Installation Guide Oracle Banking APIs Patchset Release 21.1.1.0.0

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Installation Guide June 2021

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

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 Related Information Sources

For more information on Oracle Banking APIs Patchset Release 21.1.1.0.0, 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

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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.

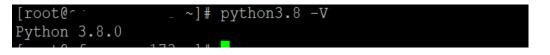
rpm -qa | grep oracle

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_______172 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@~ -	_	~]#	python3.8	-V
Python 3.8.0				
	170	ה 1		

Step2: Once above steps are executed successfully install the following required modules.

pip3.8 install --upgrade pip

pip3.8 install cx-Oracle==8.1.0

root@oPython-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/f63cf2cee42b32874af13f0a2deb5d4a1448b2fc39bff36ab11e3369f00c/cx_Oracle-8.1.0-cp38-cp38-manylinux1
x86 64.whl (825kB)
I 829kB 138kB/s
installing collected packages: cx-Oracle
Successfully installed cx-Oracle-8.1.0

pip3.8 install urwid==2.1.2

[root@c_ ~~ Python-3.8.0]# pip3.8 in	stall urw	rid==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 pac	kage 'wheel'	is not :	installed.	
Installing collected packages: urwid					
Running setup.py install for urwid	done				
Successfully installed urwid-2.1.2					

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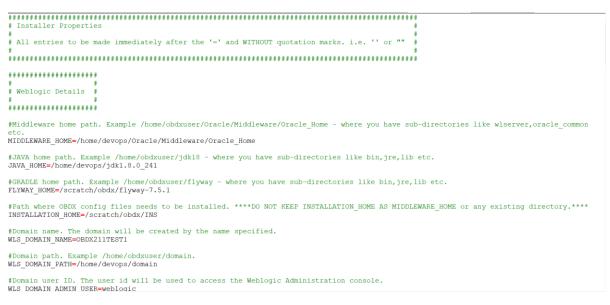
4. Installation

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 Service Name 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'. SHOULD BE IN UPPERCASE ONLY.	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. DIRECTORY_NAME column) from DBA_DIRECTORIES 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. DIRECTORY_NAME column) from DBA_DIRECTORIES 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. DIRECTORY_NAME column) from DBA_DIRECTORIES 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	OBDXUBS
	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



			Installa
Component	Parameter	Description	Example
	MIDDLEWARE_HOM E	Oracle Weblogic Server home path. Example /home/obapiuser/Oracle/Middleware/ 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/jdk18
	FLYWAY_HOME	Path where FLYWAY is installed	/home/obapiuse r/flyway-7.9.2
	INSTALLATION_HO ME	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_PAT H	Path where OBAPI Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obapiuse r/domains
Weblogic server details	WLS_CLUSTER_NA ME	Name of cluster; this cluster would have one single managed server.	obapi_cluster
	WLS_CLUSTER_NO DE_HOSTNAME	Host name or IP address of managed server participating in the cluster. Currently only single node is supported.	abc.xyz.com
	WLS_ADMIN_SERVE R_PORT	Weblogic AdminServer port. It is the port to access the administration console of the Weblogic server. Generally port 7001 is used as the AdminServer port. Custom port are supported.	7001
	WLS_ADMIN_SERVE R_SSL_PORT	AdminServer SSL port. It is the port used to securely access (https) the administration console of the Weblogic server.	7002

		1
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. Custom ports are supported.	5556
WLS_MS_SERVER_ NAME	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_ PORT	Managed Server Port. Managed server will utilize this port for hosting OBAPI components and associated resources. Custom ports are supported.	9001
WLS_DOMAIN_NAM E	Enter Weblogic Domain name.	obapi_domain1
WLS_DOMAIN_ADMI N_USER	Domain user ID. The user id will be used to access the Weblogic Administration console.	weblogic
WLS_JMS_FILEUPL OAD_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_P S (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 _PS (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	/scratch/obapi/J PA



		directory inside INSTALLATION_HOME.	
	WLS_JMS_EXTSYS RECEIVER_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_EXTSYSS ENDER_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	OBAPI_ADMIN_USE RNAME	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 To create User and mapping it to the Group section)	superadmin
user details	OBAPI_ADMIN_EMA IL	Enter the Email ID for OBAPI application admin user.	superadmin@or acle.com
	OBAPI_ADMIN_CON TACT_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:

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

[OBDX_Installer]\$ ls -ltr								
CULAL 20								
-IWXIWXIWX	1	54323	wheel	2569	Jun	28	12:04	runInstaller.py
drwxrwxrwx	12	54323	wheel	4096	Jun	28	12:04	installables
-IWXIWXIWX	1	54323	wheel		Jun	28	12:04	init .py
drwxrwxrwx	5	54323	wheel	4096	Jun	29	13:15	core
drwxrwxrwx	5	54323	wheel	4096	Jun	29	13:15	framework
drwxrwxrwx	7	54323	wheel	4096	Jul	2	10:47	ExecInstances
t		OBD	X Insta	aller	1\$			

• Enter the following command

python3.8 runInstaller.py

Select the appropriate host system for Installation

Oracle Banking Digital Experience	Installer v21.1.1.0.0
Please select the host system from the options listed below :	
Oracle FLEXCUBE Universal Banking	
Oracle FLEXCUBE Core Banking	
Third Party System	
Use (τ/i) to select between options	

Oracle FLEXCUBE Universal Banking (OBAPI with UBS)

Select Installation mode



Installation

Oracle Banking Digital Experience	Installer v21.1.1.0.0
Please select the installation mode from the options listed below :	
New Installation	
Reinstall	
Use (t/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.

Below screens would appear to taken end-user input

Oracle Banking Digital Experience	Installer v21.1.1.0
»······	
»	
Valid.	
»	
Valid.	
»······	
Valid.	
Enter password for the OBFM schema 'COD144_ITR' (Existing) :	
»······	
Enter password for the OBFM schema 'BIA1_OBDXP2111INS' (new) :	
»······	
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	nstaller v21.1.1.0.(
>	
Valid.	
>>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Valid.	
Enter password for the weblogic domain user id 'weblogic' :	
»······	
Valid.	
Enter password for the Admin User 'superadmin' :	
»······	
Use ($_{1/4}$) 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
 OBAPI application admin user password

Oracle FLEXCUBE Core Banking (OBAPI with FCORE)

Post Oracle FLEXCUBE Core Banking, enter the required credentials details



Installation

Oracle Banking Digital Experience	Installer v21.1.1.0
>>*****	
Valid.	
>>******	
Valid.	
»·····	
Valid.	
»······	
Valid.	
»······	
Valid.	
»······	
Valid.	
The (x/) have to navinate between meetions and more fanter! after edition 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

Oracle Banking Digital Experience	Installer v21.1.1.0.0
»	
Valid.	
Enter password for the OBDX schema 'OBDX_PINS2111' :	
»······	
Valid.	
Enter password for the weblogic domain user id 'weblogic' :	
»	
Enter the password for the user with sys privileges of OBEM database 'sys' :	
»······	
Enter password for the OBPM schema 'COD144_ITR' (Existing) :	
»······	
Enter password for the OBFM schema 'BIA1_OBDXP2111INS' (new) :	
» ^{,,,,,,,,,,}	
Enter password for the Admin User 'superadmin' :	
»·······	
Valid. Use (γ/i) 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	
() to select between options	

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.



