Oracle® Banking Digital Experience Cloud Service

Host Integration Guide





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Preface

- Purpose
- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Conventions
- Related Resources
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- Acronyms and Abbreviations

Purpose

This guide is designed to help acquaint you with the Oracle Banking application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

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the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

| Convention | Meaning | |
|------------|--|--|
| boldface | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. | |
| italic | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. | |
| monospace | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. | |

Related Resources

For more information on any related features, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals
- Oracle Banking Digital Experience Licensing Manuals

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

| Abbreviation | Description |
|--------------|-----------------------------------|
| OBDX | Oracle Banking Digital Experience |

Introduction

Overview (OBDX-FCUBS Integration)

This topic provides information on **Overview (OBDX-FCUBS Integration)**. This document is intended to outline the integration of OBDX (Oracle Banking Digital Experience) with FCUBS (Oracle FLEXCUBE Universal Banking).

OBDX Integration Model

This topic provides information on **OBDX Integration Model**.

OBDX Adapter Project Model

This topic provides information on **OBDX Adapter Project Model**. Above Integration model depicts the OBDX adapter integration with core banking system, Integration can be accomplished by concrete adapter implementations.

1.1 Overview (OBDX-FCUBS Integration)

This topic provides information on **Overview (OBDX-FCUBS Integration)**. This document is intended to outline the integration of OBDX (Oracle Banking Digital Experience) with FCUBS (Oracle FLEXCUBE Universal Banking).

OBDX is the digital banking solution platform that enables single-view of a customer's entire banking world.

It ensures that the program is closely aligned to the business strategies identified and provides accelerated path towards realizing business value.

It provides the prerequisite operations to be performed on the customer banking world, which is exposed in the form of REST web service API's to decouple presentation and service layer. OBDX needs to be integrated with one of core banking systems to retrieve the customer banking details and execute the set of operations on the core banking system as per the service requirement.

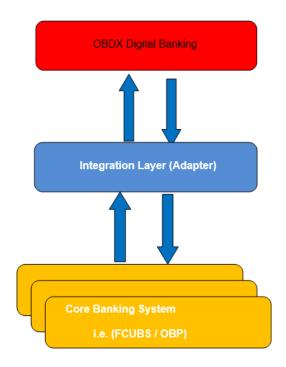
OBDX has adapter layer to integrate with core banking operations. It provides a set of adapter specifications (Java Interfaces) which can be implemented for host specific service invocation. Adapter layer decouples the services from core banking operation. Any number of core banking system can be integrated with OBDX by implementing adapter classes, Adapter layer is responsible for mapping service request /response with host specific request and response.

This document exhibits the integration between core system & OBDX including the basic attributes involved in integration process.

1.2 OBDX Integration Model

This topic provides information on **OBDX Integration Model**.



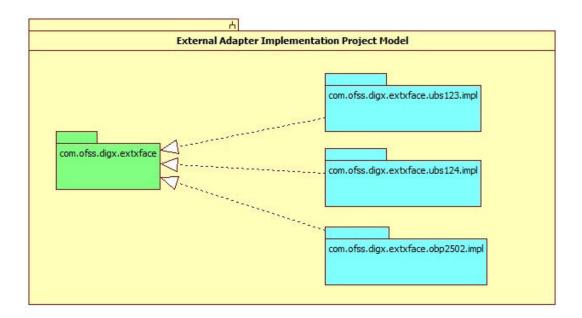


1.3 OBDX Adapter Project Model

This topic provides information on **OBDX Adapter Project Model**. Above Integration model depicts the OBDX adapter integration with core banking system, Integration can be accomplished by concrete adapter implementations.

Following model illustrates OBDX adapter specifications and its concrete adapter implementation relationship project model.





In above model, project com.ofss.digx.extxface contains all the adapter specifications (Java Interface) for external facing adapters. The concrete implementation classes of the adapter interfaces will reside in the host specific adapter implementation project.

Example: To integrate with FCUBS 12.4 core banking system, adapter interfaces should be implemented for host specific service invocation and concrete implementation adapter classes will reside in com.ofss.digx.extxface.ubs124.impl project.

FCUBS Adapter Implementation

This topic provides information on **FCUBS Adapter Implementation**. To process the request with FCUBS core banking system, OBDX has set of adapter specifications which would be implemented for host specific services invocation.

