

File Upload Report Configuration Guide  
Oracle Banking Digital Experience  
Release 21.1.0.0.0

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**ORACLE®**

## File Upload Report Configuration Guide

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Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax:+91 22 6718 3001

[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

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# 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 Documentation Accessibility

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

## 1.3 Access to Oracle Support

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

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

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

## 1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

## 1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 21.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

## 2. File Uploads

### 2.1 OutsideIn (For MS Excel processing)

Outside Inn - This is used for parsing XLS, XLSX in file uploads module. This library is not shipped with OBDX but needs to be downloaded from below link for required platform (OS on which app server is running)

<http://www.oracle.com/technetwork/middleware/webcenter/content/oit-dl-otn-097435.html>

Search Export – (Refer Pre requisite installation document for version)

Unzip the downloaded file and copy all contents of 'redist' folder to config/outsidein/<os> directory

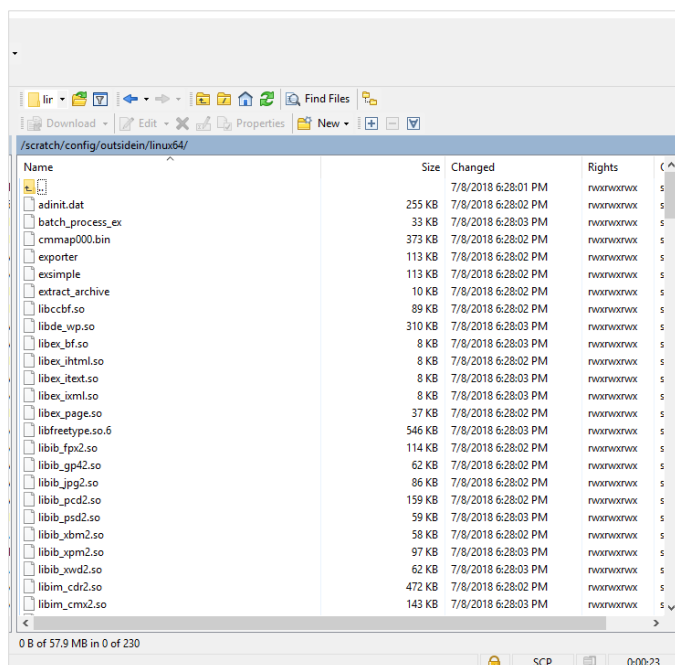
Then copy all contents (except jar & sh files) of 'sdk/demo' directory to config/outsidein/<os>

Use sx.cfg (replace/merge contents if required) shipped in installer from folder config/outsidein/<os>

Confirm/update path → select \* from digx\_fw\_config\_all\_b where prop\_id = 'OUTSIDE\_IN\_SDK'

Default config/outsidein/linux64

Grant 777 privileges for OutsideIn directory



## 2.2 Configuration for storing key for decrypting uploaded files and creating encrypted response files

The key used for file decryption by default decryptor is stored in database in digx\_fw\_config\_all\_b with prop\_id as 'ENCRYPTION\_KEY'. If this is to be stored in WLS connector update the property as below

update digx\_fw\_config\_all\_b set prop\_value='KEY\_STORE' where prop\_id='ENCRYPTION\_KEY\_LOCATION';

Update the encryption key in connector as below –

The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays a table of Deployments. The 'com.oracle.digx.connector.jar' module is highlighted with a red circle. The table columns are Name, Status, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order.

