Oracle Identity Manager Integration Implementation Guide Oracle Banking Corporate Lending Release 14.5.0.0.0 [May] [2021]



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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.

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.

Oracle Identity a	nd Access Management	Configuration - Step 5 of 8 _ CORACLE: FUSION MIDDLEWARE 118
<u>Welcome</u> <u>Components to Configure</u> <u>Database</u> <u>WebLogic Admin Server</u> OIM Server <u>Configuration Summary</u> Configuration Progress Configuration Complete	OLM Administrator Password: <u>C</u> onfirm Password: OIM HTTP <u>U</u> RL: OIM External <u>F</u> rontEnd URL: KeyStore <u>P</u> assword: <u>Confirm KeyStore Password:</u> Enable OIM for Suite integrat	•••••• •••••• http://ofss220607.in.oracle.com:14000 •••••• •••••
Help	Provide the keystore password. V long. Must begin with an alphabe numeric value. Any of these spec tilde(~), at(@), hyphen(-), plus(+)	<pre>(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 (#) < Back Next > Finish Cancel</pre>

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

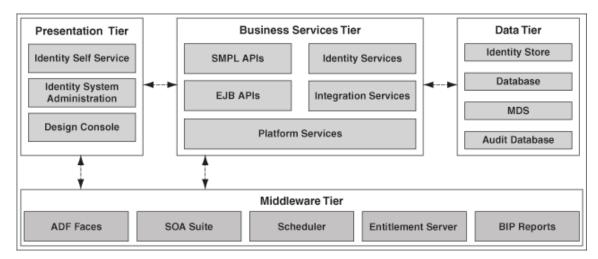
The integration solution strategy of Oracle Identity Manager provides connectors to various heterogeneous identity-aware IT systems. This strategy is designed to minimize custom development, maximize the reuse of code, and reduce deployment time. The tiers of the integration solution are:

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.

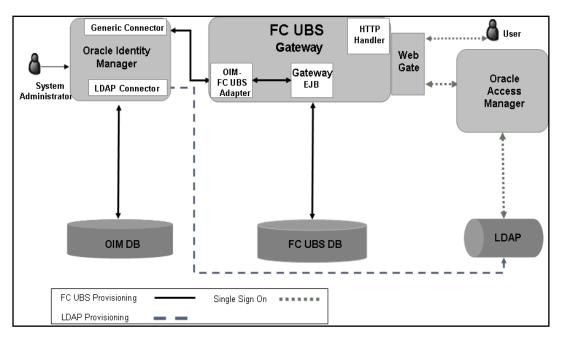
Design

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.

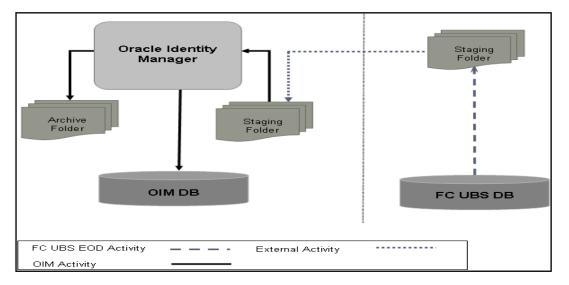
Following two figures illustrate the design aspect of the provisioning and reconciliation process:



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.



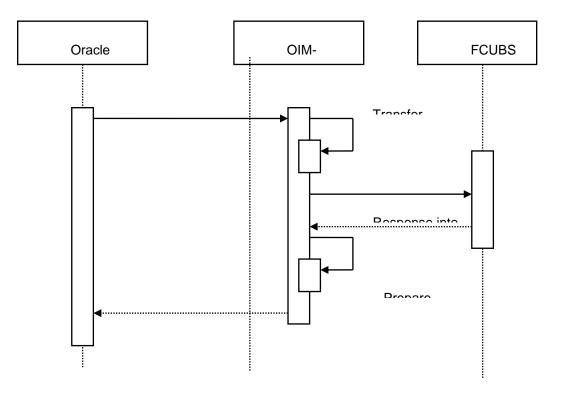
 OIM does not allow ASCII special characters e.g. ampersand, colon, braces etc. Apart from this, OIM also does not allow multiple consecutive occurrences of some of special ASCII character like underscore etc.

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.

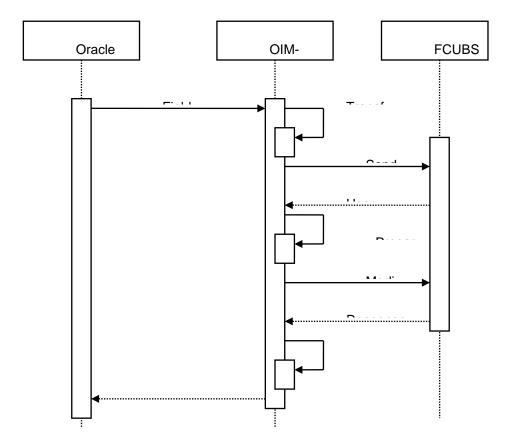
Following gives the sequence of the message exchanges between the adapter and FCUBS Gateway EJB for user provisioning that are initiated from OIM.

4.2.4.1 Message exchange sequence for User Creation



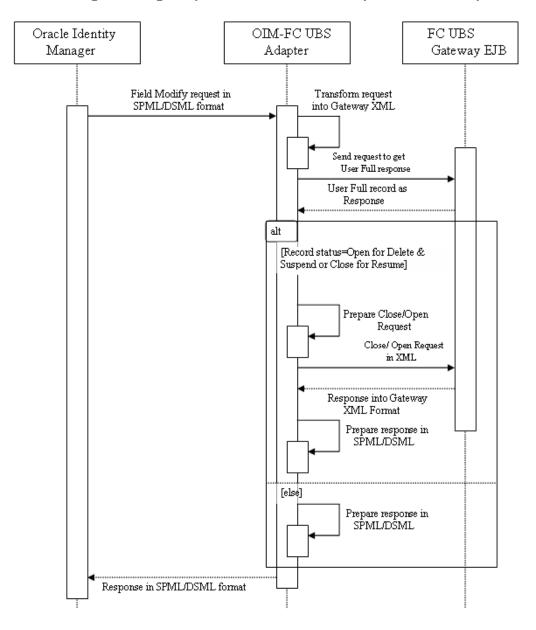


4.2.4.2 Message exchange sequence for User Field Modification/Set Password





4.2.4.3 Message exchange sequence for User Delete/Suspend/Resume Request





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 Co	onsole						Ç				
Change Center	Home Log Ou	ut Preferences 📐 Rec	cord Help	٩			Welcome,	weblogic Connected to: oim_doma				
View changes and restarts	Home >Summar	y of Servers										
Configuration editing is enabled. Future	Summary of Ser	Summary of Servers										
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration	Control										
Domain Structure	1											
oim domain	A server is an ir	nstance of WebLogic Ser	ver that runs in its	own Java Virtual Machin	e (JVM) and has its own confi	guration.						
Diff_domain	This page summ	narizes each server that	has been configure	d in the current WebLog	ic Server domain.							
Servers Clusters			-	-								
Virtual Hosts	C2											
Migratable Targets												
Coherence Servers	Customize t	his table										
Machines	Servers (Filte	ered - More Columns	Exist)									
Work Managers Startup and Shutdown Classes	New Clo	Delete						Showing 1 to 3 of 3 Previous Next				
Deployments												
Security Realms	🔲 Name 4	~		Cluster	Machine	State	Health	Listen Port				
	AdminSer	rver(admin)				RUNNING	✓ OK	7001				
How do I	🔲 oim_serv	ver 1				RUNNING	✓ OK	24000				
Create Managed Servers	soa_serv	/er1				RUNNING	≪ OK	8001				
Clone Servers	New Clo	Delete						Showing 1 to 3 of 3 Previous Next				
Delete Managed Servers												
Delete the Administration Server												
 Start and stop servers 												
System Status	1											
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.



	General	Cluster	Services	Keystores	SSL	Federation Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Conver Start	Web Services			
Domain Structure	General	Cluster	Services	Reystores	SOL	Federadori Services	Deployment	migration	runing	Overload	Health Monitoring	Server Start	Web Services			
lam_domain	Save															
ClustersVirtual HostsMigratable TargetsCoherence ServersCoherence Clusters	Use this page to configure general features of this server such as default network communications. View JNDI Tree 🕼															
Coherence Clusters Machines Work Managers	Name:					AdminSe	rver			An alphanumeric name for this server instance. More Info						
Startup and Shutdown ClassesDeploymentsServices	Machine:					(None)				The WebLogic Server host computer (machine) on which this server is meant to run. More Info						
How do I	Cluster:	Cluster:					(Standalone)				The cluster, or group of WebLogic Server instances, to which this server belongs. More Info					
Configure default network connections Create and configure machines	👸 Listen Address:										The IP address or DNS name this server uses to listen for incoming connections. More Info					
Configure dusters Start and stop servers Configure WLDF diagnostic volume	☑ Listen Port Enabled									Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. More Info						
System Status	Listen Port:				7001	7001				The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. More Info						
Health of Running Servers Failed (0)	SSL Listen Port Enabled								Indicates whether the server can be reached through the default SSL listen port. More Info							
Critical (0) Overloaded (0)	SSL Listen Port:				7002				The TCP/IP port at which this server listens for SSL connection requests. More Info							
Warning (0) OK (3)	🖉 近 Client Cert Proxy Enabled								Specifies whether the HttpClusterServlet proxies the dient certificate in a special header. More Info							
	Java Com	npiler:				javac					compiler to use for a Java code. More I		sted on this serv	er that need		
	Diagnosti	c Volume:				Low	•			WebLogic does not a	the volume of diagno Server at run time. I affect explicitly config ne volume of events	Note that the WL gured diagnostic	DF diagnostic vo modules. For ex	lume setting ample, this		
	— 🖓 Adva	nced —														
	Virtual Ma	achine Nan	ne:			iam_o	iam_domain_AdminSe				When WLS is running on JRVE, this specifies the name of the virtual machine running this server $\mbox{More Info}\ldots$					
	🗹 🖉 We	ebLogic Plu	ıg-In Enat	oled						header, w	whether this server u hich is recommended	l if the server ins				

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

ORACLE WebLogic Server®	Administration C	onsole										õ
Change Center	🔒 Home Log C	ut Preferences	Necord Help		۹.					Welcome, we	eblogic Conne	cted to: iam_domain
View changes and restarts	Home >Summar	of Servers >Ad	minServer									
Configuration editing is enabled. Future	Settings for AdminServer											
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration	Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes										
Domain Structure	General Clus	ter Services	Keystores SSL	Federation Service	s Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	•
iam_domain Environment ClustersVirtual Hosts		ure the secure s		nt of private keys and	trusted certificat	e authorities	(CAs). This	s page lets y	ou view and define va	rious keystore c	onfigurations. Th	hese settings help
Migratable Targets 😑	you to manage	the security of	message transmission	s.								
Coherence Servers Coherence Custers Machines Which configuration rules should be used for finding the server Usation Identity and Demo Trust Which configuration rules should be used for finding the server trust keystores? More Info Sarve Cancel Sarve Cancel Demo Identity and Demo Trust Usation Trust Demo Identity and Demo Trust							finding the serve	er's identity and				
How do I												
Configure identity and trust												
Configure keystores												
Set up SSL												
System Status 🖂												
Health of Running Servers												
Failed (0)												
Critical (0)												
Overloaded (0) Warning (0)												
OK (3)												
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All												
Oracle is a registered trademark of Oracle Corporation	on and/or its affiliates. O	ther names may b	e trademarks of their re	spective owners.								

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.
- 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>.

	dministration Console	Q										
Change Center	🏫 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: iam_domain										
View changes and restarts	Home >Summary of Servers >AdminServer											
Configuration editing is enabled. Future	Settings for AdminServer											
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Protocols Logging Debug Monitoring Control Deployment	s Services Security Notes										
Domain Structure	General Cluster Services Keystores SSL Federation Services Deployme	nt Migration Tuning Overload Health Monitoring Server Start Web Services										
iam_domain Demotronment Servers ClustersWrtual HostsMoratable Tangets ==	Save Keystores ensure the secure storage and management of private keys and trusted certificate authorities (CAs). This page lets you view and define various keystore configurations. These settings help you to manage the security of message transmissions.											
Coherence ClustersCoherence ClustersMachinesWork Managers	Keystores: Custom Identity and Cu	stom Trust Change Which configuration rules should be used for finding the server's identity and trust keystores? More Info										
Startup and Shutdown ClassesDeploymentsService	Identity Custom Identity Keystore: nFlexcubeKeyStore	e jks										
How do I	Custom Identity Keystore Type: jks	The type of the keystore. Generally, this is JKS. More Info										
Configure identity and trust Configure keystores Set up SSL	Custom Identity Keystore Passphrase:	The encrypted custom identity keystore's passphrase. If empty or null, then the keystore will be opened without a passphrase. More Info										
	Confirm Custom Identity Keystore Passphrase:	•••										
System Status 📃	Trust											
Health of Running Servers Failed (0)	Custom Trust Keystore: nFlexcubeKeyStor	siks										
Critical (0) Overloaded (0)	Custom Trust Keystore Type:	The type of the keystore. Generally, this is JKS. More Info										
Warning (0) OK (3)	Custom Trust Keystore Passphrase:	The custom trust keystore's passphrase. If empty or null, then the keystore will be opened without a passphrase. More Info										
	Confirm Custom Trust Keystore Passphrase:	•••										
	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 5.1.1.1.1.
- 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 Preferences 🔤 Record	d Help		Q					Welcome, web	logic Connected to: iam_doma			
View changes and restarts	Home >Summary of Servers >AdminServer												
Configuration editing is enabled. Future	Settings for AdminServer	Settings for AdminServer											
changes will automatically be activated as you nodify, add or delete items in this domain.	Configuration Protocols Logging [Debug Monitoring Control Deployments Services Security M											
omain Structure	General Cluster Services Keystores	SSL Federation	n Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services			
m_domain ▲ ¹ -Environment ¹ -Servers ¹ -Clusters ¹ -Virtual Hosts	Save This page lets you view and define various	s Secure Sockets Laye	r (SSL) sett	tings for this ser	ver instance.	. These sett	ings help yo	u to manage the sec	urity of message	transmissions.			
Migratable Targets Coherence Servers Coherence Clusters Machines	 Identity and Trust Locations: Identity 	Keystores Chang	e		Indicates where SSL should find the server's identity (certificate and private key) as well as the server's trust (trusted CAs). More Info								
Work Managers Startup and Shutdown Classes Deployments Services	Private Key Location:	from Custom Ide	ntity Keysto		The keystore attribute that defines the location of the private key file. More Info								
Security Realms	Private Key Alias:	FlexcubeCert					The keystore attribute that defines the string alias used to store and retrieve the server's private key. More Info						
ow do I Configure identity and trust Set up SSL	👸 Private Key Passphrase:						The keystore attribute that defines the passphrase used to retrieve the server's private key. More Info						
Verify host name verification is enabled Configure a custom host name verifier	街 Confirm Private Key Passphrase:												
Configure two-way SSL	Certificate Location:	from Custom Ide	ntity Keysto	re				store attribute that d e. More Info	efines the location	on of the trusted			
ystem Status 🖂	- Trust												
ealth of Running Servers Failed (0)	Trusted Certificate Authorities:	from Custom Tru	st Keystore					store attribute that d es. More Info	efines the location	on of the certificate			
Critical (0)	- 🗢 Advanced												
Overloaded (0) Warning (0) OK (2)	愛聞 Hostname Verification:	None Custom Host BEA Hostnan					Specifies whether to ignore the installed implementation of the weblogic.security.SSLHostnameVerifier interface (when this server is acting as a client to another application server). More Info						
	Custom Hostname Verifier:	المعنى المعن							The name of the class that implements the weblogic.security.SSLHostnameVerifier interface. More Info				
	Export Key Lifespan:	y Lifespan: 500					Indicates the number of times WebLogic Server can use an expo between a domestic server and an exportable client before gene key. The more secure you want WebLogic Server to be, the fewe key should be used before generating a new key. More Info						
	Use Server Certs						Sets wh	ther the client shoul	d use the server	certificates/key as the client			

