Installation Guide Oracle Banking APIs Patchset Release 22.2.3.0.0

Part No. F72988-01

February 2024

# ORACLE

Installation Guide February 2024

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inquiries: Phone: +91 22 6718 3000 Fax:+91 22 6718 3001

#### www.oracle.com/financialservices/

Copyright © 2006, 2024, Oracle and/or its affiliates. All rights reserved.

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

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

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

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

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

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

## **Table of Contents**

1.	Ρ	Preface1-	-1
	1.1	Intended Audience1-	-1
	1.2	Documentation Accessibility1-	-1
	1.3	Access to Oracle Support1-	-1
	1.4	Structure1-	-1
	1.5	Related Information Sources1-	-1
2.	Ir	ntroduction2	-1
	2.1	Purpose of the Document2	-1
3.	Ρ	Prerequisites	-1
4.	Ir	nstallation4	-1
5.	Ir	nstallation using Silent Mode5	-1
6.	Ir	nstaller Verification6	-1
7.	Ir	nstaller Scope7	-1
8.	Ρ	ost Installation Steps8	-1
9.	C	BAPI Logging ConfigurationError! Bookmark not define	d.
10		OBAPI Product Verification10-	-1
11	•	Multi Entity11-	-1
12	-	Multi-entity installation using Silent Mode12-	-1
13	-	OBAPI Product Security13-	-1
14	•	OBAPI Product – Best Practice14-	-1
	14.1	1 Tablespace for AUDIT INDEX14-	-1
15	-	JPA and OBAPI multi-cluster15-	-1
16		Troubleshoot Overview	-1

# 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <a href="http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc">http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc</a>.

## 1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

## 1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

## 1.5 <u>Related Information Sources</u>

For more information on Oracle Banking APIs Patchset Release 22.2.3.0.0, refer to the following documents:

Oracle Banking APIs Installation Manuals



## 2. Introduction

## 2.1 Purpose of the Document

The purpose of the OBAPI Installation Manual is to provide a step by step overview on the installation process of the solution.

It includes:

- Reference to prerequisites software installation required for OBDX & OBAPI installer
- Setup of OBAPI with Oracle's own Core Banking and Origination Products along with Thirdparty HOST system.
- Running the installation in silent mode
- Advanced Configurations (Post installation)
- Installation Verification
- Multi-Entity Installation and configuration
- Best Practice
- Troubleshoot Overview

<u>Home</u>

# 3. Prerequisites

OBAPI pre-requisite software should be installed and available before proceeding.

For OBAPI pre-requisite software setup refers document "Oracle Banking APIs Installer Pre-Requisite Setup Manual".

### **Installer Pre-requisite verification**

Post installation of OBAPI Installer prerequisite software's, verification can be done using below steps.

**Note:** Verification should be performed on Server where Oracle Weblogic is locally installed and by OS user (which is owner for Oracle Weblogic home directory) for non-root steps. The same user will be used to execute installer.

### **Oracle Instant client**

Step 1: Login using root user.

Step 2: Run below command to verify if Oracle Instant client is installed.

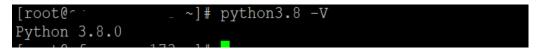
### rpm -qa | grep oracle

**Note:** Above package verification command is specific to Oracle Linux and RHEL distributions only. For other Linux distributions or OS please refer to OS specific package manager documentation.

## Python:

Step 1: Execute python -V command

### python3.8 -V



Note: Ensure Python 3.8.0 supported version is installed. Above command should reflect the same.



### cx\_Oracle & Urwid:

Step 1: Execute python command

#### python

```
Note: Ensure Python 3.8.0 version should be available in PATH variable. Above execution should be done using Python 3.8.0.
```

Step 2: Import Urwid and check version

### import urwid (Press Enter)

urwid.\_\_version\_\_

If version is displayed, then Urwid is installed and available for use.

Note: Ensure Urwid 2.1.2 supported version is installed. Above command should reflect the same.

Step 3: Similarly import cx\_Oracle and check version

#### import cx\_Oracle (Press Enter)

cx\_Oracle.version

```
[root@cl_________?? Python-3.8.0]# python3.8
Python 3.8.0 (default, Jun 8 2021, 11:06:31)
[GCC 8.4.1 20200928 (Red Hat 8.4.1-1.0.1)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import cx_Oracle
>>> cx_Oracle.version
'8.1.0'
>>>
```

If version is displayed, then cx\_Oracle is installed and available for use.

**Note:** Ensure cx\_Oracle 8.1.0 supported version is installed. Above command should reflect the same.

## Python 3.8 for Linux Operating System : --

Step 1: Execute below commands to install the python 3.8.0



dnf groupinstall 'development tools'

dnf install bzip2-devel expat-devel gdbm-devel ncurses-devel openssl-devel readline-devel wget sqlite-devel tk-devel xz-devel zlib-devel libffi-devel

wget https://www.python.org/ftp/python/3.8.0/Python-3.8.0.tgz

tar -xzvf Python-3.8.0.tgz

cd Python-3.8.0

./configure --enable-optimizations

make altinstall

python3.8 -version

[root@r	_	~]# python3.8 -V
Python 3.8.0		
	170	

<u>Step2:</u> Once above steps are executed successfully install the following required modules.

pip3.8 install --upgrade pip

pip3.8 install cx-Oracle==8.3

rootBo. \_ Python-3.8.0]# pip3.8 install cx-Oracle==8.1.0 ..., \_... / Collecting cx-Oracle==8.1.0 Downloading https://files.pythonhosted.org/packages/5f/3a/f63cf2cee42b32874af13f0a2deb5d4a1448b2fc39bff36ab1le3369f00c/cx\_Oracle-8.1.0-cp38-cp38-manylinuxl x86\_64.whl (825kB) | 829kB 138kB/s installing collected packages: cx-Oracle uccessfully installed cx-Oracle-8.1.0

pip3.8 install urwid==2.1.2

[root@c: Python-3.8.0]# pip3.8 install un	rwid==2.1.2
Collecting urwid==2.1.2	
Using cached urwid-2.1.2.tar.gz (634 kB)	
Jsing legacy 'setup.py install' for urwid, since pa	ackage 'wheel' is not installed.
Installing collected packages: urwid	
Running setup.py install for urwid done	
Successfully installed urwid-2.1.2	

**Home** 



# 4. Installation

## **Pre-Installation**

• Install all the prerequisite software and packages mentioned above

## **Steps of Installation**

- Download and extract the installer zip file (Base).
- Navigate to "<OBAPI INSTALLER DIR>/core/config"
- Open the "installer.properties" file to maintain key configurations for BASE ENTITY (OBDX\_BU)



## **IMPORTANT**:

- Enter the values right after the "="sign
- DO NOT change anything to the left of the "="
- DO NOT change any of the flag values or pre-filled values (such as WLS\_JDBC\_DIGX\_NAME, WLS\_JDBC\_DIGX\_JNDI, Flag values etc) available in "Factory Shipped" section.
- Ensure there is no blank space after "=" sign, except specific flavor specific configuration.
- Throughout this document consider UBS as UBS core banking with OBPM as payments engine.



Only below parameters should be set in installer.properties file.

Component	Parameter	Description	Example
	OBAPI_DATABASE_HOST NAME	Enter the hostname of the database server which would host the database schema for OBAPI	abc.xyc.com
	OBAPI_DATABASE_PORT	Enter the port number of the database listener	1521
	OBAPI_DATABASE_SID	Enter the Oracle <b>Service</b> <b>Name</b> for database instance	obapidb.in.oracl e.com
	OBAPI_DATABASE_SYS_ USER	Enter the username with 'sys' privileges	Sys
DB details (for OBAPI	POST_FIX	For OBAPI schema name like "OBAPI_DEV" POST FIX is 'DEV'. <b>SHOULD BE</b> <b>IN UPPERCASE ONLY.</b>	DEV
schema)	OBAPI_DBA_DIRECTORY_ NAME	Enter the directory name in which you want the OBAPI schema tablespace datafile to be created. Enter Logical name (i.e. <b>DIRECTORY_NAME</b> column) from <b>DBA_DIRECTORIES</b> table NOT the physical path.	OBAPI_DIR
	OBAPI_AUDIT_DBA_DIRE CTORY_NAME	Enter the directory name in which you want the OBAPI AUDIT tablespace datafile to be created. Enter Logical name (i.e. <b>DIRECTORY_NAME</b> column) from <b>DBA_DIRECTORIES</b> table NOT the physical path.	OBAPI_AUDIT_ DIR



Component	Parameter	Description	Example
	EHMS_DATABASE_HOSTNAME	Enter the hostname for EHMS database server	abc.xyz.com
	EHMS_DATABASE_PORT	Enter the port number of EHMS database listener	1521
	EHMS_SCHEMA_NAME	Enter the Complete OBAPI- EXT (B1A1) HostInterfaceschema name you want installer to create as new schema. SHOULD BE IN UPPERCASE ONLY.	EHMS182S CHEMA
EHMS DB details (to be configured only in-case of FLAVOR as UBS,FCORE &OBPM)	EHMS_DBA_DIRECTORY_NAME	Enter the directory name in which you want the OBAPI- EXT (B1A1) schema tablespace datafile to be created. Enter Logical name (i.e. <b>DIRECTORY_NAME</b> column) from <b>DBA_DIRECTORIES</b> table NOT the physical path.	OPATCH_L OG_DIR
	EHMS_DATABASE_SYS_USER	Enter the username with 'sys' privileges	Sys
	EHMS_DATABASE_SID	Enter the EHMS database Service Name	obapiehms.i n.oracle.co m
	EHMS_HOST_SCHEMA_NAME	Enter the EXISTING EHMS HOST schema name	OBAPIUBS
	EHMS_CCY(to be configured for UBS and OBPM HOST only)	Enter the Country code for EHMS HOME Branch	GB
	EHMS_HB (to be configured for UBS and OBPM HOST only)	Enter the Branch code for code for EHMS HOME Branch	AT3
	EHMS_FCORE_FCUBS_SCHEMA _NAME (to be configured for FCORE HOST only)	FCORE-FCUBS schema name	FCRUBSHO ST