Concrete implementation adapter classes need to be created by implementing respective adapters interface and interface defining methods should be implemented.

Concrete adapter defining methods may have two types of operation:

- Inquiry Operation
- Transactional Operation

Inquiry operation is process to interchange data between OBDX and FCUBS core banking system without altering customer banking state. It queries on the host system to fetch needed information required for tracking, summarizing the details or processing the transactional operation.

Example: Fetch Customer detail, Accounts detail.

Transactional operation will request to host system for altering/creating end user banking states.

Example: Payments, Account Opening.

- Guideline to Implement Adapter
 This topic provides information on Guideline to Implement Adapter.
- Inquiry Operation on FCUBS
 This topic provides information on Inquiry Operation on FCUBS. To inquire data on core banking system, FCUBS provides a set of database view/synonyms object to inquire the required information.

2.1 Guideline to Implement Adapter

This topic provides information on Guideline to Implement Adapter.

- 1. Adapter implementation class must implement the respective interface and provide implementations for all methods defined in the interface.
- 2. Any exception while invoking core banking services must be translated into OBDX exception (com.ofss.digx.infra.exceptions.Exception) and host error code(s) should be mapped to an OBDX error code.

2.2 Inquiry Operation on FCUBS

This topic provides information on **Inquiry Operation on FCUBS**. To inquire data on core banking system, FCUBS provides a set of database view/synonyms object to inquire the required information.

A connector schema is required which hosts the required views, synonyms, functions and procedures for querying data in FCUBS. OBDX relies on a middleware API packaged as



"com.ofss.extsystem.ubs" which provides host adapters that interact with the connector schema to fetch the required information. To invoke these host adapters, the static Java method

com.ofss.extsystem.ubs.business.extsystems.HostAdapterManager.processRequest(Host RequestDTO) needs to be invoked from within OBDX adapter implementation. The HostRequestDTO class must be provided with the required request information.

All the FCUBS middleware adapters are configured with unique a request id in the database table MSTHOSTINTERFACE. HostAdapterManager identifies the adapter class for given request id configured in MSTHOSTINTERFACE table and invoke the processRequest() method of respective adapter class.

Following steps are required to invoke the host adapter:

- 1. Create the Request DTO object and fill required fields.
- 2. Build host request by calling com.ofss.extsystem.ubs.business.extsystems.HostAdapterHelper.buildHostRequest(RequestDTO) method.
- 3. Invoke HostAdapterManager.processRequest(HostRequestDTO) with the HostRequestDTO created by invoking the method in step 2.

Reference:



```
HostRequestDTO hostRequest= null;
HostResponseDTO hostResponse = null;
AccountDetailsRequest AccountDetailsRequest = new
AccountDetailsRequest();
      AccountDetailsRequest.userContext = new UserContextDTO();
      AccountDetailsRequest.userContext.idEntity = "B001";
      AccountDetailsReguest.userContext.idTxn = "PAR";
      AccountDetailsRequest.userContext.idRequest =
"PARTYACCOUNTREL";
      AccountDetailsRequest.userContext.serviceVersion = 0;
      AccountDetailsRequest.userContext.refIdEntity = "B001";
      AccountDetailsRequest.userContext.userType = "EN1";
      AccountDetailsRequest.account = new AccountNoInputDTO();
      AccountDetailsRequest.account.idCustomer = partyId;
      AccountDetailsReguest.account.acctType = accountType;
hostRequest =
HostAdapterHelper.buildHostRequest(AccountDetailsRequest);
try {
HostResponse = HostAdapterManager.processRequest (hostRequest);
      } catch (java.lang.Exception e) {
logger.log (Level. SEVERE, formatter.format.Message ("<exception
message with request parameter>"));
```

OBDX-FCUBS Configuration/ Installation

This topic provides information on **OBDX-FCUBS Configuration/ Installation**. To inquire the banking information, FCUBS provides a set of database views/synonyms. These are created on a connector schema which is created at the time of installation of the product.

A datasource must be created on the application server where the application has been deployed. The name of the datasource must be specified in the jdbc.poperties file for the property name FCON.Al.JNDI.NAME, FCON.AP.JNDI.NAME and FCON.Blal.JNDI.NAME.