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.

ange Center	🔒 Home Log Out Preferences 🔤 Rec	ord Help			Welcome	e, weblogic Connected to: oim_dom					
ew changes and restarts	Home >Summary of Servers										
nfiguration editing is enabled. Future	Summary of Servers										
anges will automatically be activated as you dify, add or delete items in this domain.	Configuration Control										
main Structure	A conver is an instance of Webl onic Con	use that succ is its own Java Vistual M	which (1VM) and has its own confi	avation							
domain	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.										
Environment	This page summarizes each server that h	has been configured in the current We	bLogic Server domain.								
Clusters	5										
Virtual Hosts	(2										
Migratable Targets	Customize this table										
Coherence Clusters											
Machines	Servers (Filtered - More Columns	Exist)									
Work Managers Startup and Shutdown Classes	New Clone Delete	New Cone Delete Showing 1 to 3 of 3 Previo									
Deployments											
Services Security Realms	Name 🐟	Cluster	Machine	State	Health	Listen Port					
	AdminServer(admin)			RUNNING	🖋 ОК	7001					
v do I 🗉	oim_server1			RUNNING	🖋 ОК	24000					
reate Managed Servers	soa server1			RUNNING	🖋 ок	8001					
one Servers	New Clone Delete										
elete Managed Servers	Clone Delete					Showing 1 to 3 of 3 Previous Next					
elete the Administration Server											
tart and stop servers											
tem Status 🖂	3										
th of Running Servers											
Failed (0)	1										
raieu (0)											
Critical (0)											
Critical (0)											
Critical (0) Overloaded (0) Warning (0)											

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 5.1.5.23. 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 <u>5.1.1.1.1</u>

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						
<u>Welcome</u> <u>Components to Configure</u>	O <u>I</u> M Administrator Password:					
Database	<u>C</u> onfirm Password:	•••••				
WebLogic Admin Server OIM Server	OIM HTTP URL:	http://ofss220607.in.oracle.com:14000				
Configuration Summary	OIM External <u>FrontEnd URL</u> :					
Configuration Progress	KeyStore <u>P</u> assword:	•••••				
	Confirm KeyStore Password:	•••••				
	Enable OIM for Suite integrat	on				
	long. Must begin with an alphabe 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 ial 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.

ORACLE Enterprise Manager 11g Fusion Middleware	Control									Setup 🗸 Help	
📲 Farm 👻 🔒 Topology											
Image: Second secon										Logged in as weblogic [Hos	st padsrini-pc
🛛 📑 Farm_base_domain 🛛 💽 Oracle Internet Directory 🕶										Page Refreshed Feb 15, 2013 4:35:	59 PM IST 🗘
Application Deployments Home											
WebLogic Domain	_										
Identity and Access Monitoring	>		Load					Security			
OAM Control	>))	121	Total LDAP Co	onnections			0	Failed Bin	d Operation	15	0
OIM OIM OIM	>	000					_				
ovd1		220	Operations Co	mpleted			2	Failed Su	per User Log	jins	0
Metadata Repositories Port Usage		65	Operations in	progress			0	Sucessful	Super User I	Logins	0
Web Tier	>										
Security	Audit Policy										
Directory Services Manager	> Wallets								•		
		_									
General Information										Server Response (ms)	
40											
20											
8											
6									•		
4										Total Operations	
2											
0											
20											
15										CPU Utilization (%)	
10										/Farm_base_domain/asinst_1/oid1 padsrini-pc	
5											
0									-		
80											
60										Memory Utilization (%) /Farm_base_domain/asinst_1/oid1	
40 20										padsrini-pc	
0											
16:22 16:23 February 15	16:24 16:25 16 2013	3:26 16:	27 16:28	16:29 16:30	16:31	16:32	16:33	16:34 16:35	16:36		
											Table View

Click on Create Self-Signed Wallet.

	nager 11g Fusion Middleware Control	Setup ✔ Help ✔ Log Out							
🕂 Farm 👻 🔒 Topology									
I → Farm_base_domain Application Deployments		Logged in as weblogic Host padsrini-pc Page Refreshed Feb 15, 2013 4139154 PM IST 3 ⁴⁶							
WebLogic Domain Jentity and Access OAM E oid1	Wallets A Wallet is a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. To create a wallet, click Create. To create a wallet with a self-signed certificate, click Create Se Wallet. To manage the contents of a wallet, select a wallet and click Manage.								
OIM	😭 Create 💥 Delete 🏠 Create Self-Signed Wallet 🎂 Import 😭 Export 6d) Manage							
💿 ovd1 🗈 🧰 Metadata Repositories	Name Ak	uto-login							
🗷 🚞 Web Tier									
	Fetching Data								



Enter the Details as below & Click on OK.

	anager 11g Fusion M	iddleware Control	Setup 👻 Help 👻 Log Out						
📑 Farm 👻 🔒 Topology									
∃ -	r oid1 🕡		Logged in as weblogic Host padsrini-pc						
8 📲 Farm_base_domain	💽 Orade Internet Di	rectory 👻	Page Refreshed Feb 15, 2013 4:40:45 PM IST 🖏						
Application Deployments									
🗉 🛅 WebLogic Domain	Wallets > Create Se								
Identity and Access	Create Self-Sig		OK Cancel						
OAM E OIM OV	A self signed wallet is not signed by a well known CA. A self-signed wallet is not recommended in a production environment. The wallet name should be unique for a given component. The wallet type can be auto- or password-protected. Passwords, if specified, have a minimum length of eight characters, and contain alphabetic characters combined with numeric or special characters. Auto-login wallet is an obtinacated form PKCSF12 wallet that provides PKCbased access bervices and applications without requiring a password at runtime. Auto-login wallet don't need a password to modify, or delete the wallet. File system permissio provide the necessary security for Auto-login wallets.								
🗉 🛅 Metadata Repositories	Self-Signed Wallet	Details							
🗉 🛅 Web Tier									
	* Wallet Name	oidselfsigned							
		Auto-login							
	Wallet Password								
	Confirm Password								
	Add Self-Signed Ce								
	Add a self-signed cer	tificate that becomes part of the walle	t.						
	* Common Name	hostname.in.oracle.com							
	Organizational Unit	OFSS							
	Organization	Oracle							
	City	Chennai							
	State	TN							
	Country	India 💌							
	Key Size	2048 💌							

Click on Manage...

	nager 11g Fusion Middleware Control	Setup ✔ Help ✔ Log Out
👫 Farm 👻 🔒 Topology		
	<pre></pre>	Logged in as weblogic Host padsrini-pc Page Refreshed Feb 15, 2013 4:44:27 PM IST (2
	Wallets A Walet is a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. T Walet. To manage the contents of a wallet, select a wallet and click Manage.	o create a wallet, click Create. To create a wallet with a self-signed certificate, click Create Self-Signed
	Create X Delete C Create Self-Signed Wallet M Import Export	
	Name ioidselfsigned	Auto-login

Select the Trusted Certificate & Click on Export.

	anager 11g Fusion Middleware Control				Setu	p 👻 Help 👻 Log Out
Farm - A Topology						
Farm_base_domain Application Deployments	<pre></pre>	Logged in as weblogic Host padsrini-pc Page Refreshed Feb 15, 2013 4:45:58 PM IST び				
 WebLogic Domain □ Identity and Access ○ OAM □ oid1 ○ OIM ○ ovd1 	Walets > Manage Certificates Manage Certificates: oldselfsigned To generate a certificate singing request (CSR), click "Add Certificate Request". After you create a CSR, send it to you certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same wallet from which the same wallet Request Add Certificate Request Import Certificate Request Delete		ty and retur	n 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, 2018
	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, 2018
	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.

ORACLE Enterprise M	anager 11g Fusion Middleware Control		Setu	ip → Help → Log Out
📲 Farm 👻 🔒 Topology				
III ▼ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<pre> oid1 ④ E Orade Internet Directory ▼ </pre>			blogic Host padsrini-pc ; 2013 4:45:58 PM IST €2
 B Application Deployments B Application Deployments B Identity and Access C AM B Identity and Access O AM B Identity and Access O IDM O IDM O VII B Identity and Access O IDM O VII B Identity and Access B Identity and Access 	Wallets > Manage Certificates Manage Certificates: oidselfsign To generate a certificate signing request (certificate or trusted cert, click Import. Yo A Add Certificate Request	Invid Trusted Certificate The Trusted Certificate with Subject Name ON=padsrin-scr, OU=OPSS, 0=Oracle, L=Chernal, ST=TN, C=IN is shown below. You can cut and paste the entre text in the box from BEGIN CERTIFICATE to DIPO CERTIFICATE to The Intended location; or dut "zoport Trusted Certificate" to exprise the certificate to a Bie. You may want to do the if another party	certificate. To import	the CA signed
	Subject Name CN-paddrin-pc, OU=OFSS, O=Ora CN=paddrin-pc, OU=OFSS, O=Or OU=Class 3-Public Primary Certific CN=OFE CyberTrust Global Root, CN=paddrin-pc, OU=OFSS, O=Or OU=Class 2-Public Primary Certific OU=Class 3-Public Primary Certific	wants to trust your certificate directly. 	Start Date February 15, 2013 January 29, 1996 August 13, 1998 February 15, 2013 January 29, 1996 January 29, 1996	Expiration Date February 14, 2018 August 2, 2028 August 14, 2018 February 14, 2018 August 2, 2028 January 8, 2020
	8	NmeqR12VL9Wb00958dmpcnippecu95kMasE8460Q3p50L584Q11k81Kprqt-r40Q0trygluAMin44 xxcdIU02T628phc1860L1Mbc0x263U1L481Kprqt51884FQ2H8584fCx81E884fCx9L4LC98phc184L1284 ELdwARCyVcRqKj5vRa6K1754x/193kD+FKTfK31aRaFyTQ1DAQABNA0C5qG51D50QEBANDA415 Export Trusted Certificate Close		

Click on Server Properties.

	nager 11g Fusion Middleware C	ontrol				Set	up 👻 Help 👻 Log Out			
Farm - 💦 Topology										
∃ •						Logged in as we	ablogic Host padsrini-pc			
🗉 📲 Farm_base_domain	Cracle Internet Directory		Page Refreshed Feb 15, 2013 4:45:58 PM IST 🖏							
E D Application Deployments	Home									
🗉 🛅 WebLogic Domain	nome									
Identity and Access	Monitoring	signed								
OAM	Control		equest". After you create a CSR, send it to y		ty and return the sig	ned certificate. To impor	t the CA signed			
E oid1		You can only import the CA-sign	ed certificate into the same wallet from which	the CSR was generated.						
	Logs	1								
🐼 ovd1		Import 👔 Export	💥 Delete							
🗄 🛅 Metadata Repositories	Port Usage	1	1	Certificate Type	Status Key Siz	e Start Date	Expiration Date			
🖭 🚞 Web Tier	Administration	 Server Properties 		Certificate Request	2048					
	Security	 Shared Properties 		Certificate	Valid 2048	February 15, 2013	February 14, 2018			
	Directory Services Manager	>	.", C=US	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	February 14, 2018			
		Certification Authority, O="VeriSign,		Trusted Certificate	Valid 1024	January 29, 1996	August 2, 2028			
	OU=Class 1 Public Primary	Certification Authority, O="VeriSign,	tification Authority, O="VeriSign, Inc.", C=US Trusted Certificate Valid			January 29, 1996	January 8, 2020			

Click on Change SSL Settings.

ORACLE Enterprise Ma	anager 11g Fusion Middleware Control	Setup → Help → Log Out
Farm 👻 😤 Topology		
□ •	<pre>分 oid1 ₀</pre>	Logged in as weblogic Host padsrini-pc
🗏 📲 Farm_base_domain	🖭 Oracle Internet Directory 🗸	Page Refreshed Feb 15, 2013 4:54:17 PM IST Č2
Application Deployments		
🗉 🚞 WebLogic Domain	Server Properties	Apply Revert
Identity and Access OAM	General Performance SASL Statistics Logging	
OIM		
Ø ovd1	* Maximum number of entries to be returned by a search 10000	
🗉 🚞 Metadata Repositories	* Maximum time allowed for a search to complete (sec) 3600	
🗉 🚞 Web Tier	Preserve Case of Required Attribute Name specified in Search Request	
	Anonymous Bind Disallow except for Read Access on the root DSE	
	* Maximum time allowed in a Transaction (sec) 0	
	* Maximum Number of Operations allowed in a Transaction 0	
	Port Numbers	
	Non-SSL Port 3060	
	SSL Port 3131 Change SSL Settings	

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



	nager 11g Fusion Middleware Control	Setup ✔ Help ✔ Log Out
📑 Farm 👻 🔒 Topology		
□ •	<pre>分 oid1 ₀</pre>	Logged in as weblogic Host padsrini-pc
🗉 📲 Farm_base_domain	😰 Orade Internet Directory 🗸	Page Refreshed Feb 15, 2013 4:55:50 PM IST €2
Application Deployments		
🗄 🚞 WebLogic Domain	(i) Information	
Identity and Access	All changes made in this page require a server restart to take effect.	
OAM E oid1	SSL Configuration (2)	OK Cancel
OIM	Enable SSL	
💿 ovd1	Server Wallet Name oidselfsigned 💌	
🗄 🛅 Metadata Repositories	oldselfsigned of required for no-auth mode but is needed in other modes.	
🗉 🚞 Web Tier	Advanced SSL securgs	
	Server SSL properties	
	SSL Authentication Server Authentication	
	SSL_RSA_WITH_RC4_128_MD5	
	Cipher Suite	
	SSL_RSA_WITH_3DES_EDE_CBC_SHA	
	VSSL_RSA_WITH_DES_CBC_SHA	
	* SSL Protocol Version All	

Click on Apply.

	Inager 11g Fusion Middleware Control	Setup → Help → Log Out
🕂 Farm 👻 🔒 Topology		
∃ ▼	☆ oid1 ₀	Logged in as weblogic Host padsrini-pc
🛿 📑 Farm_base_domain	🗵 Orade Internet Directory 🗸	Page Refreshed Feb 15, 2013 4:56:40 PM IST 🗘
Application Deployments		
WebLogic Domain	(i) Information	×
Identity and Access OAM	SSL configuration updated for /Farm_base_domain/asinst_1/oid1. Restart component for this change to be effective.	
oid1		
OIM OIM		Apply Revert
ovd1	Server Properties	Apply Revert
🗉 🛅 Metadata Repositories	General Performance SASL Statistics Logging	
🗷 🚞 Web Tier	Server Mode Read / Write 💌	
	* Maximum number of entries to be returned by a search 10000	
	* Maximum time allowed for a search to complete (sec) 3600	
	Preserve Case of Required Attribute Name specified in Search Request	
	Anonymous Bind Disallow except for Read Access on the root DSE 💌	
	* Maximum time allowed in a Transaction (sec) 0	
	* Maximum Number of Operations allowed in a Transaction 0	
	Port Numbers	
	Non-SSL Port 3060	
	SSL Port 3131	
	3131 Change Sc. Setungs	

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)

<!-- DataBase Connection -->
<add key="FCUBS_CON_POOLNAME" value="OIMLOVSQA"/>

<!-- DataBase Connection -->

<add key="LOGGER_PATH" value="D:/OIM/FCUBSLOVAdService/config/lookup logger.xml"/>

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.xml**. 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.

ogic Server® 11g dministration Console	Log in to work with th Username:	Welcome ne WebLogic Server domain
dministration Console		ne WebLogic Server domain
	Username:	
		weblogic
	Password:	•••••
		Lo
- Version: 10.3.6.0		

Click on Deployments as shown in below screen.

