource: 1 المجال Resource: 1	If you are importing forms with encrypted attributes for a clustered configuration, then restart all nodes of the cluster.	xing Dependencies To Create
IT Resources	GTC.xml	Applicationinstance)	



Click on Sandboxes.

RACLE Identity System Administration	Accessibility Sandboxes Help Sign Out xelsysadm
Generic Connector	
Application Instances	
a Manage Connector	
System Entities	
ba User	
Sa Organization	
A Role	
Catalog	
System Configuration	
B Lookups	
3 Role Categories	
ið Scheduler	
A Notification	
Configuration Properties	
🌢 Import	

### Click on Create Sandbox.

Policies	Manage Sandboxes ×										6
Approval Policies	NAMES OF A DESCRIPTION										
Access Policies	Available Sandboxes Published S	Sandboxes									
Provisioning Configur	<ul> <li>Sandboxes allow you to isolate To customize create and/or acti</li> </ul>	and experiment with cus tvate a sandbox. After cus	stomizations with stomizations are of	out affecting other users e complete you can publish	nvironments. he sandbox to make the cus	omizations available to oth	her users.				
Reconciliation					@ Deactivate Sandbox			📥 Import Sandbox			🖃 Detach
Form Designer	Sandbox	Description							Active	Last Modified	Last Modified
@ IT Resource	No data to display									On	Ву
Generic Connector											
Application Instances											
Manage Connector											
av 10. 2003											
System Entities											
System Entities											
Manage Connector	1										
System Entities	8										
System Entitles	x										
i System Entities	ž										
System Entities	ž										
( System Entities User : Corganization Construction Catalog ( System Configuration	8										

Enter the Below Details and Click on Save and Close.

- r. Sandbox Name : FlexcubeSandbox
- s. Sandbox Description : FlexcubeSandbox

ORACLE Identity Sys	tem Administration	Accessibility Sandboxes Help Sign Out perrysadm
A Policies	3 Receip Sections x	6
Access Policies	Available Sandboxes Published Sandboxes	
al Provisioning Configur	Construction of the industry of the construction of the const	T Detach
Form Designer	Sandox Description	Active Last Modified Last Modified By
P Generic Connector	Land And Unstand	
Manage Connector	Create Sandbox X	
A System Entities	* Sandox Name / Parcord Sandox	
Corganization	Piercola/Sandhol	
Catalog		
System Configuration	Activate Sandtox.	
Self Service Capabilities		
Role Categories		



### Click on Ok.

	em Admini	istration					Accessibilit	/ Sandbo	kes Help Sign (	Out xelsysadm	
P³ Generic Connector       ▲         Image: Application Instances       Image: Connector	Available S	Sandboxes ×		stomizations with	out affecting other users en	wironments					
▲ System Entities ♣ User	To cus View 🔻		ivate a sandbox. After cus X Delete Sandbox	tomizations are (		wironments. he sandbox to make the cust	tomizations a		Export Sandbo		»
& Organization	Sa	ndbox	Description					Active	Last Modified On	Last Modified By	Ē.
👸 Role	► Flei	Create Sandbo	рх				×		Apr 18, 2016	mdsinternal	
Catalog		💊 Confirmatio	on								
System Configuration Hone Organization Policy Self Service Capabilities Concups Concups Concups Configuration Properties		Sandbox Flex	cubeSandboxFlexcubeSa	a was created us	ng label Creation_IdM_Fle	xcubeSandboxFlexcubeSa_	06:10:44.				
opyright © 2001, 2015, Oracle and/or its	affiliates. All ri	ghts reserved								Ab	out

# Click on Form Designer under Provisioning Configuration.

	nage Sandboxes 🗙									
al Policies										
Policies Availab	ble Sandboxes Published	Sandboxes								
oning Configur	andboxes allow you to isolat o customize create and/or ac	te and experiment with cu clivate a sandbox. After cu	stomizations with stomizations are	out affecting other users e complete you can publish	nvironments. the sandbox to make the cus	tomization	is available to oth	ner users.		
ciliation _ View	▼ Create Sandbox	💥 Delete Sandbox	Refresh	Activate Sandbox	O Deactivate Sandbox	🕒 Pul	olish Sandbox	Export Sandbo	ж »	>>
Designer	Sandbox	Description					Active	Last Modified On	Last Modif By	ied
	FlexcubeSandboxFlexcu	FlexcubeSandbox					0	Apr 18, 2016	mdsInterna	1
c Connector										
tion Instances										
e Connector										
e Connector Entities										
Entities										
Entities										
Entities										
Entities zation										

# Click on Create

DRACLE Identity Sys	tem Administration	Accessibility Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign Out	xelsysadm
Policies	Manage Sandboxes 🗴 Form Designer 🗙		ľ
Approval Policies	Search Forms		
Access Policies	✓ Search	Saved Search Implici	t Search 👻
Provisioning Configur	Resource Type Q		
Form Designer		Search Rese	save
() IT Resource	Search Results		
Generic Connector	Actions 👻 View 👻 😤 Create 🥒 Open		Detach
Application Instances	Row Form Name	Type Resource Typ	e
Manage Connector	• No data to display.		
System Entities			
🇞 User			
S Organization			
8 Role			
Catalog			
System Configuration			
Home Organization Policy			



Enter the below details and Click on Create

- Resource Type : FLEXCUBE\_GTC
- Form Name : FlexcubeForm

Note\*: Form Name should be same as above

ORACLE Identity Syst	em Administration		Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa)	Help Sign Out xelsysadm
Policies     Approval Policies     Access Policies     Access Policies     Provisioning Configur     Provisioning Configur     Provisioning Connector     Ceneric Connector     Application Instances     Manage Connector	Manage Sandboxes x Form Designer x New form for FLEXCUBE_GTC Resource Type FLEXCUBE_GTC * Form Name FlexcubeForm				Create
System Entities	View 👻 📓 Detach				
🇞 User	# Display Name	Name	Description		Bulk Update
a Organization	1 containerID	UD_FLEXCUBE_CONTAINERID	containerID		
Image: System Configuration       Image: System					

Successful form creation will be like below:

	tem Administration		Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa)	Help Sign	Out xe	lsysadm 👘
A Policies	Manage Sandboxes 🗴	Form Designer x					X
Approval Policies	Search Forms				Saved Search	Implicit	aarah 📼
Provisioning Configur Reconciliation	A Search Resource Type	٩			saved Search	Implicits	earch 💌
Form Designer	Search Results				Search	Reset	Save
Generic Connector	Actions View V	🕂 Create 🥒 Open					Detach
Application Instances	Row Form Name			Туре	Resou	rce Type	
Anage Connector System Entities Connector	• No data to display.						
晟 Organization 徽 Role							
🚇 Catalog							
System Configuration Home Organization Policy	-						

Click on Application Instances under Provisioning Configuration.



Policies	Manage Sandboxes >	× Form Designer ×				
Approval Policies	Search Forms					
Access Policies				Saved Search	Implicit S	arch
Provisioning Configur	Search			Saveu Search	implicit of	
Reconciliation	Resource Type	۹				
Form Designer	E			Search	Reset	Save
@ IT Resource	Search Results					
Generic Connector	Actions View V	🐣 Create 🥒 Open			8	Detach
Application Instances	Row Form Name		Type	Resou	rce Type	
Application Instances	Row Form Name No data to display.		Туре	Resou	гсе Туре	
Application Instances			Туре	Resou	rce Type	
Manage Connector			Туре	Resou	rce Type	
Manage Connector			Туре	Resou	гсе Туре	
Manage Connector			Туре	Resou	rce Type	
Manage Connector System Entities			Туре	Resou	rce Type	
Anage Connector System Entities			Туре	Resou	rce Type	
Manage Connector			Туре	Resou	гсе Туре	

## Click on Search.

	em Administratio	/1		Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa)	
Policies	🐻 Manage Sandbo	kes 🗙 Form Designe	× Application Instances ×			1
Approval Policies	Search Appli	cation Instance	s			
Access Policies						
Provisioning Configur	▲ Search				Saved Search	Search Application Instances 💌
Reconciliation	Match 💿 All 🔘	Any				
Form Designer	Resource	e Object Starts with	•			
T Resource	Disp	ay Name Starts with	•			
Generic Connector	IT Resource	Instance Starts with	•			
Application Instances	Theoderee	Starts with				
Manage Connector	1				Search Reset Save	e Add Fields <b>v</b> Reorder
System Entities	Search Results					
🔁 User	Actions - View	🔹 💠 Create 🥖	Open 💥 Delete 🙀 Refresh	🖙 🖃 Detach		
Crganization	1					
& Role	Row# Display N	ama	Description	Resource Object	IT Resource Instance	
Catalog	No data to display	ame	Description	Resource object	Ti Resource instance	
System Configuration						
& Home Organization Policy						

# Click on FLEXCUBE\_GTC.

Policies	😡 Mana	age Sandboxes	× Form Desig	ner x Application Instances x						
Approval Policies			tion Instan							
Access Policies	Ucuro	an Applica	.ion matur	003						
Provisioning Configur	.⊿ Se	earch					Saved Sea	arch Sea	rch Application In	stances 🔻
Reconciliation	Match	All O Any								
Form Designer		Resource O	bject Starts with	h 💌						
IT Resource		Display N	lame Starts with	h 💌						
Generic Connector										
Application Instances		Resource Inst	ance Starts with	h 💌						
Manage Connector	1					Search	Reset	Save	Add Fields 🔻	Reorder
System Entities	Coarob	Results								
User		s View V	👍 Create	🥒 Open 💥 Delete 🚷 Ref	resh 🔄 🗟 Detach					
Organization			• orouto							
Role	_									
	Row#	Display Nam	e	Description	Resource Object	IT Resource Ins	tance			
Catalog	1	FLEXCUBE_G	FC	FLEXCUBE_GTC	FLEXCUBE_GTC	FLEXCUBE_GTC				
system Configuration										

Choose the Form as FlexcubeForm and Click on Apply.