When the installation completes, the below message is displayed

stallables/app/components/individuals/digx-scf.war}, to obdx_cluster .> (Jun 4, 2021 l1:4):11 AM UTC> (Info> <jzee deployment="" sfi=""> <bea-260121> <initiating a<br="" deploy="" for="" operation="">tr/installables/app/components/individuals/digx-security.warj, to obdx cluster .></initiating></bea-260121></jzee>	application, digx-security [archive: /scratch/obdx/OBDX_Install
Trimstallables/app/components/individuals/digk=security/war), to down clutter .> (Jun 4, 2021 11:47:19 AW UTC> <info> <jzee deployment="" spi=""> <bea-260121> <initiating a<br="" deploy="" for="" operation="">stallables/app/components/individuals/digk=sms.war), to obdx cluster .></initiating></bea-260121></jzee></info>	application, digx-sms [archive: /scratch/obdx/OBDX_Installer/in
Jun 4, 2021 11:47:24 AM UTC> <info> <jzee deployment="" spi=""> <bea-260121> <initiating a<="" deploy="" for="" operation="" td=""><td>application, digx-smsbanking [archive: /scratch/obdx/OBDX_Insta</td></initiating></bea-260121></jzee></info>	application, digx-smsbanking [archive: /scratch/obdx/OBDX_Insta
<pre>iler/installables/app/components/individuals/digx-smsbanking.war], to obdx_cluster .> (Jun 4, 2021 11:47:27 AM UTC> <info> <jzee deployment="" spi=""> <bea-260121> <initiating <="" a="" deploy="" for="" operation="" pre=""></initiating></bea-260121></jzee></info></pre>	application, digx-social [archive: /scratch/obdx/OBDX_Installer
'installables/app/components/individuals/digx-social.war], to obdx_cluster .> :Jun 4, 2021 11:47:32 AM UTC> <info> <jzee deployment="" spi=""> <bea-260121> <initiating a<="" deploy="" for="" operation="" td=""><td>application, digx-spendanalysis [archive: /scratch/obdx/OBDX_In</td></initiating></bea-260121></jzee></info>	application, digx-spendanalysis [archive: /scratch/obdx/OBDX_In
staller/installables/app/components/individuals/digx-spendanalysis.war], to obdx_cluster .> (Jun 4, 2021 11:47:40 NM UTC> <info> <j2ee deployment="" spi=""> <bea-260121> <initiating a<="" deploy="" for="" operation="" td=""><td>application, digx-sr [archive: /scratch/obdx/OBDX_Installer/ins</td></initiating></bea-260121></j2ee></info>	application, digx-sr [archive: /scratch/obdx/OBDX_Installer/ins
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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

[devops@obdxwls OBDX Installer]\$ export FLAVOUR=OBPM
[devops@obdxwls OBDX_Installer]\$ export MODE=New
[devops@obdxwls OBDX_Installer]\$ export DB_SYS_PASSWORD=welcome1
[devops@obdxwls OBDX_Installer]\$ export SCHEMA_PASS=welcome1
[devops@obdxwls OBDX_Installer]\$ export DomainPassword=welcome1
[devops@obdxwls OBDX_Installer]\$ export EHMS_DATABASE_SYS_PASS=welcome1
[devops@obdxwls OBDX_Installer]\$ export EHMS_HOST_SCHEMA_NAME_PASS=welcome1
[devops@obdxwls OBDX_Installer]\$ export EHMS_SCHEMA_PASS=welcome1
[devops@obdxwls OBDX_Installer]\$ export DBAuthPassword=welcome1
[devops@obdxwls OBDX_Installer]\$ export LD_LIBRARY_PATH=/usr/lib/oracle/19.10/client64/lib/:\$LD_LIBRARY_PATH

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	FLAVOUR	Flavour for installation UBS for Oracle FLEXCUBE Universal Banking 14.4.0.0.0 (OBAPI with UBS)	export FLAVOUR=OBPM or export FLAVOUR=FCORE
flavor:UBSFC ORE		FCORE for Oracle FLEXCUBE Core Banking 11.8.0.0.0 (OBAPI with FCORE)	



		1
MODE	Mode of installation.	export MODE=New
	' New ' in-case of a fresh installation of OBAPI for the first run on server	or export MODE=Clean
	'Clean' 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	Password of existing EHMS HOST schema (Existing)	export EHMS_HOST_SCHEMA_NAME _PASS =obapiehmshost
** Only required for UBS & OBPM Host. Ignore this parameter in-case of FCORE Host		
EHMS_SCHEMA_PASS	Password for new OBAPI EHMS schema on EHMS HOST database	export EHMS_SCHEMA_PASS=obapi1 82ehms



	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 'OBAPI' for Third Party System 1.0 (OBAPI with THP)	export FLAVOUR=OBAPI
Environment variables to set for flavor:	Mode	Mode of installation. 'New' in-case of a fresh installation of OBAPI for the first run on server 'Clean' 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



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
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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.



When the installation completes, the below message is displayed

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<pre>Num 4, 2021 11/48/31 AM UTC> (Into> <2/LE Deployment SFD: <2/Label{eq: SEL-SO(12)> </pre> <pre>Children</pre> <pre< td=""><td>(Jun 4, 2021 11:48:23 AM UTC> <info> <j2ee deployment="" spi=""> <bea-260121> <initiating [archive:="" application,="" deploy="" digx-ukpisp="" for="" obdx="" obdx_installer<="" operation="" scratch="" td=""></initiating></bea-260121></j2ee></info></td></pre<>	(Jun 4, 2021 11:48:23 AM UTC> <info> <j2ee deployment="" spi=""> <bea-260121> <initiating [archive:="" application,="" deploy="" digx-ukpisp="" for="" obdx="" obdx_installer<="" operation="" scratch="" td=""></initiating></bea-260121></j2ee></info>
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<pre>realBables/app/components/individuals/digx-van.vas], to obdx_cluster -> // antalBables/app/components/individuals/digx-vallet STL CEE_Parameters STL CEE_Paramet</pre>	
<pre>/installables/app/components/individuals/digr.wallet.varj, to obdx cluster .> vium 4, 2021 lit48:57 AM (TC> clnfo: 427E Deployments/Individuals/digr.wallet.varj, to obdx_cluster .> vallables/app/components/individuals/digr.wallet.varj, to obdx_cluster .> vallables/app/components/individuals/digr.warj, to obdx_cluster .> vallables/app/components/individuals/digr.warj, to obdx_cluster .> vallables/app/components/individuals/digr.warj, to obdx_cluster, to obdx_cl</pre>	stallables/app/components/individuals/digx-vam.war], to obdx cluster .>
olum 4, 2021 11:48:37 AM UTC> Chtch> <22ET Deployment SFD> <eea-060121> Chtchating deploy operation for application, digx-vm [archive: /scratch/obdx/OBDX_Installer/ins schlables/applications deployed successfully Exatting Adminderver MainServer started successfully creased and configured OBDX211EST1 domain Volum 4, 2021 11:49:18 AM UTC> <warnings <smdd=""> <eea-080001> <#LContext.close() was called in a different thread than the one in which it was created.>Nuccessfully Setup and Configured WEBLOGIC</eea-080001></warnings></eea-060121>	
Applications deployed successfully Reating Adminderver Idminderver started Nuccessfully created and configured OBDX211TEST1 domain Nuccessfully created than the one in which it was created.> Nuccessfully Setup and Configured WEBLOGIC	Jun 4, 2021 11:48:57 AM UTC> <info> <j2ee deployment="" spi=""> <bea-260121> <initiating [archive:="" application,="" deploy="" digx-wm="" for="" ins<="" obdx="" obdx_installer="" operation="" scratch="" td=""></initiating></bea-260121></j2ee></info>
Vaning Bucessfully created (Jun 4, 2011 lif9125 AM UTC> (Maringo (JMDI> NBEA-030001) (WLContext.close() was called in a different thread than the one in which it was created.> Buccessfully Setup and Configured WEBLOOIC	
Nuccessfully created and configured OBDX211TEST1 domain "Oum 4, 3021 Lif49153 AM UTC- Warning- «NDL> MEA-080001> «WLContext.close() was called in a different thread than the one in which it was created.> Nuccessfully Setup and Configured WEBLOOIC	Starting AdminServer
olum 4, 2021 li(49:25 AM UTC> (Warning» «JNDI» «BEA-050001» «WLContext.close() was called in a different thread than the one in which it was created.» Successfully Setup and Configured WEBLOOIC	
Duccessfully Setup and Configured WEBLOGIC	
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<	
	>>>> OBDX FRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<