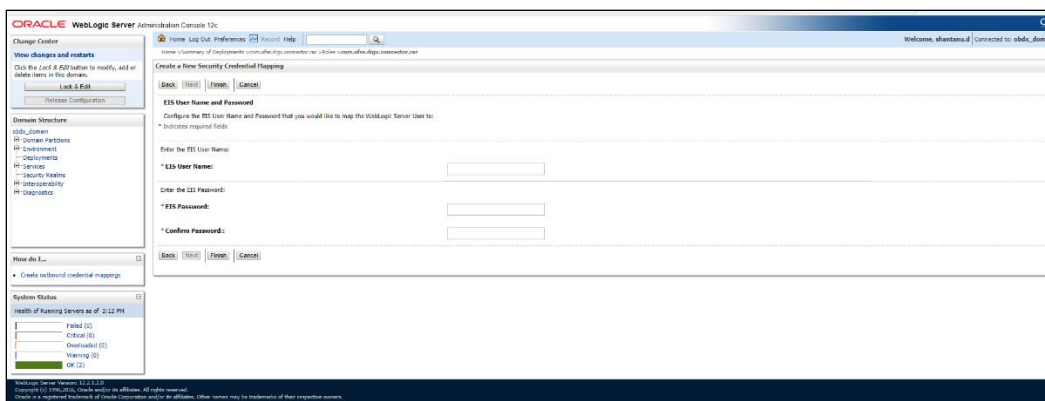
Name	Status	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
WLSUser	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(1,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(2,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(3,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(4,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(5,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(6,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(7,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(8,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(9,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(10,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(11,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(12,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(13,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(14,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(15,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(16,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(17,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(18,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(19,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(20,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(21,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(22,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(23,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(24,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(25,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(26,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(27,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(28,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(29,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(30,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(31,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(32,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(33,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(34,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(35,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(36,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(37,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(38,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(39,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(40,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(41,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(42,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(43,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(44,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(45,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(46,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(47,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(48,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(49,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100
WLSUserDomain(50,1,12.1.1.1)	Active		Library	AdminServer, obdt_cluster	Global		100

The screenshot shows the Oracle WebLogic Server Administration Console. The main area displays the 'Settings for com.oracle.digx.connector.jar' page. The 'Outbound Credential Mappings' tab is selected, showing a table with columns for WLS User, EIS User, and Outbound Connection Pool.

WLS User	EIS User	Outbound Connection Pool
WLSUser	WLSUser	WLSUser
Default	administrator	WLSUser

Click New > Select ra/DIGXConnectorFILEUPLOAD > Next > Select Default User

In password field, enter the encryption key



## 2.3 Using Enrichers in File Uploads

(For custom defined templates only, not required for out of box templates)

- Enrichers are used to enrich or fetch a value for a given field. Let's say the field is Debit Account Id and enricher is Account Currency, so it means that the currency for that debit account Id needs to be fetched or enriched.
- Enricher can have enricher arguments. These arguments are passed when the enricher is invoked.
- Enrichers are of 2 types
  - Upload File Enrichers
  - Static arguments (enricherArgs) – Value is passed directly from template to enricher as label string
  - Dynamic arguments (enricherDynArgs) – Value is derived from a previous field of the record.
- Extract (Response) File Enrichers

### How Enrichers are used in File Upload ?

- In File Upload XML template, the field **which will** enrich other fields must have 'enricher' attribute. This attribute **must not be specified for the fields which would be** enriched.
- The value of this 'enricher' attribute is the 'ENRICHMENT\_ID' which is a column in table 'DIGX\_FW\_ENRICHMENTS\_B'. Currently OBDX support only Java enrichers. Enrichers can be in any package but must implement the 'IEnrichment' interface.
- On the basis of the 'enricher' attribute value mapping is done from table 'DIGX\_FW\_ENRICHMENTS\_B' and the corresponding 'ENRICHMENT\_VALUE' column value is fetched and enrich() method of the specified Java class is invoked Eg.
- Refer to the following figure of File Template : InternalFT.xml .