Below properties should be define in config/jdbc.properties file

 $\label{local_router_def} FCAT.WEBSERVER.ID=ZZFCAT.APPSERVER.ID=ZZFCAT.ROUTER.DAEMON.NAME=ROUTERDISPLAY.\\ MESSAGE.$

ID=NFCAT.LDB.DATABASE.NAME=ORACLE

FCON.A1.LDB.DRIVER=oracle.jdbc.driver.OracleDriverFCON.A1.LDB.

URL=%%DB_CONNECT_STRING%%FCON.A1.JNDI.NAME=B1A1FNDI.A1.ABCD=

FCON.AP.LDB.DRIVER=oracle.jdbc.

driver.OracleDriverFCON.AP.LDB.URL=%%DB_CONNECT_STRING%

%FCON.AP.JNDI.NAME=B1A1FNDI.AP.ABCD= B001.

A1=B1A1FNDI.B1A1.ABCD=FCON.B1A1.JNDI.NAME=B1A1FCON.B1A1.LDB.DRIVER=oracle.jdbc.driver.OracleDriverFCON.

B1A1.LDB.URL=%%DB_CONNECT_STRING%%

- Server Setup
- Deployment

This topic provides information on **Deployment**. We have FCUBS deployable ear containing all the jar files required to invoke the FCUBS adapter.

3.1 Server Setup

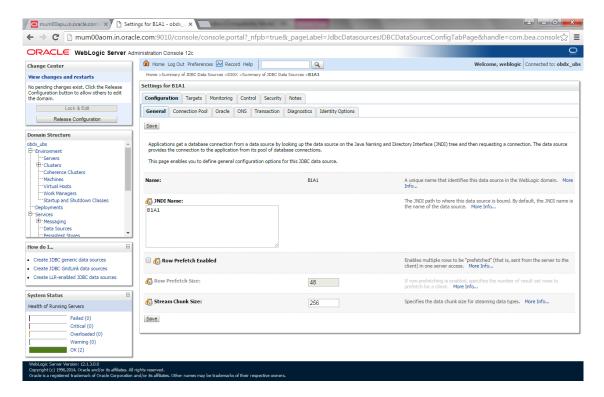
- Create Data source with JNDI name as defined in config/jdbc.properties file
 This topic describes the systematic instruction to Create Data source with JNDI name as defined in config/jdbc.properties file option.
- Get FCUBSHeader Values

This topic provides information on **Get FCUBSHeader Values**. Each and every FCUBS soap request requires header object of class FCUBSHeaderType.

3.1.1 Create Data source with JNDI name as defined in config/jdbc.properties file

This topic describes the systematic instruction to **Create Data source with JNDI name as defined in config/jdbc.properties file** option.





Please note that in case of multi entity scenario, the JNDI name should be in the format <ENTITY_ID>_B1A1. For example, for entity identifier as `OBDX_BU', the JNDI name will be OBDX_BU_B1A1.

3.1.2 Get FCUBSHeader Values

This topic provides information on **Get FCUBSHeader Values**. Each and every FCUBS soap request requires header object of class FCUBSHeaderType.

The class com.ofss.digx.ubs.adapter.impl.RequestHeader, provides all properties to set in FCUBS SOAP request header object.

A RequestHeader object should be instantiated by invoking

AbstractAdapterHelper.getRequestHeader method and set all the required properties in FCUBS soap request header object.

com.ofss.digx.FCUBS.adapter.impl.AbstractAdapterHelper.getRequestHeader(String, String, String)

Create the Adapter helper instance and retrieve Reguest Header Object.

```
AbstractAdapterHelper helper =
          AbstractAdapterHelper.getInstance();RequestHeader
          header = helper.getRequestHeader("IA",
"FCUBSAccService",
"ModifyIATDCustAcc");
```

Instantiate the request header and fill the essential details:

MODIFYTDCUSTACCFSFSREQ createTDRequest = new MODIFYTDCUSTACCFSFSREQ();
FCUBSHEADERType fcubSHeaderType =
new



```
FCUBSHEADERType();fcUBSHeaderType.setUSERID(header.getUserid());fcUBSHeaderType
e.setCORRELID(header.getCorrelid());
fcUBSHeaderType.setMSGID(header.getMsgid());fcUBSHeaderType.setDESTINATION(header.getDestination());
fcUBSHeaderType.setMSGSTAT(MsgStatType.fromValue(header.getMsgstat()));
fcUBSHeaderType.setSOURCE(header.getSource());fcUBSHeaderType.setBRANCH(helper.getHostBranchId(termDeposit.getTermDepositAccountId().getValue()));
fcUBSHeaderType.setUBSCOMP(UBSCOMPType.fromValue(header.getUbscomp()));fcUBSHeaderType.setMODULEID(header.getModuleid());
fcUBSHeaderType.setSERVICE(header.getService());fcUBSHeaderType.setOPERATION(header.getOperation());
fcUBSHeaderType.setSOURCEOPERATION(header.getSourceoperation());createTDRequest.setFCUBSHEADER(fcUBSHeaderType);
```

Invoke the FCUBS SOAP service

3.2 Deployment

This topic provides information on **Deployment**. We have FCUBS deployable ear containing all the jar files required to invoke the FCUBS adapter.

Following deployable should be deployed on OBDX server:

```
obdx.extystem.domain.ear
```

It contains all the related libraries required to process FCUBS system request.

Configuration for Integration of FCUBS Interaction with OBDX Mailbox

This topic provides information on **Configuration for Integration of FCUBS Interaction with OBDX Mailbox**. Out of the box installation OBDX provided with the mailbox to interact within OBDX i.e. Back Office user of the banks in the OBDX will be able to access the mail send by the customer.

If the OBDX Mails by the customer need to be integrated with the FCUBS Interaction module then the below steps should be taken care of.

Assumption: Installation of OBDX has been completed and configuration of all the entity requires in the system has been completed.

Execute below scripts in the OBDX Admin Schema to configure entity specific integration of mailbox with interaction module in FCUBS.

Insert into DIGX_FW_CONFIG_ALL_O
(PROP_ID,PREFERENCE_NAME,PROP_VALUE,DETERMINANT_VALUE,CREATED_BY,CREATION_DATE
,LAST_UPDATED_BY,LAST_UPDATED_DATE)
values('MAILBOX_PROCESSOR','MailboxProcessor','com.ofss.digx.app.collaboration
.service.mailbox.message.mail.processor.RemoteMailboxProcessor','OBDX_BU1','su
peradmin',sysdate,'superadmin',sysdate);

Insert into DIGX_FW_CONFIG_ALL_O
(PROP_ID, PREFERENCE_NAME, PROP_VALUE, DETERMINANT_VALUE, CREATED_BY, CREATION_DATE
, LAST_UPDATED_BY, LAST_UPDATED_DATE)
values('MAIL_REPOSITORY_ADAPTER', 'RepositoryAdapterFactories', 'com.ofss.digx.d
omain.collaboration.entity.mailbox.message.mail.repository.adapter.RemoteMailR
epositoryAdapter, com.ofss.digx.domain.collaboration.entity.mailbox.message.mai
l.repository.adapter.LocalMailRepositoryAdapter','OBDX_BU1','superadmin',sysda
te,'superadmin',sysdate);

Highlighted values can be varied based on the entity configuration require to be integrated with FCUBS interaction module.

Configuration for Attachments in OBDX Mailbox or Interaction Module

This topic provides information on **Configuration for Attachments in OBDX Mailbox or Interaction Module**. By default the mailbox attachment will be integrated to OIPM. If the Bank wants to change this then below are the configuration steps.

1. If bank want to use local database to save uploaded document i.e. other than OIPM then below script need to be executed on OBDX Admin schema. This will point content service to the local data base for mailbox attachment specifically.

```
UPDATE DIGX_FW_CONFIG_ALL_B SET
PROP_VALUE='com.ofss.digx.domain.content.entity.repository.adapter.LocalCon
tentRepositoryAdapter'
WHEREPROP_ID = 'IM_CONTENT_REPOSITORY_ADAPTER'
```

If bank want to use OIPM server to manage uploaded document then below script need to be executed on OBDX Admin schema. This will point content service to the OIPM server for mailbox attachment specifically.

```
UPDATE DIGX_FW_CONFIG_ALL_B SET
PROP_VALUE='com.ofss.digx.domain.content.entity.repository.adapter.RemoteCo
ntentRepositoryAdapter'
WHEREPROP_ID = 'IM_CONTENT_REPOSITORY_ADAPTER'
```

Configurations for OBRH Integration

This topic provides information on **Configurations for OBRH Integration**. Use the following guidelines to integrate with OBRH from the OBDX adapter.