Policies		m Designer × Application Instances × FLEXCUBE_GT		
Approval Policies			C X	
Access Policies	Application Instance	: FLEXCUBE_GTC		
Provisioning Configur	Attributes Organizations	Entitlements		
Reconciliation				Required Field Apply Reven
Form Designer				Required Field Spipity
T Resource	* Display Name	FLEXCUBE_GTC		
Generic Connector				
Application Instances	Description	FLEXCUBE_GTC		
Manage Connector				
System Entities				
User	Resource Object	FLEXCUBE GTC Q		
Corganization				
Role	IT Resource Instance	FLEXCUBE GTC Q		
Catalog				
System Configuration	Form	Edit 🔀 Refresh		

On Successful modification will be shown like below:

DRACLE Identity Sys	tem Administration	Application Instance FLEXCUBE_GTC modified	ccessibility Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign O	
Policies	Manage Sandboxes 🗙 For	m Designer x Application Instances x FLEXCUBE_GTC x		
Approval Policies	Application Instance	FLEXCUBE_GTC		
Provisioning Configur	Attributes Organizations	Entitlements		
Reconciliation			*Required Field	Apply Revert
Form Designer IT Resource	* Display Name	FLEXCUBE_GTC		•
Generic Connector     Application Instances     Manage Connector	Description	FLEXCUBE_GTC		Π
System Entities	Resource Object	FLEXCUBE_GTC Q		E
🗱 Cole	IT Resource Instance	FLEXCUBE_GTC		
System Configuration	Form	FlexcubeForm 💌 🥒 Edit 🚷 Refresh		-

Application Instance belongs to the following Organizations

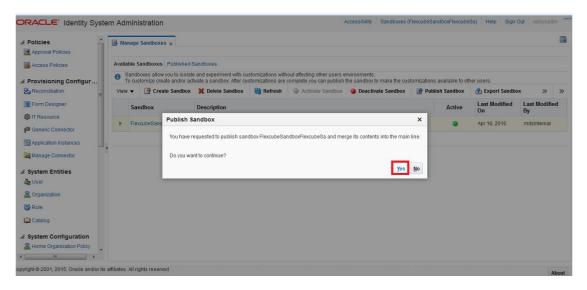
Note: In case provisioning has to be applied for different Organizations then Create the Organizations under System Entities and map those Organizations to the Application Instance.

DRACLE Identity Syst	em Administration				Accessibility	Sandboxes	Help Sign 0	ut miner	udm 🐂
Approval Policies	Application Instances × F Application Instan								
Provisioning Configur Reconciliator	Altributes Organization	s Entrillements						Apply 6	Revent
Form Designer			tance is available to are shown below. Revoke 🙀 Refresh 🔄 🗑 Detach						
P Generic Connector	1								
Application Instances	Row# Organization Name	Туре	Hierarchy aware						
C. Sentecting addition of	<b>1</b> Top	System	[9] include sub-orgs						
Jeser System Entities	2 Requests	System	V include sub-orgs						
& Organization									
S Role	1								
Catalog									
A System Configuration									

Select and click on Publish Sandbox.



Policies	Manag	e Sandboxes 🗙							
Approval Policies									
Access Policies	Available	Sandboxes Published S	Sandboxes						
Provisioning Configur	Sand	boxes allow you to isolate	e and experiment with cu tivate a sandbox. After cu	stomizations with stomizations are	nout affecting other users e complete you can publish	nvironments. the sandbox to make the cu	stomizations available to ot	ner users	
Reconciliation	View 🔻		💥 Delete Sandbox	Refresh	Activate Sandbox		-	👚 Export Sandbox	»
Form Designer	Sa	andbox	Description				Active	Last Modified On	Last Modifie By
IT Resource	6 EL	excubeSandboxFlexcu	FlexcubeSandbox				0	1	mdsInternal
	P 116	excubeSanuboxFlexcu	FlexcubeSandbox					Apr 18, 2016	
Generic Connector	P	excube sandbox riexcu	FlexcubeSandbox				•	Apr 18, 2016	musinternu
Generic Connector     Application Instances	P FIE	Acube Sandbox riexcu	FlexcubeSandbox				•	Apr 18, 2016	maamar
Application Instances		ACUDESandboxriexCu	FlexcubeSandbox				•	Apr 18, 2016	masmema
Application Instances		ACUDE Sandoorrex.u	FlexcubeSandbox				•	Apr 18, 2010	
Application Instances		ACUDESandboxrieACU	FlexcubeSandoox					Apr 18, 2010	indonenia i
Application Instances Manage Connector System Entities Suser		Acupesanduorreacu	FlexcubeSandbox					Apr 18, 2010	
-		Addesanduorread	FiexcubeSandoox				•	Apr 18, 2010	
Application Instances Manage Connector System Entities User Corganization B Role		Addesanduorread	FIEXCLOSSANDOX				•	Apr 18, 2010	
Application Instances Manage Connector System Entities Suser & Organization		Addesaliduor (BAd	FIEXCUDESANGOOK				•	Aprine, 2010	



Click on Scheduler under System Configuration.

DRACLE Identity System Administration	Accessibility Sand	boxes Help	Sign Out	xelsysadm	
😹 Organization					
🔯 Role					
Catalog					
System Configuration					
The Arman Arganization Policy					
Self Service Capabilities					
de Lookups					
Role Categories					
B Scheduler					
A Notification					
Configuration Properties					
≝ Import					
P Export					
Upgrade					
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🐉 Upgrade Role Form					
Sa Upgrade Organization Form					
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Click on 主 to Search for Scheduled Job List.



ORACLE <sup>®</sup> Identity System Administ	tration Signed in as xelsysadm Heb	0
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### Click on Entitlement List

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TER_Usrtang_SchStopped	luate User Polic Stopped		
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#### Click on Run Now.

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Alicit Scheduled 5005	Job Details : Entitlement List	
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testation Grace Stopped	Job Name Entitlement List	
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k Load Post Pro Stopped	* Retries 5	No pre-defined schedule
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rtification Event Stopped	Job Periodic Settings	
aCollection Sch Stopped	Run every 1	
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ble User After Stopped		
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tlement Post D Stopped	Last Run Start April 18, 2016 6:39:28 PM IST	
uate User Polic Stopped	Last Run End April 18, 2016 6:39:28 PM IST	
K_BranchCode Stopped	Next Scheduled Run April 8, 2016 3:47:19 PM IST	
K_UsrLang_Sch Stopped		
KCUBE_GTC Stopped	Parameters	
m Ungrade Job Stopped	AutoPublish True	
ws Selected 1	Ignore Resource List	

Schedule Task Setup

This step involves setting up Schedule task parameters.

5.1.6.6.1 Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)



Enter OIM administrator username/password and press Login.

ORACLE' Identity System Administration			Accessibility	Help	About Oracle	
	Sign In					
		Sign in with your account				
		User ID				
		xelsysadm Password				
		•••••••				
		Sign In				
		sign in				

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Click on Scheduler under System Configuration.



Click on 主 to Search for Scheduled Job List.



ORACLE <sup>®</sup> Identity System Administ	tration Signed in as xelsysadm Heb	0
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Search Scheduled Jobs	Wekome Welcome to Identity System Administration	1
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	System Hanagement Search Scheduled Jobs Search Notification Templates Search System Properties	
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Click on FLEX\_BranchCode\_SchTask.

Event Management Policie	s System M	nagement	
Scheduler Notification Syste	em Configuration		
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ulk Load Archival Job	Stopped		
Bulk Load Post Process	Stopped		
Catalog Synchronization Job	Stopped		
Certification Event Trigger Job	Stopped	System Management	
DataCollection Schedule Job	Stopped	Search Scheduled Jobs	
Delayed Delete User	Stopped		
Disable/Delete User After End Date	Stopped	Search Notification Templates	
Enable User After Start Date	Stopped	Search System Properties	
Entitlement Assignments	Stopped	Ball Search System Properties	
Entitlement List	Stopped		
Entitlement Post Delete Processing Job	Stopped		
Conference Lines Collision	Classed		
FLEX_BranchCode_SchTask	Stopped		
cox_oarcong_oomoak	otopped		
FLEXCUBE_GTC	Stopped		
Form Upgrade Job	Stonned		

On the Edit Schedule Task screen.

WebService Url : FCUBSLOVAdService deployed in section <u>5.1.4.2.1</u>

https://<hostname>:<ssl\_port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI

Query

FCUBS :

select branch\_code||'~'||branch\_code from sttm\_branch order by branch\_code

FCIS :

select moduleid||'~'||moduleid from moduleprofilebasetbl where once\_auth='Y' order by moduleid

• Click on Apply and Click on Run.

:

Event Management Policies System	m Management	
cheduler Notification System Configuration	n	
earch Scheduled Jobs	Welcome Job Details	
+	Job Details : FLEX BranchCode SchTask	
dvanced Search		* Indicates required fields. Apply Run Now Stop Enable Disable Refresh
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Attestation Grace Stopped	Job Name FLEX_BranchCode_SchTask	© Periodic
Automated Retry Stopped	Task FLEX_BranchCode_SchTask	© Penoac © Cron
utomatically Unlo Stopped		Schedule Type Single
ulk Load Archival Stopped	*Retries 0	() single
ulk Load Post Pro Stopped		No pre-defined schedule
atalog Synchroni Stopped		
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isable/Delete Use Stopped	Last Run End April 20, 2016 5:47:03 PM IST	
nable User After Stopped	Next Scheduled Run	
intitlement Assign Stopped		
ntitlement List Stopped	Parameters	
ntitlement Post D Stopped	Lookup Name Lookup.FLEX.BranchCode	WebService Name FCUBSLOVAdService
Valuate User Polic Stopped	OIM Country US	WebService NameSpace http://lovservice.ws.oim.integration
LEX_BranchCode Stopped		
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LEXCUBE_GTC Stopped	Query select branch_code ['~' branch_co	WebService Url https://ofss220607.in.oracle.com:7
orm Unorade Job Stooped		
Rows Selected 1	Job History	



Modify FLEX\_UsrLang\_SchTask job

• WebService Url : FCUBSLOVAdService deployed in section 5.1.4.2.1

https://<hostname>:<ssl\_port>/FCUBSLOVAdService/FCUBSLOVAdServiceSEI

• Click on Apply and Click on Run.

ent Management Policies Syste	m Management	
neduler Notification System Configuration	n -	
arch Scheduled Jobs	Welcome Job Details	
→	Job Details : FLEX UsrLang SchTask	
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		Apply Run Now Stop Enable Disable Refresh
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b Name Status		
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talog Synchroni Stopped		
rtification Event Stopped	Job Status	
ataCollection Sch Stopped	Current Status Stopped	
alayed Delete User Stopped	Last Run Start April 20, 2016 5:38:34 PM IST	
able/Delete Use Stopped	Last Run End April 20, 2016 5:38:35 PM IST	
able User After Stopped	Next Scheduled Run	
titlement Assign Stopped		
itlement List Stopped	Parameters	
titlement Post D., Stopped	Lookup Name Lookup.FLEX.UserLanguage	WebService Name FOUBSLOVAdService
raluate User Polic Stopped		
EX BranchCode Stopped	OIM Country US	WebService NameSpace http://lovservice.ws.oim.integration
EX UsrLang Sch Stopped	OIM Language en	WebService Operation lookup
EXCUBE_GTC Stopped	Query select LANG_CODE    '~'   LANG_COD	WebService UK https://ofss220607.in.orade.com:7
m Lingrade Job Stopped	*	
ows Selected 1	Job History	



# 5.1.7 System Configurations

### 5.1.7.1 Integration Specific Configurations

### 5.1.7.1.1 FCUBS Configurations

On FCUBS side following configurations need to be done:

- Maintenance of Maker ID
- Maintenance of External Source

Both configurations can be done using FCJ provided screens.