Installation using Silent Mode

Home

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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>/ExecInstances/<ddmonthhhmm> /logs/obapi_installer.log</ddmonthhhmm></obapi>
Summarized Database Logs	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/DB_installation.log</ddmonthhhmm></obapi>
Detailed OBAPI DB Logs per SQL file	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/OBAPI/OBAPI.log</ddmonthhhmm></obapi>
Detailed EHMS schema Logs per SQL file (specific to EHMS host	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/<ehmshost>/<ehmshost>.log</ehmshost></ehmshost></ddmonthhhmm></obapi>
system only)	<ehmshost> - values such as; FCORE; OBPM;</ehmshost>
Weblogic Configuration Logs	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/app/obapi_wls_post.log</ddmonthhhmm></obapi>
	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/Entitlement.log</ddmonthhhmm></obapi>
	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/Task.log</ddmonthhhmm></obapi>
	<obapi installer<br="">DIR>/ExecInstances/<ddmonthhhmm> /logs/db/Dashboard_seed.log</ddmonthhhmm></obapi>
Detailed OBAPI policy seeding logs	Note: Check for SEVERE keyword; If found refer to Troubleshot section to re-run the policy
	<obapi installer<br="">DIR>/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



Installer Verification

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
OBAPI with THP	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	\checkmark
		Application Deployment		\checkmark
		JTA Enable Production Mode		\checkmark
				\checkmark
		Start AdminServer and NodeManager		\checkmark
	OBAPI Configuration	Copy config files into OBAPI Installation Home	\checkmark	√ (Delete old and copy new from installer zip)



Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Create Tablespace	\checkmark	NA
		Create Schema and Role		$\sqrt{(\text{drop and re-create objects})}$
		Grants	\checkmark	\checkmark
	OBAPI DB Setup	Load DB object (DDL's and DML's)	\checkmark	\checkmark
		Compile Schema	\checkmark	\checkmark
		Policy Seeding	\checkmark	\checkmark
		Create Tablespace	\checkmark	NA
OBAPI with FCORE		Create Schema and Role	\checkmark	$\sqrt{(\text{drop and re-create objects})}$
	EHMS DB Setup	Grants	\checkmark	\checkmark
		Load DB object (DDL's and DML's)	\checkmark	
FCORE		Compile Schema	\checkmark	\checkmark
		Create and Configure AdminServer, Machine, Managed Server and Cluster	\checkmark	\checkmark
		Configure NodeManager $$	\checkmark	\checkmark
	Weblogic Setup and Configuration	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: Oracle FLEXCUBE Universal B	anking with Oracle Banking	Payments (OBAPI with OBPM)
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Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Create Tablespace	\checkmark	NA
		Create Schema and Role		(drop and recreate objects)
		Grants	\checkmark	
	OBAPI DB Setup	Load DB object (DDL's and DML's)	\checkmark	\checkmark
		Execute OBPM HOST specific scripts	\checkmark	\checkmark
		Compile Schema	\checkmark	\checkmark
ΟΒΑΡΙ		Policy Seeding	\checkmark	\checkmark
		Create Tablespace	\checkmark	NA
	Create Schema EHMS DB Setup Grants	Create Schema and Role	\checkmark	(drop and recreate objects)
with OBPM		Grants	\checkmark	\checkmark
(14.4.0.0.0 version)		Load DB object (DDL's and DML's)		\checkmark
		Compile Schema	\checkmark	\checkmark
		Create and Configure AdminServer, Machine, Managed Server and Cluster	\checkmark	\checkmark
		Configure NodeManager	\checkmark	
	Weblogic Setup	Configure JDBC √	\checkmark	\checkmark
	and Configuration	JMS servers, Persistent stores and JMS Modules	\checkmark	\checkmark
		Application Deployment	\checkmark	
		JTA	\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	Home > Summary of Deployments > com.ofss.digx.app.connector >Roles > com.ofss.digx.connector.rar > Summary of Deployments > com.ofss.digx.connector.rar >Roles > Summary of Deployments > com.ofss.digx.connector.rar >Roles > 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 > Roles > Summary of Deployments > com.ofss.digx.connector.rar > Summary of Deployments > Com.ofss.digx.connector.rar > Summary of Deploymen				
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				
omain Structure	 Configure applications 	 Common Administration Task Descriptions 				
	 Configure GridLink for RAC Data Source 	 Read the documentation 				
BDX_INS_TEST Domain Partitions	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 				
Environment	 Recent Task Status 	ent Task Status				
Deployments	 Set your console preferences 					
Services Security Realms	Oracle Enterprise Manager					
-Interoperability	- Domain Configurations					
Diagnostics	Domain	Resource Group Templates	Interoperability			
	Domain	 Resource Group Templates 	WTC Servers			
			Jolt Connection Pools			
	Domain Partitions	Resource Groups				
	Domain Partitions	Resource Groups	Diagnostics			
low do I	Partition Work Managers		Log Files			
0w 00 1		Deployed Resources	Diagnostic Modules			
Search the configuration	Environment	Deployments	 Built-in Diagnostic Modules 			
Use the Change Center	Servers		Diagnostic Images			

Click on com.ofss.digx.connector

Click on Security Tab > Outbound Credential Mappings

me, weblogic	Conr			
hen using the o	ontrol			
To install a new application or module for deployment to targets in this domain, click Install.				
Deployments				
Showing 1	to 10			
Fargets	Dej			
bdx_cluster	0			
bdx_cluster	100			
obdx_cluster	100			
F actor	Showing 1 argets bdx_cluster bdx_cluster			



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	Home >Summary of Deployments >com.ofss.digx.connector >Roles >Summary of Deployments >com.ofss.digx.connector >Roles >com.ofss.digp					
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for com.o	Settings for com.ofss.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

	ministration 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.	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 Domain Structure OBDX211TEST1 B-Environment Deployments B-Services Security Realms B-Interoperability B-Diagnostics	Roles Policies Outbound Credential Mappings Inbound Principal Mappings Principals Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise In credential mappings for al outbound connection pools in the resource adapter, or specify particular outbour for this resource adapter. Customize this table Outbound Gredential Mappings Outbound Gredential Mappings Inbound Gredential mappings Inbound Gredential mappings	
	New Dekte	Outbound Connection
		e no items to display
	New Delete	
How do I 🗉		