	Administration Console		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: oim_domain
View changes and restarts	Home >Summary of Deployments		
Configuration editing is enabled. Future changes will automatically be activated as you	Home Page		
modify, add or delete items in this domain.	- Information and Resources		
Domain Structure	Helpful Tools	General Information	
oim_domain	 Configure applications 	 Common Administration Task Descriptions 	
Environment	 Configure GridLink for RAC Data Source 	 Read the documentation 	
Deployments T-Services	 Recent Task Status 	 Ask a question on My Oracle Support 	
Security Realms	 Set your console preferences 	 Orade Guardian Overview 	
-Interoperability	 Oracle Enterprise Manager 		
⊡ -Diagnostics	- Domain Configurations		
	Domain	Services	Interoperability
	Domain	Messaging	WTC Servers
		 JMS Servers 	Jolt Connection Pools
	Environment	 Store-and-Forward Agents 	
	Servers	 JMS Modules 	Diagnostics
How do I	Clusters	 Path Services 	Log Files
Search the configuration	Virtual Hosts	 Bridges 	Diagnostic Modules
Use the Change Center	Migratable Targets	Data Sources	Diagnostic Images
Record WLST Scripts	Coherence Servers	 Persistent Stores 	Request Performance
Change Console preferences	Coherence Clusters	 XML Registries 	Archives
Manage Console extensions	Machines	XML Entity Caches	Context
Monitor servers	Work Managers	 Foreign JNDI Providers 	SNMP
	 Startup And Shutdown Classes 	Work Contexts	
System Status		• jCOM	Charts and Graphs
Health of Running Servers	Your Deployed Resources	Mail Sessions	Monitoring Dashboard
-	Deployments	FileT3	
Failed (0)		ATL •	
Critical (0)	Your Application's Security Settings		
Overloaded (0)	Security Realms		
Warning (0)			
OK (2)			
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. All	dillo anno 1		
	nghts reserved. 1 and/or its affiliates. Other names may be trademarks of their resp	ective owners.	



Click on the Install as shown below.

hange Center	1	D Hom	e Log Out Preferences 🔤 Record Help			Welcome, w	eblogic Connected to: oim_dom		
iew changes and restarts		Home >	Summary of Deployments						
onfiguration editing is enabled. Future nanges will automatically be activated as you	S	ummar	y of Deployments						
odify, add or delete items in this domain.		Contro	Monitoring						
omain Structure									
n_domain HEnvironment		This pa (redep	age displays a list of Java EE applications and stand-alone application modules that have be loyed), or deleted from the domain by first selecting the application name and using the co	een installed to this introls on this page.	domain. Instal	led applications and modules ca	n be started, stopped, updated		
		To inst	all a new application or module for deployment to targets in this domain, click the Install bu	itton.					
-Services -Security Realms									
-Interoperability		Custe	mize this table						
-Diagnostics		Deplo	vments						
		Instal	Uodate Delete Start Y Stop Y			(here)	ing 1 to 10 of 90 Previous Next		
		motor	opene conte cont. cop.			Snow	ing I to IU of 90 Previous Next		
			Name 🗞	State	Health	Туре	Deployment Order		
			Cadf.orade.businesseditor(1.0,11.1.1.2.0)	Active		Library	100		
ow do I 😑			#adf.orade.domain(1.0,11.1.1.2.0)	Active		Library	100		
Install an Enterprise application Configure an Enterprise application			Carl adf.orade.domain.webapp(1.0, 11.1.1.2.0)	Active		Library	100		
Update (redeploy) an Enterprise application				Active	🖋 ОК	Resource Adapter	324		
Start and stop a deployed Enterprise application			🗄 📑 b2bui	Active	🖋 ок	Enterprise Application	313		
Monitor the modules of an Enterprise application			E Composer	Active	🖋 ок	Enterprise Application	315		
Deploy EJB modules Install a Web application			ØDbAdapter	Active	🖋 ОК	Resource Adapter	322		
uetam Statue			€ CoDefaultToDoTaskFlow	Active	🖋 ок	Enterprise Application	314		
ealth of Running Servers			ODMS Application (11.1.1.1.0)	Active	🖋 ок	Web Application	5		
			E Com	Active	🖋 ок	Enterprise Application	400		
Failed (0)									
Failed (0) Critical (0) Overloaded (0)		Install Update Delete Start Stop Showing 1 to 10 of 90 Previous Next							

The following screen is displayed.

a. Click on upload your file(s)

	Administration Console	Q
Change Center	💼 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: oim_domain
View changes and restarts	Home >Summary of Deployments >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 Frish Cancel	
Domain Structure	Locate deployment to install and prepare for deployment	
om domain * Brithmironment * + Deployments * Brithmiron * - Services * - Data Sources * - Porsistent Stores * - Foreign JROI Providers * - VMR Registries * - VMR Registries * - VMR Registries * - VMR Sessions *	Select the file path that represents the application root directory, archive file, exploded archive directory, or application directory or file in the Path field. Note: Only valid file paths are displayed below. If you cannot find your deployment file, upload your file(s) and or Path: //scratch/app/sso1123/w1036/NMiddleware/user_projects/domains Recently Used Paths: (none) Current Location: offis220223.in.orade.com / scratch / app / sso1123 / w1036 / NMiddleware / use file bits bits config exervers	r confirm that your application contains the required deployment descriptors. s/oim_domain
How do I	🕞 soa	
 Start and stop a deployed Enterprise application 	Back Next Finish Cancel	
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 © 1996, 2011, Oracle and/or its affiliates. Al Oracle is a registered trademark of Oracle Corporation	linghts reserved. n and/or fla affiliates. Other names may be trademarks of their respective owners.	

Choose the enterprise archive file from the build path:

<SPMLADAPTER_INSTALL_DIR>\OIM\FCUBSLOVAdService\build\

a. Click on Next



	ministration Console	Q
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	_domain
View changes and restarts	Home >Summary of Deployments >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.	Back Rext. Frinkin Cancel	
Domain Structure	Upload a Deployment to the admin server	
om, domain ▲ ⊕ Environment → Deployments ⊕ Dervices ⊕ Messaging → Data Sources → Persistent Stores → Foreign JNDI Providers → Work Contexts → Work Co	Click the Browse button blow to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server. Deployment Archive: dapters/OIM/FCUBSLOVAdSenice/build/FCUBSLOVAdSenice ear Browse Upload a deployment plan (this step is optional) A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a jar file. See related links for additional information about deployment plan Archive: Archive: Browse	lans.
How do I Start and stop a deployed Enterprise	Back Next Finish Cancel	
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 © 1996, 2011, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	yhts reserved. Afjor å affiliates. Other names may be trademarks of their respective owners.	

Select the enterprises archive file FCUBSLOVAdService.ear

a. Click on Next

	Administration Console		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	<u> </u>	Welcome, weblogic Connected to: oim_domain
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.		ia Sources >Summary of Deployments ed successfully to /scratch/app/sso1123/w11036/tWiddleware/use	r_projects/domains/oim_domain/servers/AdminServer/upload
Houry, sou of vesce terms if uts domain. Domain Structure om domain D-perjoyments D-perjoyme	the application directory or file in the Path field. Note: Only valid file paths are displayed below. If you Path: Recently Used Paths: (none)	t drectory, archive file, exploded archive drectory, or applicatio u cannot find your deployment files, upload your file(s) and/or cor so1123/wl1036/INMiddleware/user_projects/domains/oi	n module descriptor that you want to install. You can also enter the path of nfm that your application contains the required deployment descriptors. m_domain/servers/AdminServer/upload/FCUBSLOVAdService.e projects / domains / oim_domain / servers / AdminServer / upload
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 Falled (0) Critical (0)			
Overloaded (0) Warning (0) Ok (2) Velstogic Server Version: 10.3.5.0 Copyright © 1996, 2011, Oracle and/or its affiliates. All Oracle as a research trademark of Croinde Corporations	rights reserved. and/or its affiliates. Other names may be trademarks of their re	spective owners.	

The following screen is displayed.

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



	[®] Administration Console	Ŏ
Change Center	🔒 Home Log Out Preferences 🗁 Record Help	me, weblogic Connected to: oim_domain
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments	
Configuration editing is enabled. Future changes will automatically be activated as you	Install Application Assistant	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	Choose targeting style	
oim_domain		
Environment	Targets are the servers, dusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.	
Deployments Services	Install this deployment as an application	
Messaging Data Sources		
Persistent Stores	The application and its components will be targeted to the same locations. This is the most common usage.	
Foreign JNDI Providers Work Contexts	Install this deployment as a library	
XML Registries		
····XML Entity Caches	Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their refere	ncing applications.
jCOM Mail Sessions	Back Next Finish Cancel	
-File T3		
How do I 😑		
 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)		
	J	
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. Al Oracle is a registered trademark of Oracle Corporation	All rights reserved. Son and/or its affiliates. Other names may be trademarks of their respective owners.	

The following screen is displayed.

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

Change Center View changes and restarts Configuration editing is enabled. Future dimposed in automatically be activated as you modify, add or delete items in this domain. Domain Structure Om_domain Beak Next Finish Cancel Select deployment targets Select the servers and/or dusters to which you want to deploy this application. (You can reconfigure deployment targets later).
University of center Home > Summary of Deployments > Summary of Deployments View changes and restarts Home > Summary of Deployments > Summary of Deployments Configuration deting is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Home > Summary of Deployments > Summary of Deployments Domain Structure on domain on the control of the co
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure on_domain
changes will automätically be activated as you modify, add or delete items in this domain. Back Next First Cancel Domain Structure om, domain Select deployment targets
om_domain select deployment targets
Environment Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).
Deployments Available targets for FCUBSLOVAdService :
⊖ Services ⊕ Messeging
- "Data Sources Servers
Persistent Stores
Foreign NDI Providers Administerver
XML Registries
··XMLEntity Caches v om_server1
soa_server1
How do I
Start and stop a deployed Enterprise application Back Next Finish Cancel
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
Faled (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)
WebLogic Server Venioni 10.6.0 Copyright © 1956, 011. Oracle and/or to affiliates. Al rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affliates. Other names may be trademarks of their respective owners.



The following screen is displayed.

b. Click on Finish.

	Administration Console	Q					
Change Center	Home Log Out Preferences 🐼 Record Help Welcome, weblogic Connected to: a	oim_domaii					
View changes and restarts	Home >Summary of Deployments >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 Finst Cancel						
Domain Structure	Optional Settings						
oim_domain Environment Deoloyments	You can modify these settings or accept the defaults General General General						
B-Services B-Messaging	What do you want to name this deployment?						
····Persistent Stores ····Foreign JNDI Providers	Name: FCUBSLOVAdSenice						
Work Contexts XML Registries XML Entity Caches	Security What security model do you want to use with this application?						
jCOM Mail Sessions File T3	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 	Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.						
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 source files be made accessible?						
System Status	Ise the defaults defined by the deployment's targets						
Health of Running Servers Failed (0)	Recommended selection.						
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 the deployment accessible from the following location						
	Location: /scratch/app/sso1123/w11036/IVMiddleware/user_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.



	Adm	inistra	ation Console						ç
Change Center	🟦 Home Log Out Preferences 🔛 Record Help					Welcome, weblogic Connected to: oim_dom			
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments >GWEJB >Summary of Deployments >GWEJB >Summary of DBC Data Sources >Summary of Deployments								
Configuration editing is enabled. Future	Ou Summary of Deployments Control Monitoring								
changes will automatically be activated as you modify, add or delete items in this domain.									
Domain Structure									
oim_domain	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.								
Deployments	To install any wapication or module for deployment to targets in this domain, click the Install button.								
Services Hessaging									
Data Sources	Customize this table								
Persistent Stores		Deplo	vments						
Work Contexts		Insta							
XML Registries		IIISId	Opuale Delete Start + Stop +				Showing	11 to 20 of 92 Prev	ious Next
јсом			Name 🗇		State	Health	Type Sort table by Type	Deployment Ord	er
Mail Sessions					Active		Library	100	
How do I			uter emas		Active		Library	100	
Instal an Enterprise application			<pre>mcore</pre>		Active		Library	100	
Configure an Enterprise application Update (redeploy) an Enterprise application									
Start and stop a deployed Enterprise			FCUBSLOVAdService		Active	🖋 ок	Enterprise Application	100	
application			FileAdapter		Active	🖋 ок	Resource Adapter	321	
 Monitor the modules of an Enterprise application 			FMW Welcome Page Application (11.1.1)	0.0.0)	Active	≪ок	Enterprise Application	5	
Deploy EJB modules					Active	✓ ок	Resource Adapter	325	
Install a Web application		_			Active		Resource Adapter	323	
System Status			E GWEJB		Active	🖋 ОК	Enterprise Application	100	
Health of Running Servers			Modules						
Failed (0)			GW_EJB_Bean.jar				EJB Module		
Critical (0)			🖃 EJBs						
Overloaded (0)			GWEJB_GW_EJB_Bean				EJB		
Warning (0)		H	E Web Services			+			
OK (3)		H—	Web Services						
			I INDRE TO DISDLAY			-			

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.

	Administration Console	Q			
Change Center		ected to: oim_domain			
View changes and restarts	Home >Summary of Deployments >Summary of JDBC Data Sources >Summary of Deployments >GWEIB >Summary of Deployments >GWEIB >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				
em_domain Bit_Environment Destoyoments Destoyoments Destogary Destassarge Destassargee Destassa	Vou can modify these settings or accept the defaults General What do you want to name this deployment? Name: FCUBSProvisioningAdService Security What security model do you want to use with this application? DD Only: Use only roles and policies that are defined in the deployment descriptors. 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 	Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.				
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 source files be made accessible?				
System Status	Use the defaults defined by the deployment's targets				
-	Recommended selection.				
Failed (0) Critical (0) Critical (0)	Copy this application onto every target for me				
Overloaded (0) Warning (0)	During deployment, the files will be copied automatically to the managed servers to which the application is targeted.				
OK (3)	I will make the deployment accessible from the following location				
	Location: /scratch/app/sso1123/wl1036/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"</pre>

name="EmailPrepopulateAdapter">

<metadata name="PrePopulationAdapater">

<value>FlexcubeForm::EMAIL</value>

</metadata>

</plugin>

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

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">

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

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/



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

То

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

yright © 2001, 2015, Oracle and/or its affiliates. All rights reserved

Enter OIM administrator username/password and press Sign In.