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<FileDefinition fileName="InternalFT"
  fileHandlerClassName="com.ofss.digx.app.fileupload.handlers.InternalFTFileHandler"
  decryptionClass="" charset="UTF-8" delimiter="," comments=""
  isFirstRecHeader="false" simpleOrMixed="M" fillchar="" partialProcessing="100" transactionType="ITG">
  <RecordDefinition
    recordHandlerClassName="com.ofss.digx.app.fileupload.handlers.InternalFTRecHandler"
    recordType="B"
    dtoClassName="com.ofss.digx.domain.fileupload.entity.InternalFTDTO"
    multiplicity="-1" maxFields="10" comments=""
    parent="" length="" transaction="ITG"
    mixedIdentifier="A">
    <Field name="mixedIdentifier"/>
    <Field name="partyId"/>
    <Field name="debitAccountId" enricher="ACCTCURR" enricherArgs=""/>
    <Field name="amount" type="CD"/>
    <Field name="amountCurr"/>
    <Field name="valueDate" enricher="DATE" enricherArgs="dd-MM-yyyy"/>
    <Field name="creditAccountId" enricher="ACCTDETAILS"/>
    <Field name="debitNarrative"/>
    <Field name="creditNarrative"/>
    <Field name="purpose"/>
  </RecordDefinition>
  <RecordDefinition
    recordHandlerClassName="com.ofss.digx.app.fileupload.handlers.InternalFTRecHandler"
    recordType="B"
    dtoClassName="com.ofss.digx.domain.fileupload.entity.InternalFTBeneDTO"
    multiplicity="-1" maxFields="10" comments=""
    parent="" length="" transaction="ITGBEN"
    mixedIdentifier="B">
    <Field name="mixedIdentifier"/>
    <Field name="partyId"/>
    <Field name="debitAccountId" enricher="ACCTCURR" enricherArgs=""/>
    <Field name="amount" type="CD"/>
    <Field name="amountCurr"/>
    <Field name="valueDate" enricher="DATE" enricherArgs="dd-MM-yyyy"/>
    <Field name="beneId" enricher="BENE" enricherArgs="INTERNAL"/>
    <Field name="debitNarrative"/>
    <Field name="creditNarrative"/>
    <Field name="purpose"/>
  </RecordDefinition>
</FileDefinition>

```

## Static Enrichers

- In above template, the field name 'debitAccountId' has a enricher 'ACCTCURR' with no enricherArgs. In this case 'DIGX\_FW\_ENRICHMENTS\_B' will be queried and search for 'ACCTCURR' and 'AccountCurrencyEnricher' class is invoked.

This enricher derives the debitAccountCurr. Hence this attribute must be present in the record DTO with its setters defined.

```

@Override
public HashMap<String, Object> enrich(HashMap<String, Object> parameters) throws Exception {

    SessionContext sessionContext = (SessionContext) ThreadAttribute.get(ThreadAttribute.SESSION_CONTEXT);
    FileUploadPolicyHelper policyHelper = FileUploadPolicyHelper.getInstance();
    policyHelper.fetchAccountId(sessionContext, new Account(parameters.get("value").toString()),
        parameters.get("fileRefId").toString());
    HashMap<String, Object> fields = new HashMap<String, Object>();
    String curr = policyHelper.fetchCurrencyForAccount(new Account(parameters.get("value").toString()),
        parameters.get("fileRefId").toString());
    fields.put("debitAccountCurr", curr == null ? "" : curr);
    fields.put("debitAccountId", parameters.get("value"));
    return fields;
}

```



- The field name 'valueDate' has static enricherArgs 'dd-MM-yyyy' meaning that the date has to be specifically in 'dd-MM-yyyy' format. This value is simply available to the enricher for processing purpose. This enricher does not add any new field but simply modifies the value of the current field.

```

@Override
public HashMap<String, Object> enrich(HashMap<String, Object> parameters) throws Exception {
    DateFormat df = new SimpleDateFormat(parameters.get("enricherArgs").toString());
    Date date = null;
    HashMap<String, Object> fields = new HashMap<String, Object>();
    try {
        df.setLenient(false);
        date = df.parse(parameters.get("value").toString());
        fields.put(parameters.get("field").toString(), new com.ofss.fc.datatype.Date(date));
    } catch (ParseException e1) {
        Exception e = new Exception();
        e.setErrorCode(UploadErrorConstants.FU_INVALID_VALUE_DATE);
        throw e;
    }
    return fields;
}

```

## Dynamic Enrichers

If 'enricherDynArgs' is specified

Eg. enricherDynArgs="beneld~beneName" on beneficiary address field, the parser simply invokes getters on beneld and beneName fields and passes the values to the enricher in a map. It should be noted that these fields must be defined previously/above the beneficiary address field, so that parser has already completed the setter operation.