To call OBRH endpoint from adapter, add entry of

OBRHEndPoint(com.ofss.digx.extxface.impl.endpoint.OBRHEndPoint) against your "interfaceId" in digx_fw_config_all_b for Category id as "ExtXfaceConfig".

The "interfaceId" should be the unique service name defined in the OBRH for specific consumer.

To configure which serializer and deserializer should be called for your Request,

Add prop_id entry in digx_fw_config_all_b as "com.ofss.digx.extxface.impl.endpoint.

OBRHEndPoint_<interfaceId>" and prop_value, as which Serializer Deserializer should be used

(JSON or XML)

For JSON: "com.ofss.digx.extxface.impl.endpoint.serde.JsonSerDe" (this is the default class picked if no specific entry is made)

For XML: "com.ofss.digx.extxface.impl.endpoint.serde.XmlSerDe"

Category id is "ExtXfaceConfig".

OBRH is shipped with OBDX in standalone way only if customer does not have any OBMA product installed. For customers with OBMA installation, OBRH of that setup must only be used.

The following configurations are maintained for OBRH-OBDX integration.

1. DIGX_FW_CONFIG_ALL_B

| Category Id | Prop_id | Prop_Value (Default_value) |
|-------------------------|--------------------|---|
| CredentialPropertyStore | OBRH_USER_PASSWORD | 27753d4e463db94b64ab096fac b916ff24670adfa0b5769ad9 |
| authenticationConfig | OBRH_ENCODING | BASE64 (Sends credentials in base 64) PLATO_ENCRYPTION (Encrypts credentials) |
| authenticationConfig | OBRH_EXPIRYTIME | \${OBRH_EXPIRYTIME} |
| authenticationConfig | OBRH_TOKEN_PATH | token |
| ExtXfaceConfig | _ | com.ofss.digx.extxface.imp l.endpoint.serde.JsonSerDe (JSON is default value, you can SerDe you want for this request) |



| Category Id | Prop_id | Prop_Value (Default_value) |
|-------------------------|-----------------------------|---|
| ExtXfaceConfig | <interfaceid></interfaceid> | <pre>com.ofss.digx.extxface.imp l.endpoint.OBRHEndPoint</pre> |
| CredentialPropertyStore | OBRH_USER_NAME | OBDX |

2. DIGX_FW_CONFIG_VAR_B

| Prop_id | Prop_Value (Default_value) | ENV_ID |
|-----------------|-----------------------------|--------|
| OBRH_HOST_IP | whf00lse.in.oracle.com | OBDX |
| OBRH_HOST_PORT | 7002 | OBDX |
| OBRH_EXPIRYTIME | 300 | OBDX |

3. DIGX FW CONFIG ADAPTER PROP B

| HOST_ID | TRANSACTION_TYPE | PROP_ID | PROP_VALUE (Default_value) |
|---------|------------------|------------------|-------------------------------|
| OBRH | ALL | APP_ID | CMNCORE |
| OBRH | ALL | USER_ID | OBDX |
| OBRH | ALL | BRANCH_CODE | 4 |
| OBRH | ALL | SERVICE_CONSUMER | OBDX |
| OBRH | ALL | TOKEN_APP_ID | SECSRV001 |

4. DIGX_FW_CONFIG_ADAPTER_PROP_B

| Service Id | CONTEXT_URL | SERVICE_URL |
|-------------|--|--|
| tokenOBRH | http://\${OBRH_HOST_IP}:\$ {OBRH_HOST_PORT} | api-gateway/platojwtauth |
| serviceOBRH | http://\${OBRH_HOST_IP}:\$ {OBRH_HOST_PORT} | api-gateway/cmc-obrh- services/route/dispatch |

Apart from above predefined properties, we have provision to add additional headers. Kindly add your additional headers as a key-value pair in newly added variable "headersMap" of "com.ofss.digx.extxface.impl.dto.ExternalSystemRequest". Refer OBRH User Manual for its usage.

- Configurations for connecting to OBRH
- FCUBS OBRH Configuration

This topic provides information on **FCUBS OBRH Configuration**. Execute the following script at OBDX digx database and restart the managed server.