Select ra/DIGXConnectorAES > Next



View changes and restarts	Hom Depl	e >Summary of Deployments >com.ofss.d oyments >com.ofss.digx.app.connector >S	gx.connector.rar >Roles >Summary of Deployments >com.ofss.digx.connector.rar >Summary of Environment >Summary of ummary of Deployments >com.ofss.digx.connector.rar	
Click the Lock & Edit button to modify, add or delete items in this domain.	Creat	Create a New Security Credential Mapping		
Lock & Edit Release Configuration		Back Next Finish Cancel Outbound Connection Pool		
Domain Structure OBDX_INS_TEST Domain Partitions	Wh Cor	ich Outbound Connection Pool would y nection Pools in this resource adapter.	w like the credential map to be associated with? Selecting Resource Adapter Default will configure the credential mapping for all Outboun Each Outbound Connection Pool can then configure themselves to override these credentials.	
Environment Deployments Services		stomize this table ate a New Security Credential Mag	Entry for:	
Security Realms			Showing 1 to 10 of 11 Previous	
Interoperability Diagnostics		Outbound Connection Pool 🚕		
		ra/DIGXConnectorAES		
		ra/DIGXConnectorAPNS		
		ra/DIGXConnectorBIREPORTS		
		ra/DIGXConnectorFCM		
How do I		ra/DIGXConnectorFILEUPLOAD		
		ra/DIGXConnectorGENERICREST		
Create outbound credential mappings		ra/DIGXConnectorIPM_OBDX_BU		
System Status		ra/DIGXConnectorIPM_OBDX_BU1		
System Status –		ra/DIGXConnectorJWTOKEN		
Health of Running Servers as of 10:57 AM		ra/DIGXConnectorMERCHANT		

Select "Default User" > 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 Environment >Summary of Deployments >com.ofss.digx.connector.rar	
Click the Lock & Edit button to modify, add o 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 -Environment	IS TEST connections when the rescure adapter is first started. Selecting User for usedang metal Will be used for any authenticated WebLogi and authenticated webLogi does not have a credential mapping specifically for them. Selecting User for usedang that will be used as the default for any authenticated WebLogi does not have a credential mapping specifically for them. Selecting User for usedang that will be used for an unathenticated WebLogi does not have a credential mapping specifically for them. Selecting User for usedang that will be used for an unathenticated WebLogi does not have a credential mapping specifically for them. Selecting User for usedang that we must be a configured to the user must be a configured to the user for an unathenticated webLogi does not have a credential mapping specifically for them. Selecting User for usedang that we must be a configured to the user for an unathenticated webLogi does not have a credential mapping specifically for them. Selecting User for user that will be used for an unathenticated webLogi does not have a credential mapping to the user for an unathenticated webLogi does not have a credential mapping specifically for them. Selecting User for user user must be a configured to the user for an unathenticated webLogi does not have a credential mapping to the user for an unathenticated user will configure the user for an unathenticated webLogi does not have a credential mapping to the user for an unathenticated user will configure the user for an unathenticated webLogi does not have a credential mapping to the user for an unathenticated user will configure the user for an unathenticated user will be used for an unathenticated user will configure the user for an unathenticated user will be used for an unathenticated user will be used for an user for an unathenticated user will be used for an unathenticated user w	
Deployments Services Security Realms Interoperability	User for creating initial connections Default User	
	O Unauthenticated WLS User	
	O 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 character
--

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
Release Configuration	EIS User Name and Password
Domain Structure OBDX211TEST1	Configure the EIS User Name and Password that you would like to map the WebLogic Server User to: * Indicates required fields
Environment Deployments	Enter the EIS User Name:
Services Security Realms -Interoperability Diagnostics	* 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: * Indicates required fields		
Enter the EIS User Name:		
* EIS User Name:	AES_KEY]
Enter the EIS Password:		
* EIS Password:	•••••]
* Confirm Password::	•••••]
Back Next Enish 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

Oracle FLEXCUBE Universal Banking (OBAPI with UBS)

If during installer execution Oracle FLEXCUBE Universal Banking (OBAPI with UBS) is selected, then below steps needs to be done manually.

Foreign Server

 Login into Weblogic Admin console (OBAPI domain created using installer) and Browse to Summary of JMS Modules > UBSSystemModule (as shown below)



umm	nary of JMS Modules					
JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distribu configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for this domain.						
Cu	stomize this table					
JMS	5 Modules (Filtered - More Columns Exist)					
Clic	k the Lock & Edit button in the Change Center to activate all the buttons on this page.					
Ne	ew Delete					
	Name 🗞	Туре				
	AuditJMS	JMSSystemResource				
	FileUploadJMS	JMSSystemResource				
	ReportsJMSModule JMSSystemResource					
UBSSystemModule JMSSystemResource						
New Delete						

Settings for UBS	Settings for UBSSystemHodule											
Configuration	Subdeployments	Targets	Security	Notes								
This page displa	This page displays general information about a JHS system module and its resources. It also allows you to configure new resources and access existing resources.											
Name: UBSSystemModule				The name of this JMS system module. More Info								
Scope:	Soope: Gobal Specifies if the 2HS system module is accessible within the domain, a partition, or a resource group ter						group template.					
Descriptor File	Name:					jms/ubssystemmodule-jms.xml			The name of the JMS module descriptor fil	e. More Info		
This page summ	narizes the JMS resou	arces that	have been c	reated for	this JMS syste	m module, including queue and topic destination	s, conn	ection factories, JMS templates, destination sort keys, de	tination quota, distributed destinations, foreig	gn servers, and store-and-forward	parameters.	
Customize thi												
Summary of R Click the Lock &	esources & <i>Edit</i> button in the (Change Ce	nter to activ	ate all the	buttons on thi	s page.						
New Delete	New Delete							Showing 1 to 1 o				
🗉 Name 🔿					Тур	e		JNDI Name	Subdeployment		Targets	
UBSForeig	InServer				Fore	lign Server		N/A	UBSSubdeployment		obdx_cluster	
New Delete	2											Showing 1 to 1 o

• Click on UBSForeignServer

Settings for	UBSForeignS	erver			
Configurat	tion Subdepl	loyment	Notes		
General	Destinations	Connecti	on Factories		
Click the L	ock & Edit but	ton in the	Change Center	to modify the :	settings on this page.
Save					
A foreign : foreign se		ts a JNDI p	provider that re	sides outside a	WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. The
街 Name:					UBSForeignServer
JNDI Initi	al Context Fac	ctory:			weblogic.jndi.WLInitialConte:
街 JNDI C	Connection UR	εL:			t3:// <ehms_wls_server>:<ehms_wls_server_port>/</ehms_wls_server_port></ehms_wls_server>
JNDI Prop	erties Creden	tial:			
Confirm JI	NDI Propertie	s Credent	ial:		
JNDI Prop					
	ming.secur LS_USERNAM		ncipal=	li	



Click on Lock & Edit

Settings for UBSForeignServer								
Configuration Subdeployment Notes								
General Destinations Connection Factories								
Save	Save							
A foreign server represents a JNDI provider that resides outside a foreign server.	WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of o							
街 Name:	UBSForeignServer							
JNDI Initial Context Factory:	weblogic jndi.WLInitialConte:							
餐 JNDI Connection URL:	t3:// <ehms_wls_server>:<ehms_wls_server_port>/</ehms_wls_server_port></ehms_wls_server>							
JNDI Properties Credential:								
Confirm JNDI Properties Credential:								
JNDI Properties:								
java.naming.security.principal= <ehms_wls_username></ehms_wls_username>								

Set below configurations with:

JNDI Connection URL –Replace <EHMS_WLS_SERVER> with hostname or IP address of UBS HOST Weblogic server and <EHMS_WLS_SERVER_PORT> with port number of UBS HOST Weblogic Managed server (where NOTIFY_DEST_QUEUE and NOTIFY_DEST_QUEUE_FCDB are mapped). JNDI Properties Credential – Password for username set in JNDI properties

Confirm JNDI Properties Credential - Confirm password for username set in JNDI properties

JNDI Properties – Value to be set as "java.naming.security.principal=<EHMS_WLS_USERNAME>", where

username is the login user of UBS Weblogic Admin Console (user which created the primary local queues for UBS).