ORACLE' Identity System Administration			Ac	cessibility	Help	About Oracle	
	Sign In						
		Sign in with your account					
		User ID					
		xelsysadm					
		Password					

		Sign In					
		sign in					



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	1				
Summary 🔻	Current Selections				Objects Removed From Import
Import Files 🔻	Current selections				objects Removed From import
💠 Add	🛃 Select a file fo	r import.		x	
Substitutions V					
💠 Add	Look in:		G 🤌 📂 🛄 🗸		
IT Resources	(Pa)	Name	Date modified	Туре	
💠 Add	S	🖭 Lookup.xml	4/13/2016 3:51 PM	XML Docu	
New Roles	Recent Places				
		< III Fle name: Lookup xml Fles of type: All Files (* 7)	•	Open Cancel	Missing Dependencies To Create

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	Objects Removed From Import
Import Files	•	Current Selections	objects Removed From Import
💠 Add		O Deployment Manager	
Substitutions	•		
💠 Add			
IT Resources	•	File Preview	
💠 Add			
New Roles	•	FlexcubeLookup	
◆ Add		File Name: Lookup.sml Exported By: XELSYSADM Export Dize: August 20, 2914 2:55:44 PM Export Dize: August 20, 2914 2:55:44 PM Export Bitliny Version: 2.02.11 Export Bitliny Version: 2.02.12 Export Bitliny Version: 2.02.12 Cancel «< Back Add File Import	Missing Dependencies To Create

Click on Add File

Deployment Manager - Import

Click Add File to add m	iore files.			
Show Information	Reset	Legend		
Summary All: 3 ÆLookup: 3		•	Current Selections Cookup.FLEX.TimeLevel Cookup.FLEX.BranchCode Cookup.FLEX.UserLanguage Cookup	Objects Removed From Import
Import Files Lookup.xml + Add		•	•	
Substitutions Add		•		
IT Resources Add		•		
New Roles		•		Missing Dependencies To Create
			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

Click Add File to add more files.								
Show Information Reset	Legend							
Summary	•	Current Selection						Objects Removed From Import
Alt 3)NS El EY Timel exel 🎜					Objects Removed From Import
🔎 Lookup: 3		— 🔎 Lookur	🛃 Select a file fo	or import.		×	1	
Import Files	•	🦳 🔎 Lookur	Look in:		G 🤌 📂 🛄 -			
Lookup.xml			(Jac)	Name	Date modified	Туре		
💠 Add			S	SchTask.xml	4/13/2016 3:51 PM	XML Docu		
Substitutions	•		Recent Places					
💠 Add								
IT Resources	•							
💠 Add			Desktop					
New Roles	•							Missing Dependencies To Create
💠 Add			Libraries					
		Add Fie	Computer Computer Network	< III File game: SchTask.xml Files of type: All Files (*.*)	•	<u>Open</u> Cancel		

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	•	rent Selections	
Alt 3		Fint Selections	Objects Removed From Import — Discrete Cubes TimeLevel Discrete Cubes
🔎 Lookup: 3		F Lookup.FLEX.BranchCode 🔊	- Strang SchTask
		🔑 Lookup.FLEX.UserLanguage 🔊	FLEX_UsrLang_SchTask
Import Files	*		
Lookup.xml		O Deployment Manager	ookup.FCUBS.UserLanguage 🔊
💠 Add			FLEX_BranchCode_SchTask
Substitutions	•		E FLEX_BranchCode_SchTask
💠 Add		File Preview	- · ·
IT Resources	•		
+ Add		FlexcubeScheduledTasks	
New Roles	•	File Name: SchTask.xml	Dependencies To Create
Add		Exported By: XELSYSADM	Dependencies To Create
		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.

Deployment Manager - Import				
Click Add File to add more files.				
Show Information Reset Legen				
Summary V All 7 Image: Second state sta	Current Educations Current Educations Current Education Current Edu	Objects Bennoved Franchouser - Al Lookup-FC005.drenthCode -		
Substitutions 🔻				
- Add		Missing Dependencies To Create		
IT Resources 🗸 🔻				
Add New Roles				
🔶 Add				
	Adu File Interor			

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 At 7 At 7 Concerning Selections At 7 Concerning Selections Concerning Selections Concerning Selections Max 1 Concerning Selections Max 1 Concerning Selections Add. Resources Add. Resources Add. Rev Roles Add. Rev Roles

Deployment Manager - Import



On successful import following screen will come.

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

	Depl	oyment Manager - Import	
Click Add File to add more files.			
Show Information Reset Leger	d		
Summary ▼ Alt 7 Job: 2 Job: 2 Job: 2 Job: 2 Job: 2 Lookup: 3 Status: 2 Import Files ▼ Soft fask.cml Lookup: 3 Lookup: 3 Substitutions * Add IT Resources ▼ * Add New Roles * Add	Current Selections Curren	Import successful pted attributes for a clustered configuration, then restart all nodes of the cluster.	Objects Removed From Import
	Add File Import		

The following screen will get displayed.

a. Click on Add File.

Deployment Manager - Import

lick Add File to add more files	s.		
Show Information Rese	t Legend		
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	
		Available inport	



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 Mana	ager - 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	Select a file fo	r import.)	
Substitutions 🔻				
Add	Look in:		G 🟚 🛤 🖽 👘	
IT Resources 🔻	æ	Name	Date modified Type	
+ Add	S.	(In the second s	4/13/2016 3:51 PM XML Doct	
New Roles 🔻	Recent Places			
🜩 Add				
	Desktop			
				Missing Dependencies To Create
	Libraries			
	Computer			
		1		
	Network			
		File name: GTC xml	Open	
		Files of type: All Files (*.*)	Cancel	
	Add File Import			

We will get File preview screen

d. Click on Add file.

Add File Import

Show Information Reset Summary	Legend		
Import Files	*	Current Selections	Objects Removed From Import
+ Add		Deployment Manager	
Substitutions			
💠 Add			
IT Resources	•	File Proview	
💠 Add			
New Roles	•	Flexcube	
Add		File Name: GTC:xml Export of Py: SLEY:SAGM Export Date: August 20, 2014 6:35:17 PM Export Utity: Version: 2.0.21 Exported From: jdbc:corelecthinog/orse220246:1521/0racle11gSS0	Missing Dependencies To Create



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.

			De	eployment Manage	er - Import		
lick Add File to add more files.							
Show Information Reset	Legend						
Summary	•	Current Selections					Objects Removed From Impo
Import Files	•	Current Belections					objects kennoved i rom impo
💠 Add			Deployment Manager - Impo	rt		×	
Substitutions	•						
💠 Add							
IT Resources			Substitutions				
💠 Add			Provide the substitution	s for the users/groups (Optional).			
New Roles							
💠 Add			Туре	Current Name	New Name		
			Role	SYSTEM ADMINISTRATORS			
			User	XELSYSADM			
			UD_FLEXCUBE Version		JC2		Missing Dependencies To Cr
			Role	SELF OPERATORS			into any population to or
			Role	ALL USERS			
			Cancel Substitution		Next]	
		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.

Click Add File to add m	ore files.							
Show Information	Reset	Legend						
Summary		•	Current Selections					Objects Removed From Import
Import Files		•	Current Selections					Objects Removed From import
🜩 Add				Confirmation			×	
Substitutions		•		_				
🜩 Add							_	
IT Resources		•		Confirmation				
🜩 Add				Are you sure you war	nt to make the following substitutions?			
New Roles		•						
🜩 Add				Туре	Current Name	New Name		
				UD_FLEXCUBE Version	4	JC2		
								Missing Dependencies To Create
							_	
				Cancel Substitu	< I	Back Next		
			Add File	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>/FCUBSProvisioningAdServi 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_uniqueAttrParent USERID	^
	SPML_userName	1
	SPML_targetID FLEXCUBE	1
	WebServices_webServiceURL https://ofss220607.in.orad	
	SPML_userPassword]=
	SharedDrive_stageDirParent /scratch/work_area/DBG/	3
	SharedDrive_stageDirMultval	
	SharedDrive_fixedWidth]-
	SharedDrive_archiveDir /scratch/work_area/DBG/	3
	Timestamp	1

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/C
	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 fi	iles.					
Show Information Re:	iset Leg	nd				
Summary		Current Selections				Objects Removed From Import
Import Files		- Current Selections				objects kemoved from import
🜩 Add			Deployment Manager		×	
Substitutions			Provide IT Resource Instance Data			
🜩 Add			Provide IT Resource instance Data.			
IT Resources			FLEXCUBE_GTC	Provide the name of the IT resource inst	tance to be created.	
💠 Add			FLEXCUBE_GTC 🔊	Instance Name:		
New Roles			<< New Instance>>			
💠 Add				Parameter Name	Parameter Value	
				SharedDrive_uniqueAttrParent	<u>^</u>	
				SPML_userName		
				SPML_targetID	=	Missing Dependencies To Create
				WebServices_webServiceURL		
				SPML_userPassword		
				SharedDrive_stageDirParent		
				SharedDrive_stageDirMultval		
				SharedDrive_fixedWidth	×	
			Cancel IT Resource Modification	<< Back Skip	Next	
		Add File	Import			

Deployment Manager - Import

A confirmation window for parameter values will get displayed.

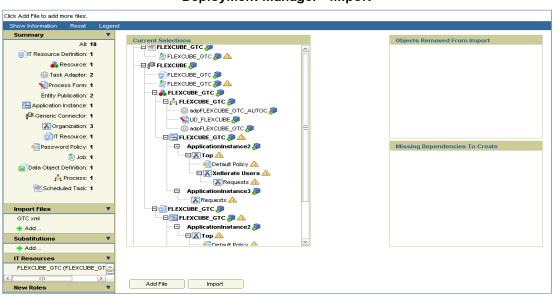
m. Confirm the values and click on View Selections.

Deployment Manager - Import							
Click Add File to add more files. Show Information Reset Legend Summary ¥ Import Files ¥ Substitutions ¥ Add If Resources If Resources ¥ Add ¥ New Roles ¥ Add ¥	Current Selections	Objects Removed From Import Missing Dependencies To Create					
	Cancel IT Resource Modification Cancel IT Resource Modification Cancel IT Resource Modificati						

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.





Deployment Manager - Import



Above will prompt for Import Confirmation

p. Click on Import to start import.

Deployment Manager - 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.

Deployment Manager - Import

Click Add File to add more files.		
Show Information Reset Legend		
Summary 🔻	Current Selections	Objects Removed From Import
All: 18		Objects Removed From Import
T Resource Definition: 1	👋 adpFLEXCUBE_GTC_AUTOC 🔊	
🙈 Resource: 1		
Task Adapter: 2	🛞 adpFLEXCLBE_GTC 🔊	
Process Form: 1		
Entity Publication: 2	ApplicationInstance2	
Application Instance: 1		
Generic Connector: 1	Success	
Contactor: 1		
T Resource: 1	Import successful	
Ressword Policy: 1	If you are importing forms with encrypted attributes for a clustered configuration, then restart all nodes of the cluster.	sing Dependencies To Create
🧂 Job: 1	ОК	
Data Object Definition: 1	OK	
🖧 Process: 1	🗠 Appricationinistancez 🐉	
Scheduled Task: 1		
	Contract Policy	
Import Files 🔻	EX Xellerate Users 🛦	
GTC.xml	ApplicationInstance3	
💠 Add		
Substitutions 🔹	a com.thortech.xl.dataobj.tcUD_FLEXCUBE	
(UD_FLEXCUBE Version) 2: JC2		
💠 Add		
IT Resources 🔻		
FLEXCUBE_GTC (FLEXCUBE_GT	Add File Import	



Click on Sandboxes.

ORACLE Identity System Administration	Accessibility Sandboxes Help Sign Out xelsysadm
Connector	
R Application Instances	
a Manage Connector	
▲ System Entities	
🗞 User	
S Organization	
🖓 Role	
Catalog	
System Configuration	
Self Service Capabilities	
n Lookups	
Role Categories	
G Scheduler	
A Notification	
& Configuration Properties	
A most -	
ss220607:14000/sysadmin/faces/home?_adf.ctrl-state=w1gh33fda_6&_afrLoop=621057740745765#	About

Click on Create Sandbox.

ORACLE Identity Syste	em Administration	Accessibility Sandbox	es Help Sign	Dut xelsysadm
Policies Approval Policies	🕼 Manage Sandhores 🗙			
Access Policies	Available Sandboxes Published Bandboxes			
A Provisioning Configur	Sandboxes allow you to isolate and experiment with customizations without affecting other users environments. To customize create andiar advate a sandbox. After customizations are complete you can publish the sandbox to make the customizations available to other users.			
S Reconciliation	View 🔹 🕜 Create Sandbox 💥 Delete Sandbox 🖓 Refresh 🚳 Refresh 🚳 Activate Sandbox 🐵 Deactivate Sandbox 🔅 Publish Sandbox 😤 Publish Sandbox			🛒 Detach
E Form Designer	Sandbox Description	Active	Last Modified On	Last Modified By
@ IT Resource	No data to display.			-,
P Generic Connector				
Application Instances				
Manage Connector				
✓ System Entities				
💩 User 🛛 🗉				
S Organization				
🐯 Role				
Catalog				
System Configuration Home Organization Policy				
Self Service Capabilities				
A Lookups				
Role Categories				

Enter the Below Details and Click on Save and Close.

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

ORACLE Identity Syst	em Administration	Accessibility Sandboxes Help Sign Out zelsysadm
Approval Policies	B Manage Santhouse x	a
Access Policies	Available Sandboxes Published Sandboxes	
A Provisioning Configur	Soudoxes allow you to isolate and experiment with customizations without affecting other users environments. To customic create and/or activate a sandbus are completely with our can publish the sandbus to make the customizations available to other users.	
S Reconciliation	View 🔹 🕐 Create Sandbox 😤 Deletie Sandbox 🖉 Refresh 🔍 Activate Sandbox 🕥 Deactivate Sandbox 🔅 Publish Sandbox 😤 Export Sandbox 🎃 Import Sandbox	📰 Detach
Form Designer	Sandhox Description	Active Last Modified Last Modified On By
IT Resource	No data to display	UN By
P Generic Connector		
Application Instances		
Manage Connector	Create Sandbox X	
A System Entities	Create Sandbox ×	
a User II	* Sandbox Name Plaktude Sandbox	
Corganization	FlextubeSandboi	
🚳 Role	Sandbox Description	
Catalog		
A System Configuration	Activate Sandbox 🗵	
Home Organization Policy	Save and Close Cancel	
Self Service Capabilities		
🚓 Lookups		
Role Categories		



Click on Ok.