6.1 Configurations for connecting to OBRH

OBRH of OBMA setup

This topic provides information on OBRH of OBMA setup.

OBRH (Standalone) of OBDX setup

This topic provides information on **OBRH** (Standalone) of **OBDX** setup.



6.1.1 OBRH of OBMA setup

This topic provides information on **OBRH of OBMA setup**.

1. GENERATE_ENCRYPTED_OBRH_PASSWORD

To configure and add credentials for obrh follow the steps mentioned in the below document with <DataSeedFlag> set to N.

• Oracle Banking Digital Experience Credential Store Setup Guide Copy the obrh password displayed in the terminal for further steps.

2. DIGX_FW_CONFIG_ALL_B

| Category Id | Prop_id | Prop_Value (Default_value) |
|----------------------|--|--|
| authenticationConfig | OBRH_ENCODING | BASE64 (Sends credentials in base 64) |
| | | PLATO_ENCRYPTION (Encrypts credentials) |
| authenticationConfig | OBRH_EXPIRYTIME | \${OBRH_EXPIRYTIME} |
| authenticationConfig | OBRH_TOKEN_PATH | token |
| ExtXfaceConfig | <pre>com.ofss.digx.extxface.im pl.endpoint.OBRHEndPoint_ <interfaceid></interfaceid></pre> | com.ofss.digx.extxface.impl.end point.serde.JsonSerDe (JSON is default value, you can SerDe you want for this request) |
| ExtXfaceConfig | <pre><interfaceid></interfaceid></pre> | com.ofss.digx.extxface.impl.end point.OBRHEndPoint |

3. DIGX_FW_CONFIG_VAR_B

| Prop_id | Prop_Value (Default_value) | ENV_ID |
|-------------------------|-----------------------------|--|
| OBRH_HOST_IP | whf00lse.in.oracle.com | OBDX |
| OBRH_HOST_PORT | 7002 | OBDX |
| OBRH_EXPIRYTIME | 300 | OBDX |
| CredentialPropertyStore | OBRH_USER_NAME | OBDX |
| CredentialPropertyStore | OBRH_USER_PASSWORD | 27753d4e463db94b64ab096fac b916ff24670adfa0b5769ad9 |

4. DIGX_FW_CONFIG_ADAPTER_PROP_B

| HOST_ID | TRANSACTION_TYPE | PROP_ID | PROP_VALUE (Default_value) |
|---------|------------------|------------------|-------------------------------|
| OBRH | ALL | APP_ID | CMNCORE |
| OBRH | ALL | USER_ID | OBDX |
| OBRH | ALL | BRANCH_CODE | 004 |
| OBRH | ALL | SERVICE_CONSUMER | OBDX |
| OBRH | ALL | TOKEN_APP_ID | SECSRV001 |

5. DIGX_FW_CONFIG_OUT_RS_CFG_B



| Service Id | CONTEXT_URL | SERVICE_URL |
|-------------|--|--|
| tokenOBRH | http://\${OBRH_HOST_IP}:\$ {OBRH_HOST_PORT} | api-gateway/platojwtauth |
| serviceOBRH | http://\${OBRH_HOST_IP}:\$ {OBRH_HOST_PORT} | api-gateway/cmc-obrh- services/route/dispatch |

Apart from above predefined properties, we have provision to add additional headers. Kindly add your additional headers as a key-value pair in newly added variable "headersMap" of "com.ofss.digx.extxface.impl.dto.ExternalSystemRequest". Refer OBRH User Manual for its usage.

6.1.2 OBRH (Standalone) of OBDX setup

This topic provides information on OBRH (Standalone) of OBDX setup.