Component	Parameter	Description	Example			
	MIDDLEWARE_HOME	Oracle Weblogic Server home path. Example /home/obapiuser/Oracle/Middlewa re/Oracle_Home - where you have sub-directories like wlserver,oracle_common etc.	/home/obapiuse r/Oracle/Middle ware/Oracle_Ho me			
	JAVA_HOME	Path where JAVA (JDK) is installed	/home/obapiuse r/jdk11_0_14			
	FLYWAY_HOME	Path where FLYWAY is installed	/home/obapiuse r/flyway-8.3			
	DB_WITH_FLYWAY_E XECUTION	Database execution type	YES or NO			
	GRADLE_HOME	Path where GRADLE is installed	/home/obapiuse r/gradle-7.9			
	MavenRepositoryUrl	Path where maven-repo under installer folder	\$installerDir/inst allables/maven- repo			
Weblogic server	GradleRepositoryUrl	Path where gradle-repo under installer folder	\$installerDir/inst allables/gradle- repo			
details	INSTALLATION_HOME	Path where OBAPI is to be installed. All configuration files will be copied as a sub-directory "config" under this directory. DO NOT KEEP INSTALLATION_HOME AS MiddlewareHome.	/home/obapiuse r/obapi			
	WLS_DOMAIN_PATH	Path where OBAPI Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obapiuse r/domains			
	WLS_CLUSTER_NAME	Name of cluster; this cluster would have one single managed server.	obapi_cluster			
	WLS_CLUSTER_NODE _HOSTNAME	Host name or IP address of managed server participating in the cluster. <b>Currently only single</b> <b>node is supported.</b>	abc.xyz.com			
	WLS_ADMIN_SERVER _PORT	Weblogic AdminServer port. It is the port to access the	7001			



Component	Parameter	Description	Example
		administration console of the Weblogic server. Generally port 7001 is used as the AdminServer port. Custom port are supported.	
	WLS_ADMIN_SERVER _SSL_PORT	AdminServer SSL port. It is the port used to securely access (https) the administration console of the Weblogic server.	7002
	WLS_NODE_PORT	Node Manager Port. It is the port used by Node Manager to be configured for OBAPI domain. Generally, 5556 is utilized as Node Manager Port. <b>Custom</b> <b>ports are supported.</b>	5556
	WLS_MS_SERVER_NA ME	Managed server name. This will be the name of the managed server created in the cluster followed by indexes. eg- If this is set as 'clip' managed servers would be clip1.	Clip
	WLS_MS_SERVER_PO RT	Managed Server Port. Managed server will utilize this port for hosting OBAPI components and associated resources. <b>Custom</b> <b>ports are supported.</b>	9001
	WLS_DOMAIN_NAME	Enter Weblogic Domain name.	obapi_domain1
	WLS_DOMAIN_ADMIN _USER	Domain user ID. The user id will be used to access the Weblogic Administration console.	weblogic
	WLS_NODE_TYPE	Weblogic Node Manager type	Plain/SSL
	WLS_MACHINE_NAME	Weblogic Node Manager machine name	obapi_machine
	APP_ROOT_DIR	Any empty directory path	/scratch/app/dir



Component	Parameter	Description	Example
	WLS_JMS_FILEUPLOA D_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the FileUpload JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/ FileUpload
	WLS_JMS_AUDIT_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the Audit JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/A udit
	WLS_JMS_REPORT_P S (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the Reports JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/R eports
	WLS_JMS_JPA_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the JPA JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/J PA
	WLS_JMS_EXTSYSRE CEIVER_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the ExtSystemReceiver JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/R eceiver
	WLS_JMS_EXTSYSSE NDER_PS (to be configured for all OBAPI supported HOST)	Set the paths for the persistent store of the ExtSystemSender JMS modules. DO NOT KEEP path as INSTALLATION_HOME or as sub directory inside INSTALLATION_HOME.	/scratch/obapi/S ender
OBAPI Application Administrator user details	OBAPI_ADMIN_USERN AME	Set username for OBAPI application Admin user. USERNAME IS CASE SENSITIVE. In-case of OUD as provider username should be the User ID mentioned during user creation steps mentioned in pre-requisite document (refer	superadmin



Component	Parameter	Description	Example	
		To create User and mapping it to the Group section)		
	OBAPI_ADMIN_EMAIL	Enter the Email ID for OBAPI application admin user.	superadmin@or acle.com	
	OBAPI_ADMIN_CONTA CT_NO	Enter the mobile number for OBAPI application admin user. COUNTRY CODE IS MUST.	+911234567890	

Note: Apart from above any other property values should not be modified

Ensure ORACLE\_HOME, JAVA\_HOME variable are set and their binaries are available in PATH variable before proceeding.

Login with OS user which was used to perform OBAPI pre-requisite software installation (or has ownership on Oracle Weblogic home directory)

Ensure OBAPI Installation home and filestore path's maintained in installer.properties exists and user running the installer has read-write permissions.



## Installation Steps:

[devops@obdxwls OBDX_Installer]\$ ls -la total 8								
drwxrwxrwx	6	1002	1012	118	Mav	4	15:40	
drwxr-xr-x								
drwxrwxrwx	2	1002	1012	6	May	4	09:03	ExecInstances
-rwxrwxrwx	1	1002	1012	0	May	4	09:05	initpy
drwxrwxrwx	5	1002	1012	60	May	4	09:05	core
drwxrwxrwx	5	1002	1012	69	May	4	09:03	framework
drwxrwxrwx	17	1002	1012	223	May	4	11:11	installables
								runInstaller.py _
[devops@obd	[devops@obdxwls OBDX_Installer]\$ python3.8 runInstaller.py							

• From your terminal navigate to <OBAPI INSTALLER DIR>/

• Enter the following command

## python3.8 runInstaller.py

Orac	le Banking Digital Exper	ience	Installer v22.2.0.0.0
Please select the installation type	from the options below		
	OBDX Installation		
	New Entity Creation		
	quit		
Use (†/1) to select between options			

Select the appropriate host system for Installation



#### Installation

		Oracle Banking Digital Experience		Installer v22.2.0.0.0
		system from the options listed below :		
		Oracle FLEXCUBE Universal Banking		
		Oracle FLEXCUBE Core Banking		
	Back		Quit	
		a		
Use $(\dagger/\downarrow)$ to select between (	options			

## Oracle FLEXCUBE Universal Banking (OBAPI with UBS)

Select Installation mode

		Oracle Banking Digital Experience		Installer v22.2.0.0.0
		llation mode from the options listed below :		
		New Installation		
		Reinstall		
		1		
	back	]	quit	
Use (:/i) to select between	options			

## Mode of Installation - New Installation

New installation

In-case of a fresh installation of OBAPI with appropriate host system for the first run on server.



_						
	Oracle Banking Digital Experience					
Ple (di diç	Installer v22.2.0.0.0 Installer v22.2.0.0.0 (digx-common.war,digx-admin.war,digx-infra.war,digx-eurekaserver.war,com.ofss.digx.connector.rar,digx-coherence.war,digx-auth.war,digx-extxfacesimulator.war, digx-shared-libs.war will be deployed by default.)					
[ <mark>×</mark> ]	digx-cms [X	] digx-payments	[X]			
[X]			[X]			
[X]	digx-creditfacility [X		[X]			
[X]			[X]			
[X]	digx-liquiditymanagement [X					
[X]	digx-loanapplication [X					
	submit	back		quit		
τ	lse (+/i) to select between options					

## **Type of Deployment**

Select the wars which you want to deploy. Some wars will be deployed by default. There are in total 25 wars.

Below screens would appear to taken end-user input

>
Valid.
Enter password for the OBDX_schema 'OBDX_OBDX22DOM1' :
ss
Valid.
Enter password for the weblogic domain user id 'weblogic' :
55
Valid.
Enter the password for the user with sys privileges of OBFM database 'sys' :
22
Valid.
Enter password for the OBFM schema 'COD144_ITR' (Existing) :
22
Valid.
Enter password for the OBFM schema 'BIA1_OBDX22DOM1' (new) :
55
Valid.
Enter password for the Admin User 'superadmin' :
»······
Valid. Use (1/1) keys to navigate between questions and press 'enter' after editing them

## Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- Weblogic console administrator user password
- SYS privilege user password where UBS host schema exists



- Existing UBS HOST schema password
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user (In-case of OUD as provider, password should be similar to one used while user creation in OUD (or User Password field))

## Third Party System (OBAPI with THP)

Post Third Party System selection, enter the required credentials details

Oracle Banking Digital Experience	Installer v22.2.0.0.
>>****	
Valid.	
Enter password for the OBDX schema 'OBDX_TESTINSTINNV2' :	
»»••••••	
Valid.	
Enter password for the weblogic domain user id 'weblogic' :	
»	
Valid.	
Enter password for the Admin User 'superadmin' :	
»»*******	

### Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- Weblogic console administrator user password
   OBAPI application admin user password

## Oracle FLEXCUBE Core Banking (OBAPI with FCORE)

Post Oracle FLEXCUBE Core Banking, enter the required credentials details



#### Installation

55
Valid.
Enter password for the OBEX schema 'CEEX_OBEX221DEV' :
S
Valid.
Enter password for the weblogic domain user id 'weblogic' :
»»••••••
Valid.
Enter the password for the user with sys privileges of FCR database "sys" :
»······
Valid.
Enter password for the FCCRE schema "BIA1_OBEX2215EV' (new) :
s
Valid.
Enter password for the Admin User 'superadmin' :
»·······
Valid.
Use $(1/2)$ keys to navigate between questions and press "enter" after editing them

## Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- Weblogic console administrator user password
- SYS privilege user password where FCORE host schema exists
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user

## Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)

Enter the required credentials details



»
Valid.
Enter password for the OBDX schema 'OBDX_OBDX22DOM1' :
»·····
Valid.
Enter password for the weblogic domain user id 'weblogic' :
»·····
Valid.
Enter the password for the user with sys privileges of OBPM database 'sys' :
»······
Valid.
Enter password for the OBFM schema 'COD144_ITR' (Existing) :
»······
Valid.
Enter password for the OBFM schema 'BIA1_OBDX22DOM1' (new) :
»·····
Valid.
Enter password for the Admin User 'superadmin' :
»······
Valid. Use ( $_{1/1}$ ) keys to navigate between questions and press 'enter' after editing them

#### Enter below passwords:

- SYS privilege user password where OBAPI schema would be created
- OBAPI schema password
- Weblogic console administrator user password
- SYS privilege user password where OBPM host schema exists
- Existing OBPM HOST schema password
- New OBAPI EHMS schema password
- Password for OBAPI application administrative user

## Mode of Installation – Reinstall

Please select the installation mode from the options listed below :					
	New Installation				
	Reinstall				
		quit			

In-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation user can opt for this option.

### **Pre-requisites**



- Weblogic domain processes should be down (i.e. AdminServer, NodeManager, Managed Servers, Derby etc)
- No open session (user should not be logged-in) with OBAPI database schema (and OBAPI EHMS schema in-case of OBAPI UBS;OBPM and FCORE flavor).

Over-write the policies files (Day0Policy.csv; Entitlement.csv; Resources.csv and Task.csv) from OBAPI Product zip into <OBAPI INSTALLER DIR>/installables/policies directory

## **Key pointers**

- OBAPI schema (and OBAPI EHMS schema in-case of OBAPI UBS flavor) would be dropped and recreated (as per installer.properties). Tablespace would be re-used.
- Weblogic domain (as per installer.properties) would be deleted and created again.
- Installation Home would be cleaned up (all files/ sub-directories would be deleted) and re-created again.