1. Maintenance of Maker ID

The FCJ screen can be open through Security Maintenance >> Users >> Detailed menu or using the function SMDUSRDF.

2. Maintenance of External Source

For OIM request and response handling, an external source should be maintained in FCUBS database.

The FCJ screen can be open through Gateway >> External System >> Detailed menu or using the function 'GWDEXSYS'.

This external source should be able to do all operations like Create	Modify	Close	Open	View. This can be maintained through function GWDEXFUN or through Gateway >> External System Functions >> Detailed. Required actions and their corresponding details are given as below.
--	--------	-------	------	---

Action	Function	Service Name	Operation Code
NEW	SMGUSRDF	FCUBSSMService	CreateUserMaint
UNLOCK	SMGUSRDF	FCUBSSMService	ModifyUserMaint
DELETE	SMGUSRDF	FCUBSSMService	DeleteUserMaint
CLOSE	SMGUSRDF	FCUBSSMService	CloseUserMaint
REOPEN	SMGUSRDF	FCUBSSMService	ReopenUserMaint
VIEW	SMQUSRDF	FCUBSSMService	QueryUserMaint

Ensure that required maintenance has been done for function CODSORCE (Gateway >> Source>> Detailed) and for function CODUPLDM (Gateway >> Source Preferences >> Detailed menu).



For maintenance of amendable fields in GWTM\_AMEND\_NODES and GWTM\_AMEND\_FIELDS entries can be made using the function STDAMDMT or through Gateway >> Amendment Maintenance >> Detailed. Following table gives the amendable node and fields details that should be maintained.

Field Name	Value
Amend Nodes section	
Node Name	SMTB_USER
New Allowed	Checked
Delete Allowed	Checked
All Records	Checked
Amend Fields section	
Field Name	HOME_BRANCH
Field Name	START_DATE
Field Name	TIME_LEVEL
Field Name	USER_LANGUAGE
Field Name	USER_NAME
Field Name	USER_PASSWORD
Field Name	SALT

### 5.1.7.2 OIM Configurations

### 5.1.7.2.1 OID Connector Configuration

For FLEXCUBE single sign on mode, the provisioning process consist of user creation in underlying LDAP directory and then provsioining into FLEXCUBE. OIM porvides out of box connectors for LDAP directorires. This connectors provides facility to connect with LDAP and to do the operation through OIM console.

In this integration, the underlying directory for Oracle access manager is Oracle Internet Directory. OIM porvides out of box connector for it that need to be imported as the connector document provided by OIM. After import, following steps should be followed :

Login to the Design Console.



🧧 Oracle Identit	ty Manager Design Cons 💷 🗙
	Welcome To
c	DRACLE
	le Identity Manager
D	lesign Console
<u>U</u> ser ID	×elsysadm
<u>P</u> assword	•••••
Version	11.1.2.3.0.0.0
Login	Cancel



Navigate to the Administration>>Lookup Definition menu

- a. Enter the below details:
  - Code: Lookup.OID.Organization
  - Click on Search 
     Icon
  - Click on Add dt button
  - Enter the below details:
  - Code Key : cn=Users,dc=in,dc=oracle,dc=com
  - Decode: cn=Users,dc=in,dc=oracle,dc=com
- b. Click on Save 🗳

Oracle Identity Mar	nager Design Console : connected to jdbc:oracle:thin:@ofss220374:1521/OracleSSO12c >
<u>F</u> ile <u>E</u> dit <u>T</u> ool Bar <u>H</u> elp	
M 4 Þ M 🗅 🖬 👫 🗄	5 🕄 🗙 🗊 🖉
Oracle Identity Manager Design Cd Resource Management In Resource Type Definitie Resource Objects Orocess Management Administration Coup Definition Development Tools	Lookup OID. Organization Field © Lookup Type © Field Type Required Group Lookup OID. Organization Lookup Code Information Add Code Key Decode 1 cn=Users, dc=ofss, dc cn=Users, dc=ofss, dc
	Lookup Definition Resource Objects Lookup Definition

Navigate to the Administration>>Lookup Definition menu

- a. Enter the below details:
  - Code: Lookup.OID.UM.ProvAttrMap
  - Click on Search M Icon
  - Modify the Decode value for Code Key Name:
  - From : \_\_NAME\_="uid=\${User\_ID},\${Container\_DN}"
  - To : \_\_NAME\_="cn=\${User\_ID},\${Container\_DN}"
- b. Click on Save 星.



Navigate to the Resource Management>>Resource Objects menu. This will open a blank screen.

- a. Enter FLEXCUBE\_GTC in Name box.
- b. Click on Search icon.
- c. This will show the definition for resource FLEXCUBE\_GTC. Click on Assign button in Depends On tab.

🔁 Oracle Identity Manager	Design Console : connected to jdbc:oracle:thin:@ofss220246:1521 $\_$ $\Box$	×
<u>File E</u> dit <u>T</u> ool Bar <u>H</u> elp		
K < F H D <b>B M</b> &		
Oracle Identity Manager Design Co	Resource Object Object Reconciliation	
Resource Management	Name FLEXCUBE_GTC	
Rule Designer	Order For User Order For Organization	
Process Management	Type Application	
Process Definition     Administration     Q Lookup Definition	Trusted Source	Ш
User Defined Field Definiti	Administrators Password Policies Rule User Defined Fields Process Event Handlers / Adapters Resource Audit Objectives Status Definition	
	Depends On Object Authorizers Process Determination Rules	
	Assign Object	
	Delete	
H		
ç.		
		-
	Resource Objects	

Select the OID User from the Unassigned Objects list. Click on the arrow pointed to Assigned objects.

a. Click on OK. This will move OID user resource to Assigned objects.



File Edit Tool Bar Help
Oracle Identity Manager Design C     Resource Object Object Reconciliation
Object Definition
Assigned Objects
Rule     Unassigned Objects       Image: Resc     1       OID Trusted User
Process DID User
Adminis
E Develop
les
<u>O</u> K <u>Cancel</u>
Resource Objects

Ensure that OID User will be shown under Object.

a. Click on Save.

Oracle Identity Manager	Design Console : connected to jdbc:oracle:thin:@ofss220246:1521 _ 🗆	×
<ul> <li>Oracle Identity Manager Design Co</li> <li>User Management</li> <li>Resource Management</li> <li>T Resource Objects</li> <li>Process Management</li> <li>Email Definition</li> <li>Administration</li> <li>Lookup Definition</li> <li>User Defined Field Definition</li> <li>Development Tools</li> </ul>	Resource Object       Object Reconciliation         Object Definition       FLEXCUBE_GTC            • Order For User        Order For Organization         Type       Application         Trusted Source       Image: Content of the second s	
	Resource Objects	

### 5.1.7.2.2 Access Policy Creation for OID

Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostname>:<oimport>/sysadmin)

Login to Administrative Console

a. Enter OIM administrator username/password and press Sign In.



ORACLE Identity System Administration			Accessibility	Help	About Oracle	
	Sign In					
		Sign in with your account				
		User ID				
		xelsysadm				
		Password				
		*******				
		Sign In				

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Click on Access Policies under Policies.

DRACLE Identity System Administration	Accessibility	Sandboxes	Help	Sign Out	xelsysadm	
Policies     Approval Policies						
₩ Access Policies						
Seconciliation						
Form Designer						
聯 IT Resource						
P Generic Connector						
E Application Instances						
Manage Connector						
System Entities						
🗞 User						
Z Organization						
🚯 Role						
Catalog						
System Configuration						
The Arganization Policy						
III						

Click on Create Access Policy.

Manage Access Policies Enter your search criteria to search for access policies.	
▼	
Search Access Policies Create Access Policy (	Clear



Enter the below details and Click on Continue

- Access Policy Name : OIDAccessPolicy
- Access Policy Description : OIDAccessPolicy •
- Policy Owner : ALL USERS •
- Retrofit Access Policy : Yes •
- Priority 1

reate Access Policy	
Step 1: Create Access Policy	y
* Indicates Required Field	
Access Policy Name	* OIDAccessPolicy
Access Policy Description	OIDAccessPolicy *
Policy Owner	Role 💽 ALL USERS
Retrofit Access Policy	
Priority	* 1 Current Lowest Priority=1
Exit Continue >>	

Perform the below mentioned Operations and Click on Continue.

- Select OID User •
- Click on Add Button •

Create Access Policy	1234	
Step 2: Select Resources	ed hu this score policy	
* Indicates Required Field	Go	
Results 1-2 of 2	First   Previous   Next   Last	Selected:
Image: Construction of the second s	FLEXCUBE_GTC OID User	Add >>
Exit << Back Continu	ie >>	



Click on Continue.

Create Access Policy	1 2 3 4
Step 2: Select Resources	
The subsequent pages will guide you throu	gh providing the data to associate with the following resources you selected to be provisioned by this Access Policy:
• OID User	
Exit << Back Skip Thi	e Step

Select the below Details and Click on Continue.

- Server : OII
  - OID Server cn=Users,dc=in,dc=oracle,dc=com
- Container DN :Preferred Language :
- English

:

:

Start Date

- April 20, 2016 (Current Date)
- End Date
- April 20, 2026 (End Date)



Provide the following process details for resource <b>OID User</b> :	
* Indicates a required field	
User ID	*
Server	* OID Server
Password	
First Name	
Middle Name	
Last Name	*
Common Name	*
Container DN	* cn=Users,dc=ofss,dc=in,dc
Department	
Location	
Telephone	
Email ID	
Preferred Language	English Clear
Time Zone	
Title	
Start Date	April 20, 2016
End Date	April 20, 2026
manager	
Exit         << Back	

#### Click on Continue.

Create Access Policy		
Step 2: Select Revoke Or Disable Flag		
Select if the resources need to be revoked or disabled if the access policy no longer applies.		
Resource Name	Revoke if no longer applies	Disable if no longer applies
OID User	۲	۲
Exit << Back Continue >>		

Click on Continue.



Create Access Policy	1234	
Step 3: Select Resources		
Specify the resources to be denie * Indicates Required Field Filter By		
Results 1-2 of 2	First   Previous   Next   Last	Selected:
First   Previous   Next   Last	FLEXCUBE_GTC OID User	Add >> << Remove
Exit << Back Con	ntrue >>	v

Click on Create Access Policy.

