Installation Guide Oracle Banking Digital Experience Patchset Release 21.1.4.0.0

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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 <u>Related Information Sources</u>

For more information on Oracle Banking Digital Experience Patchset Release 21.1.4.0.0, refer to the following documents:

Oracle Banking Digital Experience Installation Manuals



2. Introduction

2.1 Purpose of the Document

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

<u>Home</u>



3. Prerequisites

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

For OBDX pre-requisite software setup refers document "Oracle Banking Digital Experience Installer Pre-Requisite Setup Manual".

Installer Pre-requisite verification

Post installation of OBDX 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.

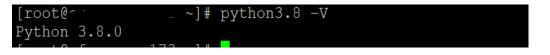
rpm -qa | grep oracle

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__

```
[root@rfac_man___3 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 urwid
>>> urwid.__version___
'2.1.2'
```

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

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

Step 3: Similarly import cx_Oracle and check version

import cx_Oracle (Press Enter)

cx_Oracle.version

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

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

Note: Ensure cx_Oracle 8.1.0 supported version is installed. Above command should reflect the same.

Python 3.8 for Linux Operating System : --

Step 1: Execute below commands to install the python 3.8.0



dnf groupinstall 'development tools'

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

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

tar -xzvf Python-3.8.0.tgz

cd Python-3.8.0

./configure --enable-optimizations

make altinstall

python3.8 -version

[root@^ -	_	~]#	python3.8	-V
Python 3.8.0				
	170	ר ע		

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@o Python-3.8.0]# pip3.8 install cx-Oracle==8.1.0 /
collecting cx-Oracle==8.1.0
Downloading https://files.pythonhosted.org/packages/5f/3a/f63cf2cee42b32874af13f0a2deb5d4a1448b2fc39bff36ab11e3369f00c/cx_Oracle-8.1.0-cp38-cp38-manylinux1
x86 64.whl (825kB)
I 829kB 138kB/s
nstalling collected packages: cx-Oracle
Successfully installed cx-Oracle-8.1.0

pip3.8 install urwid==2.1.2

[most Action] Distance 2 0 01# min2 0 inst	+ $ 1$ 2 $+$ $ 1$ 2 $+$ $ -$
[root@ci Python-3.8.0]# pip3.8 inst	Lall urwid==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, si	ince package 'wheel' is not installed.
Installing collected packages: urwid	
Running setup.py install for urwid do	one
Successfully installed urwid-2.1.2	

Home



4. Installation

Pre-Installation

• Install all the prerequisite software and packages mentioned above

Steps of Installation

- Download and extract the installer zip file (Base).
- Navigate to "<OBDX 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
	OBDX_DATABASE_HOST NAME	Enter the hostname of the database server which would host the database schema for OBDX	abc.xyc.com
	OBDX_DATABASE_PORT	Enter the port number of the database listener	1521
	OBDX_DATABASE_SID	Enter the Oracle Service Name for database instance	obdxdb.in.oracle .com
	OBDX_DATABASE_SYS_U SER	Enter the username with 'sys' privileges	Sys
DB details (for OBDX	POST_FIX	For OBDX schema name like "OBDX_DEV" POST FIX is 'DEV'. SHOULD BE IN UPPERCASE ONLY.	DEV
schema)	OBDX_DBA_DIRECTORY_ NAME	Enter the directory name in which you want the OBDX schema tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBDX_DIR
	OBDX_AUDIT_DBA_DIREC TORY_NAME	Enter the directory name in which you want the OBDX AUDIT tablespace datafile to be created. Enter Logical name (i.e. DIRECTORY_NAME column) from DBA_DIRECTORIES table NOT the physical path.	OBDX_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 OBDX- EXT (B1A1) HostInterfaceschema name you want installer to create as new schema.	EHMS182S CHEMA
		SHOULD BE IN UPPERCASE ONLY.	
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 OBDX- 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	obdxehms.in .oracle.com
	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



		Instali		
Component	Parameter	Description	Example	
	MIDDLEWARE_HOM E	Oracle Weblogic Server home path. Example /home/obdxuser/Oracle/Middleware/ Oracle_Home - where you have sub- directories like wlserver,oracle_common etc.	/home/obdxuser /Oracle/Middlew are/Oracle_Ho me	
	JAVA_HOME	Path where JAVA (JDK) is installed	/home/obdxuser /jdk18	
	FLYWAY_HOME	Path where FLYWAY is installed	/home/obdxuser /flyway-7.9.2	
	INSTALLATION_HO ME	Path where OBDX 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/obdxuser /obdx	
	WLS_DOMAIN_PAT H	Path where OBDX Weblogic domain should be created. Users can now enter custom path as per their requirements.	/home/obdxuser /domains	
Weblogic server details	WLS_CLUSTER_NA ME	Name of cluster; this cluster would have one single managed server.	obdx_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	

WLS_NODE_PORT	Node Manager Port. It is the port used by Node Manager to be configured for OBDX 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 OBDX components and associated resources. Custom ports are supported.	9001
WLS_DOMAIN_NAM E	Enter Weblogic Domain name.	obdx_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 OBDX 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/obdx/ FileUpload
WLS_JMS_AUDIT_P S (to be configured for all OBDX 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/obdx/A udit
WLS_JMS_REPORT _PS (to be configured for all OBDX 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/obdx/R eports
WLS_JMS_JPA_PS (to be configured for all OBDX 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/obdx/J PA



		directory inside INSTALLATION_HOME.	
	WLS_JMS_EXTSYS RECEIVER_PS (to be configured for all OBDX 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/obdx/R eceiver
	WLS_JMS_EXTSYSS ENDER_PS (to be configured for all OBDX 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/obdx/S ender
OBDX Application Administrator	OBDX_ADMIN_USE RNAME	Set username for OBDX 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	OBDX_ADMIN_EMAI L	Enter the Email ID for OBDX application admin user.	superadmin@or acle.com
	OBDX_ADMIN_CON TACT_NO	Enter the mobile number for OBDX 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 OBDX pre-requisite software installation (or has ownership on Oracle Weblogic home directory)