Note: All input screens are similar to new installation option and as per the host system opted.



## **Installation Status**

After selecting the mode and entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

## If DB\_WITH\_FLYWAY\_EXECUTION set to NO



## If DB\_WITH\_FLYWAY\_EXECUTION set to YES

[devops@obdxwls OBDX_Installer]\$ python3.8 runInstaller.py ['BASE', 'OBPM', 'New', 'MODULE']
>>>> STARTING OBDX PRODUCT INSTALLATION <<<<
<<<<< Please check the logs file available at ExecInstances/09May1817/logs/app for any error >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
We are excuting the db with DB_WITH_FLYWAY_EXECUTION=YES Starting OBDX Database Installation with OBPM FLAVOR Database Path: /u02/app/oracle/oradata/OFCDB009_bomlcq/OFCDB009_BOMlCQ/B2169F489B0C1E32E053C305F40A9E33/datafile Creating Tablespace Tablespace Created Creating User User Created Creating Role Role created Executing Grants OBEX Scripts execution on progessPlease hold on it might take sometime OBEX Scripts execution Successfully SUCCESSFULLY installed OBDX database
Starting OBFM Database Installation Database Path: /scratch/app/oradata/ORA19C Creating Tablespace Created Creating User User Created Created Created Roles Created Executing Grants Executing Grants Executing OBFM Grants OBFM Scripts execution on progessPlease hold on it might take sometime



Database Path: /u02/app/oracle/oradata/OFCDB009_bomlcq/OFCDB009_BOM1CQ/B2169F489B0C1E32E053C305F40A9E33/datafile Database Path: /u02/app/oracle/oradata/OFCDB009_bomlcq/OFCDB009_BOM1CQ/B2169F489B0C1E32E053C305F40A9E33/datafile Creating Tablespace Tablespace Created Creating User User Created Executing Grants Executing Grants Execution of clip_master_script_main.sql started Execution of clip_constraints_min.sql started Execution of clip_constraints_min.sql started Execution of clip_seds_executable_main.sql completed Execution of clip_seds_executable_main.sql completed
Starting OBFM Database Installation Database Path: /scratch/app/oradata/ORA19C Creating Tablespace Tablespace Created Creating Role Roles Created Executing Grants Executing OBFM Grants Executing OBFM Grants Execution of table-scripts_main.sql started Execution of table-scripts_main.sql started Execution of table-scripts_main.sql completed Execution of table-scripts_main.sql started Execution of table-scripts_main.sql started Execution of table-scripts_main.sql completed Execution of obm_ object_scripts_main.sql completed Execution of obm_object_scripts_main.sql completed Execution of obm_object_scripts_main.sql completed Execution of obm_object_scripts_main.sql completed Execution of obm_object_scripts_main.sql completed Execution of of execute-seeds_main.sql completed Execution of execute-seeds_main.sql started Execution of execute-seeds_main.sql started
Execution of obpa-seeds main.sql completed SUCCESSFULLY installed OBPM database Executed DIGK FW, CONFIG ALL, 0.sql successfully Executed DIGK FW, CONFIG USA, B.sql successfully Executed DIGK FW, CONFIG USA, D.sql successfully Executed DIGK FW, CONFIG USA, D.sql successfully Policy seeding execution processing

#### When the installation completes, the below message is displayed



Home

# 5. Installation using Silent Mode

This chapter describes how to run the OBAPI installer in silent mode.

## What is silent-mode installation?

During installation in silent mode, the installation program reads the details for your configuration parameters (flavor; mode; passwords etc) from the environment variables (same session in which installer is executed) and installer.properties that you set before beginning the installation. The installation program does not display any configuration options during the installation process.

## **Steps for Silent-Mode Installation**

- Download and extract the installer zip file (Base non localization version).
- Navigate to "<OBAPI INSTALLER DIR>/core/config"
- Open the "installer.properties" file to maintain key configurations for BASE ENTITY (OBDX\_BU)
   \*\*Refer to page 9 to 14 (step 4) for filling up installer.properties.
- Set the environment variables , as shown below

[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	FLAVOUR=OBPM
[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	MODE-New
[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	DB SYS PASSWORD=welcome1
[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	SCHEMA PASS=welcome1
[obdxdevops@ofss-mum-715 OBDX		
[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	DomainPassword=welcome1
		EHMS_DATABASE_SYS_PASS=ECM_sn12#
[obdxdevops@ofss-mum-715 OBDX	Installer]\$ export	EHMS HOST SCHEMA NAME FASS=COD144 ITRASDF
[obdxdevops@ofss-mum-715 OBDX		
[obdxdevops@ofss-mum-715 OBDX		
	[Installer]\$ export	wars_to_deploy=digx-cms.war,digx-corporateloan.war,digx-edx.war,digx-payments.war,digx-pfm.war,digx-pm.war,d
igg-retail.war		

Below parameters should be set as environment variables, depending on the Host system the installer should be executed.

Host	Parameter	Description	Example
Environment variables to set for flavor:UBSFC	FLAVOUR	Flavour for installation UBS for Oracle FLEXCUBE Universal Banking 146.0.0.0 (OBAPI with UBS)	export FLAVOUR=OBPM or export FLAVOUR=FCORE
ORE		FCORE for Oracle FLEXCUBE Core Banking 11.8.0.0.0 (OBAPI with FCORE)	



MODE	Mode of installation.	export MODE=New
	' <b>New</b> ' in-case of a fresh installation of OBAPI for the first run on server	or export MODE=Clean
	<b>'Clean'</b> in-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation or re- installation	
DB_SYS_PASSWORD	Sys user password of OBAPI database (Existing)	export DB_SYS_PASSWORD=obapi18 2sys
SCHEMA_PASS	Password for new schema on OBAPI database	export SCHEMA_PASS=obapi#182
DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadmn
EHMS_DATABASE_SY S_PASS	Sys user password of EHMS HOST database (Existing)	export EHMS_DATABASE_SYS_PASS =obapiehmssys
EHMS_HOST_SCHEM A_NAME_PASS ** Only required for UBS & OBPM Host. Ignore this parameter in-case of FCORE Host	Password of existing EHMS HOST schema (Existing)	export EHMS_HOST_SCHEMA_NAME _PASS =obapiehmshost
EHMS_SCHEMA_PASS	Password for new OBAPI EHMS schema on EHMS HOST database	export EHMS_SCHEMA_PASS=obapi1 82ehms
wars_to_deploy	Mention the optional wars to be deployed	export wars_to_deploy=digx- cms.war,digx- corporateloan.war,digx- payments.war



	DBAuthPassword	Password for new OBAPI Administrator user of OBAPI application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obapiadmn
	FLAVOUR	Flavour for installation <b>'OBAPI'</b> for Third Party System 1.0 (OBAPI with THP)	export FLAVOUR=OBAPI
Environment variables to set for flavor:	Mode	Mode of installation. <b>'New'</b> in-case of a fresh installation of OBAPI for the first run on server <b>'Clean'</b> in-case of an existing OBAPI installation that you want to overwrite OR in case of a previously failed installation or re- installation	export MODE=New or export MODE=Clean
OBAPI (Third-party HOST)	DB_SYS_PASSWORD	Sys user password of OBAPI database (Existing)	export DB_SYS_PASSWORD= obapi182sys
	SCHEMA_PASS	Password for new schema on OBAPI database	export SCHEMA_PASS=obapi#182
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadmn
	wars_to_deploy	Mention the optional wars to deployed	export wars_to_deploy=digx- cms.war,digx- corporateloan.war,digx- payments.war



DBAuthPassword	Password for new OBAPI Administrator user of OBAPI application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obapiadmn
----------------	---	------------------------------------

Run the runInstaller.py file with '--silent ' argument along with '--base' option

[devops@obdxwls OBDX\_Installer]\$ python3.8 runInstaller.py --silent

## **Installation Status**

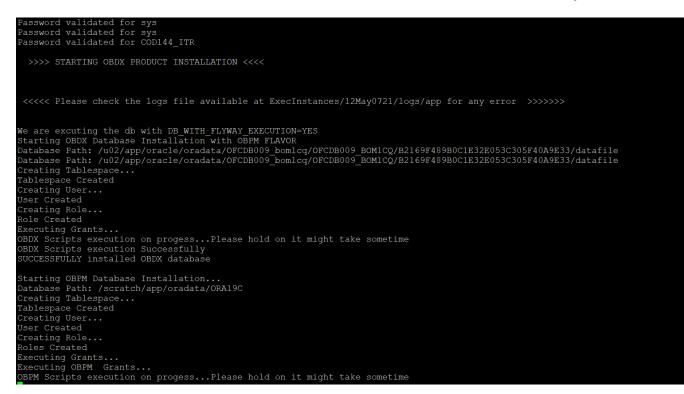
The status is displayed on the terminal to indicate the progress of the installation.

If DB\_WITH\_FLYWAY\_EXECUTION set to NO

>>>> STARTING OBDX PRODUCT INSTALLATION <<<<
<<<< Please check the logs file available at ExecInstances/12May0626/logs/app for any error >>>>>>
We are excuting the db with DB WITH FLYWAY EXECUTION=NO
We are excitting the do with DB_WIIn_FINANI_EARCOILON=NO Starting OBDX Database Installation with OBEPW FLAVOR
Database Fath: //U2/app/catal/contact/ofCDB009 bomlcg/OFCDB009 BOM1Cg/B2169F409B0C1E32E053C305F40A9E33/datafile
Database Path: /u2/app/oracle/oradat/OFCDB009 bomicg/OFCDB009 BoMICg/B2169F499B0C1B32B053C305F40A9B33/datafile
Creating Tablespace
Tablespace Created
Creating User
User Created
Creating Role
Role Created
Executing Grants
Execution of clip_master_script_main.sql started Execution of clip_master_script_main.sql completed
Execution of clip_master_script_main.sql started
Execution of chip_constraints_main.sql started Execution of chip_constraints main.sql completed
Execution of clip seds executable main.sql started
Execution of clip_seeds_executable_main.sql Scatted
SUCCESSFULLY installed OBDX database
Starting OBPM Database Installation
Database Path: /scratch/app/oradata/ORA19C
Creating Tablespace
Tablespace Created Creating User
User Created
Greating Role
Roles Created
Executing Grants
Executing OBPM Grants
Execution of table-scripts_main.sql started
Execution of table-scripts_main.sql completed
Execution of ubs_object_scripts_main.sql started
Execution of ubs_object_scripts_main.sql completed
Execution of obpm_object_scripts_main.sql_started
Execution of obpm_object_scripts_main.sql completed Execution of execute-seeds main.sql started

If DB\_WITH\_FLYWAY\_EXECUTION set to YES





#### When the installation completes, the below message is displayed

Gradle Build Created Successfully Starting Weblogic Domain Creation
Starting WEBLOGIC Setup and Configuration Weblogic Domain Created Successfully Senerating 2,048 bit DSA key pair and self-signed certificate (SHA256withDSA) with a validity of 9,999 days for: CN=Developer, OU=Department, O=Company, L=City, ST=State, C=CA [Storing /home/devops/domain/OBDX211TEST11/authserver.keystore]
<pre>Marning: The JCEKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format using "keytool -importkeystore -src keystore /home/devops/domain/OBDX211TEST11/authserver.keystore -destkeystore /home/devops/domain/OBDX211TEST11/authserver.keystore -deststoretype pkcs12". Starting Datasource Created Successfully Starting VBS Created Successfully Starting UBS Created Successfully Starting Deployemt Creation DMS created Successfully</pre>
Successfully Setup and Configured WEBLOGIC
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<
[devops@obdxwls OBDX_Installer]\$

Home



# 6. Installer Verification

Each execution creates a new directory as <DDMonthHHMM> under <OBAPI INSTALLER DIR>/ExecInstances directory where installer execution logs as described below are stored.