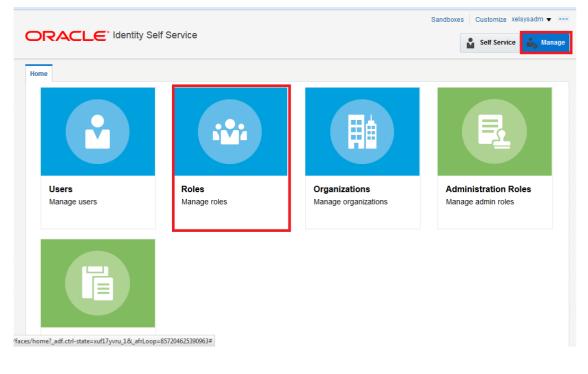
	Access Policy Name	OIDAccessPolicy		
	Access Policy Description	OIDAccessPolicy		
	Policy Owner Type	Role		
	Policy Owner	SYSTEM ADMINISTRATORS	5	
	Retrofit Access Policy	Yes		
	Priority	1		
Deserves to be seeded as	- d baseling and the second sectors			
Resources to be provision	ed by this access policy			Change
				change
Resource Name	Revoke if no longer applies	Disable if no longer applies	Process Forms	
OID User	✓	×	OID User Edit	
				<u>Change</u>
🧃 You have no	t selected any resources to be denied by this access po	Nicy.		
Roles for this access policy	/			
NUES Name				

Login to Identity Self Services



ORACLE <sup>*</sup> Identity Self Service		Accessibility Help About Oracle
Sign In		
aigh in	Sign in with your account	
	User ID	
	xelsysadm	
	Password	
	••••••	
	Sign In	
	Forgot User Login? Forgot Password?	
	New User Registration	
	Track My Registration	
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### Click on Roles under Manage



Select ALL USERS to Edit



Self Service Manage

### Click on Access Policy

Home Roles x ALL USERS x		
ALL USERS Attributes Hierarchy Access Policy Members Organizations	Apply	Revert
Name ALL USERS		
Role Namespace Default		
Display Name ALL USERS		
Role E-mail		
Default role for all users Role Description		
* Owned By System Administrator		

Click on + Add to Add Access Policy

RACLE	Identity Self Se	prvice	Sandboxes   Customize xelsysadm ▼ ••••
me Roles x ALL U	SERS ×		
ALL USERS			Apply Revert
Attributes Hierarchy	Access Policy Men	bers Organizations	
Add access policies to de			
Actions ▼ View ▼	🕂 Add 🗙 Remo	ve 🔊 Undo 🗘 Refresh 🔄 📄 Detach	
Policy Name	Policy Description	Pending Action	
No data to display			

Search for the Access Policy & Select the Access Policy Created



Sandboxes Customize xelsysadm •	
Self Service Self Service	age
Home Roles × A Add Access Policies ×	
ALL USERS Search Policy Name  Policy Name  Search for Policies and Add them to the Selected Items table below  Apply Revert	
Attributes Hierarch Results	
Add access policies View 🔻 🕎	
Actions View Policy Name Policy Description	
OIDAccessPolicy OIDAccessPolicy	
Policy Nar V Add Selected V Add All V Remove Selected Remove All	
No data to display	
Selected Policies	
Copyright © 2001, 2015, On View ▼	
Policy Name Policy Description	
OIDAccessPolicy OIDAccessPolicy	
Select Cancel	

Click on Apply to Save

	Sandboxes Customize Xelsysadm • •••
ome Roles x ALL USERS x	
ALL USERS Attributes Hierarchy Access Policy Members Organizations	Apply Revert
Add access policies to define access rights of this role. Actions ▼ View ▼ + Add X Remove ♪ Undo () Refresh 문 💭 Detach	
Policy Name Policy Description Pending Action	
OIDAccessPolicy OIDAccessPolicy Add	

## Click on Scheduler under System Configuration.

ORACLE Identity System Administration	Accessibility	Sandboxes	Help	Sign Out	xelsysadm	
කි Organization 🔹						
Catalog						
System Configuration Store Organization Policy Service Capabilities						
🔞 Lookups						
Role Categories       Big Scheduler       N Holfication						
Se Configuration Properties						
lmport						
1 Export						
▲ Upgrade						
C Upgrade User Form						
🚯 Upgrade Role Form						
🗟 Upgrade Organization Form						

Click on Search shown below:



ORACLE' Identity System Administration

Event Management Policies System Ma	nagement
Scheduler Notification System Configuration Search Scheduled Jobs Advanced Search	Wekome Welcome to Identity System Administration
Actions + View + 2 2 2 2	Event Hanagement Search Reconciliation Events
	Policies
	System Hanagement
	٩

#### Select Evaluate User Policies.

ORACLE Identity System Adminis	tration Signed in as webysadm Heb S
Event Management Policies System Ma	nagement
Scheduler Notification System Configuration	
Search Scheduled Jobs	Welcome
>	Welcome to Identity System Administration
Advanced Search	welcome to identity System Administration
Actions • View • Job Name Status Application Instanc Stopped *	Event Management           Image: Search Reconciliation Events
Attestation Grace Stopped	
Automated Retry Stopped	Policies
Automatically Unlo Stopped	Search Approval Policies
Bulk Load Archival Stopped	Su Search Approval Policies
Bulk Load Post Pro Stopped	
Catalog Synchroni Stopped	
Certification Event Stopped	System Management
DataCollection Sch Stopped	Search Scheduled Jobs
Delayed Delete User Stopped	
Disable/Delete Use Stopped	Search Notification Templates
Enable User After Stopped	G Search System Properties
Entitlement Assign Stopped	cau search system Properces
Entitlement List Stopped	
Entitlement Post D Stopped	
Evaluate User Polic Stopped	
FLEX_BranchCode Stopped	
FLEX_UsrLang_Sch Stopped	
FLEXCUBE_GTC Stopped	
Form Linorade Job Stopped	
	4
	A

Change the Schedule Type under Job Information, also change Run Every under Job Periodic Setting.

c. Click on Apply.

Job will be scheduled in a periodic manner and it will evaluate the New User Created in Oracle Identity Management Server against the access policies created. If the new user satisfied by the access policy then it will Provision the user to User Account. In this case it's Oracle Internet Directory.



Signed in as xelsysadm 🛛 Help 🝳

DRACLE' Identity System Admini	istration	Signed in as xelsysadm Hel
Event Management Policies System M	lanagement	
Scheduler Notification System Configuration		
Search Scheduled Jobs	Welcome Job Details	
the second se	Job Details : Evaluate User Policies	
Advanced Search	JUD Details - Evaluate user Policies	* Indicates required fields.
Actions + View + 🥒 🔮 💥 📸		Apply Run Now Stop Enable Disable Refresh
Job Name Status		
Application Instanc Stopped	Job Information	
Attestation Grace Stopped	Job Name Evaluate User Policies	Periodic
Automated Retry Stopped	Job Name Evaluate User Policies Task Evaluate User Policies	
Automatically Unio Stopped		Schedule Type Single
Bulk Load Archival Stopped	* Start Date April 21, 2016 3:47:19 AM I 🕅 (UTC+05:30) Calcutta - India Time (IT)	
Bulk Load Post Pro Stopped	*Retries 10	No pre-defined schedule
Catalog Synchroni Stopped		
Certification Event Stopped	Job Periodic Settings	
DataCollection Sch Stopped	Run every 10	
Delayed Delete User Stopped		
Disable/Delete Use Stopped	mins 💌	
Enable User After Stopped		
Entitlement Assign Stopped	Job Status	
Entitlement List Stopped	Current Status Stopped	
Entitlement Post D Stopped	Last Run Start April 21, 2016 11:24:55 AM IST	
Evaluate User Polic Stopped	Last Run End April 21, 2016 11:24:55 AM IST	
FLEX_BranchCode Stopped	Next Scheduled Run April 21, 2016 3:47:19 AM IST	
FLEX_UsrLang_Sch Stopped		
FLEXCUBE_GTC Stopped	Parameters	
Form Ungrade Job Stopped	* Batch Size 500	
Rows Selected 1	* Number of Threads 5	



# 6. Solution / Usage Guidelines

## 6.1 Working with OIM

### 6.1.1 Creating a user in FLEXCUBE through OIM

To create a user in FLEXCUBE through OIM, first a user must be created in OIM itself. After creating a user in OIM, a user can be created in FLEXCUBE by assigning a resource named FLEXCUBE\_GTC.

Open the Oracle Identity Manager Administrative console. (Give the following URL in the browser: http://<hostName>:<oimport>/identity)

Login to Administrative Console

a. Enter OIM administrator username/password and press Login.

	ty Self Service		Accessibility	Help	About Oracle ***
	Sign In	Sign in with your account User ID xelsysadm Password ••••••••••••••••••••••••••••••••••••			
Copyright © 2001, 2015, Oracle and/or its af	filiates. All rights reserved				

Click on Users under Manage.



ORACLE	Identity Self Service		Sandboxes Customize xelsysadm v 🚥
Home			E
<b>Users</b> Manage users	Roles Manage roles	Organizations Manage organizations	Administration Roles Manage admin roles
aces/home? adf.nc-new-window	-redirect=true% adf.ctrl-state=bBxqvige 5% afrl.oo	op=858257121335836&_afrWindowMode=2&_afrWindo	swld=12dzelvp5h#

#### Click on Create.

R	ACLE	* Identity Self S	Service					Self Service	ing N	lanag
me	Users ×									
Us	sers									
05										
arch	Display Name	▼ + Create ✓ Edi	Q Advand t √ Enable (	ced O Disable 🗙 De	elete 🔒 Lock Acc	count 🕤 Unlock	Account 🕘 Reset	Password	>>	>>
arch Actions	Display Name				elete 🔒 Lock Acc	count C Unlock Telephone Number	Account 🕤 Reset	Password Identity Status	» Acco	
arch Actions	Display Name s ▼ View ▼	+ Create	t 🗸 Enable (	🗅 Disable 🗙 De		Telephone				unt S
arch	Display Name s ▼ View ▼ User Login	+ Create / Edi	t 🗸 Enable (	Disable X De	Organization	Telephone		Identity Status	Acco	unt S ked

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The Create User screen will get displayed.

- a. Below are the mandatory fields, which needs to be entered to Create the User in Oracle Identity Manager
  - i. First Name
  - ii. Last Name
  - iii. Organization
  - iv. User Type
  - v. E-mail
  - vi. Display Name
  - vii. User Login
  - viii. Password
  - ix. Confirm Password
  - x. Start Date

Note: Password & Confirm Password are not entered then System will generate some random password & it will mailed to the email addess entered.

b. Click on Submit.

	* Identity Self Service			Sandboxes	Customize xelsysadm v
ome Users x	Create User ×				
Create User				Submit	Save As V Cancel
🕨 Requ	est Information				
Basic Inform	nation				
First Name	Nandhakumar	Manager		0	
Middle Name		* Organization	Requests	0	
* Last Name	Vemban	* User Type	Employee 💌		
E-mail	nandhakumar.vemban@oracle.com	Display Name	Nandhakumar Vemban		
Account Se	tings				
User Lo	gin nvemban-in				
Passw	••••••	0			
* Confirm Passw	ord				
Account Eff	ective Dates				
Start Date 4/25/	2016				
End Date	i o				

On successful creation of user "User successfully got created" message will get appeared.