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P Generic Connector → Application Instances → Manage Connector	*	Available	Sandboxes × Sandboxes Published S boxes allow you to isolate stomize create and/or act		stomizations with	out affecting other users er	nvironments. he sandbox to make the cus	tomizations av	ailable to oth	er users.		
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de Lookups												
Role Categories												
Scheduler												
& Configuration Properties												
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Click on Form Designer under Provisioning Configuration.

	tem Admin	istration			,	Accessibility Sandboxes (FlexcubeS	andboxFlexcube	Sa) Help S	Sign Ou	ıt xelsysa	dm
Approval Policies	Manage	Sandboxes x										
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S Reconciliation	View 🔻	Create Sandbox	💥 Delete Sandbox	🝓 Refresh	Activate Sandbox	Deactivate Sandbox	🗳 Put	olish Sandbox	ि Export Sa	Indbox	»	»
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IT Resource Generic Connector	► Fle	xcubeSandboxFlexcu	FlexcubeSandbox					۲	Apr 18, 2016		mdsInternal	
Application Instances	n											
Manage Connector System Entities User Cognization Role Catalog												

Click on Create

ORACLE Identity Sys	tem Administration	Accessibility Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign Out xelsysadm
Policies Approval Policies	Manage Sandboxes x Form Designer x	
Access Policies	Search Forms	Saved Search Implicit Search
Provisioning Configur Reconciliation	A Search Resource Type Q	aurea seuren impira ocaren
Form Designer		Search Reset Save.
IT Resource Generic Connector	Actions View View Create	∭ Detact
Application Instances	Row Form Name No data to display.	Type Resource Type
Manage Connector A System Entities		
👌 User		
😹 Organization		
📖 Catalog		
System Configuration		



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 System	m Administration		Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa)	Help Sign Out xelsysadm
Approval Policies Access Policies Provisioning Configur Provisioning Configur Provisioning Configur Form Designer Provision Designer Acceler Connector Application Instances	Manage Sandbores × Form Designer × New form for FLEXCUBE_GTC Resource Type FLEXCUBE_GTC * Form Name FlexcubeForm Available form fields	Create Form x			Create
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Successful form creation will be like below:

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Policies	🔒 Manage Sandboxes 🗴		ated successfully						ò
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Provisioning Configur Reconciliation	Resource Type	Q							
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Application Instances	Row Form Name				Туре	Re	source Ty	pe	
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System Entities									
🇞 User									
😹 Organization									
🖓 Role									
🕮 Catalog									
System Configuration									
😹 Home Organization Policy 🖕									
۰ III +									

Click on Application Instances under Provisioning Configuration.



	em Administration	Accessibility Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign Out xelsysadm
Policies Approval Policies Approval Policies Access Policies Provisioning Configur Reconciliation Form Designer	Manage Sandboxes x Form Designer x Search Forms Search Resource Type Q	Saved Search Implicit Search v Search Reset Save
IT Resource If Resource	Search Results Actions View Create Open Row Form Name	
Application Instances Manage Connector System Entities User	No data to display.	ijje Kesuite ijje
😹 Organization 🍪 Role 踊 Catalog		
System Configuration		

Click on Search.

	em Administration		Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign Out xelsysadm
Policies Approval Policies	Manage Sandboxes × Form Des			
Access Policies	✓ Search			Saved Search Search Application Instances -
Provisioning Configur Reconciliation E	Match 🖲 All 🔘 Any			
Form Designer T Resource	Resource Object Starts v Display Name Starts v			
P Generic Connector	IT Resource Instance Starts v			=
🔁 Application Instances				Search Reset Save Add Fields v Reorder
System Entities	Search Results			
& User ऒ Organization	Actions View View Create	🖉 Open 💥 Delete 🔞 Refresh	E Detach	
👪 Role	Row# Display Name	Description	Resource Object	IT Resource Instance
▲ System Configuration	no usta to uspiay			
Home Organization Policy				
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Click on FLEXCUBE_GTC.

	em Administration				Accessibility	Sandboxes (F	lexcubeSand	dboxFlexcul	beSa) H	elp Sign Out	xelsysadm	n
Policies Approval Policies			Application Instances ×									
Access Policies	Search Applica	tion Instances										Â
Provisioning Configur Reconciliation	▲ Search Match All An	,						Saved Sea	Irch Sean	ch Application Ins	stances 💌	
E Form Designer	Resource	bject Starts with	•									
IT Resource	Display	Name Starts with	•									
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🔁 Application Instances		olario war						n (
Manage Connector							Search	Reset	Save	Add Fields 🔻	Reorder	
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😹 Organization	1											
👪 Role	Row# Display Nan	le	Description	Resou	ce Object	IT Reso	ource Insta	nce				<u>_</u>
🕮 Catalog	1 FLEXCUBE_0		FLEXCUBE_GTC	FLEXC	JBE_GTC	FLEXCU	JBE_GTC					
System Configuration												Ŧ
ofee730607.1.1000/cscadmin/faces/bome?	ofd con=600100700504000	Riff-manage candhover	Ri add etal etate-uil eb226da 926	7								

Choose the Form as FlexcubeForm and Click on Apply.



ORACLE' Identity System Adm	inistration			Accessibility	Sandboxes (FlexcubeSandboxFlexcubeSa)	Help	Sign Out	xelsysadm	
Approval Deligion	cation Instance: tes Organizations E	FLEXCUBE_GTC	Instances x FLEXCUBE_GTC x			*Required I	ield Appl	y Revert	
If Resource Generic Connector Application Instances Manage Connector System Entitles	* Display Name	FLEXCUBE_GTC						•	
Cuser	Resource Object	FLEXCUBE_GTC						н	
🍪 Role	IT Resource Instance								
System Configuration	Form Il rights reserved	FlexcubeForm	Edit 🔞 Refresh					About	t

On Successful modification will be shown like below:

DRACLE Identity System Administration	Accessibility Sandboxes (FlexcubeSandboxFlexcubeSa) Help Sign Out xel	sysadm
A Policies Manage Sandboxes × Fo Approval Policies Application Instance	m Designer x Application Instances x FLEXCUBE_GTC x	ĺ
Access Policies		
Provisioning Configur Reconciliation E	Required Field Apply	Revert
tes II Resource	FLEXCUBE_GTC	^
P Generic Connector C Application Instances Description C Manage Connector	FLEXCUBE_GTC	
▲ System Entities	FLEXCUBE_GTC Q	E
Role IT Resource Instance Catalog IT Resource Instance	FLEXCUBE_GTC Q	
System Configuration Form Home Organization Policy	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.

ORACLE Identity Sys	stem Ad	dmini	istration			Accessibility	Sandboxes	Help	Sign Out 31	lsysadm	
Approval Policies	Ap	station instances x TLXXCWE_GTC x pplication Instance: FLEXCUBE_GTC								e	8
A Provisioning Configur	-	noures	Organizations	Entrantis					Apply	Revert	
Form Designer IT Resource					e is available to are shown below.						
P Generic Connector		1									
Application Instances	R	low#	Organization Name	Туре	Hierarchy aware						
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Juser		2	Requests	System	2 include sub-orgs						
S Organization											
🚳 Role											
Catalog											
✓ System Configuration											

Select and click on Publish Sandbox.



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Approval Policies										
Access Policies	Availabl	e Sandboxes Published S	andboxes							
Provisioning Configur	Sar To r	idboxes allow you to isolate customize create and/or acti	and experiment with cu ivate a sandbox. After cu	stomizations with stomizations are	out affecting other users e complete you can publish	nvironments. the sandbox to mak	e the customizatio	ons available to oth	er users.	
Seconciliation	View 🔻	Create Sandbox	💥 Delete Sandbox	🝓 Refresh	Activate Sandbox	Deactivate Sa	indbox 📑 Pi	ublish Sandbox	🟦 Export Sandbox	c » »
🔳 Form Designer	5	andbox	Description					Active	Last Modified On	Last Modified By
IT Resource	→ F	lexcubeSandboxFlexcu	FlexcubeSandbox					0	Apr 18, 2016	mdsInternal
Ceneric Connector										
🔁 Application Instances										
Manage Connector										
System Entities										
🚵 User										
a Organization										
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System Configuration										
😹 Home Organization Policy 🖕										
< +										
ss220607:14000/sysadmin/faces/home?_a	frLoop=623	198702534222&tf=manage_	sandboxes&_adf.ctrl-stat	e=w1gh33fda_82#						About

	m Admi	nistration				,	Accessibility	Sandboxes (Flex	cubeSandbox	Flexcubes	Sa) Help Sign C	ut xelsysadi	lm 🚥
Policies Approval Policies Access Policies	Available	ge Sandboxes Sandboxes dboxes allowy	Published S		tomizations with	out affecting other users e complete you can publish	nvironments.						
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Form Designer	s	andbox		Description	-		-		A	ctive	Last Modified	Last Modifie By	ed
IT Resource Generic Connector	► F	lexcubeSand	Publish Sa	andbox					×	۲	Apr 18, 2016	mdsinternal	
Application Instances			You have re	equested to publish sand	lbox FlexcubeSa	ndboxFlexcubeSa and me	rge its contents	into the main line	e.				
Manage Connector			Do you war	nt to continue?				_					
System Entities								<u>Y</u> es <u>N</u> e	D				
S Organization													
👸 Role													
📖 Catalog													
System Configuration Home Organization Policy													
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Click on Scheduler under System Configuration.

DRACLE Identity System Administration	Accessibility	Sandboxes	Help	Sign Out	xelsysadm	
Sorganization						
👪 Role						
Catalog						
System Configuration						
The Arganization Policy						
👼 Self Service Capabilities						
🍓 Lookups						
Role Categories						
E Scheduler						
A Notification						
Seconfiguration Properties						
🖄 Import						
🏦 Export						
⊿ Upgrade						
Dpgrade User Form						
🐉 Upgrade Role Form						
👼 Upgrade Organization Form						

Click on 主 to Search for Scheduled Job List.



ORACLE Identity System Administration

			_
Signed in a	ıs xelsysadm	Help	\mathbf{O}

Event Management Policies System Management
Scheduler Notification System Configuration
Search Scheduled Jobs Welcome
Advanced Search Welcome to Identity System Administration
Actors - Vew
Policies Search Approval Policies
System Management System Management Secret Scheduled Jobs Secret Notification Templates
Search System Properties



Click on Entitlement List

RACLE Identity System Administ	stration	Signed in as xelsysadm Help
Event Management Policies System Mar	anagement	
Scheduler Notification System Configuration		
Search Scheduled Jobs	Welcome	
Advanced Search	Welcome to Identity System Administration	
Actions • View • 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Event Management	
Attestation Grace Stopped Automated Retry Stopped Elevited Retry Stopped Elevitodationatically Unio Stopped Buik Load Archival Stopped Buik Load Post Pro Stopped	Policies Search Approval Policies	
Catalog SyndronStopped Cetrification EventStopped DataCollection SchStopped Delayed Delate User Stopped Delayed Delate UserStopped Enable User AfterStopped Enable User AfterStopped Enable User AfterStopped	System Management Search Scheduled Jobs Search Notification Templates Search System Properties	
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	1	

Click on Run Now.

ent Management Policies System	Management	
	Management	
neduler Notification System Configuration		
arch Scheduled Jobs	Welcome Job Details	
+	Job Details : Entitlement List	
vanced Search	* Indicates required file	
	Apply Run Now Stop Enable Disable Refre	sh
Actions 🗸 View 🖌 🥒 🎴 🔀 📑		
b Name Status		
plication Instanc Stopped	Job Information	
testation Grace Stopped	Job Name Entitlement List Periodic	
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k Load Post Pro Stopped	*Retries 5	
talog Synchroni Stopped		
rtification Event Stopped	Job Periodic Settings	
taCollection Sch Stopped	Run every 1	
layed Delete User Stopped	days 💌	
able/Delete Use Stopped		
able User After Stopped	Job Status	
itlement Assign Stopped itlement List Stopped	Current Status Stopped	
itlement List Stopped	Last Run Start April 18, 2016 6:39:28 PM IST	
Auate User Polic Stopped	Last Run End April 18, 2016 6:39:28 PM IST	
X_BranchCode Stopped	Next Scheduler Run April 8, 2016 3:47:19 PM IST	
X_brand.code Stopped X_UsrLang_Sch Stopped		
XCUBE_GTC Stopped	Parameters	
m Ungrade Job Stopped	AutoPublish True	
ws Selected 1		
	I gnore 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				

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Click on Scheduler under System Configuration.



Click on 主 to Search for Scheduled Job List.



ORACLE Identity System Administration

Signed in as xelsysadm	Help O	

Event Management Policies System Ma	nagement								
Scheduler Notification System Configuration									
Search Scheduled Jobs	Welcome								
Advanced Search	Welcome to Identity System Administration								
Actions - View - 🧷 😭 💥 📑	Event Hanagement								
No search conducted.									
	Policies Search Approval Policies								
	Su Search Approval Policies								
	System Management								
	S Search Scheduled Jobs								
	Search Notification Templates								
	G Search System Properties								
	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>								
	Abait								



Click on FLEX_BranchCode_SchTask.

ORACLE Identity Sys	tem Admini	stration Signed in a	s xelsysadm 🛛 Help 🎐
Event Management Policies	System M	anagement	
	m Configuration	ingenerit	
	in comparation		
Search Scheduled Jobs		Welcome	
		Welcome to Identity System Administration	
Advanced Search			
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Actions 🕶 View 👻 🧷 🎇		Search Reconcilation Events	
Job Name	Status		
Application Instance Post Delete Proce			
Attestation Grace Period Expiry Checke			
Automated Retry of Failed Async Task	Stopped _	Policies	
Automatically Unlock User	Stopped =	Search Approval Policies	
Bulk 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	GJ Search System Properties	
Entitlement Assignments	Stopped	Carl Search System Properties	
Entitlement List	Stopped		
Entitlement Post Delete Processing Job			
Cushingto Lines Debates	Chapter		
FLEX_BranchCode_SchTask	Stopped		
r cos_oarcang_admaak	Stopped		
FLEXCUBE_GTC	Stopped		
Form Upgrade Job	Stonned		
		<u>d</u>	

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 Syste	em Management			1
Scheduler Notification System Configurat				
Search Scheduled Jobs	Welcome	Job Details		
*	Job Details : F	LEX_BranchCode_SchTask		1
Advanced Search			* Indicates required	fields.
	_		Apply Run Now Stop Enable Disable Ref	resh
Actions 🕶 View 👻 🥒 🎦				
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Automatically Unlo Stopped	=		Schedule Type Single	
Bulk Load Archival Stopped		*Retries 0	Single No pre-defined schedule	
Bulk Load Post Pro Stopped			No pre-defined schedule	
Catalog Synchroni Stopped	Job Status			
Certification Event Stopped	Job Status			
DataCollection Sch Stopped		Current Status Stopped		
Delayed Delete User Stopped		Last Run Start April 20, 2016 5:47:01 PM IST		
Disable/Delete Use Stopped		Last Run End April 20, 2016 5:47:03 PM IST		
Enable User After Stopped		Next Scheduled Run		
Entitlement Assign Stopped				
Entitlement List Stopped	Parameters			
Entitlement Post D Stopped		Lookup Name Lookup.FLEX.BranchCode	WebService Name FCUBSLOVAdService	
Evaluate User Polic Stopped		OIM Country US	WebService NameSpace http://lovservice.ws.oim.integration	
FLEX_BranchCode Stopped		OIM Language en		
FLEX_UsrLang_Sch Stopped			WebService Operation lookup	
FLEXCUBE_GTC Stopped		Query select branch_code '~' branch_co	WebService Url https://ofss220607.in.orade.com:7	
Form Lingrade Job Stopped	·			
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.

vent Management Policies System	Management	
heduler Notification System Configuration		
arch Scheduled Jobs	Welcome Job Details	
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b Name Status		
plication Instanc Stopped	Job Information	
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cLoad Archival Stopped	* Retries	0 Single
Load Post Pro Stopped		No pre-defined schedule
talog Synchroni Stopped		
rtification Event Stopped	Job Status	
taCollection Sch Stopped	Current Status Stopped	
layed 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	
itlement Assign Stopped		
itlement List Stopped	Parameters	
itlement Post D Stopped	Lookup Name Lookup.FLEX.UserLanguage	WebService Name FCUBSLOVAdService
aluate User Polic Stopped	OIM Country US	WebService NameSpace http://lovservice.ws.oim.integration
X_BranchCode Stopped		
X_UsrLang_Sch Stopped	OIM Language en	WebService Operation lookup
XCUBE_GTC Stopped	Query select LANG_CODE ~' LANG	COE WebService Url https://ofss220607.in.oracle.com:7
m Upgrade Tob Stopped		
ws 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 Id	entity Manage	r Design Cons _	×
	Welcome	То	
	ORAC	LE.	
	Oracle Identity M	-	
	Design Cons	ole	
<u>U</u> ser	ID xelsysadm		
e <u>P</u> assi	word		
Versi	ion 11.1.2.3.0.0.0	0	
	ogin	<u>C</u> ancel	



Navigate to the Administration>>Lookup Definition menu

- a. Enter the below details:
 - Code: Lookup.OID.Organization
 - Click on Search M Icon
 - Click on Add _____ 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 星

Oracle Identity Mai	nager Design Console : connected to jdbc:oracle:thin:@ofss220374:1521/OracleSS012c _ 🗆
Oracle Identity Manager Design C(Resource Management Resource Objects Rule Designer Resource Objects Administration CLookup Definition Development Tools	Lookup Definition Code Lookup OID. Organization Field • • Lookup Type Field • • Coduption • Lookup OID. Organization • Lookup OID. Organization • Lookup Code Information • Add • Code Key • Decode • 1 cn=Users,dc=ofss,dc • I 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 _ 🗆	×
<u>F</u> ile <u>E</u> dit <u>T</u> ool Bar <u>H</u> elp		
Oracle Identity Manager Design Co	Resource Object Object Reconciliation	-
: 🖻 🦳 Resource Management	Name FLEXCUBE_GTC	
- IT Resources Type Definitio		
Resource Objects Process Management	Order For User Order For Organization	
🔚 🔛 Email Definition	Type Application	
□	Trusted Source	
Lookup Definition	Administrators Password Policies Rule User Defined Fields Process	=
🕀 💼 Development Tools	Event Handlers/Adapters Resource Audit Objectives Status Definition	
	Depends On Object Authorizers Process Determination Rules	
1	Assign Object	
10	Delete	
1		
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r		
C		
		•
	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.