Log Description	РАТН	
Summarized Installer Activity Log	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/obapi_installer.log</ddmonthhhmm></obapi>	
Summarized Database Logs	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/DB_installation.log</ddmonthhhmm></obapi>	
Detailed OBAPI DB Logs per SQL file	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/OBAPI/OBAPI.log</ddmonthhhmm></obapi>	
Detailed EHMS schema Logs per	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/<ehmshost>/<ehmshost>.log</ehmshost></ehmshost></ddmonthhhmm></obapi>	
SQL file (specific to EHMS host system only)	<ehmshost> - values such as; FCORE; OBPM;</ehmshost>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/app/app_debug.log</ddmonthhhmm></obapi>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/app/domain.log</ddmonthhhmm></obapi>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/app/datasource.log</ddmonthhhmm></obapi>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/app/jms.log</ddmonthhhmm></obapi>	
Weblogic Configuration Logs	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/app/deployment.log</ddmonthhhmm></obapi>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/Entitlement.log</ddmonthhhmm></obapi>	
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/Task.log</ddmonthhhmm></obapi>	
Detailed OBAPI policy seeding logs	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/Dashboard_seed.log</ddmonthhhmm></obapi>	



Installer Verification

	Note: Check for SEVERE keyword; If found refer to Troubleshot section to re-run the policy
	<obapi installer<br="">DIR&gt;/ExecInstances/<ddmonthhhmm> /logs/db/seedPolicies.log</ddmonthhhmm></obapi>
Policy seeding execution Log	Note: Should be empty if no errors during policy execution. In-case non-empty refer to Troubleshot section to re-run the policy

Check all the logs for any errors.

<u>Home</u>



# 7. Installer Scope

OBAPI Installer currently covers below activities:

## Flavor: Third Party system (OBAPI with THP)

Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Create Tablespace	$\checkmark$	NA
		Create Schema and Role	$\checkmark$	$\sqrt{\text{(drop and recreate objects)}}$
		Grants		$\checkmark$
	OBAPI DB Setup	Load DB object (DDL's and DML's)		$\checkmark$
		Compile Schema	$\checkmark$	$\checkmark$
		Policy Seeding		$\checkmark$
	Weblogic Setup and Configuration	Create and Configure AdminServer, Machine, Managed Server and Cluster	$\checkmark$	$\checkmark$
OBAPI with THP		Configure NodeManager		$\checkmark$
		Configure JDBC		$\checkmark$
		JMS servers, Persistent stores and JMS Modules	$\checkmark$	$\checkmark$
		Application Deployment		$\checkmark$
		JTA		$\checkmark$
		Enable Production Mode		$\checkmark$
		Start AdminServer and NodeManager	$\checkmark$	$\checkmark$
	OBAPI Configuration	Copy config files into OBAPI Installation Home	~	√ (Delete old and copy new from installer zip)



Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Create Tablespace	$\checkmark$	NA
		Create Schema and Role	$\checkmark$	$\sqrt{(\text{drop and recreate objects})}$
		Grants	$\checkmark$	$\checkmark$
	OBAPI DB Setup	Load DB object (DDL's and DML's)	V	$\checkmark$
		Compile Schema	$\checkmark$	$\checkmark$
		Policy Seeding	$\checkmark$	$\checkmark$
		Create Tablespace	$\checkmark$	NA
	EHMS DB Setup	Create Schema and Role	$\checkmark$	(drop and recreate objects)
		Grants	$\checkmark$	$\checkmark$
OBAPI with FCORE		Load DB object (DDL's and DML's)	$\checkmark$	$\checkmark$
		Compile Schema	$\checkmark$	$\checkmark$
	Weblogic Setup and Configuration	Create and Configure AdminServer, Machine, Managed Server and Cluster	$\checkmark$	$\checkmark$
		Configure NodeManager	$\checkmark$	$\checkmark$
		Configure JDBC	$\checkmark$	$\checkmark$
		JMS servers, Persistent stores and JMS Modules		$\checkmark$
		Application Deployment	$\checkmark$	$\checkmark$
		JTA	$\checkmark$	$\checkmark$
		Enable Production Mode	$\checkmark$	$\checkmark$



Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Start AdminServer and NodeManager	$\checkmark$	$\checkmark$
	OBAPI Configuration	Copy config files into OBAPI Installation Home	$\checkmark$	$\sqrt{(\text{Delete old and copy new from installer zip)}}$



Flavor	Activity	Detailed Activity List	New Installation	Reinstall
OBAPI with OBPM (14.6.0.00 version)	OBAPI DB Setup	Create Tablespace	$\checkmark$	NA
		Create Schema and Role	$\checkmark$	(drop and recreate objects)
		Grants	$\checkmark$	$\checkmark$
		Load DB object (DDL's and DML's)		$\checkmark$
		Execute OBPM HOST specific scripts		$\checkmark$
		Compile Schema	$\checkmark$	$\checkmark$
		Policy Seeding	$\checkmark$	$\checkmark$
	EHMS DB Setup	Create Tablespace	$\checkmark$	NA
		Create Schema and Role	$\checkmark$	(drop and recreate objects)
		Grants	$\checkmark$	$\checkmark$
		Load DB object (DDL's and DML's)		$\checkmark$
		Compile Schema	$\checkmark$	$\checkmark$
	Weblogic Setup and Configuration	Create and Configure AdminServer, Machine, Managed Server and Cluster	1	$\checkmark$
		Configure NodeManager		$\checkmark$
		Configure JDBC	$\checkmark$	$\checkmark$
		JMS servers, Persistent stores and JMS Modules		$\checkmark$
		Application Deployment	$\checkmark$	$\checkmark$
		JTA	$\checkmark$	$\checkmark$
		Enable Production Mode	$\checkmark$	$\checkmark$



Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Start AdminServer and NodeManager	$\checkmark$	$\checkmark$
	OBAPI Configuration	Copy config files into OBAPI Installation Home	$\checkmark$	$\sqrt{(\text{Delete old and copy new from installer zip)}}$

Home



# 8. Post Installation Steps

### Outbound credential mappings

Login Weblogic Admin Console. Click on Deployments.

Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: 0			
View changes and restarts	Home >Summary of Deployments >com.ofss.digx.app.co Deployments >com.ofss.digx.connector.rar >Summary of	nnector >Roles >com.ofss.digx.connector.rar >Summary of De of Environment	eployments >com.ofss.digx.connector.rar >Roles >Summary of			
Click the Lock & Edit button to modify, ac delete items in this domain.	dd or Home Page					
Lock & Edit	- Information and Resources					
Release Configuration	Helpful Tools	General Information				
Domain Structure	<ul> <li>Configure applications</li> </ul>	Configure applications     Common Administration Task Descriptions				
	<ul> <li>Configure GridLink for RAC Data Source</li> </ul>	<ul> <li>Read the documentation</li> </ul>				
BDX_INS_TEST Domain Partitions	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>				
Environment	<ul> <li>Recent Task Status</li> </ul>					
Deployments	<ul> <li>Set your console preferences</li> </ul>					
Services Security Realms	Oracle Enterprise Manager					
-Interoperability	- Domain Configurations					
Diagnostics	Domain	Resource Group Templates	Interoperability			
	Domain	<ul> <li>Resource Group Templates</li> </ul>	WTC Servers			
			Jolt Connection Pools			
	Domain Partitions	Resource Groups				
	Domain Partitions	Resource Groups	Diagnostics			
low do I	Partition Work Managers		Log Files			
0w do 1		Deployed Resources	Diagnostic Modules			
Search the configuration	Environment	Deployments	<ul> <li>Built-in Diagnostic Modules</li> </ul>			
Use the Change Center	Servers		Diagnostic Images			

Click on com.ofss.digx.connector

### Click on Security Tab > Outbound Credential Mappings

ORACLE WebLogic Server Admin	nistratio	Console 14.1.1						
Change Center	🚹 Ho	me Log Out Preferences 🛃 Record H	lelp Q			Wel	come, weblogic	Conr
View changes and restarts	Home	>Summary of Deployments >com.ofss.digx.o	connector >Roles >Summary of Deployments					
Click the Lock & Edit button to modify, add or delete items in this domain.								
Lock & Edit Release Configuration  Domain Structure OBDX211TEST1  Environment Deployments EServices Security Realms ETheroperability	This You To in	an update (redeploy) or delete installed	ons and standalone application modules installed to this applications and modules from the domain by selecting loyment to targets in this domain, click <b>Install</b> .		ox next to ti	he application name and	d then using the co	ontrol
	Diagnostics Install Update Delete Showing			Showing 1	to 10			
		Name 💫		State	Health	Туре	Targets	Dej
		orm.ofss.digx.connector		Active	🖋 ОК	Resource Adapter	obdx_cluster	0
		E odigx-access		Active	🖋 ОК	Web Application	obdx_cluster	100
How do I			obdx_cluster	100				



ORACLE' WebLogic Server Ad	ministration Console 1	4.1.1					
Change Center	🔒 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of	of Deployments >com.ofss.digx	connector >F	Roles >Summary of Dep	oloyments >com.o	ofss.digx.connect	or >Roles > <b>com.ofss.dig</b> :
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for com.o	fss.digx.connector					
Lock & Edit	Overview Deplo	yment Plan Configuration	Security	Targets Control	Testing Mo	nitoring Notes	
Release Configuration	Roles Policies	Outbound Credential Ma	ppings Int	bound Principal Mappin	gs Principals		
Domain Structure OBDX211TEST1 Denvironment Deployments Desprives Security Realms Denteroperability Denteroperability Denteroperability		table					
	WLS User	ŵ		EIS User		Out	ound Connection Poo
					1	There are no iter	ns to display
	New Delete						