03	er created success	sfully						Self Service	🎝 Manage
me	Users ×								
U	sers								
		_							
arch	Display Name	•	Q Advan	ced					
ctior	ns 🔻 View 🔻	🕂 Create 🥒 Edi	it 🗸 Enable (	🗢 Disable 🗙 De	elete 🔒 Lock Ace	count 👩 Unloci	Account 🐑 Reset	Password	» »
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account St
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
	4				III				•

Click on Refresh to fetch the updated user list.

SIS	ACLE	* Identity Self S	Service				Sandboxes	Customiz	ze xelsysadm 👻 📼 rvice 🎎 Manage
Home	Users ×								
🔓 Us	sers								
Search	Display Name	•	Q Advanc	ced					
	is ▼ View ▼ User Login	+ Create / Edit	t ✓ Enable (	Disable X De	lete 🔒 Lock Acc	Telephone	Account 🐑 Reset		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
							~		) Defends
	User Login	Display Name	First Name	Last Name	Organization	Telephone	~	ldenti 🤇	Refresh ount St
	User Login OIMINTERNAL	Display Name	First Name OIMINTERNAL WEBLOGIC	Last Name	Organization Xellerate Users	Telephone	~	Identi Active Active	<b>Refresh</b> ount Si Unlocked

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Click on the User created in the step above and Click on Accounts TAB

SIS	ACLE	Identity Self S	Service					Self Service	🍂 Manag
lome	Users x								C
🔓 Us	sers								
Search	Display Name	•	Q Advance	ced					
							-		
Action	ns ▼ View ▼	🕂 Create 🖌 Edit	t 🗸 Enable (	🕽 Disable 🗙 Del	lete 🔒 Lock Acc	count Onlock	Account 🔊 Reset	Password	» »
	ns ▼ View ▼ User Login	+ Create 🖍 Edit	t ✓ Enable ( First Name	Disable X Del Last Name	lete 🔒 Lock Acc	count C Unlock	Account no Reset	Password Identity Status	» » Account S
			First Name			Telephone			
	User Login	Display Name	First Name	Last Name	Organization	Telephone	E-mail	Identity Status	Account S
	User Login NVEMBAN-IN	Display Name Nandhakumar V	First Name	Last Name Vemban	Organization Requests	Telephone	E-mail	Identity Status Active	Account S Unlocked
	User Login NVEMBAN-IN OIMINTERNAL	Display Name Nandhakumar V Internal User	First Name Nandhakumar OIMINTERNAL WEBLOGIC	Last Name Vemban OIMINTERNAL	Organization Requests Xellerate Users	Telephone	E-mail	Identity Status Active Active Active	Account S Unlocked Unlocked

Wait for Time, which has been set to evaluate the user access policy in 5.1.6.2.2.15 and Click on Refresh. In the Accounts TAB, User will be Provisioned with OID User Resource Type.



		Identity Self Se						Self Service	🎝 Manag
me U	sers x User	Details : Nandhakuma	×						
🔓 Na	ndhakuma	ır Vemban							
/ Mo	dify 🗸 E	nable 🕒 Disab	le 🗙 Delete	🔒 Lock Acco	unt 🔐 UnLoc	k Account	Reset Password		
			_						
Attributes	Roles En	itlements Accounts	Direct Reports	Organizations Ad	min Roles				
Actions	▼ View ▼	Request Account	ts 🧪 Modify Gra	ant Duration	Request Entitlemen	t 🗘 Refresh	🔅 Resource Hist	tory 🔄	Detach
1	Application nstance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
1		OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary		4/25/2016	
	DID User								

d/or its af

Click on Request Accounts.

								Self		🍂 Man
lome	Users x User I	Details : Nandhakur	ma ×							1
🔓 N	landhakuma	r Vemban								
				-		-				
/ N	Modify 🗸 🗸 Ei	nable 🛛 🔵 Disa	able 🛛 💥 Delete	🔒 Lock Acco	ount 👩 UnLoc	ck Account 👘 🐑	Reset Password			
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Attribute	-	itlements Accourt	_		dmin Roles	ck Account 🛛 関	Reset Password			
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Attribute	es Roles Ent		nts Direct Reports	Organizations Ad			, ,		D.	Detach
Attribute	es Roles Ent	itlements Accourt	nts Direct Reports	Organizations Ad	dmin Roles Request Entitlemen		5			Detach
Attribute	es Roles Ent ns ▼ View ▼ Application	Hequest Account	nts Direct Reports	Organizations Ad	dmin Roles Request Entitlemen	nt (?) Refresh	🛱 Resource H	istory	Date	

Click on The Add to Cart against FLEXCUBE\_GTC.



ome Users x User Details	: Nandhakuma x Account Acc	cess Request ×				
E	Back Add Access	Checkout	Cancel	Next	Nandhaki	Cart 🛒 umar Vemban 🎦
Search and select individual its Catalog Request Profiles	ems from the Catalog tab. Sets of	pre-bundled items co	ommonly used in you	r organization can b	e selected from the Requ	uest Profiles tab.
Search Keyword Se	arch					
	arch Sort By Display Name 💌			bbA +	Selected to Cart	
Se				- Add		

#### Click on Next Button

ome Users 🗙 User Details :	Nandhakuma × Account Acc	cess Request 🗙			C
В	ack Add Access	Checkout	Cancel Next	Nandhakuma	Cart 🗐
Search and select individual ite Catalog Request Profiles	ms from the Catalog tab. Sets of	pre-bundled items common	ly used in your organization ca	n be selected from the Request	Profiles tab.
Search Keyword Sea	rch				
	rch Sort By Display Name 💌		+ 4	dd Selected to Cart	
Sea			+ 4	dd Selected to Cart	

Following screen will appear like below:

- d. Click on Details form / to edit the user details
- e. Select the Home Branch, User Language, Time Level
- f. Click on Update Button

Note: In case like have a different FLEXCUBE USERID populated then it can be modified (only during Request Account in FLEXCUBE), do not modify any other value, which is pre-populated in this screen.



e Users 🗙 User Det	ails : Nandhakuma 🗙 Accour	t Access Request 🗙				
	Back Add Access	Checkout	Cancel	Next	Nandhakum	nar Vemban 🎦
art Details ▶ Request Info	rmation				Submit	Save As V
Cart Items						
FLEXCUBE	GTC					× 0
A DE FLEXCUBE	GTC					
equest Details FLEX	CUBE_GTC					Update
Details						
container			USERLANGUAGE	ENG	9	
_	)		TIMELEVEL	9	Q,	
objectclas	3		STARTDATE	4/25/2016		
	NVEMBAN-IN		EMAIL	nandhakumar.vemban@oracle.com		
USERI			LDAPUSR	cn=NVEMBAN-IN,cn=Users,dc=ofss,dc=		
USERI	Nandhakumar Vemban					
		0	Service Account			
USERNAM	•••••	<b>0</b>	Service Account			

Click on Submit.

e Users x	User Details	: Nandhakuma 🗙	Account Acc	ess Request 🗙				
		Back Add	Access	Checkout	Cancel	Next	Nandhaku	mar Vemban 🎦
art Details	S quest Inform	ntion					Submit	Save As V
Cart Items		lation						
splav Name								
splay Name	FLEXCUBE G	гс						× O
	,	rc rc						× 0
Solution	FLEXCUBE G	гс						X 0
equest Det	FLEXCUBE_G FLEXCUBE_G	гс						
oquest Det	FLEXCUBE_G FLEXCUBE_G tails FLEXCU	гс			USERLANGUAGE	ENG	٩	
equest Det	FLEXCUBE_G FLEXCUBE_G tails FLEXCU	гс			USERLANGUAGE TIMELEVEL		٩	
equest Det	FLEXCUBE_G FLEXCUBE_G tails FLEXCU etails containerID	гс			TIMELEVEL	9		
equest Det	containerID objectclass	гс			TIMELEVEL	9	٩	
equest Det	etails FLEXCUBE containerID ID objectclass USERID	rc BE_GTC	ban		TIMELEVEL STARTDATE EMAIL	9 4/25/2016	Q e.com	
equest Det	etails containerID iD objectclass USERID	IC BE_GTC NVEMBAN-IN	ban	•	TIMELEVEL STARTDATE EMAIL	9 4/25/2016 nandhakumar.vemban@oracl cn=NVEMBAN-IN,cn=Users.de	Q e.com	

Click on Refresh in Accounts TAB.



אכ	ACLE	Identity Self S	Service				Sandboxes	Self Service	Mana
ome	Users x User	Details : Nandhakum	a ×						6
🔒 N	andhakuma	ar Vemban							
Attribute	lodify √E es Roles En	titlements Account	s Direct Reports	Organizations Ad	min Roles	0	Reset Password		
Action	ns 🔻 View 👻	🕂 Request Accou	nts 🥒 Modify Gra	ant Duration 🕂	Request Entitlem	ent 🔇 Refresh	🔅 Resource H	istory 🔄	🖞 Detach
	Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
		Resource OID User	Account Name	4/25/2016	Status Provisioned	Account Type Primary	Request ID	Start Date 4/25/2016	End Da

It will show the Requested Account and its status.

If the status is provisioned then the User is created in the Target Application.

ne Users x User	r Details : Nandha	kuma ×						ľ
Nandhakum	ar Vemban							
	Enabla	Diaabla 💙 Dalata	C Look Accor	- Union	k Account	Report Depowerd		
Nodify 🗸	Enable 😑	Disable 🗙 Delete	Lock Acco	unt 💣 UnLoci	k Account	Reset Password		
ributes Roles Ei	ntitlements Ac	counts Direct Reports	Organizations Ad	min Roles				
Actions 🔻 View 💌	+ Request A	ccounts 🧪 Modify Gr	ant Duration	Request Entitlement	t () Refresh	🔅 Resource Hist	ory 🔄	Detach
Application	-			<b>a</b>				<b>-</b>
Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
			Provisioned On 4/25/2016	Status Provisioned	Account Type Primary	Request ID	Start Date 4/25/2016	End Da
Instance						Request ID		End Da

## 6.1.2 Modifying a user in FCUBS through OIM

Navigate to the Accounts TAB>>Select FLEXCUBE\_GTC >> Click on Modify Accounts.

- a. After successful provisioning User Details like User Name, User Password, Time Level, User Language and Home Branch can be modified.
- b. Email, LDAP User, Start Date should not be modified.