Ensure OBDX 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 <OBDX INSTALLER DIR>/

[-		OBD	K_Insta	aller]\$ 1:	s -	ltr	
tolai 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	K Insta	aller	15			

• 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
Flease select the host system from the options listed below :	
Oracle FLEXCUBE Universal Banking	
Oracle FLEXCUBE Core Banking	
Third Party System	
Use (1/1) to select between options	

Oracle FLEXCUBE Universal Banking (OBDX 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 (1/1) to select between options	

Mode of Installation - New Installation

New installation

In-case of a fresh installation of OBDX 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.	
»	
Valid.	
Enter password for the OBPM schema 'COD144_ITR' (Existing) :	
»······	
Enter password for the OBFM schema 'BIA1_OBDXF2111INS' (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 OBDX schema would be created
- OBDX schema password
- Weblogic console administrator user password
- SYS privilege user password where UBS host schema exists
- Existing UBS HOST schema password
- New OBDX EHMS schema password
- Password for OBDX 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 (OBDX 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' :	
»	
Enter password for the Admin User 'superadmin' :	
»••••••	

Enter below passwords:

- SYS privilege user password where OBDX schema would be created
- OBDX schema password
- Weblogic console administrator user password

OBDX application admin user password

Oracle FLEXCUBE Core Banking (OBDX 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 OBDX schema would be created
- OBDX schema password
- Weblogic console administrator user password
- SYS privilege user password where FCORE host schema exists
- New OBDX EHMS schema password
- Password for OBDX application administrative user

Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX 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 OBDX schema would be created
- OBDX schema password
- Weblogic console administrator user password
- SYS privilege user password where OBPM host schema exists
- Existing OBPM HOST schema password
- New OBDX EHMS schema password
- Password for OBDX application administrative user

Mode of Installation – Reinstall

Please select the options listed by	he installation mode below :	from the	
	New Installation		
	Reinstall		
(//) to select between or	otions		

In-case of an existing OBDX 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 OBDX database schema (and OBDX EHMS schema in-case of OBDX UBS;OBPM and FCORE flavor).

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

Key pointers

- OBDX schema (and OBDX EHMS schema in-case of OBDX 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.

[devops@obdxwls 080X_Installer]\$ python3.8 runInstaller.py
>>>> STARTING OBDX FRODUCT INSTALLATION <<<<
Starting OBDX Database Installation with OSPM FLAVOR
Treating Tablespace
Fablespace Created
Creating User
Jser Created
Creating Role
Role Created
Executing Grants
NEXX Scripts execution on progessPlease hold on it might take sometime NEXX Scripts execution Successfully
DBDX Scripts execution Successfully
SUCCESSFULLY installed OBDX database
Starting OBFM Database Installation Creating Tablespace
Creating Tablespace
Fablespace Created
Creating User
Jser Created
Creating Role
Roles Created
Decouing Grants
Executing OBFM Grants
DBPM Scripts execution on progessPlease hold on it might take sometime
Scripts execution Successfully
NUCCESSFULLY installed OBFM database Decuted DUG, MF_CONTF6_LL, D.sql successfully
Executed DIGX_FW_CONFIG_ALL_0.sql successfully
Executed DIGX_FW_ABOUT_OBPM.sql successfully
Executed DIGX_FW_CONFIG_VAR_B.sql successfully
Executed DIGX_FW_CONFIG_UBS_ALL_0.sql successfully
Policy seeding successful
Starting WEBLOGIC Setup and Configuration
Knitializing WebLogic Scripting Tool (WLST)
Python scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt sight away.

When the installation completes, the below message is displayed

<pre>tallables/app/components/individuals/digx-sef.war], to obdx_cluster .> .Jun 4, 2021 li47:11 AM UTC> <info> <jzee deployment="" spi=""> <bea-260121> <initiating .="" [archive:="" app="" application,="" components="" deploy="" digx-security="" for="" individuals="" installables="" obdx_cluster="" operation="" r="" s="" to="" war],=""></initiating></bea-260121></jzee></info></pre>	
(Jun 4, 2021 11:47:19 AN UTC> <info> <12EE Deployment SFI> <bea-260121> <initiating .="" [archive:="" app="" application,="" cluster="" components="" deploy="" digx-sms="" digx-sms.war),="" for="" individuals="" obdx="" operation="" scraterialables="" to=""></initiating></bea-260121></info>	h/obdx/OBDX_Installer/in
<pre>realiables/app/components/individuals/digx-smstwar1, to obtx cluster .> Jun 4, 2021 ll:47:24 AM UTC> <info> <jzee deployment="" spi=""> <eea-260121> <initiating [archive:<br="" application,="" deploy="" digx-smsbanking="" for="" operation="">ller/installables/app/components/individuals/digx-smsbanking.war1, to obdx cluster .></initiating></eea-260121></jzee></info></pre>	/scratch/obdx/OBDX_Insta
Jun 4, 2021 11:47:27 AM UTC> <fnfc> <jzee deployment="" sf1=""> <ben-260121> <fnitinting [archive:="" application,="" deploy="" digx-social="" for="" operation="" scr<br="">/installable/ano/comments/individuals/digx-social.var1. to obdx cluster ></fnitinting></ben-260121></jzee></fnfc>	atch/obdx/OBDX_Installer
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Successfully Setup and Configured WEBLOGIC	
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<	