### Click on New

	ninistration Console 14.1.1			
Change Center	🚹 Home Log Out Preferences 🔤 Record Help			
View changes and restarts	Home >Summary of Deployments >com.ofss.digx.connector >Roles >Summary of Deployments >com.ofss.digx.co	connector >Roles		
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for com.ofss.digx.connector			
Lock & Edit	Overview Deployment Plan Configuration Security Targets Control Testing Monitoring	Notes		
Release Configuration	Roles         Policies         Outbound Credential Mappings         Inbound Principal Mappings         Principals			
Domain Structure       Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enter credential mappings for al outbound connection pools in the resource adapter, or specify particular for this resource adapter.         Depoyments       Services         Services       Customize this table         Impropreability       Outbound Credential Mappings         Depoyments       Outbound connection pools in the resource adapter, or specify particular for this resource adapter.         Depoyments       Customize this table         Impropreability       Outbound Credential Mappings         New       Delete				
	WL3 User	Outbound Connection		
	There are no items to display			
	New Delete			
How do I				

Select ra/DIGXConnectorAES > Next



View changes and restarts	Home >Summary of Deployments >com.ofss.digx.connector.rar >Roles >Summary of Deployments >com.ofss.digx.connector.rar >Summary of Deployments >com.ofss.digx.connector.rar >Summary of Deployments >com.ofss.digx.connector.rar				
Click the Lock & Edit button to modify, add or delete items in this domain.	Create a New Security Credential Mapping				
Lock & Edit Release Configuration	Back Next Finish Cancel				
Domain Structure DBDX_INS_TEST ⊕-Domain Partitions	Which Outbound Connection Pool would you like the credential map to be associated with? Selecting Resource Adapter Default will configure the credential mapping for all Outbound Connection Pools in this resource adapter. Each Outbound Connection Pool can then configure themselves to override these credentials.				
Environment     Topoloyments     Services	Customize this table Create a New Security Credential Map Entry for:				
Security Realms	Showing 1 to 10 of 11 Pr				
Interoperability     Diagnostics	Outbound Connection Pool 🗞				
- bigrouts	☑ ra/DIGXConnectorAES				
	a/DIGXConnectorAPNS				
	a/DIGXConnectorBIREPORTS				
	a ra/DIGXConnectorFCM				
How do I	a/DIGXConnectorFILEUPLOAD				
	a/DIGXConnectorGENERICREST				
<ul> <li>Create outbound credential mappings</li> </ul>	a/DIGXConnectorIPM_OBDX_BU				
System Status	a/DIGXConnectorIPM_OBDX_BU1				
	a ra/DIGXConnectorJWTOKEN				
Health of Running Servers as of 10:57 AM	ra/DIGXConnector/HERCHANT				

### Select "Default User" > Next

View changes and restarts	Home >Summary of Deployments >com.ofss.digv.connector.rar >Roles >Summary of Deployments >com.ofss.digv.connector.rar >Summary of Environment >Summary of Deployments >com.ofss.digv.connector.rar		
Click the Lock & Edit button to modify, add or delete items in this domain.	Create a New Security Credential Mapping		
Lock & Edit Release Configuration	Back Next Finish Cancel WebLogic Server User		
Domain Structure OBDX_INS_TEST  Domain Partitions  Froving the second se	Select the WebLogic Server user that you would like to map an EIS user to. Selecting 'User for creating initial connections' will configure the user that will be used for creating initial connections when the resource adapter is first started. Selecting 'Default User' will configure the user that will be used for any authenticated WebLogic Server a credential mapping specifically for them. Selecting 'User for unattentricated user' will configure the user that will be used for any authenticated WebLogic Server as credential mapping specifically for them. Selecting 'User for unattentricated user' will configure the user that will be used for an unauthenticated user' will configure the user that will be used for an unauthenticated WebLogic Server user.		
Deployments     Services     Services	User for creating initial connections     Perfault User		
	Unauthenticated WLS User		
	Configured User Name		
	WebLogic Server User Name:		
How do I	Back Next Finish Cancel		
Create outbound credential mappings			
System Status			
Health of Running Servers as of 10:59 AM			

### Enter "EIS User Name" should be set to AES\_KEY

Enter "EIS Password"	Password should be any	16 characters.
----------------------	------------------------	----------------

Change Center	🏦 Home Log Out Preferences 🔤 Record Help		
View changes and restarts	Home >Summary of Deployments >com.ofss.digx.connector >Roles >Summary of Deployments >com.ofss.digx.connector >Role		
Click the Lock & Edit button to modify, add or delete items in this domain.	Create a New Security Credential Mapping		
Lock & Edit	Back         Next         Finish         Cancel           EIS User Name and Password         Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:           * Indicates required fields		
Release Configuration			
Domain Structure OBDX211TEST1			
Deployments	Enter the EIS User Name:		
Services     Security Realms     There are a security for the secure security for the security for the security for the	* EIS User Name:		
	Enter the EIS Password:		
	* EIS Password:		
	* Confirm Password::		
How do I	Back Next Finish Cancel		



### Click 'Finish'

Back Next Finish Cancel					
EIS User Name and Password					
Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:	Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:				
* Indicates required fields					
Enter the EIS User Name:					
* EIS User Name:	AES_KEY	1			
	AES_KET				
Enter the EIS Password:					
		~			
* EIS Password:	•••••				
		_			
* Confirm Password::	•••••				
Back Next Finish Cancel					

### Check AES\_KEY mapping is created successfully.

Customize this table			
Outbound Credential Mappings			
New Delete			
🔲 WLS User 🗞	EIS User	Outbound Connection Pool	
Default	AES_KEY	ra/DIGXConnectorAES	
New Delete			

#### **Configuring the Connector Credential Store**

This step is required to setup the encryption key required for encryption of certain sensitive data within the OBAPI application.

For more information, refer the Oracle Banking APIs Connector Credential Store Guide.pdf

Functionality / Module	OutBound Connection Pool Name
VAM	ra/DIGXConnectorOBVAM

### **Fileupload with UBS**

Refer below document for File upload configuration with UBS

• Oracle Banking APIs File Upload Report Configuration

### **Origination with OBO**

Refer below document (section 5 and 6) for enabling Origination with OBO

Oracle Banking APIs OBO Mid-Office and Third Party Setup and Configuration Guide



### Trade Finance (LC and BG) with OBTFPM

Refer below document for enabling 'Letter Of Credit' issuance and 'Bank Guarantee' issuance with Oracle Banking Trade Finance Management.

Oracle Banking Mid-Office Product Setup and Configuration Guide

### <u>OHS</u>

OHS server needs to be configured for all FLAVOR's as a mandatory activity.

To configure OHS server follow steps mentioned in below document before proceeding further.

### Oracle Banking APIs OHS User Interface Configuration

### Feedback module:

In order to enable Scale (Rating) icons please refer the section **Creating Procedure** of **Oracle Banking APIs Content Upload Guide** user manual.

	Domainwise deployments			
Sr No	Module	Mandatory (Y/N)		
1	digx-admin	Y		
2	digx-common	Y		
3	digx-auth	Y		
4	digx-infra	Υ		
5	digx-coherence	Υ		
6	digx-eurekaserver	Υ		
7	digx-shared-libs	Υ		
8	digx-extxfacesimulator	Υ		
9	digx-cms	Ν		
10	digx-corporateloan	Ν		
11	digx-creditfacility	Ν		
12	digx-edx	Ν		
13	digx-kafkanotification	Ν		
14	digx-liquiditymanagement	Ν		
15	digx-loanapplication	Ν		
16	digx-payments	Ν		
17	digx-pfm	Ν		
18	digx-pm	Ν		
19	digx-processmanagement	Ν		

### WAR deployments



20	digx-retail	Ν
21	digx-scf	Ν
22	digx-scfcm	Ν
23	digx-tradefinance	Ν
24	digx-virtual-account	Ν

Home



# 9. OBAPI Logging Configuration

### Logging Level Configuration with SLF4J & Logback in Weblogic

Logging at package and class levels can be externalized/customized by maintaining a common logback file outside the application for all the wars. This file will be configured as a server start argument.

 Use the attached sample reference file and copy it to any physical path. (For example, /scratch/obapi/domains/obapi\_domain/logbackOverride.xml) Sample code :

### logbackOverride.xml

```
<configuration scan="true" scanPeriod="10 minutes">
    <appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">
        <!-- encoders are assigned the type
             ch.qos.logback.classic.encoder.PatternLayoutEncoder by
default -->
        <encoder>
            <pattern>%date{dd MMM yyyy;HH:mm:ss.SSS} [%thread] %X{ecid}
%-5level %logger{100}[%X{FILE IDENTIFIER} %X{FILE REF ID}] -
%msg%n</pattern>
        </encoder>
    </appender>
     <!--
     <logger name="com.ofss.digx.app.sms.service.user.login"
level="info"/>
    <logger name="com.ofss.digx.app.sms.service.user.User"
level="debug"/>
    -->
    <root level="ERROR">
        <appender-ref ref="STDOUT" />
    </root>
</configuration>
```

Configure the same above path in server start arguments as follows.
 Dlogback.configurationFile=/scratch/obapi/domains/obapi\_domain/logbackOverride.xml

### Enable package and class level logging :

If you want to change the logging level of a particular class or a package, you can do so by adding the following snippet in the external logback file and taking managed server restart. (Refer to the sample file)

- To configure package logging level:
   <logger name="com.ofss.digx.app.sms.service.user.login" level="info"/>
- To configure class logging level : <logger name="com.ofss.digx.app.sms.service.user.User" level="debug"/>



**Note:** In order to get the changes reflected without server restart, you can add a "scan" attribute to the <configuration> element in the external logback file. By default, the configuration file will be scanned for changes once every minute. To configure your desired scan period, add the attribute "scanPeriod" with value in milliseconds, seconds, minutes, or hours.

For example,

<configuration scan="true" scanPeriod="2 minutes">

This will scan for the configuration file every 2 minutes for any changes.

### Redirecting stdout and stderr logs into a log file :

To redirect standard out and error logs to a log file, please follow the below steps.

Login to Weblogic console → Take Lock & Edit session → Go to Servers inside Environment menu →

Click on the managed server  $\rightarrow$  Go to Logging tab  $\rightarrow$  Advanced  $\rightarrow$  Check the boxes "Redirect stdout logging enabled" and "Redirect stderr logging enabled" as shown below.