		Identity Self Se	ervice					s Customize xe	elsysadm 🔻 🛛
		identity ben be						Self Service	🎝 Manag
Home	Users × User De	etails : Nandhakuma.	×						
🔓 N	andhakumar	Vemban							
∕ N	<b>Aodify</b> 🗸 Ena	able 🖨 Disabl	e 🗙 Delete	A Lock Acco	0.1151	ook Account		a	
						.ock Account 🛛 👮	Reset Password	u	
-							Reset Password	u	
Attribute	es Roles Entiti	ements Accounts	7		dmin Roles	LOCK ACCOUNT	Reset Password	u	
Attribute			Direct Reports	Organizations Ac	1.0	X Remove Account	-		» »
Attribute		ements Accounts	Direct Reports	Organizations Ac	dmin Roles y Grant Duration		-		»» » End Da
Attribute	ns View View View	ements Accounts Request Account Resource	Direct Reports	Organizations Ac	dmin Roles y Grant Duration	X Remove Accoun	ts 🖉 Make Pri	imary	
Attribute	ns ▼ View ▼ Application Instance	ements Accounts Request Account Resource	Direct Reports ts Modify Acc Account Name	Organizations Ac counts / Modify Provisioned On	dmin Roles y Grant Duration Status	X Remove Accoun	ts 🖉 Make Pri	imary Start Date	

The following screen is displayed.

- a. Modify the data (Any/All of User Name, User Password, Time Level, Home Branch and User Language).
- b. Click on Update Button.
- c. Click on Submit.

RACLE Id	entity Self Service			Self Service	📩 Manage
		_		-	
ome Users x User Deta	ils : Nandhakuma 🗙 Modify Account	t x			
Iodify Account				Submit S	ave As 🔻
Target Users			Request Information	tion	
Name					
Nandhakumar Vemban	0				
Cart Items					
Display Name					
	BE_GTC TC				X 0
Request Details 24@FL					Update
Edit Account	details				
containerID		HOMEBRANCH	000	Q,	
ID		USERLANGUAGE	ENG	Q	
objectclass		TIMELEVEL	7	Q	
USERID	NVEMBANIN	STARTDATE	4/25/2016		
USERNAME	Nandhakumar Vemban	EMAIL	nandhakumar.vemban@oracle.com		
USERPASSWORD		1 LDAPUSR	cn=NVEMBAN-IN,cn=Users,dc=ofss,dc=		

Navigate to the Accounts >> Select FLEXCUBE\_GTC >> Resource History



me U	Jsers × User Details : No	andhakuma	×						
🔓 Na	andhakumar Vemb	ban							
🧪 Mo	odify 🗸 Enable	Disab	le 🗙 Delete	🔒 Lock Acco	unt 👩 Unl	ock Account	) Reset Pass	word	
ttributes	s Roles Entitlements	Accounts	Direct Reports	Organizations Ad	Imin Roles				
Actions	s 🔻 View 👻 🕂 Requ	est Accoun	ts 🧪 Modify Acc	counts 🖉 Modify	Grant Duration	X Remove Account	s S Mak	e Primary 🔊	»
	Application Instance Resou		Account Name	Provisioned On		Account Type	Request I		End Da
		UBE_GTC	24	4/25/2016	Provisioned	Primary		V Enable	
	OID User OID Us	ser	NVEMBAN-IN	4/25/2016	Provisioned	Primary			
_	•			IT				Disable	- F
FLEXC	UBE_GTC Detail Informa	tion						(2) Refresh	
								🔅 Resource History	
	Name	FLEXCUE	E_GTC					Reset Password	
	Display Name	FLEXCUE	E_GTC						
	Туре	Applicatio	nInstance						
	Category	Applicatio	ninstance						
	Description	FLEXCUE	E_GTC						
	Audit Objective								
	Risk Lovel	Low Risk							

The following screen is displayed.

 Based on the modification done it will show the individual field change status (In case of more than one field like User Name, User Password changes it will show USERNAME Updated, HOMEBRANCH Updated etc.).

The following are the provi	sioning tasks for the reso	ce Provisioning Details urce. You can also enable, d umar Vemban[NVEMBAN-	isable, or revoke this resource from the user.	
Results 1-4 of 4		First   Previous   Next   I	ast	
<u>Task Name</u>	Task Status	Date Assigned	Assigned To	Retry
TIMELEVEL Updated	Completed	April 25, 2016	🖁 System Administrator [XELSYSADM]	
Create User	Completed	April 25, 2016	System Administrator [XELSYSADM]	
System Validation	Completed	April 25, 2016	System Administrator [XELSYSADM]	
First   Previous   Next   L Exit   Add Task	ast			Retry

## 6.1.3 Disable/Remove Accounts in FCUBS through OIM

There is a slight difference between Disable and Remove Accounts option. If the account disabled then the same account can be enabled using the Enable option. If the account is Removed then the account cannot be enabled through OIM. But in FCUBS, both Disable and Remove option will close the existing user record.

Remove Accounts will show the Last Known Status



Accounts>>Select FLEXCUBE\_GTC >>Click on Disable/Remove Accounts

ome Users x User	Details : Nandhakum	a ×						
🔓 Nandhakuma	r Vemban							
🖋 Modify 🛛 🗸 E	nable 🔵 Disal	Delete	Lock Acco	unt 🗳 Uni	ock Account	) Reset Pass	word	
Attributes Roles Ent	itlements Account	s Direct Reports	Organizations Ad	Imin Roles				
Actions - View -	+ Request Accou	nts 🧪 Modify Ac	counts 🧪 Modify	Grant Duration	X Remove Account	ts 🖉 Mak	e Primary	» »
Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request I	+ Request Entitlement	End Da
FLEXCUBE_GT	C FLEXCUBE_GTC	24	4/25/2016	Provisioned	Primary		Enable	
OID User	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary			
•			m				Disable	۴
FLEXCUBE_GTC Det	ail Information						() Refresh	
							Resource History	
	Name FLEXCU	BE GTC						
							Reset Password	
Dist	olay Name FLEXCU	BE_GIC				5		_
	Type Application	onInstance						
	Category Application	oninstance						

Disable Confirmation Screen will get displayed

b. Click on Submit.

	Self Service
lome Users x User Details : Nandhakuma x Disable Accounts x	ũ
Disable Accounts	Submit Save As 🔻
▲ Target Users	Request Information
Name	
Nandhakumar Vemban 🕕	
Cart Items	
Display Name	
24@FLEXCUBE_GTC FLEXCUBE_GTC	× 0

Go to Accounts Tab and Click on Refresh.

a. On successful processing, it will display the FLEXCUBE\_GTC status as Disabled.



		×						
Nandhakuma	r Vemban							
🖋 Modify 🛛 🗸 E	nable 🔵 Disab	le 🗙 Delete	Lock Acco	unt 💣 Unl	ock Account 🔊	Reset Password		
		_						
ributes Roles En	titlements Accounts	Direct Reports	Organizations Ad	min Roles				
Actions 🔻 View 👻	+ Request Account	its 🧪 Modify Acc	counts 🧪 Modify	Grant Duration	🗙 Remove Account	s 🖉 Make Prim	ary	» »
Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
FLEXCUBE_GT	C FLEXCUBE_GTC	24	4/25/2016	Disabled	Primary		4/25/2016	
	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary		4/25/2016	
OID User								۰.
OID User								
٠	ail Information							

## 6.1.4 Enabling a Disabled user in FCUBS through OIM

Accounts>>Select FLEXCUBE\_GTC >>Click on Enable

ome	Users × User De	etails : Nandhakuma	×						
-	landhakumar Modify √Ena tes Roles Entiti			Corganizations Acco	unt 🗗 Unt	.ock Account 🖷	) Reset Pass	word	
		<ul> <li>Request Account</li> </ul>			Grant Duration	🗙 Remove Accoun	ts 🖉 Mak	e Primary	» »
	Application	Resource	Account Name	Provisioned On	Status	Account Type	Request I	+ Request Entitlemen	t End D
	Instance								
	FLEXCUBE_GTC	FLEXCUBE_GTC	24	4/25/2016	Disabled	Primary		✓ Enable	
		FLEXCUBE_GTC OID User	24 NVEMBAN-IN	4/25/2016 4/25/2016	Disabled Provisioned	Primary Primary		✓ Enable	
	FLEXCUBE_GTC	and the second second second			Provisioned	5.500 A 4 5 5 5 10		Enable     Disable	
FLEX	FLEXCUBE_GTC OID User	and the second second second		4/25/2016	Provisioned	5.500 A 4 5 5 5 10			
FLEX	FLEXCUBE_GTC OID User	OID User		4/25/2016	Provisioned	5.500 A 4 5 5 5 10		Disable	

Enable Confirmation Screen will get displayed and Click on Submit

łome Users 🗙 User Details : Nandhakuma	× Enable Accounts ×	ũ
Enable Accounts		Submit Save As
🖌 Target Users		Request Information
Name		
Nandhakumar Vemban	0	
⊿ Cart Items		
Display Name		
24@FLEXCUBE_GTC FLEXCUBE_GTC		× 0

Go to Accounts TAB and Click on Refresh.



a. On successful processing, it will display the FLEXCUBE\_GTC status as Enabled.

ne	Jsers x User Detai	ils : Nandhakuma.	×						
N N	andhakumar V	emban							
/ м	odify 🗸 Enable	e 🔵 Disabl	e 🗙 Delete	🔒 Lock Acco	ount 🔐 Unl	Lock Account	) Reset Password		
/ M	Juliy V Eliable		e 📈 Delete	LOCK ACCO		LOCK ACCOUNT	/ Reset Password		
			<b>7</b>						
tribute	s Roles Entitlem	nents Accounts	Direct Reports	Organizations A	dmin Roles				
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Action			to 💰 Modify Acc	ounto 💰 Modifi	Crant Duration		C Make Dri		
Action		Request Account	ts 🥒 Modify Acc	counts 🥒 Modif	y Grant Duration	X Remove Account	ts 🖉 Make Pri	mary	» »
Actior	s View View +		ts 🖋 Modify Acc	counts 🥒 Modify	-	X Remove Account	ts 🔗 Make Prin Request ID	mary Start Date	» » End Da
Actior	s View View +	Request Account Resource		-	-				
Action	Application Instance	Request Account Resource	Account Name	Provisioned On	Status	Account Type		Start Date	

## 6.1.5 Running Reconciliation in OIM

Copy the reconciliation staging file that is created by function id SMBOIMHF as EOD day activity to the OIM server's staging directory.

Login to OIM Admin Console and Click on Scheduler under System Management.

ORACLE Identity System Administration	Accessibility	Sandboxes	Help	Sign Out	xelsysadm	
💑 Organization 🔹						
🖓 Role						
📖 Catalog						
✓ System Configuration						
The America Antica America America America America Ame						
Self Service Capabilities						
Cookups						
Role Categories						
Boneduler						
& Configuration Properties						
🖕 Import						
😰 Export						
⊿ Upgrade						
C Upgrade User Form						
📸 Upgrade Role Form						
😹 Upgrade Organization Form						
< III +						

Under System Management tab and search for FLEXCUBE\_GTC Scheduled Job by clicking Search Button.