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5. Installation using Silent Mode

This chapter describes how to run the OBDX 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 "<OBDX 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
	FLAVOUR	Flavour for installation	export FLAVOUR=OBPM or export FLAVOUR=FCORE
Environment variables to set for		UBS for Oracle FLEXCUBE Universal Banking 14.4.0.0.0 (OBDX with UBS)	
flavor:UBSFC ORE		FCORE for Oracle FLEXCUBE Core Banking 11.8.0.0.0 (OBDX with FCORE)	



1	1	
MODE	Mode of installation. 'New' in-case of a fresh installation of OBDX for the first run on server	export MODE=New or export MODE=Clean
	'Clean' in-case of an existing OBDX installation that you want to overwrite OR in case of a previously failed installation or re- installation	
DB_SYS_PASSWORD	Sys user password of OBDX database (Existing)	export DB_SYS_PASSWORD=obdx18 2sys
SCHEMA_PASS	Password for new schema on OBDX database	export SCHEMA_PASS=obdx#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 =obdxehmssys
EHMS_HOST_SCHEM A_NAME_PASS ** Only required for UBS & OBPM Host. Ignore this parameter in-case of FCORE Host	Password of existing EHMS HOST schema (Existing)	export EHMS_HOST_SCHEMA_NAME _PASS =obdxehmshost
EHMS_SCHEMA_PASS	Password for new OBDX EHMS schema on EHMS HOST database	export EHMS_SCHEMA_PASS=obdx1 82ehms



	DBAuthPassword	Password for new OBDX Administrator user of OBDX application (In-case of OUD as provider, password should similar to one used while user creation in OUD(or User Password field))	export DBAuthPassword=obdxadmn
	FLAVOUR	Flavour for installation ' OBDX ' for Third Party System 1.0 (OBDX with THP)	export FLAVOUR=OBDX
Environment variables to set for flavor:	Mode	Mode of installation. 'New' in-case of a fresh installation of OBDX for the first run on server 'Clean' in-case of an existing OBDX installation that you want to overwrite OR in case of a previously failed installation or re- installation	export MODE=New or export MODE=Clean
OBDX (Third-party HOST)	DB_SYS_PASSWORD	Sys user password of OBDX database (Existing)	export DB_SYS_PASSWORD= obdx182sys
	SCHEMA_PASS	Password for new schema on OBDX database	export SCHEMA_PASS=obdx#182
	DomainPassword	Password for Weblogic Administrator console	export DomainPassword=wlsadmn



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

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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Buccessfully Setup and Configured WEBLOGIC
>>>> OBDX PRODUCT INSTALLATION COMPLETED SUCCESSFULLY <<<<

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6. Installer Verification

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

Log Description	РАТН
Summarized Installer Activity Log	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/obdx_installer.log</ddmonthhhmm></obdx>
Summarized Database Logs	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/DB_installation.log</ddmonthhhmm></obdx>
Detailed OBDX DB Logs per SQL file	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/OBDX/OBDX.log</ddmonthhhmm></obdx>
Detailed EHMS schema Logs per SQL file (specific to EHMS host	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/<ehmshost>/<ehmshost>.log</ehmshost></ehmshost></ddmonthhhmm></obdx>
system only)	<ehmshost> - values such as; FCORE; OBPM;</ehmshost>
Weblogic Configuration Logs	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/app/obdx_wls_post.log</ddmonthhhmm></obdx>
	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/Entitlement.log</ddmonthhhmm></obdx>
	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/Task.log</ddmonthhhmm></obdx>
	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/Dashboard_seed.log</ddmonthhhmm></obdx>
Detailed OBDX policy seeding logs	Note: Check for SEVERE keyword; If found refer to Troubleshot section to re-run the policy
	<obdx dir="" installer="">/ExecInstances/<ddmonthhhmm> /logs/db/seedPolicies.log</ddmonthhhmm></obdx>
Policy seeding execution Log	Note: Should be empty if no errors during policy execution. In-case non-empty refer to Troubleshot section to re-run the policy

Check all the logs for any errors.

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7. Installer Scope

OBDX Installer currently covers below activities:

Flavor: Third Party system (OBDX with THP)

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



Flavor: Oracle FLEXCUBE Core Banking (OBDX with FCORE)

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
	OBDX DB Setup	Load DB object (DDL's and DML's)	\checkmark	\checkmark
		Compile Schema	\checkmark	\checkmark
		Policy Seeding	\checkmark	\checkmark
		Create Tablespace	\checkmark	NA
OBDX with FCORE	EHMS DB Setup	Create Schema and Role	\checkmark	$\sqrt{(\text{drop and recreate objects})}$
		Grants	\checkmark	\checkmark
		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	\checkmark
	Weblogic Setup and Configuration	Configure JDBC	\checkmark	\checkmark
	g	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
	OBDX Configuration	Copy config files into OBDX Installation Home	\checkmark	$\sqrt{(\text{Delete old and copy new from installer zip)}}$