Oracle Identity Manager Design Console : connected to jdbc:oracle:thin:@ofss220246:152	1_ D	×
<u>F</u> ile <u>E</u> dit <u>T</u> ool Bar <u>H</u> elp		
Oracle Identity Manager Design C		
Dipect Definition		
Assigned Objects ×		
Rule Unassigned Objects Assigned Objects		
B Rest 1 OID Trusted User		
Process DID User		
Eta Proc		
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Resource Objects		

Ensure that OID User will be shown under Object.

a. Click on Save.

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			Accessibilit	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.

RACLE: Identity System Administration	Accessibility	Sandboxes	Help Sign O	ut xelsysadr
I Policies ▲ Approval Policies ■ ▲ Approval Policies				
I Provisioning Configur				
Form Designer				
🕸 IT Resource				
Ceneric Connector				
Application Instances				
a Manage Connector				
i System Entities බීපු User				
Section Sectio				
t Role				
Catalog				
System Configuration				
😹 Home Organization Policy				

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

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

Perform the below mentioned Operations and Click on Continue.

- Select OID User
- Click on Add Button

Step 2: Select Resources Specify the resources to be provisioned by this access poly. * Indicates Required Field Filter By © Results 1:2 of 2 First Previous Next Last Resource Name Add >> OID User First Previous Next Last	Create Access Policy	
Exit << Back Contrue >>	Specify the resources to be provisioned by this access policy. Indicates Required Field Filter By Results 1-2 of 2 First Previous Next Last First Previous Next Last First Previous Next Last	Add >> 1



Click on Continue.

Create Access Policy	1 2 3 4
Step 2: Select Resources	
The subsequent pages will guide you through pro	viding the data to associate with the following resources you selected to be provisioned by this Access Policy:
• OID User	
Exit << Back Skip This Ste	p Contrue >>

Select the below Details and Click on Continue.

Server : OID Server

:

:

:

- cn=Users,dc=in,dc=oracle,dc=com
- Preferred Language :
- English
- Start Date

•

•

End Date

Container DN

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

ORACLE

Provide the following process details for resource OID User:	
* 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	
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	٥
Ext << Back Continue >>		

Click on Continue.



Create Access Policy	1231	
Step 3: Select Resources		
Specify the resources to be den * Indicates Required Field Filter By		
Results 1-2 of 2	First Previous Next Last source Name	Selected:
First Previous Next Last	FLEXCUBE_GTC OID User	Add >> << Remove
Exit << Back Co	ntrue >>	-

Click on Create Access Policy.

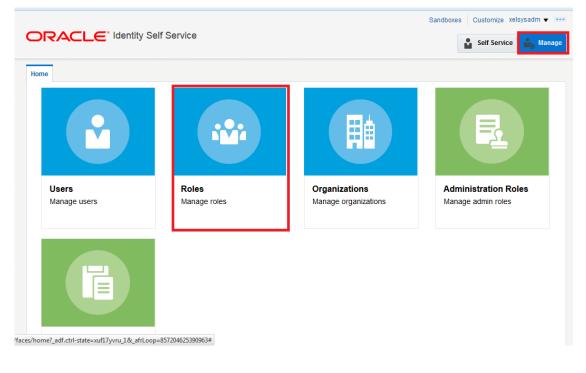
	Access Policy Name	OIDAccessPo		
	Access Policy Description Policy Owner Type	OIDAccessPol Role	всу	
	Policy Owner	SYSTEM ADMINIST	PATOPS	
	Retrofit Access Policy	Yes	RATORS	
	Priority	1		
Resources to be provisione	d by this access policy			<u>Change</u>
Resource Name	Revoke if no longer applies	Disable if no longer applies	Process Forms	
OID User	V	×	OID User Edit	
Resources to be defiled by	this access policy			<u>Change</u>
-		ress policy.		<u>Change</u>
-	this access policy selected any resources to be denied by this acc	cess policy.		<u>Change</u>
You have not Roles for this access policy	t selected any resources to be denied by this acc	zess policy.		Change
You have not Roles for this access policy Roles Name	t selected any resources to be denied by this acc	cess policy.		Change

Login to Identity Self Services



	elf Service	Accessibility Help About Oracle
S	gn in Sign in with your account User ID velsysadm 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



RACLE [®] Identity Sel	T Service	Self Service Manag
Roles ×		G
Roles		
h Name	Q Advanced	
ons 🔻 View 👻 🕂 Create 🧪	Open 🗙 Delete 🗘 Refresh 🔄 📄 Detach	
Name	Role Description	
ALL USERS	Default role for all users	
Administrators	Administrators role for SOA	
BIReportAdministrator	Administrators role for BI Publisher Reports	
COPERATORS	Operator role	
SELF OPERATORS	Operator role for self registration	

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

	Sandboxes Customize xelsysadm 🗸 🖍
ome Roles x ALL USERS x	l
ALL USERS Attributes Hierarchy Access Policy Members Organizations	Apply Revert
Add access policies to define access rights of this role.	
Actions View View View Policy Description Pending Action	
No data to display	

Search for the Access Policy & Select the Access Policy Created



			ze xelsysadm 🔻 🚥
ORACLE	Identity Self	Service Service	rvice Manage
Home Roles x A	Add Access Polic	ies X	
ALL USERS	Search Policy Nar	e 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		✓ Add Selected	
No data to display			
Copyright © 2001, 2015, Ora	Selected Policies		
Copyright @ 2001, 2015, On	View 🔻		
	Policy Name	Policy Description	
	OIDAccessPolicy	OIDAccessPolicy	
		Select Cancel	

Click on Apply to Save

	Service	Sandboxes Customize xelsysadm v •
iome Roles x ALL USERS x		X
ALL USERS Attributes Hierarchy Access Policy M	embers Organizations	Apply Revert
Add access policies to define access rights o Actions View Add X Real		
Policy Name Policy Description	Pending Action	
OIDAccessPolicy OIDAccessPolic	/ Add	

Click on Scheduler under System Configuration.

ORACLE Identity System Administration	Accessibility	Sandboxes	Help	Sign Out	xelsysadm	
Science of the second s						
System Configuration Store Organization Policy Self Service Capabilities						
Lookups ©g Role Categories ©g Scheduler L Matification Configuration Properties Import						
Upgrade Upgrade User Form Upgrade Role Form Upgrade Role Form Upgrade Organization Form Upgrade Organization Form						

Click on Search shown below:



ORACLE' Identity System Administration

Event Management Policies System Ma	anagement
Scheduler Notification System Configuration	
Search Scheduled Jobs	Wekome
Advanced Search	Welcome to Identity System Administration
Actions • View • / 🕑 🕅 🚮	Event Management Search Reconciliation Events
	Policies Search Approval Policies
	System Hanagement Search Scheduled Jobs Search NoteRcation Templates Search System Properties
	4
	ř

Select Evaluate User Policies.

ORACLE' Identity System Adminis	tration Signed in as xelsysadm Help
Event Management Policies System Ma	avanuat
	nagement
Scheduler Notification System Configuration	
Search Scheduled Jobs	Welcome
+	Welcome to Identity System Administration
Advanced Search	
	Event Management
Actions • View • 🧷 🚰 💥 🚮	Search Reconciliation Events
Job Name Status	
Application Instanc Stopped	
Attestation Grace Stopped	
Automated Retry Stopped	Policies
Automatically Unlo Stopped	Search Approval Policies
Bulk Load Archival Stopped	
Bulk Load Post Pro Stopped	
Catalog Synchroni Stopped	
Certification Event Stopped	System Management
DataCollection Sch Stopped	Search Scheduled Jobs
Delayed Delete User Stopped	Search Notification Templates
Disable/Delete Use Stopped	car search nould on henpiates
Enable User After Stopped	G Search System Properties
Entitlement Assign Stopped	
Entitlement List Stopped	
Entitlement Post D Stopped	
Evaluate User Polic Stopped	
FLEX_BranchCode Stopped FLEX_UsrLang_Sch Stopped	
FLEX_USFLang_Sch Stopped FLEXCUBE_GTC Stopped	
FLEXCUBE_GIC Stopped	
FOR LOOKAGE DO STODEO	
	3

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 Adn	inistration	Signed in as xelsysadm Hei
Event Management Policies Syste	m Management	
Scheduler Notification System Configuration	n	
Search Scheduled Jobs	Welcome Job Details	
→	Job Details : Evaluate User Policies	
Advanced Search	JOD Details : Evaluate user Policies	* Indicates required fields.
Advanced Search		Apply Run Now Stop Enable Disable Refresh
Actions 🔹 View 👻 🧪 🎦		Hope to the terms of terms
lob Name Status		
Application Instanc Stopped		
Attestation Grace Stopped	1 Job Information	
Automated Retry Stopped	Job Name Evaluate User Policies	 Periodic
Automatically Unio Stopped	Task Evaluate User Policies	Cron
Bulk Load Archival Stopped	* Start Date April 21. 2016 3:47:19 AM I 🖄 (UTC+05:30) Calcutta - India Time (IT)	Schedule Type Single
Bulk Load Post Pro Stopped	* Retries 10	No pre-defined schedule
Catalog Synchroni Stopped	10000	
Certification Event Stopped	Job Periodic Settings	
DataCollection Sch Stopped		
Delayed Delete User Stopped	Run every 10	
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 Upgrade Tob 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.

	/ Self Service		A	ccessibility Help	About Oracle
	Sign In				
		Sign in with your account User ID xelsysadm Password			
		Sign in Forgot User Login? Forgot Password? New User Registration Track My Registration			
Copyright © 2001, 2015, Oracle and/or #s affi	liates. All rights reserved				

Click on Users under Manage.



	alf Service		Sandboxes Customize xelsysadm 🗸
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me			
			E
Users Manage users	Roles Manage roles	Organizations Manage organizations	Administration Roles Manage admin roles

Click on Create.

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030	613									
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tions	▼ View ▼	+ Create / Edit		Ced Disable X De Last Name		count C Unlock	Account 🐑 Reset	Password	» Acco	» unt S
tions	view ▼ User Login	+ Create / Edit	t v Enable (Disable X De	Organization		~	Identity Status	Acco	unt S
tions	▼ View ▼	+ Create / Edit	t 🗸 Enable (🗢 Disable 🗙 De		Telephone	~			unt S
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tions L C	view view v User Login DIMINTERNAL	Create Ceate Constant of the second se	t Ciminternal WEBLOGIC	Disable X De Last Name	Organization Xellerate Users	Telephone	~	Identity Status Active Active	Accor Unloc	unt S ked ked



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.

	1 e	Identity Self Servi	ce			Sandboxe		
		,					Self Service	🎝 Manage
ome Users ;	< Cr	eate User 🗙						
reate Use	r					Sul	omit Save As 🔻	Cancel
▶ Red	quest	Information						
Basic Info	rmati	on						
First Name	Nan	dhakumar		Manager		0		
Middle Name			* (Organization	Requests	0		
* Last Name	Verr	ban		* User Type	Employee 💌			
E-mail	nan	dhakumar.vemban@oracle.coi	m Di	isplay Name	Nandhakumar Vemban			
Account S	etting	gs						
User	ogin	nvemban-in						
Pass	word	•••••	0					
Confirm Pass	word	•••••						
Account E	ffecti	ve Dates						
Start Date 4/2	5/2016							
End Date		10						

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



	er created succes	sfully						Self Service	- 1	lanage
ome	Users ×									
<u></u> U	sers									
earch	Display Name	•	Q. Advan	ced						
Action	ns ▼ View ▼	+ Create / Edi	t 🗸 Enable (Disable X De	elete 👸 Lock Ac	count 📄 Unloci	k Account 👘 Reset	Password	>>	»
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Acco	unt Si
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unloc	:ked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unloc	ked
	WEBLOGIC			Administrator	Xellerate Users		donotreply@ora	Active	Unloc	ked
	XELSYSADM	System Adminis	System	Aurimistrator						

Click on Refresh to fetch the updated user list.

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Actions V User	View ▼ er Login	➡ Create	t V Enable (Disable X De	Organization	Telephone		ldenti 🗘	Refresh ount St
Actions Viser OIMII WEB	View ▼ ■ er Login	+ Create / Edi Display Name Internal User	t First Name OIMINTERNAL WEBLOGIC	Disable X De Last Name OIMINTERNAL	Organization Xellerate Users	Telephone		Identi CO Active Active	Refresh ount St Unlocked

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

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Home	Users x								
🔓 Us	sers								
Search	Display Name	•	Q Advan	ced					
Action	s 🔻 View 👻	🕂 Create 🧪 Edi	t 🗸 Enable (🕽 Disable 🗙 De	lete 🔒 Lock Acc	count 💣 Unlock	Account 🔊 Reset	Password	» »
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account S
	NVEMBAN-IN	Nandhakumar V	Nandhakumar	Vemban	Requests		nandhakumar.v	Active	Unlocked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
			Suctors	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
	XELSYSADM	System Adminis	System	/ tarrining a con					omoonou

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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.



ne User	rs × User	Details : Nandhakuma	a ×						[
Nand	dhakuma	ır Vemban							
-							2.0		
🧪 Modify	V 🗸 EI	nable 🛛 🔵 Disat	ole 🛛 💥 Delete	🔒 Lock Acc	count 👘 🔂 UnLoc	ck Account	Reset Password		
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Click on Request Accounts.

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🔓 N	andhakuma	r Vemban							
<i>/</i> M	lodify 🗸 Er	able 🕒 Disat	ole 🗙 Delete	A Lock Acco	unt 🚽 UnLoc	k Account 🔊	Reset Password		
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Action		10 C							
Action	Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
Action	Application	Resource OID User	Account Name	Provisioned On 4/25/2016	Status Provisioned	Account Type Primary		Start Date 4/25/2016	End Da

Click on 🕈 Add to Cart against FLEXCUBE_GTC.



me Users _× User D	etails : Nandhakuma 🗙 🖡	Account Access Request 🗙			
	Back Add Act	cess Checkout	Cancel Next	Nandhakum	Cart 쿶 ar Vemban <mark>४</mark>
Search and select individ	ual items from the Catalog	tab. Sets of pre-bundled items of	commonly used in your organiza	tion can be selected from the Reques	t Profiles tab.
Catalog Request Profi	iles				
Search Keyword					
Search Keyword	Search				
Search Keyword					
Search Keyword	Search Sort By Display Na	me 💌		Add Selected to Cart	
		BE_GTC		+ Add Selected to Cart	

Click on Next Button

ome Users x User Details	Nandhakuma × Account Access Request ×	ũ
Е	ack Add Access Checkout Cancel Ne	car 📢 Nandhakumar Vemban 💕
Search and select individual ite Catalog Request Profiles	ms from the Catalog tab. Sets of pre-bundled items commonly used in your or	rganization can be selected from the Request Profiles tab.
Search Keyword Sea	rch	
	Sort By Display Name	+ Add Selected to Cart
Sea		+ Add 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.



	ntity Self Service			Sandboxes	Customiz	ze xelsysadm 👻 🚥
e Users x User Detail	s : Nandhakuma 🗙 Accou	Int Access Request 🗙	1			
	Back Add Access	Checkout	Cancel	Next	Nandhakum	nar Vemban 🎦
art Details ▶ Request Inform	mation				Submit	Save As 🔻
Cart Items splay Name						
	STC					× 0
Details FLEXCO	UBE_GTC		USERLANGUAGE	ENC	Q	Update
			TIMELEVEL		Q	
objectclass			STARTDATE		-	
USERID	NVEMBAN-IN		EMAIL	nandhakumar.vemban@oracle.com		
USERNAME	Nandhakumar Vemban			cn=NVEMBAN-IN,cn=Users,dc=ofss,dc=		
USERPASSWORD		0	Service Account			
HOMEBRANCH		9				
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Click on Submit.