ORACLE. Identity System Adminis	stration Signed in as xelsysedim Heb 📿
Event Management Policies System Ma	anagement
Scheduler Notification System Configuration	
Search Scheduled Jobs	Welcome
Advanced Search	Welcome to Identity System Administration
Actions • View • 🥒 💽 💥 🚮 No search conducted.	Event Management
	Policies Search Approval Policies
	System Management Search Scheduled Jobs Search Notification Templates Search System Properties

- a. If the job is scheduled periodically, based on the frequency and scheduled time, system will automatically process the reconciliation. If it not scheduled, user can manually initiate the reconciliation process by clicking the Run Now button.
- b. After running the process, click Refresh button to view the status of the initiated job. The job history section available in the screen will show whether the job is in progress or it is completed.

Autority System Au			
Event Management Policies Syste	an Hassament		
Scheduler Notification System Configuratio			
Search Scheduled Jobs	Welcome		
(*)	Welcome to Identity System Administration		
Advanced Search			
	Event Management		
Actors • View • / 🕑 💥 🛃	Search Reconciliation Events		
Job Name Status Application Instanc Stopped			
Attestation Grace Stopped	Î la cara de		
Automated Retry Stopped	Policies		
Automatically Unio Stopped Bulk Load Archival Stopped	S Search Approval Policies		
Buk Load Post Pro. Stopped			
Catalog Synchroni Stopped			
Certification Event Stopped	System Management		
DataCollection Sch. Stopped Delayed Delete User Stopped	S Search Scheduled Jobs		
Disable/Delete Use Stopped	Search Notification Templates		
Enable User After Stopped	Search System Properties		
Entitiement Assign. Stopped Entitiement List Stopped	Call shares a system respersive.		
Interent List Stopped			
Evaluate User Polic Stopped			
REX_BranchCodeStopped			
RLEX UsrLang Sch. Stopped RLEXCUBE_GTC Stopped			
Set SOD Check Re Stopped			
Get SOD Check Re Stopped Identity Audit Main Stopped			
Identity Audit Sca. Stopped			
Initiate Attestation Stopped			
Issue Audit Messa Stopped Job History Archival Stopped			
LDAPSync Post En Stopped			
LDAPSync Post En. Stopped			
LDAPSync Post En. Stopped			
LDAPSync Post En Stopped Non Scheduled Bat Stopped			
OID Connector Gr., Stopped			
OID Connector Gr Stopped			
Welcome Job Details			æ
Job Details : FLEXCUBE_GTC			
			* Indicates required fields. Apply Run Now Stop Enable Disable Refresh
			Apply Run Now Stop Enable Disable Refresh
			Run the job now
			Null the job now
Job Information			
	Job Name FLEXCUBE_GTC	Periodic	
	Task FLEXCUBE_GTC	Schedule Type Cron	
	* Start Date January 1, 1970 5:30:00 AF 🖄 (UTC+05:30) Calcutta - India Time (IT)	) Single	
	* Retries 0	No pre-defined schedule	
Job Periodic Settings			
	Run every 1		
	days 💌		
Job Status			
	Current Status Stopped		
	Last Run Start April 25, 2016 5:35:15 PM IST		
	Last Run End April 25, 2016 5:35:16 PM IST		
	Vext Scheduled Run		
Parameters			
	Connector Name FLEXCUBE		
	ITResource FLEXCUBE_GTC		



ORACLE Identity System Adr		Signed in an aninymadm Help
Event Hanagement Policies Syste	em Hanagement	
Scheduler Notification System Configurat	ton	
Search Scheduled Jobs	Wekome Job Details	
	Job Details : FLEXCUBE_GTC	
Advanced Search		* Indicates required fields
Actions - Vew - 🖉 💥 📑		Apply Run Now Stop Enable Disable Refresh
Job Nome Status		
Application Instanc Stopped	* Job Information	
Attestation Grace _ Stopped		
Automated Retry Stopped	Job Name FLEXCUBE_GTC	Periodc
Automatically Unio Stopped	Tesk PLENOUEE_GTC	Schweidule Type 💮 Single
Bulk Load Archival Stopped	* Start Date   January 1, 1970 5:30:00 AV 🚳 (UTC +05:30) Calcutta - India Time (IT)	⊖ Snge
Bulk Load Post Pro Stopped	*Retres 0	tio pre-defined schedule
Catalog Synchrony Stopped		
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Disable/Delete Use Stopped	days 💌	
Enable User After Stopped	and the second se	
Entitlement Assign. Stopped	Job Status	
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Entitlement Post D Stopped	Last Run Start April 25, 2016 5:35:15 PM IST	
Evaluate User Polc Stopped	Last Run End April 25, 2016 5:35:36 PM 157	
FLEX_BranchCodeStopped	Next Scheduled Run	
FLEX_UsrLang_Sch Stopped		
PLEXCUBE_GTC Stopped	Parameters	
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Get SOD Check Re Stopped	TResource PLEXCUBE GTC	
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LDAPSyn: Post En Stopped		

To Check the Status of Reconciliation Process, Click on Event Management Tab and Click the Search button and Click on the Latest Event ID. The screen will show the reconciliation data and the user ID matched for the reconciliation.

IRCONDING Frends       Indext Data Data Data Data Data Data Data Da	Image: State	ation			
Seed  Ver Under Starten Er Starten Sta	Image: Specifie in the specifie	Reconciliation Events	Welcome Job Details Event Details: ID 1		
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REDUIT CC     Notes     Description       Recordination Data     Fedded Records     Fedded Records	REDUCE_CIT:     Reservative:     REDUCE_CIT:       BRUE CIT:     Brit:     According:       Brit:     Brit:     Brit:		Event ID 1	Oate and Time April 25, 2016 5:35:16 PH 1ST	
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In the Event details screen

- a. Check the Status: If it is "Update Succeeded" then it means the reconciliation process was able to find a matching user. It also shows the reconciliation data that has been affected.
- b. If the Liked User is "Not Licked to any user" then it means the reconciliation process was not able to find a matching user.



ORACLE' Identity System Administ	ration				Signed in as xelsysadm	Help (
Event Management Policies System Man	agement					
Reconciliation	agement					
Search Reconciliation Events	Welcome Event Details: ID 1	Job Details	Event Details: ID 21			×
Advanced Search	Reevaluate Event Close Event Ad	Hoc Link Refresh				
	Event					
Actions +         View +         Q         Image: Constraint of the co	Event ID 21 Current Status No L Entity Acco Type Chai	ount ngelog	Job ID Resource Name Profile Name	FLEXCUBE_GTC FLEXCUBE_GTC		
	Key Fields VKU			Internal User		
	Action Date Actio	on Date not specified	Retry Count	5		
	Linked To Linked User Not Linked Account to Account Description	inked to any user	Linked By			
	Notes Notes					
	View +		Natched Users History			
	Attribute Name Attribute Value					
	IT Resource2 4 USERLANGUAGE ENG	IT Resource2 USERLANGUAGE	Lis	ts all event data		
	USERLANGUAGE ENG USERNAME Anand R	USERNAME				
	TIMELEVEL 9	TIMELEVEL				
	HOMEBRANCH FMG	HOMEBRANCH				
		12:0 STARTDATE				
	USERID VKUMAR	USERID				



# 7. Reference

Document Number	Title
1	Oracle Identity Manager Document.
2	SPML specification Document.



# 8. Appendix

## 8.1 Data Source Creation

1. Open the application server console in the browser by typing Console URL of Weblogic application server

http://<hostname>:<port>/console/

- 2. Login to Administrative Console
- 3. Enter Weblogic administrator username/password and press Login.

ORACLE WebLogic Server <sup>®</sup> 11g Administration Console		
		Welcome
	Log in to work with th	ne WebLogic Server domain
	Username:	weblogic
	Password:	
		Login
WebLogic Server Version: 10.3.5.0		
Copyright © 1996/2010, Oracle and/or its affliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affliates. Other names may be trademarks of their respective owners.		



4. Expand Services and click on Data Sources as shown in below screen:

hange Center	Home Log Out Preferences 🔤 Re	cord Help	Q	Welcome, weblogic Connected to: IDMDoma
View changes and restarts	Home >Summary of JDBC Data Sources	5		
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JDBC Data Sources			
Lock & Edit	Configuration Monitoring			
Release Configuration	A JDBC data source is an object bound borrow a database connection from a d		es database connectivity through a pool of JDBC c	connections. Applications can look up a data source on the JNDI tree and then
Oomain Structure	This same a second second second second		and the state of the state	
MDomain	This page summarizes the JDBC data so	iurce objects that have been	created in this domain.	
Environment     Deployments     Services     Himessaging     Data Sources     Emersistent Stores	Customize this table Data Sources (Filtered - More Colu Click the Lock & Editbutton in the Cha		e buttons on this page.	
Foreign JNDI Providers Work Contexts XML Registries	New - Delete			Showing 1 to 10 of 19 Previous   Next
XML Entity Caches	🔲 Name 🏟	Туре	JNDI Name	Targets
jCOM Mail Sessions	EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
-File T3	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
low do I	fcjDevDS	Generic	jdbc/fcjDevDS	Applications
Create JDBC generic data sources	fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
Create JDBC GridLink data sources	fcjdevDS120	Generic	jdbc/fcjdevDS120	Applications
Create JDBC multi data sources	FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications
Delete JDBC data sources	FCUBS120_XA	Generic	jdbc/fcjdevDS120_XA	Applications
Delete JDBC multi data sources	FCUBSScheduler	Generic	jdbc/fcjSchedulerDS	Applications
ystem Status 🖂	jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1
	mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server1
Health of Running Servers Failed (0) Critical (0)	New ~ Delete			Showing 1 to 10 of 19 Previous   Next
Overloaded (0) Warning (0)				
OK (5)				

5. Click on Lock & Edit as shown below.

ange Center	Home Log Out Preferences 🔤 Rei	cord Help	Q	Welcome, weblogic Connected to: IDMDom
w changes and restarts	Home >Summary of JDBC Data Sources	5		
k the Lock & Edit button to modify, add or	Summary of JDBC Data Sources			
ete items in this domain.	Configuration Monitoring			
Lock & Edit				
Release Configuration	A JDBC data source is an object bound borrow a database connection from a d		es database connectivity through a pool of JDBC	connections. Applications can look up a data source on the JNDI tree and then
main Structure	This page summarizes the JDBC data so		mental in this downly	
	This page summarizes the JOBC data so	orce objects that have been	d eated in this domain.	
Environment Deployments				
Services	Customize this table			
Messaging	Data Sources (Filtered - More Colu	mns Frist)		
Data Sources		1.5		
Persistent Stores	Click the Lock & Edit button in the Cha	nge Center to activate all the	e buttons on this page.	
Foreign JNDI Providers Work Contexts	New - Delete			Showing 1 to 10 of 19 Previous   Next
-XML Registries				Showing I to to of 19 Previous   Next
XML Entity Caches	🔲 Name 🖚	Туре	JNDI Name	Targets
jCOM	EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
File T3	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
w do I	E fcjDevDS	Generic	jdbc/fcjDevDS	Applications
Create JDBC generic data sources	fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
Create JDBC GridLink data sources	fcjdevDS120	Generic	jdbc/fcjdevDS120	Applications
Create JDBC multi data sources	FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications
Delete JDBC data sources	FCUBS120_XA	Generic	jdbc/fcjdevDS120_XA	Applications
Delete JDBC multi data sources	FCUBSScheduler	Generic	jdbc/fcjSchedulerDS	Applications
stem Status	jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1
alth of Running Servers	mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server1
	New - Delete			Showing 1 to 10 of 19 Previous   Next
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
OK (5)				