	Flavor: Oracle FLEXCUBE Universal	Banking with Oracle Banking	Payments (OBDX with OBPM)
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Flavor	Activity	Detailed Activity List	New Installation	Reinstall
		Create Tablespace	\checkmark	NA
		Create Schema and Role	\checkmark	(drop and recreate objects)
		Grants	\checkmark	
	OBDX DB Setup	Load DB object (DDL's and DML's)	\checkmark	\checkmark
		Execute OBPM HOST specific scripts	\checkmark	\checkmark
		Compile Schema	\checkmark	
		Policy Seeding	\checkmark	
OBDX with OBPM (14.4.0.0.0 version)	EHMS DB Setup	Create Tablespace	\checkmark	NA
		Create Schema and Role	\checkmark	(drop and recreate objects)
		Grants	\checkmark	
		Load DB object (DDL's and DML's)	\checkmark	\checkmark
		Compile Schema	\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		
		JTA	\checkmark	\checkmark
		Enable Production Mode	\checkmark	\checkmark



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

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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	nnector >Roles >com.ofss.digx.connector.rar >Summary of De of Environment	ployments >com.ofss.digx.connector.rar >Roles >Summary of
Click the Lock & Edit button to modify, ac delete items in this domain.	ld or Home Page		
Lock & Edit	- Information and Resources		
Release Configuration	Helpful Tools	General Information	
omain Structure	 Configure applications 	 Common Administration Task Descriptions 	
BDX INS TEST	 Configure GridLink for RAC Data Source 	 Read the documentation 	
DOX_INS_IEST	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 	
-Environment	 Recent 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
ow do I	Partition Work Managers		Log Files
		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

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Click the Lock & Edit button to modify, add or delete items in this domain.	_	y of Deployments	_						
Lock & Edit Release Configuration	This		applications	s and standalone application modules installed to this					
OBDX211TEST1	You o	an update (redeploy) or delete	installed app	olications and modules from the domain by selecting	the check	oox next to t	he application name an	d then using the o	control
Environment	To in	tall a new application or modul	e for deploy	ment to targets in this domain, click Install .					
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ORACLE' WebLogic Server Ad	ministration Console 1	4.1.1					
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View changes and restarts	Home >Summary of	of Deployments >com.ofss.digx	connector >F	Roles >Summary of Dep	oloyments >com.o	ofss.digx.connect	or >Roles > com.ofss.dig :
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for com.o	fss.digx.connector					
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Release Configuration	Roles Policies	Outbound Credential Ma	ppings Int	bound Principal Mappin	gs Principals		
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	WLS User	ŵ		EIS User		Out	ound Connection Poo
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	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.co	onnector >Roles
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for com.ofss.digx.connector	
Lock & Edit		Notes
Release Configuration Domain Structure OBDX211TEST1 ID-Environment Deployments ID-Services ID-Security Realms ID-Interoperability ID-Diagnostics	Roles Policies Outbound Credential Mappings Inbound Principal Mappings Principal Outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular outbound for this resource adapter. Customize this table Outbound Greet ential Mappings Outbound connection pools in the resource adapter, or specify particular outbound for this resource this table Outbound Greet ential Mappings Outbound Connection pools in the resource adapter, or specify particular outbound for this resource adapter.	
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	EIS User	Outbound Connection
	There are	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	e a New Security Credential Mappi	ng				
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 Map	•				
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 or delete items in this domain.	Create a New Security Credential Mapping
Lock & Edit Release Configuration	Back Next Finish Cancel WebLogic Server User
Domain Structure OBDX_INS_TEST Domain Partitions Environment	Select the WebLogic Server user that you would like to map an EIS user to. Selecting 'User for creating initial connections' will configure the user that will be used for creating connections when the resource adapter is first started. Selecting 'Default User' will configure the user that will be used as the default for any authenticated WebLogic Server i does not have a credential mapping specifically for them. Selecting 'User authenticated webLogic 'will configure the user that will be accessed of an unauthenticated webLogic 'will configure the user that will be accessed for an unauthenticated webLogic 'will configured User' you must type in the WebLogic Server user that you are configuring. This user must be a configured WebLogic Server user.
Deployments Services Security Realms Interoperability	User for creating initial connections Default User
-Diagnostics	O Unauthenticated WLS User
	Configured User Name
	WebLogic Server User Name:
How do I	Back Next Finish Cancel
Create outbound credential mappings	
System Status	
Health of Running Servers as of 10:59 AM	

Enter "EIS User Name" should be set to AES_KEY

Enter "EIS Password" . Password should be any 16 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:
Security RealmsInteroperability	* 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:		7
EIS USEr Name:	AES_KEY	
Enter the EIS Password:		
		-
* EIS Password:	•••••	
* Confirm Password::		1
Back Next Finish Cancel		

Check AES_KEY mapping is created successfully.

Customize this table						
Outbound Credential Mappings						
New Delete						
🔲 WLS User 🗞	EIS User	Outbound Connection Pool				
Default AE5_KEY ra/DIGXConnectorAE5						
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 OBDX application.

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

Functionality / Module	OutBound Connection Pool Name
VAM	ra/DIGXConnectorOBVAM

Oracle FLEXCUBE Universal Banking (OBDX with UBS)

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

Foreign Server

 Login into Weblogic Admin console (OBDX 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)					
Click 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					
Ne	Delete					

Settings for UBSSystemHodule												
Configuration	Iguration Subdeployments Targets Security Notes											
This page displa	This page displays general information about a 3HS system module and its resources. It also allows you to configure new resources and access existing resources.											
Name:	Name: UBSSystemHodule				The name of this JMS system module. No	ore Info						
Scope: Global Specifies if the 2HS system module is accessible within the domain, a part						ssible within the domain, a partitic	m, or a resource	group template.				
Descriptor File	Name:					jms/ubssystemmodule-jms.xml			The name of the JMS module descriptor fil	e. More Info		
This page summ	This page summarizes the 3HS resources that have been created for this 3HS system module, including queue and topic destinations, connection factories, 3HS templates, destination sort keys, destination quota, distributed destination, foreign servers, and store-and-forward parameters.											
	Customize this table											
	Summary of Resources Oil the Lock of Additions in the Change Center to activate all the buttoms on this page.											
New Delete	New Domin							Showing 1 to 1 o				
🗉 Name 🏟	Name & Type JNDI Name Subdeployment Targets											
UBSForeig	UBSForeignServer VAR UBSSoldpapment odds_cluter											
New Delete	New Dotters Showing 1 to 1 o											