```

<Field name=" beneld"/>
<Field name=" beneName "/>
<Field name="beneAddr" enricher="ADRESSENRICHER" enricherDynArgs=" beneld~beneName
"/>

```

Eg.

## Extract (Response) File Enrichers

```

1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <FileDefinition fileType="csv" delimiter="," handler="com.ofss.digx.framework.fileupload.extract.CSVHandler" encryptionClass="">
3
4   <RecordDefinition recordType="H">
5     <Field name="record" label="RECORD" />
6     <Field name="recRefId" label="RECORD REF NO" />
7     <Field name="fileRefId" label="FILE REF NO" />
8     <Field name="digxRefId" label="E-BANKING REF NO" />
9     <Field name="contractRefId" label="CONTRACT REF NO" />
10    <Field name="recStatus" label="RECORD STATUS" />
11    <Field name="errCode" label="STATUS CODE" />
12    <Field name="errMsg" label="STATUS DESCRIPTION" />
13  </RecordDefinition>
14
15  <RecordDefinition query="ResponseList" recordType="B">
16    <Field name="record" no="1" wrapchar="" />
17    <Field name="recRefId" no="2" />
18    <Field name="fileRefId" no="3" />
19    <Field name="digxRefId" no="4" />
20    <Field name="contractRefId" no="5" />
21    <Field name="recStatus" no="6" />
22    <Field name="errCode" no="7" enricher="ERRORMSG" enricherArgs="" />
23    <Field name="errMsg" no="8" />
24  </RecordDefinition>
25
26 </FileDefinition>

```

Enrichers can be added to response file templates. The enricher class is invoked in the same way as upload templates. Eg, in above case, localized error message need to be added to extracts from 'errCode'. Extract enrichers do not support dynamic arguments