Click on Save

stration Console 12c		Q
😰 Home Log Out Preferences 돝	Record Help	Welcome, weblogic Connected to: OBDX201UE
Home >Summary of Deployments >Su	ummary of JMS Modules >UBSSystemModule >UBSForeignServer	
ettings for UBSForeignServer		
Configuration Subdeployment	Notes	
General Destinations Conner	ction Factories	
Save		
	I provider that resides outside a WebLogic Server. It contains information ics) can be defined on one JNDI directory. Use this page to configure a fi	that allows WebLogic Server to reach the remote JNDI provider. This way, a number of connection factory and reign server.
街 Name:	UBSForeignServer	The name of this foreign server. More Info
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte	The name of the class that must be instantiated to access the JNDI provider. This class name depends on the JNDI provider and the vendor that are being used. More Info
JNDI Connection URL:	XX.XX.XX	The URL that WebLogic Server will use to contact the JNDI provider. The syntax of this URL depends on which JNDI provider is being used. For WebLogic JNS, leave this field blank if you are referencing WebLogic JNS objects within the same cluster. More Info
JNDI Properties Credential:		Any Gredentials that must be set for the JNDI provider. These Credentials will be part of the properties will be passed directly to the constructor for the JNDI provider's InitialContext class. Note: For secure credential imanagement, use the Credential field. Using the Properties field results in the credential being stored and displayed as originally entered More Info
Confirm JNDI Properties Crede	ntial:	
JNDI Properties:		Any additional properties that must be set for the JNDI provider. These properties will be
java.naming.security.pr <ehms_wls_username></ehms_wls_username>	incipal=	passed directly to the constructor for the JNDI provider's InitialContext class. More Info



Messages	iome Summary of MS Modules SUBStystemModule Summary of IMS Modules SUBSSystemModule SUBSSystemModules SUBSSystemModule SUBSSystemModules								
California (an	ettings for UBSForeignServer								
Settings for	UBSForeign	Server							
Configurat	tion Subdep	oloyment	Notes						
General	Destinations	Connect	ion Factories						
Save									
A foreign : foreign se		nts a JNDI	provider that	: resides outside a	WebLogic Server. It contains infor	mation that allows WebLogic Server to reach the	remote JNDI provider. This way, a number of c	onnection factory and destination o	bjects (queues or topics) can be defi
街 Name:					UBSForeignServer			The name of this foreign server.	More Info
JNDI Initi	al Context Fa	actory:			weblogic.jndi.WLInitialCon	te:		The name of the class that must the vendor that are being used.	be instantiated to access the JNDI pr More Info
街 IDDI C	Connection U	RL:			t3://10.184.135.59:7860/			The URL that WebLogic Server w being used. For WebLogic JMS, I Info	ill use to contact the JNDI provider. T ave this field blank if you are referer
JNDI Prop	erties Crede	ntial:						the constructor for the JNDI prov	for the JNDI provider. These Creden ider's InitialContext class. Note: For s credential being stored and displayed
Confirm JI	NDI Propertie	es Creden	tial:						
JNDI Prop java.na	erties: ming.secur	rity.pri	ncipal=i	nfra				Any additional properties that mu JNDI provider's InitialContext cla	st be set for the JNDI provider. Thes s. More Info
🔲 🐠 Def	fault Targetir	ng Enable	đ					Specifies whether this JMS resource mechanism. More Info	ce defaults to the parent module's ta
Save									

Click on Activate Changes

ORACLE WebLogic Server Ad	ministration Console 12c							
Change Center	1 Home Log Out Preferences 🔤 Record Help	9	Welcom					
View changes and restarts	Home - Summary of 3HS Modules - UBSSystemModule - Summa Heasances	ry of 3HS Modules >UBSSystemModule >Summary of 3HS Modules >UBSSystemModule >UBSForeignSer	ver =Configuration =NOTIFY_DEST_QUEUE_FCDE =UBSForeignServer					
Pending changes exist. They must be activated to take effect.	Settings updated successfully.		frangeliener +Carligentier +10707,587,588,908,908 +1889/anlegeliener					
Activate Changes	Settings for UBSForeignServer							
Undo All Changes	Configuration Subdeployment Notes							
Domain Structure OBDX INS TEST	General Destinations Connection Pactories							
Domain Partitions Environment	Save							
Environments Deployments Services Security Realms Environments Environments Environments	A foreign server represents a XRD provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote XRD provider. This way, a number of connection factory and destination objects (quives or topics) can be defined on one XRD foreign server.							
B1-Diagnostics	dE Name:	U85PoreignServer	The name of this foreign server. Hore Info					
	JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte:						
How do L	8문 JNDI Connection URL:	××.××.××.××	being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic J					
Create foreign connection factories Create foreign destinations	JNDI Properties Credential:		the constructor for the INDE provider's InitialContext class. Note: For secure credential					
System Status	Confirm JNDI Properties Credential:							
Health of Running Servers as of 2:20 PM Pailed (0) Critical (0) Overlaaded (0) Warming (0) OK (1)	JNDI Properties: Java.naming.security.principal-infra		Any additional properties that must be set for the JNOI provider. These properties will 2007 provider's instalCastext class. Hore Life					
	🗐 👩 Default Targeting Enabled		Specifies whether this JHS resource defaults to the parent module's targeting or uses t mechanism. More Info					
	Save							

	ministration Console 12c		Welco						
Change Center		Q.							
View changes and restarts									
Click the Lock & Edit button to modify, add or delete items in this domain.		reconcepts of All charges have been activated. No restarts are necessary.							
Lock & Edit Hatease Configuration	Settings for UBSForeignServer								
Hatease Contiguration	Configuration Subdeployment Notes								
Domain Structure	General Destinations Connection Pactories								
060X_INS_TEST P Domain Partitions P Environment	Click the Lock & Edit button in the Change Center to	modify the settings on this page.							
Beployments	Save								
Intercept Realins Entercept ability RI-Diagnostics	A foreign server represents a 3NDI provider that resid funcion server.	es outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote	INDI provider. This way, a number of connection factory and destination objects (queues or topics) can be defined on one 28						
	🕂 Name:	UBSForeignServer	Oracle Benhive Extensions for Diations						
	JNDI Initial Context Factory:	weblogic jndl WLInitjatContei	1 V Wait while accessing server Stop is the JHDI provider. This d						
How do I	all JND1 Connection URL:	**.**.**	The URL that WebLogic Server will use to contact the JNDI provider. The syntax of being used. For WebLogic JND, have this field blank if you are referencing WebLogi table						
Create foreign connection factories Create foreign destinations	3NDI Properties Credential:		Any Credentials that must be set for the 2001 provider. These Credentials will be pa						
System Status	Shot Properties Createstical		the constructor for the 300D provided a battal battal battal and a displayed as originally						
Health of Running Servers as of 3:22 PH	Confirm 3HD1 Properties Credential:								
Pailed (0)	JNDI Properties:		Any additional properties that must be set for the JHDI provider. These properties						
Overloaded (b) Overloaded (b) Warning (0) OK (1)	java.naming.security.principal-infra		3601 provider's InflueContrast class. More Info- 3601 provider's InflueContrast class.						
	🔲 👸 Default Targeting Enabled		Specifies whether this JHS resource defaults to the parent module's targeting or us machanism. Here tofs						
	Sava								