• Click on UBSForeignServer

Settings for UBSForeignServer					
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	
A foreign server represents a JNDI provider that resides outside foreign server.	a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of
🔁 Name:	UBSForeignServer
JNDI Initial Context Factory:	weblogic.jndi.WLInitialConte:
借 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		Ç
👔 Home Log Out Preferences 🔤 Record	Help	Welcome, weblogic Connected to: OBDX201U
Home >Summary of Deployments >Summary of	JMS Modules > UBSSystemModule > UBSForeignServer	
ettings for UBSForeignServer		
Configuration Subdeployment Notes		
General Destinations Connection Factor	ories	
Save		
	that resides outside a WebLogic Server. It contains information that be defined on one JNDI directory. Use this page to configure a foreig	allows WebLogic Server to reach the remote JNDI provider. This way, a number of connection factory and 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 referenced webLogic JNS objects within the same cluster. More Info
JNDI Properties Credential:		Any Credentials 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 management, use the Credential field. Using the Properties field results in the credential being stored and displayed as originally entered More Info. .
Confirm JNDI Properties Credential:		
JNDI Properties:		Any additional properties that must be set for the JNDI provider. These properties will be
java.naming.security.principa <ehms username="" wls=""></ehms>	1=	passed directly to the constructor for the JNDI provider's InitialContext class. More Info



Messages	nmary of JMS Mo		iSystemModul	e >Summary of JM:	5 Modules >UBSSystemModule >Sumn	nary of JMS Modules >UBSSystemModule >UBSForeig	nServer >Configuration >NOTIFY_DEST_QUEUE_FCI	08 >UBSForeignServer	
California (an	UDCCasaina	C							
Settings for	ettings for UBS-ForeignServer								
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

	ministration Console 12c					
Change Center	🔞 Home Log Out Preferences 🔝 Record Help	9	Welcom			
View changes and restarts Pending changes exist. They must be activated to take affect.	Home - Summary of 2015 Holders - VEDSystemHolder Summary of 215 Holders - SEES years of 215 Holders - VEDSystemHolder - SEES years - SeeSignation - NOTIFY_SEES_QUEUE_SCER - VEDSynappedereer Hessages of Setting updated successfully.					
Activate Changes	Settings for UBSForeignServer					
Undo All Changes	Configuration Subdeployment Notes					
Domain Structure	General Destinations Connection Factories					
OBDX_INS_TEST	Save					
Environment Deployments Services Security Realms	A freego server represents a XXXI provider that resides outside a WebLapc Server. It certains information that allow WebLapc Server to reach the remote XXXI provider. This way, a number of connection factory and destination objects (queues or topics) can be defined on one XXXI foreign server.					
El-Diagnostics	of Name:	UBSForeignServer	The name of this foreign server. Hore Info			
	JNDI Initial Context Factory:	weblogic jndi.WLInitialConte:	The name of the class that must be instantiated to access the JHOI provider. This class the vender that are being used. Hore Info			
How do L_	and Indi Connection URL:	xx.xx.xx.xx	The URL that WebLogic Server will use to contact the JNDI provider. The syntax of the being used. For WebLogic JNS, leave this field blank if you are referencing WebLogic J Jafo			
Create foreign connection factories Create foreign destinations	JNDI Properties Credentisk		Any Credentials that must be set for the JNDI provider. These Credentials will be part of the constructor for the JNDI provider's InhalCentext data. Note: For secure credential the Properties that results in the condential learns started and signaport as anginable to the constructor of the secure started and secure and the secure started and secure started as anginable to the secure started secure started and secure started and secure started as anginable to the secure started			
System Status	Confirm JNDI Properties Credential:					
Health of Running Servers as of 2:20 PM Parled (0) Contral (0) Overlaaded (0) Warning (0) OK (1)	JNDI Properties: java.naming.security.principal-infra		Any elificated properties that much lead to the 2001 provider. These properties will 2002 provider's instancement data. Have left			
	🗍 🚓 Default Targeting Enabled		Specifies whether this 3HS resource defaults to the parent module's targeting or uses t mechanism. Mare Info			
	Save					