### File Copy Configuration

In case of FCR/OBPM as host, for **file level** uploads in OBDX, the files are generated in FCR/OBPM formats after approval at OBDX end is complete. These files are stored in a directory on OBDX server. For record level, service is used same as of single screen transactions.

### FCR configs

1. Set this path as the value for prop\_id = 'FCORE\_HANDOFF\_FILE\_PATH' in the DIGX\_FW\_CONFIG\_VAR\_B table against the required entity (Empty folder with full permission).
2. **Copying the file to host system using FTP (to rjsin folder)**

Provide the values for the below properties in the MSTPROPERTIES table of host schema:

FU_IPADDRESS	IP of FCR machine
FU_FTPFILEPATH	Filepath of rjsin where FCR will poll and pick files for further processing
FU_USERNAME	FTP username of FCR machine. Needs to encrypted using AES key as in connector.
FU_PASSWORD	FTP password of FCR machine. Needs to encrypted using AES key as in connector.

### OBPM configs

1. Set this path as the value for prop\_id = 'UBS\_HANDOFF\_FILE\_PATH' in the DIGX\_FW\_CONFIG\_VAR\_B table against the required entity (Empty folder with full permission).
2. **Copying the file to host system using FTP**

Provide the values for the below properties in the MSTPROPERTIES table of host schema:

FU_IPADDRESS	IP of OBPM machine
FU_FTPFILEPATH	Filepath of folder where files need to be copied on OBPM machine. Files will be picked by invoking OBPM restful service(from OBDX adapter) with configs given below