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

If during installer execution Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBAPI with OBPM) is selected, then below steps needs to be done manually.

Foreign Server

 Login into Weblogic Admin console (OBAPI domain created using installer) and Browse to Summary of JMS Modules > OBPMSystemModule > OBPMForeignServer (as shown below)

Settings for OBPI	ettings for OBPHSystemHodule							
Configuration	Subdeployments	Targets Se	curity N	Notes				
This page displa	This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.							
Name:						OBPMSystemModule		The name of this JMS system module. More Info
Scope:	Scope: Global Specifies if the 2MS system module is accessible within							
Descriptor File	Name:					jms/obpmsystemmodule-jms.xml		The name of the JMS module descriptor file. More In
This page summ		rces that have	been crea	ated for t	his JMS syst	tem module, including queue and topic destinations, con	ection factories, JMS templates, destination sort keys, de	estination quota, distributed destinations, foreign servers, a
Summary of Re								
Click the Lock &	Edit button in the Cl	hange Center	to activate	e all the b	outtons on th	his page.		
New Delete								
🔲 Name 🐟	Name A Type JNDI Name Subdeployment							
OBPMForei	OBPMForeignServer Foreign Server N/A OBPMSodeployment							
New Delete								

Refer to earlier steps mentioned for UBS HOST UBSForeignServer and make similar changes in OBPMForeignServer.

Deployment of notification MDB application

Before deployment of obapi.externalsystem.obpm.notification.mdb.ear application, make changes similar to obapi.externalsystem.ubs.notification.mdb.ear before deployment.

Fileupload with UBS

Refer below document for File upload configuration with UBS

• Oracle Banking APIs File Upload Report Configuration

Origination with UBS

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

Oracle Banking APIs UBS Origination Setup and Configuration

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.

	Mandatory deployment						
Sr No	Module	Description					
1	digx-alerts	Alerts configuration and management					
2	digx-approval	Transaction approvals for admin and corporate business user					
3	digx-audit	Audit logging for all transactions					
4	digx-auth	Login authentication & oAuth functionality					
5	digx-brand	Brand Management					
6	digx-common	Common REST APIs used across all modules like enumerations					
7	digx-config	System configuration & dashboard management					
8	digx-cutoff	Transaction cutoff management					
9	digx- eurekaserver	Service registration of modules					
10	digx-finlimit	Limits Maintenance and Utilization					
11	digx-login	Manages user login and logout functionality					
12	digx-me	Multientity management					
13	digx-party	Party management					
14	digx-security	Authorization and Authentication management					
15	digx-shared-libs	Common framework libraries shared across all modules					
16	digx-sms	User & Credential management					
17	digx-user	User profile management					
18	digx-account	Accounts framework					
19	digx-dda	Demand deposits					
20	digx-connector	Weblogic connector to store secure information / credetials					

WAR deployments and dependencies



Sr.		Optional WAR deployment	
No	War	Dependent Modules	Functionality
1	digx-access		Account and transaction access management for party and user
2	digx-oauth		oAuth Maintenance
3	digx-accountaggregation		Account aggregation feature allows retail users to link their external bank accounts to OBAPI.
4	digx-accountrelationship		To set up the transaction access logic for Bank's retail customers from OBAPI based on their account -mode of operation or relationship.
5	digx-analytics		Capturing UI events for analytics
<u> </u>	alg/ analytice	digx-content	Associated Party Management for
6	digx-associatedparty	digx-scf	corporate user
7	digx-berlinaisp	digx-obc	Berlin Open Banking Accounts
8	digx-berlinpiisp	digx-obc	Berlin Open Banking Funds Confirmation
9	digx-berlinpisp	digx-obc	Berlin Open Banking Payments
		digx-common	
		digx-payment	Budget management for retail
10	digx-budget	digx-spendanalysis	user
11	digx-bulkadmin		File upload maintenances for admin
12	digx-bulkcms	digx-bulkadmin	File upload in Cash management for corporate user
13	digx-bulkinvoice	digx-bulkadmin	File upload in Invoice management for corporate user
14	digx-bulkpayment	digx-bulkadmin	File upload in Payments for corporate user
15	digx-bulkscf	digx-bulkadmin	File upload in Supply chain finance for corporate user
		digx-bulkadmin	File upload in Trade finance for
16	digx-bulktradefinance	digx-tradefinance	corporate user
		digx-bulkadmin	File upload in Virtual account
17	digx-bulkvam	digx-vam	management for corporate user
		digx-payment	
		digx-dda	Credit card operations for retail
18	digx-card	digx-location	user
19	digx-chatbot		Chatbot functionality for retail and corporate user
		digx-associatedparty	
		digx-dda	
		digx-forexdeal	
		digx-invoice	Cash management module for
20	digx-cms	digx-pm	corporate user



		digx-vam	
21	digx-collaboration	digx-content	Mailers are information or messages published by the Bank, to communicate about the Bank's Products, services and other information to its users.
22	digx-content		File document upload , read and deletion related operation by retail, corporate and admin users.
		digx-processmanagement	Credit facility module for
23	digx-creditfacility	digx-content	corporate user
		digx-dda	
		digx-account	
		digx-content	
		digx-location	Electronic bill payments for retail
24	digx-ebpp	digx-card	user
25	digx-extxfacesimulator		Simulator for Third Party Host Implementation
			Feedback module for retail and
26	digx-feedback	digx-security	corporate user
		digx-payment	
27	digx-forexdeal	digx-pm	Forex deal for corporate user
		digx-common	
		digx-content	
		digx-payment	
28	digx-goal	digx-dda	Goal module for retail user
			Provides insight to retail user
29	digx-insight	diave accepted a sub-	according to his activities
		digx-associatedparty	
20		digx-cms	Invoice management module for
30	digx-invoice	digx-scf	corporate user
24	dieve lieuwidite we are a sere ant		Liquidity management module for
31	digx-liquiditymanagement	digx-forexdeal	corporate user
		digx-dda	
32	digx-loan	digx-location digx-payment	Loan module for retail and
32		digx-bayment digx-loan	corporate user
		digx-account	_
		digx-account digx-content	
		digx-creditfacility	
33	digx-loanapplication	digx-processmanagement	Loan origination module for corporate user
			Location module for retail and
34	digx-location		corporate user
35	digx-mobile		Mobile module
		digx-content	Enables corporate users to
		digx-invoice	perform operations like Automatic
36	digx-nlp	digx-scf	Invoice Creation and Automatic