	ministration Console 12c						
Change Center	Heave Leg Out Preferences 🖬 Record Help Welkow Welkow						
View changes and restarts	Horne > Summary of 2HS Modules = UBSSystemHodule > Su Hessages	htema >Summary of 3HS Molules >URESystemModule >Summary of 3HS Molules >URESystemModule >Summary of 3HS Molules >URESystemModule >URESystemMod					
Click the Lock & Zult button to modify, add or delate items in this domain.	All changes have been activated. No restarts are n	er ensary.					
Lock & Edit	Settings for UBSForeignServer						
Ratease Configuration	Configuration Subdeployment Notes						
Domain Structure	General Destinations Connection Pactories						
OBDX_INS_TEST P Domain Partitions	Click the Lock & Edit button in the Change Center to	modify the settings on this page.					
Deployments	Save						
8) - Servitas Security Realms. 8) - Intergenability RI- Diagnostics	A foreign server represents a 3NDE provider that resid foreign server.	les outside a WebLogic Server. It contains information that allove WebLogic Server to reach the remote 200	DI provider. This way, a number of connection factory and destination objects (queues or topics) can be defined on one 26				
	🕂 Name:	UBSForeignServer	Oracle Bentive Extensions for Diationic				
	JNDI Initial Context Factory:	weblogic indi.WLInitiatConteil	1 V Wait while accessing server Stop with the JNDI provider. This d				
How do I III	a 3HDI Connection URL:	**.**.**	The (JRL that WebLogs: Server will use to contact the JNDI provider. The units of being used. For WebLogs: JNS, leave the field black if you are references WebLogs balls				
Create foreign destinations	3ND1 Properties Crodential:		Any Credentials that must be set for the 2HD1 provider. These Condentials will be pa the constructor for the 3HD1 provider's initial/context class. Note: For excerce contem- the Proceeties field receipt in the credential beam stored and dealayed as originally.				
System Status IB Health of Running Servers as of 3:22 PH	Confirm JND1 Properties Credential:						
Pailed (0)	JNDI Properties:		Any additional properties that must be set for the INDI provider. These properties w				
Critical (0) Overloaded (0) Warning (0) OK (1)	java.naming.accurity.principal-infra		2001 prevater's local/context class. More loft				
	🔲 👸 Default Targeting Enabled		Specifies whether this 3HS resource defaults to the parent module's targeting or use machanism. Hore Enfo				
	Sava						



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

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

Foreign Server

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

Settings for OBPI	MSystemModule							
Configuration	Subdeployments	Targets 5	Security	Notes				
This page displa	iys general informatio	on about a JM	1S system	module an	d its resource	es. It also allows you to configure new resources and a	ccess existing resources.	
Name:						OBPMSystemModule		The name of this JMS system module. More Info
Scope:						Global		Specifies if the JMS system module is accessible within
Descriptor File	Name:					jms/obpmsystemmodule-jms.xml		The name of the JMS module descriptor file. More In
		rces that hav	ve been cre	ated for th	nis JMS syster	m module, including queue and topic destinations, con	nection factories, JMS templates, destination sort keys, d	estination quota, distributed destinations, foreign servers, a
Customize this								
Click the Lock 8	Edit button in the C	hange Cente	r to activa	te all the b	uttons on this	s page.		
New Delete	[New] [Delete]							
🔲 Name 🐟	□ Name ↔ Type INDI Name Subdeployment							
OBPMFore	OBPMForeignServer Foreign Server N/A OBPMSubdeployment							
New Delete	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 obdx.externalsystem.obpm.notification.mdb.ear application, make changes similar to obdx.externalsystem.ubs.notification.mdb.ear before deployment.

Fileupload with UBS

Refer below document for File upload configuration with UBS

• Oracle Banking Digital Experience File Upload Report Configuration

Origination with UBS

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

• Oracle Banking Digital Experience 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 Digital Experience OHS User Interface Configuration

Feedback module:

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

WAR	deploym	ents and	dependen	cies
-----	---------	----------	----------	------

	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				

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 OBDX.
4	digx-accountrelationship		To set up the transaction access logic for Bank's retail customers from OBDX based on their account -mode of operation or relationship.
5	digx-analytics		Capturing UI events for analytics
		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	
10	digx-budget	digx-payment digx-spendanalysis	Budget management for retail 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
16	digx-bulktradefinance	digx-bulkadmin digx-tradefinance	File upload in Trade finance for corporate user
17	digx-bulkvam	digx-bulkadmin digx-vam	File upload in Virtual account 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

Note – After executing Post installation steps please refer **User Manual Oracle Banking Digital Experience Core** - **Section 40:Security Keys** and perform **API key generation** to help authentication server handle non authenticated requests.

Home



9. OBDX 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 OBDX Application can be achieved with below Steps

- 1. Go to the OBDX 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 button to allow others to edit the formain.	Configuration Protocols Logging Debug Hontzman Control Deployments Services Security Nates							
Lock & Edit	General HTTP Data Source Diagnostic Images							
Release Configuration	58							
	Use this page to define the general lagging settings for this server.							
Deployments B -Services Security Realms	n Log 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 MBean. For example, for a server log, it isSERVER_NMME.log. More info					
-Interoperability	- Rotation							
B Diagnostics	🚓 Rotation type:	By Size 🐱	Criteria for moving old log messages to a separate file. More Info					
iow do I 🛛	Rotation file size:	5000	The size (1 - 207159 kilohris) that triggers the server to move log messages to a separate file. The default is 500 kilohries. After the log file maches the specified maximum size, the next time the server checks the file size, it will remane the current log file a SERVER_VARMERSigners and create a new one to stare subsequent messages. (Dequires that you specify a file notation type of Size.) Here Infin					
	Begin rotation time:	00.00	Determines the start time (hour and minute) for a time-based rotation sequence. More ${\sf Infe}_{\sf init}$					
View and configure logs Configure java.ubil.logging logger levels	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 TDHE) More Info					
Change server log file name and location Specify messages for standard out Rotate log files	✓ 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 orTIME.) Hore Infi					
Forward messages to the domain log Specify severity level for loggers	Files to retain:	100	The maximum number of log files that the server creates when it retates the log. This number does not include the file that the server soes to store current messages. (Requires that you enable Number of Files Limited.) More Info					
Redirect JVM output Filter log messages	🖞 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 Infi					
iystem Status 🛛	Rotate log file on startup		Specifies whether a server rotates its log file during its startup cycle. The default value in production mode is false. More Info					
Health of Running Servers as of 2:31 PM	- V Advanced							
Failed (0) Oritical (0)	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 dates. Here Info					
Overloaded (0) Warning (0)	Hinimum severity to log:	Info 🗸	The minimum seventy of log messages going to all log destinations. More Info					
OK (2)	d Loger severity properties 001.con.ofss.fcs.trfo con.ofss.trror 00		The configuration of the different logare secretizes logar (burners, The values are used the producted Society actings savely Emergency, effect ORGA, Error, Venergi, Notice, Effe, Dedag, Trees, Hare Erfs					