<b>FU_IPADDRESS</b>	<b>IP of OBPM machine</b>
FU_USERNAME	FTP username of OBPM machine. Needs to encrypted using AES key as in connector.
FU_PASSWORD	FTP password of OBPM machine. Needs to encrypted using AES key as in connector.

### 3. OBPM file upload Restful service configurations

- a. Set the value of the host IP and Port for which the REST API is to be invoked against the prop\_id = 'HOST\_IP\_UBSFU' and 'HOST\_PORT\_UBSFU' in the DIGX\_FW\_CONFIG\_VAR\_B table against the required entity.
- b. Provide the values for the below properties in the MSTPROPERTIES table of host schema:
  - propname = 'FU\_FILETYPE' - the type of file.
  - propname = 'FU\_HOSTCODE' - the host code.
  - propname = 'FU\_RESTFILEPATH' - the filePath provided in the rest payload as on OBPM machine.
  - propname = 'FU\_SRCCODE' - the source code .
  - propname = 'FU\_TXNBRANCH' - the transaction branch code.

[Home](#)

## 3. Reports

Reports in OBDX can be used with Internal Reports Engine or Oracle BI.

### 3.1 Reports – Internal Report Engine

In installer scripts, all reports point to Internal report engine, no additional configuration is required.

**Note** - A8\_C2\_PENDING\_APPROVALS works only with BI.

**For API Summary reports, internal engine works for maximum 500 records only.** For higher load BI is recommended.

### 3.2 Reports – BI Configuration

1. Execute below query for those reports which need to pointed to BI

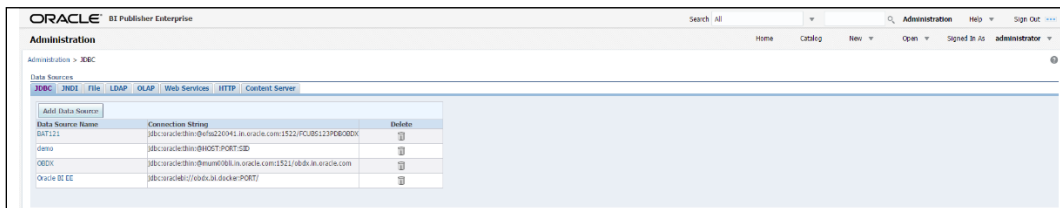
update digx\_rp\_definition set provider='BI', allowed\_formats='PDF~XLSX' and report\_id not in ('A17', 'A01', 'A02', 'A03');