Platform Logger Levels:	Specifies the platform logger and the associated level names set through the WebLogic Server configuration. More Info
🕜 🛃 Redirect stdout logging enabled	Specifies whether the stdout of the JVM in which a WebLogic Server instance runs is redirected to the WebLogic logging system. When this attribute is enabled, the stdout content is published to all the registered log destinations, such as the server terminal console and log file. More Info
🕜 🛃 Redirect stderr logging enabled	Specifies whether the stderr of the JVM in which a WebLogic Server Instance runs is redirected to the WebLogic Logging system. When this attribute is enabled, the stderr content is published to all the registered log destinations, such as the server terminal console and log file. More Info
C Log monitoring enabled	Enable or disable log monitoring. More Info



# 10. OBAPI Product Verification

Start managed server and verify all deployed applications are in Active state (as shown below).

### Domainwise deployment wars status

		Deployments					
Install Update Delete Showing 1 to 25 of 25 Previous Next							
Name 🗞	State	Health	Туре	Targets	Deployment Order		
Scom.ofss.digx.connector	Active	🖋 ОК	Resource Adapter	obdx_cluster	0		
🗄 🦲 digx-admin	Active	🖋 ОК	Web Application	obdx_cluster	100		
🗄 👩 digx-auth	Active	🖋 ок	Web Application	obdx_cluster	100		
E digx-cms	Active	🖋 ок	Web Application	obdx_cluster	100		
E digx-coherence	Active	🖋 ОК	Web Application	obdx_cluster	0		
E digx-common	Active	🖋 ок	Web Application	obdx_cluster	100		
E digx-corporateloan	Active	🖋 ок	Web Application	obdx_cluster	100		
🗄 🥫 digx-creditfacility	Active	🖋 ОК	Web Application	obdx_cluster	100		
🗄 🥫 digx-edx	Active	🖋 ок	Web Application	obdx_cluster	100		
eurekaserver	Active	🖋 ОК	Web Application	obdx_cluster	100		
€      digx-extxfacesimulator	Active	🖋 ОК	Web Application	obdx_cluster	100		
🗈 🥫 digx-infra	Active	🖋 ОК	Web Application	obdx_cluster	100		
e digx-kafkanotification	Active	🖋 ОК	Web Application	obdx_cluster	100		
🗈 🥫 digx-liquiditymanagement	Active	🖋 ОК	Web Application	obdx_cluster	100		
e digx-loanapplication	Active	🖋 ОК	Web Application	obdx_cluster	100		
e digx-payments	Active	🖋 ОК	Web Application	obdx_cluster	100		
	Name          Rame          Rame	Name À       State         Name À       State         À consolis digx.connector       Active         B à digx-admin       Active         B à digx-admin       Active         B à digx-admin       Active         B à digx-admin       Active         B à digx-coherence       Active         B à digx-conmon       Active         B à digx-corporateloan       Active         B à digx-creditfacility       Active         B à digx-creditfacility       Active         B à digx-exetsfacesimulator       Active         B à digx-lanafification       Active         B à digx-lanafification       Active         B à digx-lanapplication       Active	Name À         State         Health           à connofss.digx.connector         Active         I active	Name $\diamond$ StateHealthType $\Diamond$ com.ofss.digx.connectorActive $\checkmark$ OKResource Adapter $\square$ digx.adminActive $\checkmark$ OKWeb Application $\square$ digx.adminActive $\checkmark$ OKWeb Application $\square$ digx.authActive $\checkmark$ OKWeb Application $\square$ digx.connectorActive $\checkmark$ OKWeb Application $\square$ digx.consActive $\checkmark$ OKWeb Application $\square$ digx.conrenceActive $\checkmark$ OKWeb Application $\square$ digx.conronActive $\checkmark$ OKWeb Application $\square$ digx.conronActive $\checkmark$ OKWeb Application $\square$ digx.conrontiteloanActive $\checkmark$ OKWeb Application $\square$ digx.conretificalityActive $\checkmark$ OKWeb Application $\square$ digx.eurekaserverActive $\checkmark$ OKWeb Application $\square$ digx.tafkanotificationActive $\checkmark$ OKWeb Application $\square$ digx.tafkanotificationActive $\checkmark$ OKWeb Application $\square$ digx.laquiditymanagementActive $\checkmark$ OKWeb Application	Name AStateHealthTypeTargets@corn.ofss.digx.connectorActiveP OKResource Adapterobdx_clusterB @digx.adminActiveP OKWeb Applicationobdx_clusterB @digx.authActiveP OKWeb Applicationobdx_clusterB @digx.consActiveP OKWeb Applicationobdx_clusterB @digx.consActiveP OKWeb Applicationobdx_clusterB @digx.consActiveP OKWeb Applicationobdx_clusterB @digx.conmonActiveP OKWeb Applicationobdx_clusterB @digx.conportatioanActiveP OKWeb Applicationobdx_clusterB @digx.conportatioanActiveP OKWeb Applicationobdx_clusterB @digx.conterineActiveP OKWeb Applicationobdx_clusterB @digx.conportatioanActiveP OKWeb Applicationobdx_clusterB @digx.conterineActiveP OKWeb Applicationobdx_clusterB @digx.co		

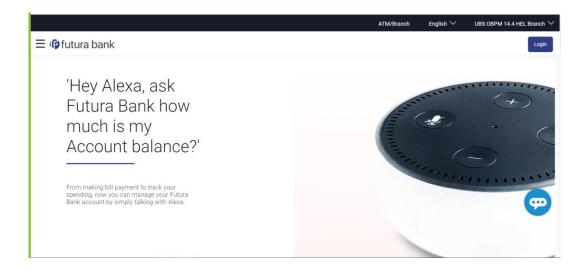
-						
	digx-extxfacesimulator	Active	🖋 ОК	Web Application	obdx_cluster	100
	🗄 🥫 digx-infra	Active	🖋 ок	Web Application	obdx_cluster	100
	🗈 🥫 digx-kafkanotification	Active	🖋 ок	Web Application	obdx_cluster	100
	e odigx-liquiditymanagement	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-loanapplication	Active	🖋 ок	Web Application	obdx_cluster	100
	🖲 🥫 digx-payments	Active	🖋 ок	Web Application	obdx_cluster	100
	🖲 🥫 digx-pfm	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-pm	Active	🖋 ок	Web Application	obdx_cluster	100
	i digx-processmanagement	Active	🖋 ок	Web Application	obdx_cluster	100
	🖲 🥫 digx-retail	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-scf	Active	🖋 ок	Web Application	obdx_cluster	100
	🖲 🥫 digx-scfcm	Active	🖋 ок	Web Application	obdx_cluster	100
	ngdigx-shared-libs (22.2.0.0.0,4208)	Active		Library	AdminServer, obdx_cluster	0
	🖲 🥫 digx-tradefinance	Active	🖋 ок	Web Application	obdx_cluster	100
	🖲 🥫 digx-virtual-account	Active	🖋 ок	Web Application	obdx_cluster	100
Inst	Install Update Delete Showing 1 to 25 of 25 Previous   Next					



To verify the installation, launch below URL

http://<OHS server ip or hostname>:<OHS port>

Check if the page loads successfully.



### Day1 Configuration

### Universal Banking Solution (OBAPI with UBS)

Refer below document (Section 3. System Configuration) for Day1 configuration required for integration with UBS

Oracle Banking APIs System Configuration

Once day1 is completed, application is available for end-user transactions.

**Note:** Post Day1 restart of Managed server is mandatory

### Third Party System (OBAPI with THP)

Refer below document (Section 5. System Configuration – Host System as Third Party) for Day1 configuration required for integration with Third-party System

Oracle Banking APIs System Configuration

Once day1 is completed, application is available for end-user transactions.

**Note:** Post Day1 restart of Managed server is mandatory



### **Chat Bot Configuration:**

Refer below document for Chat Bot configuration.

Oracle Banking APIs Chatbot Configuration

### Mobile Application Builder:

Refer below documents for Mobile Applications build and setup.

Oracle Banking APIs Mobile Application Builder-Android

Oracle Banking APIs Mobile Application Builder-iOS

### Mid Office Configuration:

# Refer below document for Mid Office Configurations i.e. Trade Finance, Corporate Lending.

Oracle Banking Mid-Office Product Setup and Configuration Guide.

### Account Uniqueness Configuration:

Some core banking systems support same account number in multiple branches within the entity. OBAPI has support for such core banking systems. However, the configuration is not enabled by default. In case the Bank has core banking system which supports and provides same account numbers across multiple branches, the following scripts should be executed per entity for enabling the support.

```
Insert into DIGX_FW_CONFIG_ALL_0 (PROP_ID, PREFERENCE_NAME, PROP_VALUE,
DETERMINANT_VALUE, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY,
LAST_UPDATED_DATE)
values
('obapi.host.account.uniqueness','ExtSystemsConfig','BRANCH','<ENTITY_ID>','ofss
user',sysdate,'ofssuser',sysdate);
Insert into DIGX_FW_CONFIG_ALL_0 (PROP_ID, PREFERENCE_NAME, PROP_VALUE,
DETERMINANT_VALUE, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY,
LAST_UPDATED_DATE)
values
('obapi.host.accountbranch.delimiter','ExtSystemsConfig','@~','<ENTITY_ID>','ofs
suser',sysdate,'ofssuser',sysdate);
```

**Note:** Please ensure that <ENTITY\_ID> has been replaced with correct Entity ID for the corresponding entity.

Home



## 11. Multi Entity

To add entity to existing OBAPI with supported host system follow below steps.

- Add entity through OBAPI Web application, using
  - > User Manual Oracle Banking APIs System Configuration User Manual
- In case of OBTFPM integration, following document should be referred.
- Oracle Banking Mid-Office Product Setup and Configuration Guide Running OBAPI installer

Ensure that Managed server should be down and Admin server should be running state.

Ensure ORACLE\_HOME, JAVA\_HOME variable are set and their binaries are available in PATH variable before proceeding.

Login with OS user which was used to perform OBAPI software installation (or has ownership on Oracle Weblogic home directory)

Ensure OBAPI installation details (OBAPI DB; WLS etc) are maintained in installer.properties and user running the installer has read-write permissions.