6. Expand New and click on Generic Data Source.

Change Center	Home Log Out Preferences 🔤 Reco	rd Help	Q	Welcome, weblogic Connected to: IDMDom
View changes and restarts	Home >Summary of JDBC Data Sources			
No pending changes exist. Click the Release	Summary of JDBC Data Sources			
Configuration button to allow others to edit the domain.	Configuration Monitoring			
Lock & Edit				
Release Configuration	A JDBC data source is an object bound to borrow a database connection from a dat		es database connectivity through a pool of JDBC c	onnections. Applications can look up a data source on the $\ensuremath{JNDI}$ tree and then
omain Structure	This page summarizes the JDBC data sour	rce objects that have been	created in this domain.	
MDomain				
E-Environment	Customize this table			
Deployments Services	Data Sources (Filtered - More Colum	and Friday		
Messaging	-	ins exist)		
Data Sources Persistent Stores	New - Delete			Showing 1 to 10 of 19 Previous   Next
Foreign JNDI Providers	Generic Data Source	Туре	JNDI Name	Targets
Work Contexts XML Registries	GridLink Data Source	Generic	jdbc/EDNDataSource	soa_server1
XML Entity Caches	Multi Data Source	Generic	jdbc/EDNLocalTxDataSource	soa_server1
jCOM Mail Sessions	fcjDevDS	Generic	jdbc/fcjDevDS	Applications
File T3	▼ fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
low do I	E fcjdevDS 120	Generic	jdbc/fcjdevDS120	Applications
Create JDBC generic data sources	FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications
Create JDBC GridLink data sources	FCUBS120_XA	Generic	jdbc/fcjdevDS120_XA	Applications
Create JDBC multi data sources	FCUBSScheduler	Generic	jdbc/fcjSchedulerDS	Applications
Delete JDBC data sources	jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1
Delete JDBC multi data sources	mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server1
	■ New   Delete			Showing 1 to 10 of 19 Previous   Next
lealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
OK (5)				
WebLogic Server Version: 10.3.5.0				

The following screen will get displayed.

Enter the Data Source Name and JNDI Name as mentioned in the <FCUBS Release Name>\ADAPTERS\OIM\FCUBSLOVAdService\config\lookup\_prop.xml  $\rightarrow$  value of the key FCUBS\_CON\_POOLNAME.

For example value of the key FCUBS\_CON\_POOLNAME is OIM then:

Name	OIM
------	-----

JNDI Name jdbc/OIM

Database Type Oracle



hange Center	🏠 Home Log Out Preferences 🐼 Record Help	Q	Welcome, weblogic Connected to: IDMDomai
View changes and restarts	Home >Summary of JDBC Data Sources		
to pending changes exist. Click the Release Configuration button to allow others to edit the formain. Lock & Edit Release Configuration	Create a New JDBC Data Source           Back         Next         Finish         Cancel           JDBC Data Source Properties         The following properties will be used to identify you	our new JDBC data source.	
omain Structure	* Indicates required fields		
DMDomain ▲ Environment → Deployments → Services ⊕ ⊕ Messaging	What would you like to name your new JDBC data d * Name:	source? OIM	
Data Sources EPersistent StoresForeign JNDJ ProvidersWork ContextsWork Contexts	What JNDI name would you like to assign to your n	new JOBC Data Source?	
low do L			
Create JDBC generic data sources     Create LLR-enabled JDBC data sources	What database type would you like to select? Database Type:	Oracle 💌	
System Status			
lealth of Running Servers	Back Next Finish Cancel		
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (5)			

The following screen will get displayed. Select Database Driver as Oracle's Driver (Thin) for Instance connections: Versions 9.0.1 and later. Click on Next.

ORACLE WebLogic Server® Ad	Iministration Console	Q
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: IDMDomain
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source           Back         Ned         Frink         Cancel           JDBC Data Source Properties         The following properties will be used to identify your new JDBC data source.	
Domain Structure	Database Type: Orade	
B = Environment → Deployments ⇒ D	What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Orade WebL Database Driver:          Oracle's Driver (Thin) for Instance connections; Versions: 9.0.1 and later         Back       Image: Princh         Cancel	ogic Server.
System Status Health of Running Servers		
Failed (0)           Critical (0)           Overloaded (0)           Warring (0)           OK (5)		
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All rig Oracle is a registered trademark of Oracle Corporation a	hts reserved. nd/or its affliates. Other names may be brademarks of their respective owners.	

We get the following screen in which un-check Supports Global Transactions and click on Next.



ORACLE WebLogic Server®	Administration Console	Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: IDMDomain
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel	
Lock & Edit Release Configuration	Transaction Options You have selected non-XA JDBC driver to create database connection in your new data so	rce.
Domain Structure	Does this data source support global transactions? If yes, please choose the transaction pro	tocol for this data source.
← Deployments ⊖Services → Messaging ← Data Sources ← Persistent Stores ←	Select this option if you want to enable non-XA JDBC connections from the data source to po in place of Emulate Two-Phase Commit. Cogging Last Resource	rticipate in global transactions using the Logging Last Resource (LIR) transaction optimization. Recommended
Foreign JNDJ Providers Work Contexts XML Registries XML Entity Caches JCOM Mail Sessions	Select this option if you want to enable non-XA JDBC connections from the data source to en heuristic conditions.	nulate participation in global transactions using JTA. Select this option only if your application can tolerate
How do I	resources can participate in the global transaction.	riticipate in global transactions using the one-phase commit transaction processing. With this option, no other
Create JDBC generic data sources     Create LLR-enabled JDBC data sources	One-Phase Commit     Back Ned Philah Cancel	
System Status		
Health of Running Servers		
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (5)		
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The following screen will get displayed. Enter the Database Name, Host Name, Port, Database User Name, Password and Confirm Password. Click on Next.

ORACLE WebLogic Server®	Administration Console	Q
Change Center	🔒 Home Log Out Preferences 🐼 Record Help	Welcome, weblogic Connected to: IDMDomain
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source           Back         Ned         Finith         Cancel           Connection Properties         Define Connection Properties.	
Domain Structure	What is the name of the database you would like to connect to?	
IDMDomain  Environment Deployments	Database Name:	
⊖-Services ⊕-Messaging Data Sources =Persistent Stores	What is the name or IP address of the database server? Host Name:	
	What is the port on the database server used to connect to the database?	
XML Entity Caches 	Port: 1521 What database account user name do you want to use to create database connections?	
How do I	Database User Name:	
Create JDBC generic data sources     Create LLR-enabled JDBC data sources	What is the database account password to use to create database connections?	
System Status	Password:	
Health of Running Servers	Confirm Password:	
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (5)	Back Ned Finish Cancel	
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The following screen will get displayed. Click on 'Test Configuration'.

It will display "Connection test succeeded" as shown below. If it is not getting displayed then verify the correctness of all data source properties entered. Click on Finish button.



ORACLE WebLogic Server® Administration Console						
Change Center	😭 Home Log Out Preferences 🔤 Record Help		Welcome, weblogic Connected to: IDMDomain			
View changes and restarts	Home >Summary of JDBC Data Sources					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages  Create A levy JDIC Data Source  Create A levy JDIC Data Source					
Lock & Edit Release Configuration	Test Configuration Back Nest Finish Cancel					
Domain Structure	Test Database Connection					
IDMDomain *	Test the database availability and the connection properties you provided.					
-Environment     -Deployments	What is the full package name of JDBC driver dass used to create database connections in the connection pool?					
Services     Deta Sources	(Note that this driver class must be in the classpath of an	y server to which it is deployed.)				
Persistent Stores Foreign JNDI Providers Work Contexts	Driver Class Name:	oracle.jdbc.OracleDriv				
XML Registries	What is the URL of the database to connect to? The format of the URL varies by JDBC driver.					
	URL:	jdbc:oracle:thin:@10.18				
	What database account user name do you want to use to create database connections?					
How do I     Create JDBC generic data sources	Database User Name:	DAY0114				
Create LLR-enabled 3DBC data sources	What is the database account password to use to create database connections?					
System Status	(Note: for secure password management, enter the pass	word in the Password field instead of the Properties field below)				
Health of Running Servers Failed (0)	Password:	•••••				
Critical (0) Overloaded (0)	Confirm Password:					
Warning (0) OK (5)	What are the properties to pass to the JDBC driver when creating database connections?					
	Properties: user=DAY0114					
	daer-prolla					
The set of driver properties whose values are derived at runtime from the named system property.						

The following screen will get displayed. Click on Activate Changes.

	Administration Console			Q		
Change Center	🔒 Home Log Out Preferences 🔤 Record	Help	Q.	Welcome, weblogic Connected to: IDMDomain		
View changes and restarts	Home >Summary of JDBC Data Sources					
Pending changes exist. They must be activated	Summary of JDBC Data Sources					
to take effect.	Configuration Monitoring					
Activate Changes						
Undo All Changes	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then					
Domain Structure	borrow a database connection from a data source.					
IDMDomain *	This page summarizes the JDBC data source objects that have been created in this domain.					
Environment						
-Deployments						
B-Messaging	Data Sources (Filtered - More Column	- Evict)				
Data Sources	Data Sources (Filtered - Piore Columns	s exist)				
Persistent Stores	New ~ Delete			Showing 1 to 10 of 20 Previous   Next		
Foreign JNDI Providers	🗐 Name 🗇	Туре	JNDI Name	Targets		
XML Registries	EDNDataSource	Generic	idbc/EDNDataSource			
XML Entity Caches				soa_server1		
jCOM Mail Sessions	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1		
Fie T3	fcjDevDS	Generic	jdbc/fcjDevDS	Applications		
How do I	fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications		
Create 3DBC generic data sources	fcjdevDS120	Generic	jdbc/fcjdevDS120	Applications		
Create IDBC GridLink data sources	FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications		
Create JDBC multi data sources	FCUBS120_XA	Generic	jdbc/fcjdevDS120_XA	Applications		
Delete JDBC data sources	FCUBSScheduler	Generic	jdbc/fcjSchedulerDS	Applications		
Delete JDBC multi data sources	jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1		
System Status	mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server1		
	New v Delete Showing 1 to 10 of 20 Previous   Next					
Health of Running Servers						
Failed (0)						
Critical (0)						
Overloaded (0)						
Warning (0)						
OK (5)						
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Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

Worldwide Inquiries: Phone: +91 22 6718 3000 Fax: +91 22 6718 3001 https://www.oracle.com/industries/financial-services/index.html

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