**Update BI webservice URL as**

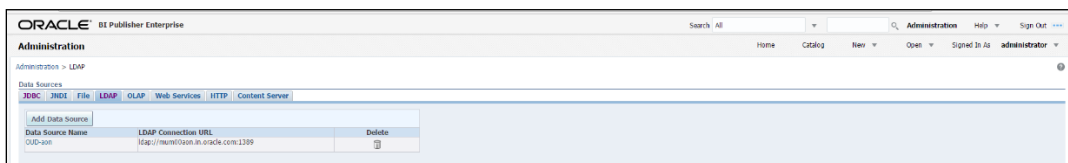
Update digx\_fw\_config\_out\_ws\_cfg\_b set url='http://<BI Host>:<BI Port>/xmlpserver/services/v2/ReportService?WSDL' where service\_id='runReport'

**Note** – FATCA & CRS & EBPP reports works only with internal report engine and not with BI

2. Login to BI and navigate to Administration link. Add JDBC data source
  - a. OBDX → Points to OBDX schema
  - b. BAT121 → Points to UBS EXT schema



3. Add OUD data source – OUD-aon (Required only for User Creation Report and using LDAP to store users)



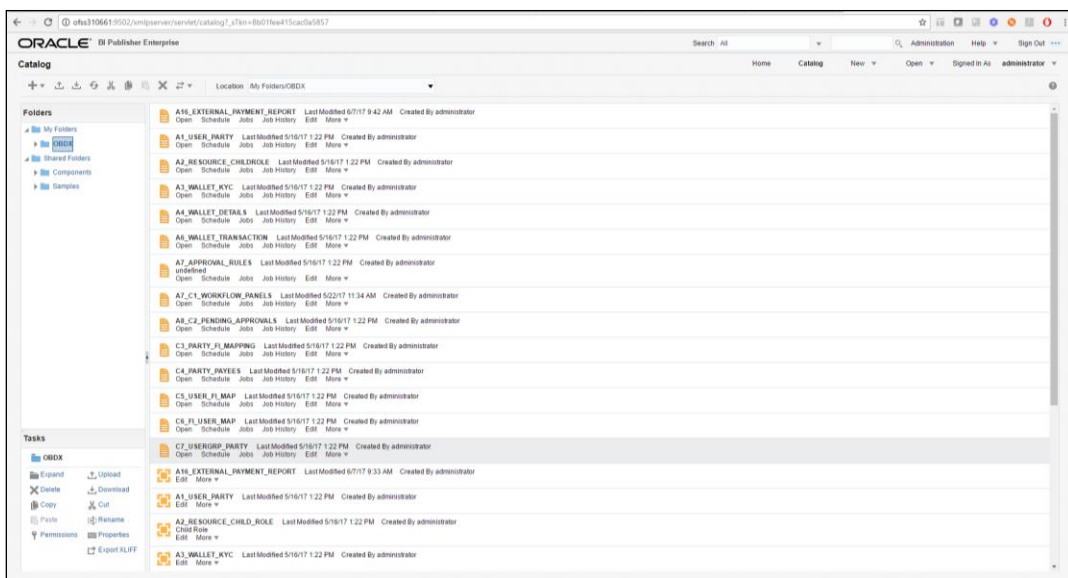
- Upload all xdoz and xdmz from config/resources/report/obi117 (Some reports may have more than one xdmz's) (All xdoz and xdmz can be copied inside OBDX.xdrz and uploaded at once. Empty xdrz is supplied in the 'config/resources/report/obi117')

Eg. A1\_USER\_PARTY.xdmz – (OUD)

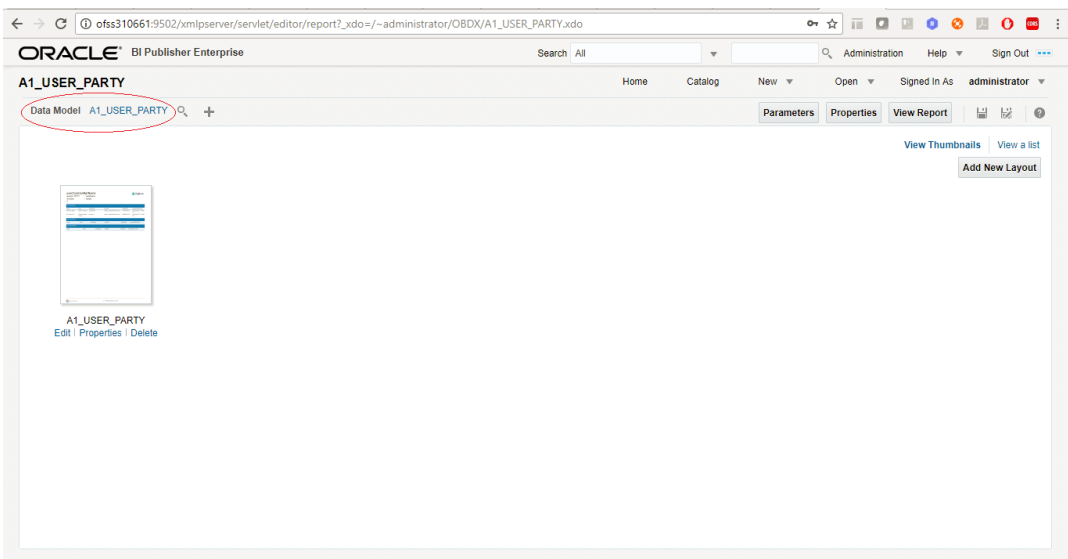
A1\_USER\_PARTY\_DBAUTH.xdmz – (DB Authenticator)

A1\_USER\_PARTY\_OPEN\_LDAP – (Open LDAP)

Select the appropriate xdmz and map to xdoz as shown below -



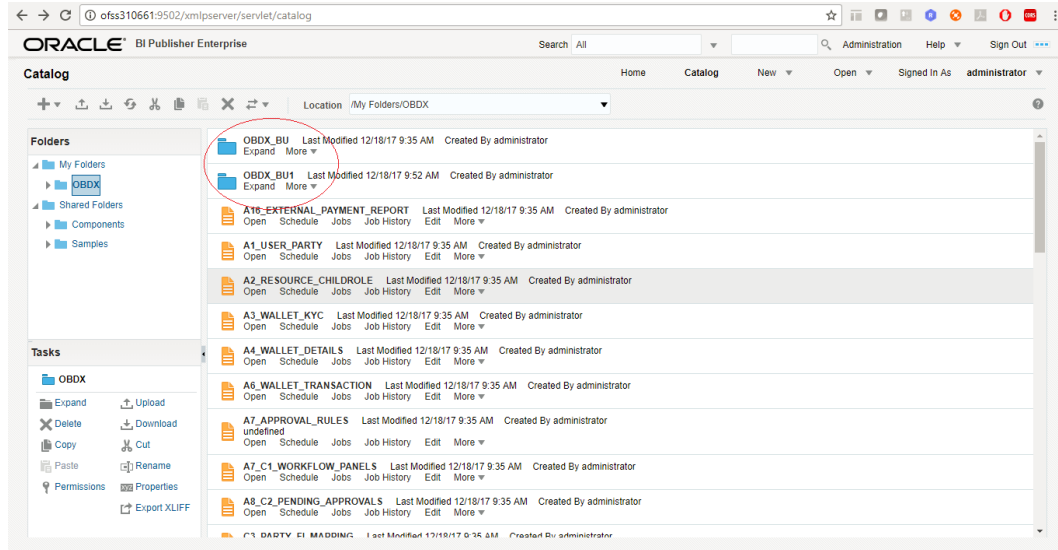
Click Edit → Data model



Select the data model and save.

For multi entity reports, create separate directories as shown below

U3 and U4 are multi entity reports



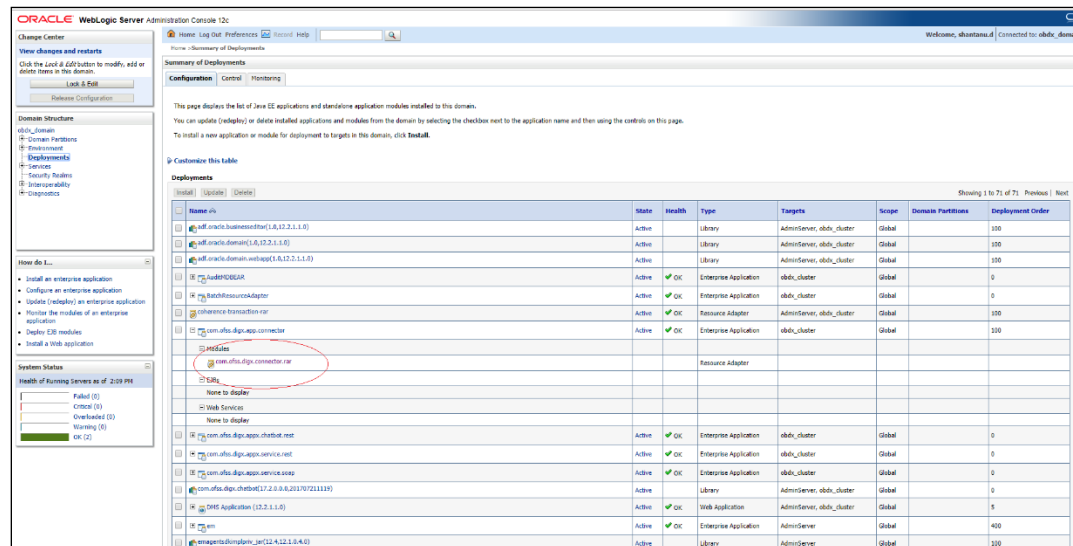
Use separate connections for host in these reports to point to required hosts.

5. Note the user used for BI console and the folder in which these artifacts are uploaded.