		Back Add Access	Checkout	Cancel	Next	Nandhakumar Vemban	≥1
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/	containerID			USERLANGUAGE	ENG	٩	
	ID			TIMELEVEL	9	9	
	objectclass			STARTDATE	4/25/2016		
	USERID	NVEMBAN-IN		EMAIL	nandhakumar.vemban@oracle.com		
	USERNAME	Nandhakumar Vemban		LDAPUSR	cn=NVEMBAN-IN,cn=Users,dc=ofss,dc	=	
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US	ERPASSWORD	*****					

Click on Refresh in Accounts TAB.



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Attribute	ns ▼ View ▼ Application	itlements Accounts	Direct Reports	Organizations Ad	lmin Roles Request Entitler	nent 🔇 Refresh	🄯 Resource H	istory	

It will show the Requested Account and its status.

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

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Na	Indhakumar								
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induted	S ICOles Ellur	Accounts	Directivepons	organizations Ad	1111110063				
Actions	s 🔻 View 🔻	Request Account	ts 🧪 Modify Gra	ant Duration 🕂	Request Entitlemen	nt 🔇 Refresh	🔅 Resource Histo	ory 🔄 🗐	Detach
	Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
F	FLEXCUBE_GTC	FLEXCUBE_GTC	24	4/25/2016	Provisioned	Primary		4/25/2016	
	OID User	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary		4/25/2016	
(

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.



סת	ACLE	dentity Self Se	ervice				Sandboxes	Self Service	
Home	Users x User De	etails : Nandhakuma.	×						
🔓 N	landhakumar	Vemban							
/ N	Modify 🗸 Ena	ible 🕒 Disabl	e 🗙 Delete	🔒 Lock Acco	unt 💣 Unl	.ock Account 🥷) Reset Password	I	
Attribut		ements Accounts	Direct Reports		dmin Roles Grant Duration	X Remove Account	ts 🔗 Make Pri	mary	» »
	Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
	FLEXCUBE_GTC	FLEXCUBE_GTC	24	4/25/2016	Provisioned	Primary		4/25/2016	
	OID User	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary		4/25/2016	

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.

			Sandboxe	S Customize keisysääm v
RACLE [®]	entity Self Service			Self Service Manag
ome Users x User Deta	ils : Nandhakuma 🗙 Modify Accoun	×		E
Iodify Account				Submit Save As 🔻
Target Users			Request Information	tion
Name				
Nandhakumar Vemban	0			
Cart Items				
Display Name				
	BE_GTC			X 0
Request Details 24@FL				Update
				luning the second secon
/ Edit Account	details			
containerID		HOMEBRANCH	000	9
		USERLANGUAGE	ENG	Q
ID		USERLANGUAGE	ENG	4
ID objectclass		TIMELEVEL		2
objectclass	NVEMBANIN		7	
objectclass USERID	NVEMBANIN Nandhakumar Vemban	TIMELEVEL	7	

Navigate to the Accounts >> Select FLEXCUBE_GTC >> Resource History



	Jsers × User De	etails : Nandhakuma	×						
🔓 Na	andhakumar	Vemban							
/ Mo	odify 🗸 Ena	able 🔵 Disab	le 🗙 Delete	🔒 Lock Acco	ount 📄 Uni	ock Account) Reset Pass	word	
ttribute	s Roles Entit	ements Accounts	Direct Reports	Organizations Ac	imin Roles				
		Request Accoun			y Grant Duration	X Remove Account	- G	e Primary	
	Application		-					Primary Request Entitlement	
	Instance	Resource	Account Name	Provisioned On		Account Type	Request I	The quote Endomone	End Da
	FLEXCUBE_GTC	FLEXCUBE_GTC		4/25/2016	Provisioned	Primary		Enable	
	OID User	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary		Disable	•
	Displa	Name FLEXCUE ay Name FLEXCUE Type Applicatio	E_GTC					 Resource History Reset Password 	
	с	Category Applicatio							
	Des	cription FLEXCUE	E_GTC						
	Audit O	bjective							

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.).

ask Name Tas	<u>sk Status</u>	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]	

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

							Self Service	Manag
ome Users x Use	er Details : Nandhakun	1a ×						
🄓 Nandhakum	ar Vemban							
🖋 Modify 🛛 🗸	Enable Oisa	ible 🗙 Delete	🔒 Lock Acco	unt 🖬 Unl	ock Account 🔊	Reset Passv	vord	
Attributes Roles E	ntitlements Accour	ts Direct Reports	Organizations Ac	Imin Roles				
Actions 👻 View 👻	+ Request Acco	unts 🧪 Modify Ac	counts 🧪 Modify	Grant Duration	X Remove Account	s 🔗 Make	Primary	» »
Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request I	+ Request Entitlement	t End Da
FLEXCUBE_G	TC FLEXCUBE_GT	C 24	4/25/2016	Provisioned	Primary		✓ Enable	
OID User	OID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary			
•			m				Disable	+
FLEXCUBE_GTC D	etail Information					ſ	() Refresh	
							Resource History	
	Name FLEXCU	JBE_GTC					and the source motory	
Di	splay Name FLEXC	IRE CTC					Reset Password	
Di						_		
	Type Applica	tionInstance						
	Category Applica	ionInstance						

Disable Confirmation Screen will get displayed

b. Click on Submit.

ome Users x User Details : Nandhakuma x Disable Accounts x	
Disable Accounts	Submit Save As 🔻
◢ Target Users	Request Information
Name	
Nandhakumar Vemban 🕕	
⊿ Cart Items	
Display Name	
24@FLEXCUBE_GTC FLEXCUBE_GTC	× 6

Go to Accounts Tab and Click on Refresh.

a. On successful processing, it will display the FLEXCUBE_GTC status as Disabled.



	etails : Nandhakuma	×						
Nandhakuma	Vemban							
🖋 Modify 🛛 🗸 En	able 🔵 Disab	le 🗙 Delete	🔒 Lock Acco	unt 💣 UnLo	ock Account 🐑	Reset Password		
		_						
ributes Roles Enti	lements Accounts	s Direct Reports	Organizations Ad	min Roles				
Actions View	+ Request Accour	nts 🧪 Modify Ac	counts 🧪 Modify	Grant Duration	X Remove Account	s 🖉 Make Prima	гу	» »
Application Instance	Resource	Account Name	Provisioned On	Status	Account Type	Request ID	Start Date	End Da
	ELEXCUBE GTC	24	4/25/2016	Disabled	Primary		4/25/2016	
FLEXCUBE_GTC					Primary		4/25/2016	
FLEXCUBE_GTC	OID User	NVEMBAN-IN	4/25/2016	Provisioned				
_	-	NVEMBAN-IN	4/25/2016					÷
OID User	-	NVEMBAN-IN						•

6.1.4 Enabling a Disabled user in FCUBS through OIM

Accounts>>Select FLEXCUBE_GTC >>Click on Enable

me Users 🗙	User Detai	ls : Nandhakuma	×						
🔓 Nandhak	umar V	emban							
🖋 Modify	🗸 Enable	Disabl	e 🗙 Delete	🔒 Lock Acco	unt 💣 Uni	Lock Account	Reset Pass	word	
			-						
ttributes Roles	Entitlem	ents Accounts	Direct Reports	Organizations Ad	Imin Roles				
Actions - View	• +	Request Accoun	ts 🥒 Modify Acc	counts 🥒 Modify	Grant Duration	🗶 Remove Account	s 🖉 Mak	e Primary	» »
Applicati Instance	on F	lesource	Account Name	Provisioned On	Status	Account Type	Request I	+ Request Entitlement	End D
FLEXCUB	E_GTC F	LEXCUBE_GTC	24	4/25/2016	Disabled	Primary		✓ Enable	
OID User	c	DID User	NVEMBAN-IN	4/25/2016	Provisioned	Primary			
•				m				Disable	
FLEXCUBE GTC	Detail Inf	ormation							
								(2) Refresh	-
								Resource History	
		lame FLEXCUB	E GTC						
	N	ame FLEAGOB	-					Reset Password	

Enable Confirmation Screen will get displayed and Click on Submit

lome Users x User Details : Nandhakuma x Enable Accounts x	ũ
Enable 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 Enabled.

me	Jsers x User D	etails : Nandhakuma	×						
2 N	andhakumar	Vemban							
	odify 🗸 Ena	able 🖨 Disabl	le 🗙 Delete	🔒 Lock Acco	unt 🚽 Uni	Lock Account 👳) Reset Password	1	
/ N	oully V Ena	Disabi	ie 🕺 Delete	LOCK ACCO		LOCK ACCOUNT	reser Password	1	
ttribute	s Roles Entit	ements Accounts	Direct Reports	Organizations Ad	dmin Roles				
undute	s Roles Enu	ements Accounts	Direct Reports	organizations Ad	unin Roles				
Action	s 🔻 View 👻	Request Accoun	its 🧪 Modify Acc	counts 🧪 Modify	Grant Duration	🗶 Remove Accoun	ts 🖉 Make Pri	mary	» »
Action	s ▼ View ▼ Application Instance	+ Request Accoun Resource	ts / Modify Acc	counts / Modify Provisioned On		X Remove Account	ts 🔗 Make Pri	mary Start Date	»» » End Da
Action	Application Instance		Account Name	-					
Action	Application Instance	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	
a Organization						
🔯 Role						
🛱 Catalog						
System Configuration						
😹 Home Organization Policy						
🙀 Self Service Capabilities						
🝓 Lookups						
Role Categories						
E Scheduler						
Sconfiguration Properties						
import						
Texport						
✓ Upgrade						
C Upgrade User Form						
🖓 Upgrade Role Form						
😹 Upgrade Organization Form						
e m b						

Under System Management tab and search for FLEXCUBE_GTC Scheduled Job by clicking Search Button.



ORACLE' Identity System Adminis	stration	Signed in as xelsysadm Help 🤤
Event Hanagement Policies System Ha Scheduler Notification System Configuration Search Scheduled Jobs Advanced Search Actons + View + No search conducted.	Welcome Welcome to Identity System Administration Event Hanagement	
	Policies Image: Search Approval Policies System Management Image: Search Scheduled Jobs Image: Search Hotification Templates Image: 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.

Event Hanagement	Policies System Ha	nanement		
Scheduler Notification				
Search Scheduled J	Jobs	Welcome		
	•	Welcome	to Identity System Administration	
Advanced Search				
Actions + View +	/ 9 % Pl	Event Ha	xagement	
Job Name Statu	Lus .		Source Reconciliation Events	
Application Instanc Stop				
Attestation Grace Stop Automated Retry Stop		Policies		
Automatically Unio Stop	sped		SQ Search Approval Policies	
Bulk Load Archival Stop				
Bulk Load Post Pro Stop Catalog Synchroni Stop	xped xped			
Certification Event Stop	sped		Aanagement	
DataCollection Sch Stop Delayed Delete User Stop		-	S Search Scheduled Jobs	
Disable,Delete Use Stop	xped		Search Notification Templates	
Enable User After Stop	sped		30 Search System Properties	
Entitlement Assign Stopp Entitlement List Stopp	xped		Call all and UL system multiple res	
Entitlement Post D Stop	aped and a second			
Evaluate User Polic Stopp	sped			
FLEX_BranchCode Stop FLEX UsrLang Sch Stop				
FLEXCUBE_GTC Stop	sped			
Form Upgrade Job Stop	sped			
Get SOD Check Re Stop Get SOD Check Re Stop				
Identity Audit Main Stop	xped			
Identity Audit Sca Stop Initiate Attestation Stop	sped			
Initiate Attestation Stop Issue Audit Messa Stop	xped			
Job History Archival Stop	xped			
LDAPSync Post En Stop LDAPSync Post En Stop	xped			
LDAPSync Post En Stop	xped			
LDAPSync Post En Stop	xped			
Non Scheduled Bat Stop OID Connector Gr Stop				
OID Connector Gr Stop	xped a			
Welcome	Job Detaik			R
	LEXCUBE_GTC			
Job Details : F	LEXCOBE_GIC			* Indicates required fields.
			Apply Run Now Stop	Enable Disable Refresh
			Run the	job now
Job Informatio	08			
Job Into Induc		Job Name	PLEVCUBE_GTC Periodic	
			FLEXCURE_GTC C Cron Schedule Type O Single	
		* Retries	0 One verified by reader	
Job Periodic Se	attings			
Job renoule St	country			
		Run every		
			days 💌	
Job Status				
		Current Status		
			April 25, 2016 5:35:15 PM IST	
		Last Run End Scheduled Run	April 25, 2016 5:35:16 PM IST	
	Nexts	scheduled Kuh		
Parameters				
	0	onnector Name	E EYCIBE	
	00		REXCUE GTC	
		TResource	LEXUDE_SIC	



	stration	Signed in as xelaysadm - Help
Event Management Policies System M		
Scheduler Notification System Configuration	anagemen	
Search Scheduled Jobs	Wekome Job Details	
Advanced Search	Job Details : FLEXCUBE_GTC	* Indicates required fields. Apply Run Nov Stop Enable Disable Refresh
Actions = View = 🥒 😫 💥 🗃		
Job Name Status		
Application Instanc Stopped *	Job Information	
Attestation Grace Stopped	Job Name PLEXCUBE_GTC	Period:
Automated Retry Stopped	Task PLEXCURE_GTC	0.000
Automatically Unio Stopped	* Start Date January 1, 1970 5:30:00 AP 🖧 (UTC+05:30) Calcutta - India Time (IT)	Schedule Type Single
Bulk Load Archival Stopped		No pre-defined schedule
Bulk Load Post Pro Stopped	* Retries 0	Outpeaker
Catalog Synchroni Stopped		
Certification Event Stopped	Job Periodic Settings	
DataCollection Sch Stopped	Run every 1	
Delayed Delete User Stopped =	days 💌	
Disable/Delete Use Stopped	0075 -	
Enable User After Stopped	Job Status	
Entitlement Assign Stopped	Current Status Stopped	
Entitlement List Stopped		
Entitlement Post D Stopped	Last Run Start April 25, 2016 5:35:15 PM IST	
Evaluate User Polic Stopped	Last Run End April 25, 2016 5:35:16 PM IST	
FLEX_BranchCodeStopped	Next Scheduled Run	
FLEX_UsrLang_Sch Stopped		
FLEXCUBE_GTC Stopped	Parameters	
Form Upgrade Job Stopped	Connector Name PLEXICUBE	
Get SOD Check Re Stopped	ITResource FLEXCUBE_GTC	
Get SOD Check Re Stopped		
Identity Audit Main Stopped	Job History	
Identity Audit Sca Stopped		
Initiate Attestation Stopped		
Issue Audit Messa Stopped	Actions * View * Show error details	
Job History Archival Stopped	Para Tara Pad Tara Ada Raba Para Kan Raba	
LDAPSyn: Post En Stopped	April 25, 2016 5:3 April 25, 2016 5:3 Stopped Success	
DAPSync Post En Stormad		

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.