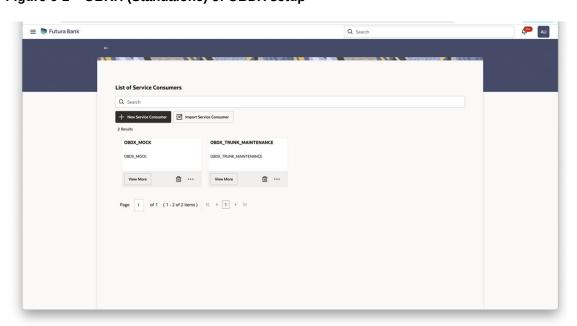


Figure 6-1 OBRH (Standalone) of OBDX setup





In case of OBRH/OBDX cluster, a load balancer must be deployed and that host/port must be configured in above queries

Update SERVICE_CONSUMER in DIGX_FW_CONFIG_ADAPTER_PROP_B

Add/Update in below query. Value can be any random string.

```
Insert into DIGX_FW_CONFIG_ALL_O
(PROP_ID, PREFERENCE_NAME, PROP_VALUE, DETERMINANT_VALUE, CREATED_BY,
CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE) values
('AUTH_API_KEY', 'SecurityConstants',
'3D1F0C582545CD4D047A496108D06E456C590F53956D44BFBB3902656CB919DE467071377813B
4278A92E95934261421E6651BA43607472DCC352E4C',
'01', 'superadmin', null, 'superadmin', sysdate);
```

Restart OBDX & OBRH MS

OHS Configurations

In obdx.conf from installer. Check proxy pass values and note that order is maintained. /digx must be below /digx-cmc, /digx-sms. If using location/locationMatch tag for digx, remove proxy pass for /digx and move /digx-cmc, /digx-sms above location/locationMatch tag.



(i) Note

Cluster is not required for /digx-cmc, /digx-sms as they are used for OBRH/ML maintenances only.

In below entries replace host and ports as -

17004 - OBRH MS

17005 - OHS port

Figure 6-2 Example 1. With proxy pass

```
ProxyPass "/digx-cmc-obrh-services/obrh/v1/" "http://mum00boa.in.oracle.com:17004/cmc-obrh-services/" ProxyPassReverse "/digx-cmc-obrh-services/obrh/v1/" "http://mum00boa.in.oracle.com:17004/cmc-obrh-services/"
ProxyPass "/digx-cmc-ml-indb-services/" "http://mum00boa.in.oracle.com:17004/cmc-ml-indb-services/" ProxyPassReverse "/digx-cmc-ml-indb-services/" "http://mum00boa.in.oracle.com:17004/cmc-ml-indb-services/"
ProxyPass "/digx-sms-core-services/sms-core-service/rbac/ui" "http://mum00boa.in.oracle.com:17005/public/rbac.json" ProxyPassReverse "/digx-sms-core-services/sms-core-service/rbac/ui" "http://mum00boa.in.oracle.com:17005/public/rbac.json"
ProxyPass "/digx-cmc-branch-services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json" ProxyPassReverse "/digx-cmc-branch-services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json"
ProxyPassMatch "/digx(.*)" "http://mum00boa.in.oracle.com:17003/digx$1" ProxyPassReverse "/digx(.*)" "http://mum00boa.in.oracle.com:17003/digx$1"
```



Figure 6-3 Example 2. With location for OBDX

```
ProxyPass "/digx_cmc_obrh_services/obrh/v1/" "http://mum00boa.in.oracle.com:17004/cmc-obrh-services/"
ProxyPassReverse "/digx_cmc_obrh_services/obrh/v1/" "http://mum00boa.in.oracle.com:17004/cmc-obrh-services/"
ProxyPass "/digx_cmc_ml_indb_services/" "http://mum00boa.in.oracle.com:17004/cmc-ml-indb-services/"
ProxyPassReverse "/digx_cmc_ml_indb_services/" "http://mum00boa.in.oracle.com:17004/cmc-ml-indb-services/"
ProxyPass "/digx_sms_core_services/sms-core-service/rbac/ui" "http://mum00boa.in.oracle.com:17005/public/rbac.json"
ProxyPass "/digx_cmc_branch_services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json"
ProxyPassReverse "/digx_cmc_branch_services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json"
ProxyPassReverse "/digx_cmc_branch_services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json"
ProxyPassReverse "/digx_cmc_branch_services/corebanks" "http://mum00boa.in.oracle.com:17005/public/corebanks.json"

<pr
```

6.2 FCUBS OBRH Configuration

This topic provides information on **FCUBS OBRH Configuration**. Execute the following script at OBDX digx database and restart the managed server.

../installables/db/UBS/DIGX_FW_CONFIG_ALL_O.sql



'%ENTITY ID%' should be replaced with entity identifier (For example 'OBDX BU')

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