10. OBDX 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
e digx-accountaggregation	Active	🖋 ок	Web Application	obdx_cluster	100
e 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
😢 🥫 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		
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



OBDX Product Verification

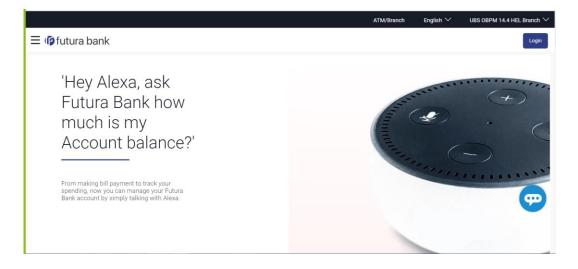
😢 🥫 digx-forexdeal	Active	🖋 ок	Web Application	obdx_cluster	100
街 🥫 digx-goal	Active	🛩 ок	Web Application	obdx_cluster	100
街 🐻 digx-insight	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-invoice	Active	🖋 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-liquiditymanagement	Active	🖋 ок	Web Application	obdx_cluster	100
🗄 🥫 digx-loan	Active	🖋 ок	Web Application	obdx_cluster	100
e digx-loanapplication	Active	🖋 ок	Web Application	obdx_cluster	100
E digx-location	Active	🛩 ок	Web Application	obdx_cluster	100
🗄 👩 digx-login	Active	🖋 ок	Web Application	obdx_cluster	100
🗄 🥫 digx-me	Active	🖋 ок	Web Application	obdx_cluster	100
🗈 👩 digx-mobile	Active	🖋 ок	Web Application	obdx_cluster	100
🗄 👩 digx-nlp	Active	🖋 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-oauth	Active	🖋 ок	Web Application	obdx_cluster	100
😢 🥫 digx-obc	Active	🖋 ок	Web Application	obdx_cluster	100
B digx-origination	Active	🖋 ок	Web Application	obdx_cluster	100
🗄 🥫 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
			I		
🖻 🐻 digx-rewards	Active	🖋 ок	Web Application	obdx_cluster	100
🗄 🥫 digx-scf	Active	🛩 ок	Web Application	obdx_cluster	100
	Active	🛩 ок	Web Application	obdx_cluster	100
ngdigx-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
🗈 🥫 digx-ukpisp	Active	🛩 ок	Web Application	obdx_cluster	100
🗄 🥫 digx-user	Active	🖋 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-vam	Active	🖋 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-wallet	Active	🛩 ок	Web Application	obdx_cluster	100
🗈 🥫 digx-wm	Active	🛩 ок	Web Application	obdx_cluster	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 (OBDX with UBS)

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

Oracle Banking Digital Experience 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 (OBDX 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 Digital Experience 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 Digital Experience 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. OBDX 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
('obdx.host.account.uniqueness','ExtSystemsConfig','BRANCH','<ENTITY_ID>','ofssu
ser',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
('obdx.host.accountbranch.delimiter','ExtSystemsConfig','@~','<ENTITY_ID>','ofss
user',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 OBDX with supported host system follow below steps.

- Add entity through OBDX Web application, using
 - > User Manual Oracle Banking Digital Experience System Configuration
- In case of OBTFPM integration, following document should be referred.
- Oracle Banking Mid-Office Product Setup and Configuration Guide Running OBDX 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 OBDX software installation (or has ownership on Oracle Weblogic home directory)

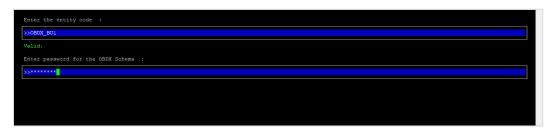
Ensure OBDX installation details (OBDX DB; WLS etc) are maintained in installer.properties and user running the installer has read-write permissions.

- From your terminal navigate to <OBDX 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
- OBDX 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 OBFM host schema name :
Enter the password for existing OBFM host schema :
Enter new OBPM BlAl schema name :
Enter new schema password :
Enter country code :

Enter below details:

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

Installation Status in case of UBS / OBPM

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

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

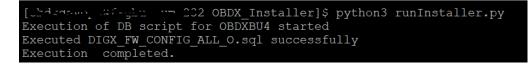
When the installation completes, the below message is displayed



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

Post successful installation refer to "Section 8: Post Installation steps" for manual steps to be performed for UBS additional entity (sub-section : Oracle FLEXCUBE Universal Banking (OBDX 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 :
52
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 :
»
Use $(1/1)$ keys to navigate between questions and press 'enter' after editing them

Enter the FCORE DB hostname :
>>mumaa012.in.oracle.com
Velid.
Enter the FCORE DB port :
5>1520
Valid.
Enter the FCORE SID :
S>obdxhst.in.oracle.com
Valid.
Enter the Directory name for Tablespace creation (DBA_DIRECTORIES) :
S>TB5_DIR
Valid.
Enter the username with 'sys' privileges :
Soaya
Valid.
Enter password for the user with sys privileges :
Saurana
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 :	
7	
Use $(1/i)$ keys to navigate between questions and press 'enter' after editing them	
Enter the existing FCR schema name :	
>>FCRROST	
Valid.	
Enter the existing FCUBS schema name :	
Enter the existing FCUBS schema name : >>FCRUBSHOST	
>>FCRUBSHOST	
>>FCRUBSHOST Valid.	
>>FCRUBSHOST Valid. Enter new FCORE schema name :	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRMOSTIST Valid.	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password :	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
>>FCRUBSHOST Valid. Enter new FCORE schema name : >>FCRHOSTIST Valid. Enter new schema password : >>	
SPECEDBSHOST Valid. Enter new FCORE schema name : SPECEHOSTIST Valid. Enter new schema password : SPECEHOST	

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 (OBDX with OBPM)).