Update the paths if required –

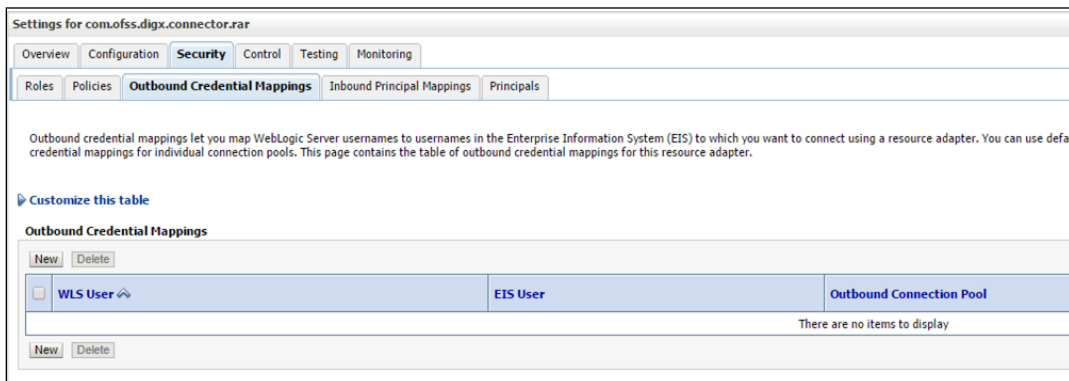
select \* from digx\_fw\_config\_all\_b where category\_id='reportconfig' and prop\_id like 'BI\_ABSPATH%'

Oracle BI Credentials are stored in WLS connector

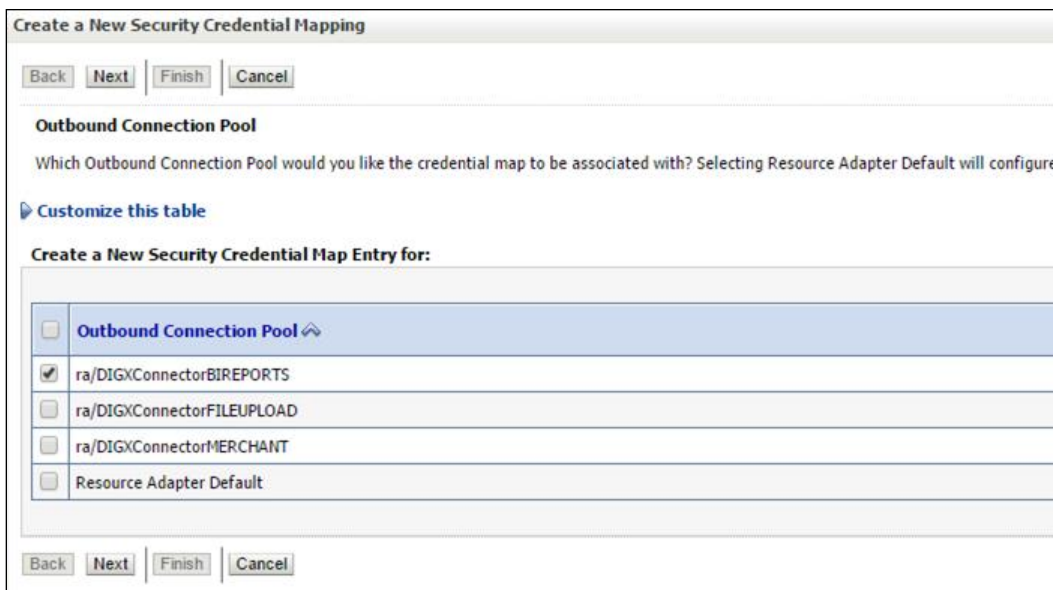


Add outbound credentials for this application, by following below steps.

- Browse to the deployed connector application > Security > Outbound Credential Mapping section



- Click new and select ra/DIGXConnectorBIPREPORTS



- Select Default user option

**Create a New Security Credential Mapping**

Back Next Finish Cancel

**WebLogic Server User**

Select the WebLogic Server User that you would like to map an EIS user to. Selecting 'User for creating initial connections' creates an unauthenticated WebLogic Server user that does not have a credential mapping specifically for them. Selecting 'Default User' creates a WebLogic Server user that has a credential mapping specifically for them. This user must be a configured WebLogic Server user.

User for creating initial connections

**Default User**

Unauthenticated WLS User

Configured User Name

WebLogic Server User Name:

Back Next Finish Cancel

- Enter administrator credentials of BIP and click Finish

**Create a New Security Credential Mapping**

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**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:: administrator

Enter the EIS Password:

\* EIS Password:: .....

\* Confirm Password:: .....

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