ciliation Events		
	Welcome Job Details Event Details: 10 1 Refresh	
_		
• 9.8	Event	
Profile Name Key Fields	Event ID 1 Current Status Update Succeeded	Date and Time April 25, 2016 5:35:16 PM 1ST 30b (D) 7014
RENCLIBE GTC INVEMBAND	Entity Account	Resource Name RENCUBE_GTC
	Type Changelog	Profile Name PLEXICUE_GTC
	Key Fields INVERTIAN	Modifier ID Internal User
	Action Date Action Date not specified	Retry Count. 5
	Linked To	
	Linked User INVEMBAN-IN - Nanchalumar Veriban	Linked By Rule Based Linking
	Linked Account ID 24	
	Account Description 24	
	Notes	
	Notes	
	Reconciliation Data Matched Accounts Hatched Users History	
	Attribute Name Attribute Value ODM Mapped Field	
	Attribute Name Attribute Value ODM Mapped Field If Resource2 5 If Resource2	
	IT Resource2 5 IT Resource2 USERNAME Handhaikumer V USERNAME	
	IT Resource2 5 IT Resource2 USSPONME STARTONIE April 9, 2019 IZO- STARTONIE April 9, 2019 IZO-STARTONIE	
	IT Resource2 5 IT Resource2 USERNAME Nandhailanna V USERNAME STANTDATE April 8, 2016 32-00 STARTDATE USERID MMSMAND USERID	
	1 F1 Resurad2 LSENAME Nandhalama VSENAME Santhalama TANTURE Avrili 3, 055 12.0.5 STATUSTIT USERD NIMEMANN USERD NIMEMANN VMERANON USERD VMERANON USERD	
	If Resource 5 If Resource USSING TimeAndware USSING Interfault April, 2019 120, 5147041 USSING Montechnik USSING USSING USSING USSING	
	1 F1 Resurad2 LSENAME Nandhalama VSENAME Santhalama TANTURE Avrili 3, 055 12.0.5 STATUSTIT USERD NIMEMANN USERD NIMEMANN VMERANON USERD VMERANON USERD	
	If Resource 5 If Resource USSING TimeAndware USSING Interfault April, 2019 120, 5147041 USSING Montechnik USSING USSING USSING USSING	

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 Adminis	tration					Signed in as xelsysadm	Help (
Event Management Policies System Ma	nagement						
Reconciliation	ingement						
							×
Search Reconciliation Events	Welcome Event	Details: ID 1	Job Details	Event Details: ID 21			
•	Reevaluate Event Clos	se Event Ad Hoc L	ink Refresh				
Advanced Search							
	Event						
Actions 🔻 View 👻 🔍 🎇		Event ID 21			Date and Time August 26, 2014 3:02:46 PM IS	т	
Event ID	Curre	nt Status No User M	atch Found		Job ID 4448		
FLEXCUBE_GTC VKUMAR		Entity Account			Resource Name FLEXCUBE GTC		
1 FLEXCUBE_GTC ANDY12		Type Changelog			Profile Name FLEXCUBE_GTC		
		ey Fields VKUMAR			Modifier ID Internal User		
	Ac	tion Date Action Dat	e not specified		Retry Count 5		
	Linked To						
	10	ked User Not linked	to any user		Linked By		
			to any dati		clined by		
	Account D						
	Notes						
	notes	Notes					
		Notes					
	Reconciliation Da	ta Matched /	Accounts	Matched Users History	Y		
	View -						
	Attribute Name IT Resource2	Attribute Value	OIM Mapped Fie IT Resource2	eid			
	USERLANGUAGE	4 ENG	USERLANGUAGE	E	Lists all event data		
	USERNAME	Anand R	USERNAME	-			
	TIMELEVEL	9	TIMELEVEL				
	HOMEBRANCH	FMG	HOMEBRANCH				
	STARTDATE	April 8, 2014 12:0					
	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 [®] 11g		
Administration Console		
		Welcome
	Log in to work with th	e WebLogic Server domain
	Username:	weblogic
	Password:	
WebLogic Server Version: 10.3.5.0		
v vecuogic server version i uus.su Copyright © 1996,2010, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.		



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

Change Center		😭 Home Log Out Preferences 🔤 Record	Help	Q	Welcome, weblogic Connected to: IDMDoma
View changes and restarts	11	Home >Summary of JDBC Data Sources			
Click the Lock & Edit button to modify, add or	1	Summary of JDBC Data Sources			
delete items in this domain.		Configuration Monitoring			
Lock & Edit					
Release Configuration		A JDBC data source is an object bound to the borrow a database connection from a data :		database connectivity through a pool of JDBC of	connections. Applications can look up a data source on the JNDI tree and then
Domain Structure		This page summarizes the JDBC data source		manhad in this descrip	
DMDomain	A	This page summarizes the JUBC data source	objects that have been o	reated in this domain.	
-Environment Deployments					
⊖-Services		Customize this table			
Messaging Data Sources	=	Data Sources (Filtered - More Column	s Exist)		
Persistent Stores		Click the Lock & Edit button in the Change	Center to activate all the	buttons on this page.	
Foreign JNDI Providers					
Work Contexts XML Registries		New v Delete			Showing 1 to 10 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
How do I		fcjDevDS	Generic	jdbc/fcjDevDS	Applications
Create JDBC generic data sources		fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
Create IDBC 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
	=	jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1
System Status		mds-oim	Generic	jdbc/mds/MDS_REPOS	oim server1
Health of Running Servers		New ~ Delete		,,	Showing 1 to 10 of 19 Previous Next
Failed (0)		Index + Delete			Showing 1 to 10 of 19 Previous Next
Critical (0)					
Overloaded (0)					
Warning (0)					
OK (5)					
WebLoaic Server Version: 10.3.5.0					

5. Click on Lock & Edit as shown below.

nge Center		🚹 Home Log Out Preferences 🔤 Record	Help	Q	Welcome, weblogic Connected to: IDMDom
w changes and restarts		Home >Summary of JDBC Data Sources			
the Lock & Edit button to modify, add	or	Summary of JDBC Data Sources			
te items in this domain.	- I I	Configuration Monitoring			
Lock & Edit					
Release Configuration					
		A JDBC data source is an object bound to the borrow a database connection from a data s		s database connectivity through a pool of JDBC (connections. Applications can look up a data source on the JNDI tree and then
nain Structure					
Domain		This page summarizes the JDBC data source	objects that have been	created in this domain.	
Environment					
Deployments		Customize this table			
Services • Messaging					
Data Sources	=	Data Sources (Filtered - More Columns	-		
Persistent Stores		Click the Lock & Edit button in the Change	Center to activate all the	buttons on this page.	
Foreign JNDI Providers Work Contexts		N			
XML Registries		New ~ Delete			Showing 1 to 10 of 19 Previous Next
XML Entity Caches		🔲 Name 🐵	Туре	JNDI Name	Targets
jCOM		EDNDataSource	Generic	idbc/EDNDataSource	soa_server1
Mail Sessions	-	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
v do I		fcjDevDS	Generic	jdbc/fcjDevDS	Applications
reate JDBC generic data sources		fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
reate JDBC GridLink data sources		fcjdevDS120	Generic	jdbc/fcjdevDS120	Applications
reate JDBC multi data sources		FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications
elete JDBC data sources		FCUBS120_XA	Generic	jdbc/fcjdevDS120_XA	Applications
elete JDBC multi data sources		FCUBSScheduler	Generic	jdbc/fcjSchedulerDS	Applications
tem Status		jdbc/registryDS	Generic	jdbc/registryDS	wls_ods1, wls_oif1, osr_server1
Ith of Running Servers		mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server 1
-		New ~ Delete			Showing 1 to 10 of 19 Previous Next
Failed (0)					
Critical (0)	14				
Overloaded (0) Warning (0)					
OK (5)					



6. Expand New and click on Generic Data Source.

Change Center		Home Log Out Prefere	nces 📐 Record Help			Welcome, weblogic Connected to: IDMDo		
View changes and restarts		Home > Summary of JDBC Data Sources						
No pending changes exist. Click the Release Configuration button to allow others to edit th domain.		Summary of JDBC Data S						
Lock & Edit								
Release Configuration		A JDBC data source is an borrow a database conne		tree that provide	s database connectivity through a pool of JDBC	connections. Applications can look up a data source on the JNDI tree and then		
Oomain Structure		This page summarizes the	JDBC data source objects	that have been	created in this domain.			
DMDomain ÷Environment	-							
Deployments		Customize this table						
-Services -Messaging		Data Sources (Filtered	- More Columns Exist)					
Data Sources	E	New -				Showing 1 to 10 of 19 Previous Nex		
Persistent Stores Foreign JNDI Providers		Generic Data Source		Туре	JNDI Name	Targets		
Work Contexts		GridLink Data Source		Generic	jdbc/EDNDataSource	soa server1		
XML Registries XML Entity Caches		Multi Data Source	rce	Generic	idbc/EDNLocalTxDataSource	soa_server1		
jCOM		fciDevDS		Generic	idbc/fciDevDS	Applications		
Mail Sessions	-	fcidevDS11		Generic	jdbc/fcjdevDS11	Applications		
łow do I		fcidevDS120		Generic	idbc/fcidevDS12	Applications		
		FCUBS		Generic	idbc/fcjdevDS	AdminServer, Applications		
Create JDBC generic data sources Create JDBC GridLink data sources		FCUBS120 XA		Generic	jdbc/fcjdevDS120 XA	Applications		
Create JDBC multi data sources		FCUBSScheduler		Generic	idbc/fciSchedulerDS	Applications		
Delete JDBC data sources		idbc/registryDS		Generic	idbc/registrvDS	wls_ods1, wls_oif1, osr_server1		
Delete JDBC multi data sources		mds-oim		Generic	jdbc/mds/MDS_REPOS	oim server1		
				denene	Jabennashinos_rati oo	_		
System Status		New - Delete				Showing 1 to 10 of 19 Previous Nex		
lealth of Running Servers								
Failed (0)								
Critical (0)								
Overloaded (0)								
Warning (0)								
OK (5)								

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



	Administration Console		Q
Change Center	🏠 Home Log Out Preferences 🔤 Recor	d Help	Welcome, weblogic Connected to: IDMDomain
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration buttion to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Net Finish Cancel JDBC Data Source Properties The following properties will be used to ide * Indicates required fields	ntfy your new JDBC data source.	
IDMDomain	What would you like to name your new JDB0	C data source?	
Deployments EServices D-Messaging	(문) * Name:	OIM	
Otats Sources Persistent Stores Persign JNDI Providers Work Contexts Wolk Registries Wolk Registries Wolk Registries	What JNDI name would you like to assign to () JNDI Name:) dbc/OIM		
How do I			
Create JDBC generic data sources	What database type would you like to selec	t?	
Create LLR-enabled JDBC data sources	Database Type:	Oracle 💌	
System Status Health of Running Servers	Back Next Finish Cancel		
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (5)			1
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All i Oracle is a registered trademark of Oracle Corporation		is of their respective owners.	

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.

	Administration Console	Ŏ
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 Net Frish Cancel JDBC Data Source Properties The following properties will be used to identify your new JDBC data source.	
Domain Structure IDMDomain	Database Type: Orade	
B: Environment Impolyments D-Services B: Messaging Impolyments Impo	What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Orade WebLog Database Driver: *Oracle's Driver (Thin) for Instance connections; Versions:9.0.1 and later Back Finish Cancel	ic Server.
XML Registries XML Entity Caches 		
Create JDBC generic data sources Greate LLR-enabled JDBC data sources		
System Status Health of Running Servers		
Featm of kunning servers Falet(0) Critical (0) Overloaded (0) Warning (0) CK (5)		
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	Il rights reserved. on and/or its affiliates. Other names may be trademarks of their respective owners.	

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



		0
URACLE WebLogic Server		
Change Center	A 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 Hew JDBC Data Source Back Ned Frinh Cancel Transaction Options You have selected non-XA JDBC driver to create database connection in your new data source.	
Domain Structure IDMDomain B-Environment	Oces this data source support global transactions? If yes, please choose the transaction protocol for this data source.	
Services Services Orderson Orderson Orderson Orderson Orderson Orderson	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction optimization. Re in place of Emulate Two-thase Commit.	ecommended
Work Contexts XML Registries XML Entity Caches 	Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can heuristic conditions. Emulate Two-Phase Commit	
How do L	Select this option if you want to enable non-X4.JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option resources can participate in the global transaction.	ion, no other
Create JDBC generic data sources	One-Phase Commit	
Create LLR-enabled JDBC data sources	Back Ned Fnish 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.

	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 Finish Cancel Connection Properties Define Connection Properties.	
Domain Structure	What is the name of the database you would like to connect to?	
IDMDomain	Database Name:	
-Services -Messaging	What is the name or IP address of the database server?	
Data Sources E Persistent Stores	Host Name:	
Foreign JNDI Providers Work Contexts XML Registries	What is the port on the database server used to connect to the database?	
XML Entity Caches jCOM	Port: 1521	
Mail Sessions	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)	Back Net Fnith Cancel	
OK (5)		
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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.



	dministration Console		<u> </u>
Change Center	💼 Home Log Out Preferences 🔤 Record Help	Q	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 Connection test succeeded. Create a New JDBC Data Source		
Lock & Edit	Create a New JDBC Data Source		
Release Configuration	Test Configuration Back Next Finish Cancel		
Domain Structure	Test Database Connection		
IDMDomain 🔺	Test the database availability and the connection properties you prov	ided.	
Environment Deployments	What is the full package name of JDBC driver class used to create data	base connections in the connection pool?	
-Services -Messaging -Data Sources	(Note that this driver class must be in the classpath of any server to wi	hich it is deployed.)	
Persistent Stores Foreign JNDI Providers	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:	idbc:oracle:thin:@10.18	
Mail Sessions		Jubeloracie.ann.eg.to.ite	
File T3	What database account user name do you want to use to create datab	base connections?	
How do I	Database User Name:		
Create JDBC generic data sources	Database Oser Name:	DAY0114	
Create LLR-enabled JDBC data sources	What is the database account password to use to create database con	nections?	
System Status	(Note: for secure password management, enter the password in the Pa	assword field instead of the Properties field below)	
Health of Running Servers			
Failed (0)	Password:	•••••	
Critical (0)	Confirm Password:		
Overloaded (0)	Confirm Password:	••••••	
Warning (0)	What are the properties to pass to the JDBC driver when creating data	base connections?	
OK (5)			
	Properties: user=DAY0114		
	User-DATOI14		
	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.

ORACLE WebLogic Server® Administration Console				
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 borrow a database connection from a data source.			
Domain Structure				
IDMDomain _	This page summarizes the JDBC data source objects that have been created in this domain.			
-Environment -Deployments				
E-Services	Customize this table			
Messaging	Data Sources (Filtered - More Columns Exis	st)		
Data Sources =Persistent Stores	New - Delete			Showing 1 to 10 of 20 Previous Next
Foreign JNDI Providers	Delete			Showing I to IU of 20 Previous Next
Work Contexts	🔲 Name 🗇	Туре	JNDI Name	Targets
XML Registries	EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
јСОМ	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
Mail Sessions	fcjDevDS	Generic	jdbc/fcjDevDS	Applications
How do I	fcjdevDS11	Generic	jdbc/fcjdevDS11	Applications
	fcjdevDS120	Generic	jdbc/fcjdevDS120	Applications
Create JDBC generic data sources Create IDBC GridLink data sources	FCUBS	Generic	jdbc/fcjdevDS	AdminServer, Applications
Create 10BC 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
	mds-oim	Generic	jdbc/mds/MDS_REPOS	oim_server1
System Status 🖂	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)				
WebLogic Server Version: 10.3.5.0				
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Oracle Identity Manager Integration Implementation Guide [May] [2021] Version 14.5.0.0.0

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