12. Multi-entity installation using Silent Mode

This chapter describes how to run the OBDX 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 OBDX software installation (or has ownership on Oracle Weblogic home directory)

Steps for Silent-Mode Installation

• Set the environment variables, as shown below.

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

Below parameters should be set in environment variables

	Parameter	Description	Example
Environment variables to	Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU7
set for flavor: FCORE UBS (14.4.0.0.0 release)	SCHEMA_PASS	Password for existing OBDX schema	export SCHEMA_PASS=devops#ob dx182
OBPM (14.4.0.0.0 release)	ENTITY_EHMS_DAT ABASE_HOSTNAM E	Hostname of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_ HOSTNAME=xx.xx.xx.xx



Parameter	Description	Example
ENTITY_EHMS_DAT ABASE_PORT	Port of the EHMS HOST database host server	export ENTITY_EHMS_DATABASE_ PORT=1521
ENTITY_EHMS_DAT ABASE_SID	EHMS Host database Service Name	export ENTITY_EHMS_DATABASE_ SID=obdxdb.in.oracle.com
ENTITY_EHMS_DB A_DIRECTORY_NA ME	Oracle Directory name in which you want the EHMS (HostInterface) schema datafile (dbf).	export ENTITY_EHMS_DBA_DIREC TORY_NAME=TBS_DIR
	Enter only the name 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
Environment variables to set for flavor: OBDX (Third- party HOST)	FCORE Entity_Code	Entity code which has been entered from screen	export Entity_Code=OBDX_BU1
	SCHEMA_PASS	Password for existing OBDX schema	export SCHEMA_PASS=welcome1

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



[devops@	/]\$
[devops@	/]\$ export Entity_Code=OBDX_BU7
[devops@	<pre>/]\$ export SCHEMA PASS=devops#obdx182</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_HOSTNAME= ××.××.××.××</pre>
[devops@	/]\$ export ENTITY EHMS_DATABASE_PORT=1521
[devops@	<pre>/]\$ export ENTITY_EHMS_DATABASE_SID=obdxdb.in.oracle.com</pre>
[devops@	<pre>/]\$ export ENTITY_EHMS_DBA_DIRECTORY_NAME=TBS_DIR</pre>
[devops@	/]\$ export ENTITY EHMS_DATABASE_SYS_USER=sys
[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@	<pre>/]\$ export WLS_DOMAIN_PASS=weblogic182</pre>
[devops@	/]\$ export ENTITY_EHMS_CCY=GB
[devops@	<pre>/]\$ python runInstaller.pysilentaddEntity</pre>

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 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 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 (OBDX with UBS))
- OBPM additional entity (sub-section: Oracle FLEXCUBE Universal Banking with Oracle Banking Payments (OBDX 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. OBDX Product Security

Refer below document for OBDX product security configuration

Oracle Banking Digital Experience Security Guide

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14. OBDX 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 OBDX schema

alter user <OBDX_SCHEMA> quota unlimited on <OBDX_AUDIT_INDEX_TABLESPACE>;

- > Drop and create below index by mapping the newly created tablespace
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_API_AUDIT_LOGGING.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_API_AUDIT_LOG_HIST.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGIN G.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_AUDIT_LOGGING_1.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_AUDIT_LOGGING_2.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_AUDIT_LOGGING_3.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\ IDX_DIGX_AL_AUDIT_LOGGING_4.sql
 - OBDX_Installer\installables\db\OBDX\ddl\oracle\audit\IDX_DIGX_AL_AUDIT_LOGGIN G_DETAILS.sql

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15. JPA and OBDX 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 OBDX 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 OBDX 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_Oracleversion		
'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 <OBDX 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 <OBDX INSTALLER DIR>/ExecInstances/<DDMonthHHMM>/logs/db/ and contains any SEVERE errors for Entitlement policy seeding.

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



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

Fix the problem by following below steps:

- Login to OBDX installer server
- Over-write the policies files (Day0Policy.csv; Entitlement.csv; Resources.csv and Task.csv) from OBDX Product zip into <OBDX INSTALLER DIR>/installables/policies directory
- Browse to <OBDX 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,<OBDX Schema name>,<OBDX Schema password>,jdbc:oracle:thin:@<OBDX DB hostname or IP>:<OBDX DB listener port>/<OBDX 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,OBDX_THP181,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx.xx:1521/OBDX"

> 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,<OBDX Schema name>,<OBDX Schema password>,jdbc:oracle:thin:@<OBDX DB hostname or IP>:<OBDX DB listener port>/<OBDX 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,OBDX_THP201,Welcome#1,jdbc:oracle:thin:@ xx.xx.xx:1521/OBDX"

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,<OBDX Schema name>,<OBDX Schema password>,jdbc:oracle:thin:@<OBDX DB hostname or IP>:<OBDX DB listener port>/<OBDX 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,OBDX_THP201,Welcome#1,jdbc:oracle:thin:@xx.xx.xx.t521/OBDX"

> Post successfully execution, restart Managed server.

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