			Purchase Order Creation in
			Invoice Management and Supply
			Chain Finance.
37	digx-obc		Openbanking Fine Graining Of Consent
		digx-content	
		digx-payment	
		digx-td	
		digx-dda	
		digx-config	
		digx-common	
38	digx-origination	digx-user	Origination module for retail user
		digx-forexdeal	
		digx-party	
		digx-location	
		digx-pm	
		digx-content	
		digx-vam	
		digx-social	Payments module for retail and
39	digx-payment	digx-wallet	corporate user
			Product maintenance related
40	digx-pm		operations
41	digx-processmanagement		
		digx-security	
		digx-user	
		digx-sms	
		digx-payment	
		digx-party	Report module for retail anc
42	digx-report	digx-dda	corporate user
43	digx-rewards		Rewards module for retail user
		digx-associatedparty	
		digx-invoice	Supply chain finance module for
44	digx-scf	digx-pm	corporate user
45	digx-smsbanking		SMS banking
46	digx-social		Twitter Payments
		digx-dda	Spend analysis module for retail
47	digx-spendanalysis	digx-payment	user
		digx-dda	
48	digx-sr	digx-content	Service request module
		digx-dda	
		digx-location	Term deposit module for retail
49	digx-td	digx-payment	and corpoarte user
		digx-content	
		digx-creditfacility	
		digx-dda	Trade finance module for
50	digx-tradefinance	digx-forexdeal	corporate user
51	digx-ukaisp	digx-obc	UK Open Banking Accounts



52	digx-ukcbpii	digx-obc	UK Open Banking Funds Confirmation
53	digx-ukpisp	digx-obc	UK Open Banking Payments
		digx-location	Virtual account management for
54	digx-vam	digx-account	corporate user
		digx-payment	
		digx-dda	
55	digx-wallet	digx-sms	Wallet module for retail user
		digx-party	
		digx-pm	
		digx-user	Wealth management module for
56	digx-wm	digx-dda	retail user

Home



9. OBAPI Logging Configuration

Logging Configuration in WebLogic Standard Edition

WebLogic converts the **java.util.logging** levels into WebLogic Logging Levels when we use Platform Loggers. Refer Table (Fig-A) for Logging Level conversion. (**Case Sensitive**)

To change the logging level at package level in OBAPI Application can be achieved with below Steps

- 1. Go to the OBAPI Application Server à Click Logging
- Go to Advance and set the values in Platform Loggers Levels as per the Package level logging requirements.
 e.g. To set the logging level for package <bankcode>.com.ofss.fc and com.ofss.digx
 - i. <bankcode>.com.ofss.fc=Info
 - ii. com.ofss.digx=Error
- 3. Save and Restart the server

JAVA	WebLogic
SEVERE	Error
WARNING	Warning
INFO	Info
CONFIG	Debug
FINE	Debug
FINER	Trace
FINEST	Trace

(Fig-A)

Configuration Protocals Logging Debug Monitoring Control Deployment	its Services Security Notes							
General HTTP Data Source Diagnostic Images								
Save								
Use this page to define the general logging settings for this server.								
n Ing file name:	logs/obdx_server1.log	The name of the file that stores current log messages. Usually it is a computed value based on the name of the parent of this Millean. For exemple, for a server log, it is SERVER_IMAME.log. More Info						
Rotation								
👸 Rotation type:	By Size 🗸	Citteria for moving old log messages to a separate file. Here Info						
Rotation file size:	5000	The size (1 - 2107)50 kilolytes) that triggers the server to move log messages to a separate file. The default is 500 kilolytes. After the log file neaches the specified minimum size, the next time the server checks the file size, it will resume the current log file as (SEVER) UNER Segment and create a new one to store subsequent messages. (Sequers that you specify a file notation type of Size.) There is file						
Begin rotation time:	00.00	Determines the start time (hour and minute) for a time-based rotation sequence. More info						
Rotation interval:	24	The interval (in hours) at which the server saves old log messages to another file. (Requires that you specify a file rotation type of TEME.) More Info						
✓ Limit number of retained files		Indicates whether to limit the number of log files that this server instance creates to store old messages. (Requires that you specify a file rotation type of SIZE orTINE.) Hore Info						
Files to retain:	100	The maximum number of log files that the server creates when it rotates the log. This number does not include the file that the server uses to store current messages. (Requires that you enable Number of Files Limited.) More Info						
C Log file rotation directory:		The directory where the rotated log files will be stored. By default the rotated files are stored in the same directory where the log file is stored. More Info						
at Rotate log file on startup		Specifies whether a server rotates its log file during its startup cycle. The default value in production mode is faise. More Info						
- V Advanced								
Date Format Pattern:	MMM d, yyyy h:mm:ss,SSS a z	The date format pattern used for rendering dates in the log. The DateFormatPattern string conforms to the specification of thejava.text.SimpleDateFormat dass. Here Info						
Hinimum severity to log:	Info V	The minimum severity of log messages poing to all log destinations. More Infs						
Clagger severity properties: Nol.con.ofs.fc.info con.ofs.tror (6)		The indiparties of the different tager execution logid by sense. The values are use of the problem Soverty strings sawaly Emergency, Alex, Celled, Error, Warmen, Nolex, July, Belleng, Tages. Nate 316						
	Second TTTP Data lawar Dagrada Lawar Sec Use this park of lagging strings for this server. Set top the schedule spored lagging strings for this server. Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Secon							



10. OBAPI Product Verification

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

Scom.ofss.digx.connector	Active	🖋 ОК	Resource Adapter	obdx_cluster	0
E digx-access	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-account	Active	🖋 ок	Web Application	obdx_cluster	100
t addressed and a second addressed addre	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-accountrelationship	Active	🖋 ОК	Web Application	obdx_cluster	100
街 🥫 digx-alerts	Active	🖋 ОК	Web Application	obdx_cluster	100
😢 🥫 digx-analytics	Active	🖋 ОК	Web Application	obdx_cluster	100
😢 🐻 digx-approval	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-associatedparty	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🐻 digx-audit	Active	🖋 ок	Web Application	obdx_cluster	100
🖲 digx-auth	Active	🛩 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-berlinaisp	Active	🖋 ОК	Web Application	obdx_cluster	100
🗈 🥫 digx-berlinpiisp	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🐻 digx-berlinpisp	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-brand	Active	🖋 ок	Web Application	obdx_cluster	100
t 👩 digx-budget	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🐻 digx-bulkadmin	Active	🛩 ок	Web Application	obdx_cluster	100
🗈 👩 digx-bulkcms	Active	🖋 ОК	Web Application	obdx_cluster	100
digx-bulkinvoice	Active	🖋 ок	Web Application	obdx_cluster	100