- From your terminal navigate to <OBAPI INSTALLER DIR>
- Enter the following command

### python3 runInstaller.py

Select installation type as 'New Entity Creation'

Below screen will appear after selecting add entity



Enter below information:

- Entity code which has been added from screen
- OBAPI schema password



If an entity code belongs to UBS / OBPM host following screen (below screenshot are for OBPM ; for UBS same input are required) will appear:

Enter the OBFM DB hostname :
2 <mark>.</mark>
Enter the OBFM DB port :
»
Enter the OBFM SID :
>
Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
>>
Enter the username with 'sys' privileges :
Enter password for the user with sys privileges :
anti puoverta koi une unet esti ope printingute .
Enter existing weblogic admin password :
>>
Üse (1/i) keys to navigate between questions and press 'enter' after editing them
Enter the OBPM DB hostname :
>>whf00jml_in.oracle.com
Valid.
Valid. Enter the OBFM DB port :
Valid. Enter the OBEM DB port : >>1522
Valid. Enter the OBFM DB port : >>1522 Valid.
Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID :
Valid. Enter the OBFM DB port : >>1522 Valid.
Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral%c.in.oracle.com
Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral%c.in.oracle.com Valid.
Valid. Enter the OBEN DB port : >>1522 Valid. Enter the OBEN SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid.
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges :
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral@c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>sys
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral@c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>rgs_ Valid. Enter the username with 'sys' privileges :
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral9c,in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>xyo Valid. Enter the username with 'sys' privileges :
Valid. Enter the OBEN DB port : >>5522 Valid. Enter the OBEN SID : >>oral9c,in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>sys Valid. Enter the user with sys privileges : >>sys

Enter below details:

- Hostname of the database host server
- Port of the database host server
- Host database Service Name
- Oracle directory name in which you want the database datafile (dbf) to be created. Enter only the name NOT the path.
- Username with 'sys' privileges
- SYS privilege user password where UBS schema would be created
- Weblogic console administrator user password



Enter the existing OBFM host schema name :
Enter the password for existing OBFM host schema :
Enter new OBPM BlAl schema name :
Enter new schema password :
Enter country code :

Enter below details:

- EXISTING Host schema name
- Password for EXISTING schema
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New schema
- Country Code of entity branch

### Installation Status in case of UBS / OBPM

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

```
[chinduspectant controls of DBDX_Installer]$ python3 runInstaller.py
Starting OBPM Database Installation...
Creating Tablespace...
Tablespace Created
Creating User...
User Created
Creating Role...
Roles Created
Executing Grants...
Executing OBPM Grants...
OBPM Scripts execution on progess...Please hold on it might take sometime
Scripts execution Successfully
SUCCESSFULLY installed OBPM database
Executed DIGX_FW_CONFIG_ALL_0.sql successfully
```

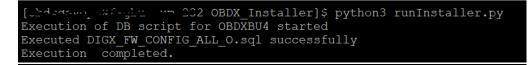
When the installation completes, the below message is displayed



```
Starting Entity Configuration
Calling WLST
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
Connecting to 13://100.76.133.230:7001 with userid weblogic ...
Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDX211TEST".
Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.
Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit().
For more help, use help('edit').
Creating Data source OBDXBU2_BIAI
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
OBDXBU2_BIAI created successfully.
Exiting WebLogic Scripting Tool.
Entity successfully configured.
```

Post successful installation refer to "Section 8: Post Installation steps" for manual steps to be performed for UBS additional entity (sub-section : Oracle FLEXCUBE Universal Banking (OBAPI with UBS)).

### If an entity code belongs to Third-party host following screen will appear:



### No additional steps/ configuration are required.

If an entity code belongs to Oracle FLEXCUBE Core Banking host following screen will appear:



Enter the FCORE DB hostname :
8
Enter the FCORE DB port :
»>
Enter the FCORE SID :
>
Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
»
Enter the username with 'sys' privileges :
>
Enter password for the user with sys privileges :
≫
Enter existing weblogic admin password :
>>
Dec (1/j) keys to navigate between questions and press 'enter' after editing them

Enter the FCORE DB hostname :				
>>mumaa012.in.oracle.com				
Valid.				
Enter the FCORE DB port :				
>>1520				
Valid,				
Enter the FCORE SID :				
>>bbdkhst.in.oracle.com				
Valid.				
Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :				
>>T85_DIR				
Valid.				
Enter the username with 'sys' privileges :				
Sbaya				
Valid.				
Enter password for the user with sys privileges :				
\$>				
Valid.				
Enter existing weblogic admin password :				
S				
Valid. Use (1/1) keys to navigate between questions and press 'enter' after editing them				

Enter below details:

- Hostname of the FCORE database host server
- Port of the FCORE database host server
- FCORE Host database Service Name
- Oracle directory name in which you want the database datafile (dbf) to be created. Enter only the name NOT the path.
- Username with 'sys' privileges
- SYS privilege user password where FCORE schema would be created
- Weblogic console administrator user password



Enter the existing FCR schema name :	
2	
Enter the existing FCUBS schema name :	
>	
Enter new FCORE schema name :	
»	
Enter new schema password :	
2	
Use $(1/j)$ keys to navigate between questions and press 'enter' after editing them	
Enter the existing FCR schema name :	
>>FCRH0ST	
Valid.	
Valid. Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :  SFCRUBSHOST Valid.	
Enter the existing FCUBS schema name :  SFCRUBSHOST Valid. Enter new FCORE schema name :	
Enter the existing FCUBS schema name : >>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST	
Enter the existing FCUBS schema name :  >>FCRUBSHOST Valid. Enter new FCORE schema name :  >>FCRUSTIST Valid. Valid.	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name : >>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
Enter the existing FCUBS schema name : >>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name : >>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name :	

Enter below details:

- EXISTING FCORE HOST schema name
- EXISTING FCORE FCUBS schema name
- Complete EHMS (HostInterface) schema name you want installer to create as new schema
- Password for New EHMS schema



### Installation status for FCORE Add entity

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

#### Starting Entity Configuration

#### Calling WLST

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Connecting to t3://100.76.133.230:7001 with userid weblogic ... Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDX211TEST".

Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree. This is a writable tree with DomainMBean as the root. To make changes you will need to start an edit session via startEdit(). For more help, use help('edit').

Creating Data source OBDXBU3\_B1A1 Starting an edit session ... Started edit session, be sure to save and activate your changes once you are done. Activating all your changes, this may take a while ... The edit lock associated with this edit session is released once the activation is completed. Activation completed OBDXBU3\_B1A1 created sucessfully.

Exiting WebLogic Scripting Tool.

Entity successfully configured.

### No additional steps/ configuration are required.

Post successful installation refer to "Section 8: Post Installation steps" for manual steps to be performed for OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM)).



# 12. Multi-entity installation using Silent Mode

This chapter describes how to run the OBAPI installer for add entity in silent mode.

Ensure that Managed server should be down and Admin server should be running.

Ensure ORACLE\_HOME, JAVA\_HOME variable are set and their binaries are available in PATH variable before proceeding.

Login with OS user which was used to perform OBAPI software installation (or has ownership on Oracle Weblogic home directory)

### Steps for Silent-Mode Installation

• Set the environment variables, as shown below.

OBDX_Installer]\$ expo	ort Entity_Code=OBDX_BU7
OBDX_Installer]\$ expo	ort SCHEMA PASS=welcome1
OBDX Installer]\$ expo	rt ENTITY_EHMS_DATABASE_HOSTNAME=hostanme.in.oracle.com
OBDX_Installer]\$ expo	ort ENTITY EHMS DATABASE PORT=1520
OBDX_Installer]\$ expo	ort ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com
OBDX Installer]\$ expo	ort ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR
OBDX_Installer]\$ expo	ort ENTITY_EHMS_DATABASE_SYS_USER=sys
OBDX_Installer]\$ expo	ort ENTITY_EHMS_DATABASE_SYS_PASS=welcomel
OBDX_Installer]\$ expo	ort ENTITY_EHMS_SCHEMA_NAME=welcomel
OBDX_Installer]\$ expo	ort ENTITY_EHMS_SCHEMA_PASS=welcome1
OBDX_Installer]\$ expo	ort ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140
OBDX_Installer]\$ expo	ort ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=welcome1
OBDX_Installer]\$ expo	ort WLS_DOMAIN_PASS=welcome1
OBDX_Installer]\$ expo	ort ENTITY_EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140
OBDX_Installer]\$ expo	ort ENTITY_EHMS_CCY=GB
OBDX_Installer]\$ pyth	on runInstaller.pysilentaddEntity

Below parameters should be set in environment variables

	Parameter	Description	Example
Environment variables to	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
set for flavor: FCORE UBS (14.6.0.0.0 release)	SCHEMA_PASS	Password for existing OBAPI schema	export SCHEMA_PASS=devops#ob api182
OBPM (14.6.0.0.0 release)	ENTITY_EHMS_DAT ABASE_HOSTNAM E	Hostname of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_ HOSTNAME=xx.xx.xx.xx



	Parameter	Description	Example
	ENTITY_EHMS_DAT ABASE_PORT	Port of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_ PORT=1521
	ENTITY_EHMS_DAT ABASE_SID	EHMS Host database Service Name	export ENTITY_EHMS_DATABASE_ SID=obapidb.in.oracle.com
	ENTITY_EHMS_DB A_DIRECTORY_NA ME	Oracle Directory name in which you want the EHMS (HostInterface) schema datafile (dbf). Enter only the name	export ENTITY_EHMS_DBA_DIREC TORY_NAME=TBS_DIR
		and NOT the path	
	ENTITY_EHMS_DAT ABASE_SYS_USER	Username with 'sys' privileges	export ENTITY_EHMS_DATABASE_ SYS_USER=sys
	ENTITY_EHMS_DAT ABASE_SYS_PASS	Password for EHMS sys user	export ENTITY_EHMS_DATABASE_ SYS_PASS=devops@sys
	ENTITY_EHMS_SCH EMA_NAME	Complete EHMS (HostInterface) schema name you want installer to create as new schema.	export ENTITY_EHMS_SCHEMA_N AME=OBAPIEHMS
	ENTITY_EHMS_SCH EMA_PASS	Password for new EHMS schema on EHMS HOST database	export ENTITY_EHMS_SCHEMA_P ASS=devops#ehms
	ENTITY_EHMS_HO ST_SCHEMA_NAME	EXISTING EHMS Host schema name	export ENTITY_EHMS_HOST_SCHE MA_NAME=EHMSHOST



	Parameter	Description	Example
	ENTITY_EHMS_HO ST_SCHEMA_NAME _PASS	Password of existing HOST EHMS schema (Existing)	export ENTITY_EHMS_HOST_SCHE MA_NAME_PASS=ehmshst
	**This parameter is only required for UBS & OBPM Host		
	WLS_DOMAIN_PAS S	Password for Weblogic admin console	export WLS_DOMAIN_PASS=weblo gic182
	ENTITY_EHMS_CCY **This parameter is only required for UBS & OBPM Host	Country Code for new or additional entity home branch	export ENTITY_EHMS_CCY=GB
	ENTITY_EHMS_FCO RE_FCUBS_SCHEM A_NAME **This parameter is only required for FCORE	FCORE-FCUBS HOST schema name	export ENTITY_EHMS_FCORE_FCU BS_SCHEMA_NAME=FCRU BSHOST
Environment variables to set for flavor: OBAPI (Third- party HOST)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU1
	SCHEMA_PASS	Password for existing OBAPI schema	export SCHEMA_PASS=welcome1

• Run the runInstaller.py file with '--silent ' argument along with '--addEntity'