1.1				1		
	E 🧃 digx-bulkpayment	Active	🖋 ок	Web Application	obdx_cluster	100
	E digx-bulkscf	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-bulktradefinance	Active	🖋 ок	Web Application	obdx_cluster	100
	🗈 🥫 digx-bulkvam	Active	🛩 ок	Web Application	obdx_cluster	100
	🗄 👩 digx-card	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-chatbot	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-cms	Active	🛩 ок	Web Application	obdx_cluster	100
	digx-collaboration	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-common	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🦲 digx-config	Active	🛩 ок	Web Application	obdx_cluster	100
	🗄 👼 digx-content	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-creditfacility	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🦲 digx-cutoff	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-dda	Active	🛩 ок	Web Application	obdx_cluster	100
	🗄 🦲 digx-ebpp	Active	🖋 ок	Web Application	obdx_cluster	100
	🗈 🥫 digx-eurekaserver	Active	🖋 ок	Web Application	obdx_cluster	100
	digx-extxfacesimulator	Active	🖋 ок	Web Application	obdx_cluster	100
	🗈 👼 digx-feedback	Active	🖋 ок	Web Application	obdx_cluster	100
	🗈 🥫 digx-finlimit	Active	🖋 ок	Web Application	obdx_cluster	100



OBAPI Product Verification

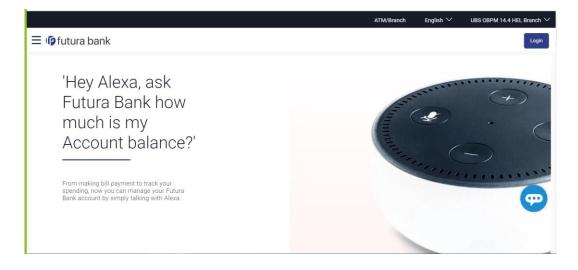
	🖻 🐻 digx-forexdeal	Active	🖋 ок	Web Application	obdx_cluster	100
	🖻 🐻 digx-goal	Active	🛩 ок	Web Application	obdx_cluster	100
	🖻 🐻 digx-insight	Active	🛩 ок	Web Application	obdx_cluster	100
	B digx-invoice	Active	🖋 ок	Web Application	obdx_cluster	100
	🖻 🐻 digx-liquiditymanagement	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🐻 digx-loan	Active	🖋 ок	Web Application	obdx_cluster	100
	digx-loanapplication	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-location	Active	🖋 ок	Web Application	obdx_cluster	100
	E @digx-login	Active	🛩 ок	Web Application	obdx_cluster	100
	B digx-me	Active	🖋 ок	Web Application	obdx_cluster	100
0	E j digx-mobile	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-nlp	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-oauth	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-obc	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-origination	Active	🖋 ок	Web Application	obdx_cluster	100
	B digx-party	Active	🖋 ок	Web Application	obdx_cluster	100
	🖻 🐻 digx-payment	Active	🖋 ок	Web Application	obdx_cluster	100
	🗄 🥫 digx-pm	Active	🛩 ок	Web Application	obdx_cluster	100
	■ digx-processmanagement	Active	🛩 ок	Web Application	obdx_cluster	100
	🖻 🥫 digx-report	Active	🛩 ок	Web Application	obdx_cluster	100
		1	1	1	1	
	🗄 🐻 digx-rewards	Active	🖋 ок	Web Application	obdx_cluster	100
	∃ j digx-scf	Active	🛩 ок	Web Application	obdx_cluster	100
	E digx-security	Active	🛩 ок	Web Application	obdx_cluster	100
	figx-shared-libs (21.1.0.0.0,312)	Active		Library	AdminServer, obdx_cluster	0
	🗄 🥫 digx-sms	Active	🖋 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-smsbanking	Active	🛩 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-social	Active	🛩 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-spendanalysis	Active	🛩 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-sr	Active	🖋 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-td	Active	🖋 ок	Web Application	obdx_cluster	100
	😢 🥫 digx-tradefinance	Active	🖋 ок	Web Application	obdx_cluster	100
	😢 🦲 digx-ukaisp	Active	🛩 ок	Web Application	obdx_cluster	100
	🖻 👼 digx-ukcbpii	Active	🛩 ок	Web Application	obdx_cluster	100
	街 👩 digx-ukpisp	Active	🛩 ок	Web Application	obdx_cluster	100
		Active	🖋 ок	Web Application	obdx_cluster	100
L	🗈 🥫 digx-user	Active				
	B () dip-user B () dip-user	Active	🖋 ок	Web Application	obdx_cluster	100
					obdx_cluster obdx_cluster	100 100

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 Digital Experience Mobile Application Builder-Android

Oracle Banking Digital Experience 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 :
>>
Enter the OBIM 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 :
Enter existing weblogic admin password :
>
Üse (†/i) keys to navigate between questions and press 'enter' after editing them
Enter the ORDM DB hostname .
Enter the OBEM DB hostname :
>>whf00jmlsin.oracle.com
>>whf00jmlfin.oracle.com Valid.
>>whf00jml_in.oracle.com Valid. Enter the OBFM DB port :
>>whf00jmlfin.oracle.com Valid.
>>whf00jml_in.oracle.com Valid. Enter the OBFM DB port : >>1522
<pre>>>whf00jml_in.oracle.com Valid. Enter the OBFM DB port : >>1522 Valid.</pre>
>>whf00jmlkin.oracle.com Valid. Enter the OBPM DB port : >>1522 Valid. Enter the OBPM SID :
>>>hf00jmlkin.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com
>>>hf00jmlkin.oracle.com Valid. Enter the OBFM DB port : >>1522 Valid. Enter the OBFM SID : >>oral9c.in.oracle.com Valid.
>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
<pre>>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DEA_DIRECTORIES) : >>TBS_DIR</pre>
<pre>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DEA_DIRECTORIES) : >>TES_DIR Valid.</pre>
<pre>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges :</pre>
<pre>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>yss</pre>
<pre>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>xys Valid.</pre>
<pre>>>hf00jml@in.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DEA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>sys Valid. Enter the username with 'sys privileges :</pre>
<pre>>>hf00jmlin.oracle.com Valid. Enter the OBEM DB port : >>1522 Valid. Enter the OBEM SID : >>oral9c.in.oracle.com Valid. Enter the Directory name for Tablespace creation (DEA_DIRECTORIES) : >>TBS_DIR Valid. Enter the username with 'sys' privileges : >>sys Valid. Enter the user with sys privileges : >>sys</pre>

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 OBPM host schema name :
Enter the password for existing OBPM host schema :
Enter new OBEM B1A1 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
```

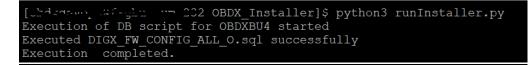
When the installation completes, the below message is displayed



```
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 :
×
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 :
>
se ($\uparrow/$) 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 :	
22	
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 :	
>>FCRH05T	
valid.	
Enter the existing FCUBS schema name :	
>>FCRUBSH05T	
Valid.	
Valid.	
Valid. Enter new FCORE schema name :	
Valid. Enter new FCORE schema name : >>FCRHOSTIST	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid.	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password :	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password :	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >*******	
Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>*******	

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 set for flavor: FCORE UBS (14.4.0.00 release) OBPM (14.4.0.00 release)	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
	SCHEMA_PASS	Password for existing OBAPI schema	export SCHEMA_PASS=devops#ob api182
	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=OBDXEHMS
	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-FCUBS HOST schema name	export ENTITY_EHMS_FCORE_FCU BS_SCHEMA_NAME=FCRU BSHOST
	FCORE		
Environment variables to	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU1
set for flavor: OBAPI (Third- party HOST)	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] OBEX_Installer]6 python runInstaller.py --silent --addEntity
Password validated for OBEX_183INS
Execution of DB script for OBEX_BUI 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

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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

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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
 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.

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