[devops@	/]\$
[devops@	/]\$ export Entity_Code=OBDX_BU7
[devops@	/]\$ export SCHEMA_PASS=devops#obdx182
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_HOSTNAME= ××.××.××.××</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_PORT=1521</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_SYS_USER=sys</pre>
[devops@	/]\$ export ENTITY_EHMS_DATABASE_SYS_PASS=devops@sys
[devops@	<pre>/]\$ export ENTITY_EHMS_SCHEMA_NAME=OBDXEHMS</pre>
[devops@	/]\$ export ENTITY_EHMS_SCHEMA_PASS=devops#ehms
[devops@	<pre>/]\$ export ENTITY_EHMS_HOST_SCHEMA_NAME=FCUBS140</pre>
[devops@	<pre>/]\$ export ENTITY EHMS_HOST_SCHEMA_NAME_PASS=FCUBS140HST</pre>
[devops@	/]\$ export WLS_DOMAIN_PASS=weblogic182
[devops@	/]\$ export ENTITY_EHMS_CCY=GB
[devops@	/]\$ python runInstaller.pysilentaddEntity

# Installation Status in case of Oracle FLEXCUBE Core Banking, Oracle FLEXCUBE Universal Banking, Oracle FLEXCUBE Universal Banking with Oracle Banking Payments

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

When the installation completes, the below message is displayed

Starting Entity Configuration Calling WLST Initializing WebLogic Scripting Tool (WLST) ... Welcome to WebLogic Server Administration Scripting Shell Type help() for help on available commands Connecting to 13://100.76.133.230:7001 with userid weblogic ... Successfully connected to Admin Server "AdminServer" that belongs to domain "OBDX211TEST". Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead. Location changed to edit tree. This is a writable tree with DomainMBean as the root. To make changes you will need to start an edit session via startEdit(). For more help, use help('edit'). Creating Data source OBDXBU2\_BIAL Starting an edit session ... Started edit session ... Started edit session ... The edit lock associated with this edit session is released once the activation is completed. Activation completed OBDXBU2\_BIAL created successfully. Exiting WebLogic Scripting Tool. Entity successfully configured.

Post successful installation refer to "Section 8: Post Installation steps" for manual steps to be performed for

- UBS additional entity (sub-section : Oracle FLEXCUBE Universal Banking Solution (OBAPI with UBS))
- OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM))



### Installation Status in case of other hosts as Add Entity

After entering all required details, the status is displayed (as shown below) on the terminal to indicate the progress of the installation.

• THP(third party as entity)

```
(devops(______OBDX_Installer)$ python runInstaller.py --silent --addEntity
Password validated for OBDX_103IN3
Execution of DB script for OBDX_BU1 started
Executed DIGX_FW_CONFIG_ALL_O.sql successfully
Execution completed.
```



# 13. OBAPI Product Security

Refer below document for OBAPI product security configuration

Oracle Banking APIs Security Guide

Home



## 14. OBAPI Product – Best Practice

### 14.1 Tablespace for AUDIT INDEX

The index's used by AUDIT table should be moved into new tablespace from current AUDIT tablespace.

Follow below steps

- > Create a new tablespace
- Give quota to OBAPI schema

alter user <OBAPI\_SCHEMA> quota unlimited on <OBAPI\_AUDIT\_INDEX\_TABLESPACE>;

- > Drop and create below index by mapping the newly created tablespace
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_API\_AUDIT\_LOGGING.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_API\_AUDIT\_LOG\_HIST.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX\_DIGX\_AL\_AUDIT\_LOGGIN G.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_AUDIT\_LOGGING\_1.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_AUDIT\_LOGGING\_2.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_AUDIT\_LOGGING\_3.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\ IDX\_DIGX\_AL\_AUDIT\_LOGGING\_4.sql
  - OBAPI\_Installer\installables\db\OBAPI\ddl\oracle\audit\IDX\_DIGX\_AL\_AUDIT\_LOGGIN G\_DETAILS.sql

<u>Home</u>



## 15. JPA and OBAPI multi-cluster

In a multi-cluster environment, below JPA related changes should be implemented

- > Go to Weblogic server
- > Open config\META-INF\persistence.xml
- > Append below configuration for all data-source

<property name="eclipselink.cache.coordination.jms.host" value="t3://<WEBLOGIC-HOST-NAME OR IP>:<MANAGED-SERVER-PORT>/" />

Replace with respective hostname or IP and Port no (this should be the managed server port number which hosts the JPA queues in the cluster)

### Key pointers;

- > Multi-cluster here refer's to :
  - Single cluster with multiple nodes (2 or more physical servers hosting the OBAPI product)
  - 2 or more Weblogic cluster's
- Ensure these (persistence.xml) changes are available to all Managed server by maintaining appropriate classpath

<u>Home</u>



### 16. Troubleshoot Overview

This section describes how to troubleshoot OBAPI setup.

### Invalid database password

This topic contains troubleshooting information if you receive an error when attempting to connect to the database server.

If you get the following error:



Try one of the following:

- Verify that the database is running.
- Check Network connectivity between Weblogic Server and Database server.
- Check the database configuration in installer.properties file
- Verify that the entered password is correct.

#### cx\_oracle module

This topic contains troubleshooting information about problems with cx\_Oracle python module.

If you get the following error:





Execute the below command:

export LD\_LIBRARY\_PATH=/usr/lib/oracle/19.10/client64/lib:\$LD\_LIBRARY\_PATH

python

import cx\_Orace

cx\_Oracle.\_\_version\_\_

[devops@ /	]\$ export LD_LIBRARY_PATH=/usr/lib/oracle/18.3/client64/lib/:\$LD_LIBRARY_PATH
[devops@ /	/]\$ python
Python 2.7.5 (def	Fault, Apr 11 2018, 17:41:36)
[GCC 4.8.5 201506	523 (Red Hat 4.8.5-28.0.1)] on linux2
Type "help", "cop	pyright", "credits" or "license" for more information.
>>> import cx_Ora	acle
>>> cx_Oraclev	version
'7.3.0'	

### Failed Database Scripts

This topic contains troubleshooting information in case of database script failures.

If you get the following error in DB\_installation.log:

2017-07-13 13:45:41,051 DEBUG Executed /scratch/jenkins/OBDX\_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTFORMATS.sql successful 2017-07-13 13:45:41,081 DEBUG Executed /scratch/jenkins/OBDX\_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstdevice.sql successful 2017-07-13 13:45:41,747 DEBUG Executed /scratch/jenkins/OBDX\_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYUSERTYPELANG.sql successful 2017-07-13 13:45:41,747 DEBUG Executed /scratch/jenkins/OBDX\_Installer/ExecInstances/13Jul1338/db/UBS/seed/MSTENTITYUSERTYPELANG.sql successful 2017-07-13 13:45:41,796 ERROR Executed /scratch/jenkins/OBDX\_Installer/ExecInstances/13Jul1338/db/UBS/seed/mstlang.sql failed

Check the detailed log of the failed SQL file at <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM> /logs/db folder.

### Failure of Policy Seeding

This topic contains troubleshooting information if policy seeding fails during installation.

If you get the following error:

Policy seeding failed. Please see logs for more details

Try one of the following:

Check if Entitlement.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Entitlement policy seeding.

Check if Task.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Task policy seeding.

Check if Dashboard\_seed.log is created on following path <OBAPI INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Dashboard policy seeding.



Check the seedPolicies.log in <OBAPI INSTALLER</li>
 DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ directory if it contains any runtime errors generated during execution of the policies Seeding in OBAPI schema

Fix the problem by following below steps:

- Login to OBAPI installer server
- Over-write the policies files (Day0Policy.csv; Entitlement.csv; Resources.csv and Task.csv) from OBAPI Product zip into <OBAPI INSTALLER DIR>/installables/policies directory
- Browse to <OBAPI INSTALLER DIR>\ installables\policies
- Edit Entitlement\_log4j.properties , Task\_log4j.properties & Dashboard\_seed\_log4j.properties . Replace <logs\_path> with directory where policy seeding logs will be generated

```
e.g
# default file output is in user's home directory.
"java.atil.logging.Filchandler.puttern %"/java%a.log
java.util.logging.FileHandler.pattern = <logs_path>/Task.log
java.util.logging.FileHandler.limit = 50000
java.util.logging.FileHandler.count = 1
#java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter
java.util.logging.FileHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format= [%1$tc] %4$s: %2$s - %5$s %6$s%n
# Limit the message that are printed on the console to INFO and above.
java.util.logging.ConsoleHandler.level = OFF
java.util.logging.ConsoleHandler.formatter = java.util.logging.SimpleFormatter
# default file output is in user's home directory.
#java.util.logging.FileHandler.pattern = %h/java%u.log
java.util.logging.FileHandler.pattern = /scratch/Task.log
java.util.logging.FileHandler.limit = 50000
Java.utll.logging.FileHandler.count = 1
#java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter
java.util.logging.FileHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format= [%1$tc] %4$s: %2$s - %5$s %6$s%n
```

Run below command manually if "SEVERE" error logs are found in Task.log

java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.feed.data.task.jar "Task.csv" "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI Service Name>"



for e.g.:

java -jar -Djava.util.logging.config.file='Task\_log4j.properties' com.ofss.digx.utils.feed.data.task.jar 'Task.csv' "oracle.jdbc.OracleDriver,OBAPI\_THP181,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx:1521/OBAPI"

> Run below command manually if "SEVERE" error logs are found in Entitlement.log

java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.entitlement.feed.data.jar 'Resources.csv,Entitlement.csv,Day0Policy.csv' 'KERNEL' "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI Service Name>"

for e.g.:

java -jar -Djava.util.logging.config.file='Entitlement\_log4j.properties' com.ofss.digx.utils.entitlement.feed.data.jar 'Resources.csv,Entitlement.csv,Day0Policy.csv' 'KERNEL' "oracle.jdbc.OracleDriver,OBAPI\_THP201,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx:1521/OBAPI"

Note: Please remove the space between multiple csv's if there is any.

> Run below command manually if "SEVERE" error logs are found in Dashboard\_seed.log

java -jar -Djava.util.logging.config.file='<logs.properties>' com.ofss.digx.utils.dashboard.jar '<path>/ dashboard\_json' "oracle.jdbc.OracleDriver,<OBAPI Schema name>,<OBAPI Schema password>,jdbc:oracle:thin:@<OBAPI DB hostname or IP>:<OBAPI DB listener port>/<OBAPI Service Name>"

for e.g.:

java -jar -Djava.util.logging.config.file= Dashboard\_seed\_log4j.properties' com.ofss.digx.utils.dashboard.jar '/installables/policies/dashboard\_json' "oracle.jdbc.OracleDriver,OBAPI\_THP201,Welcome#1,jdbc:oracle:thin:@xx.xx.xx:1521/OBAPI

> Post successfully execution, restart Managed server.

<u>Home</u>

