# Oracle Banking Digital Experience

File Upload Report Configuration Guide Release 18.1.0.0.0

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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 <a href="http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc">http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc</a>.

## 1.3 Access to Oracle Support

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

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

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

#### 1.4 Structure

This manual is organized into the following categories:

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

*Introduction* provides brief information on the overall functionality covered in the User Manual.

The subsequent chapters provide information on transactions covered in the User Manual.

Each transaction is explained in the following manner:

- Introduction to the transaction
- Screenshots of the transaction
- The images of screens used in this user manual are for illustrative purpose only, to provide improved understanding of the functionality; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.
- Procedure containing steps to complete the transaction- The mandatory and conditional fields of the transaction are explained in the procedure.

If a transaction contains multiple procedures, each procedure is explained. If some functionality is present in many transactions, this functionality is explained separately.

#### 1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 18.1.0.0.0, refer to the following documents:

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

## 2. File Uploads

#### (i) Outside In (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

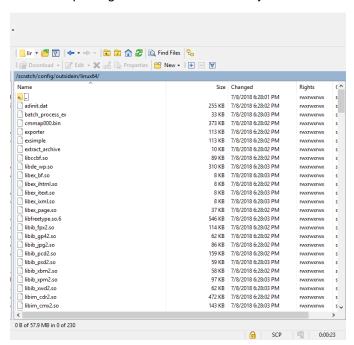
Then copy all contents (except jar & sh files) of 'sdk/demo' directory to config/outsidein/<os>

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

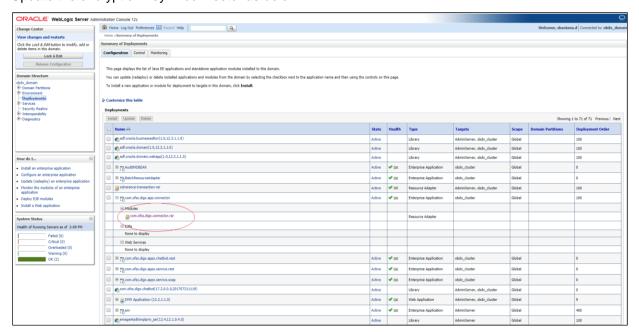


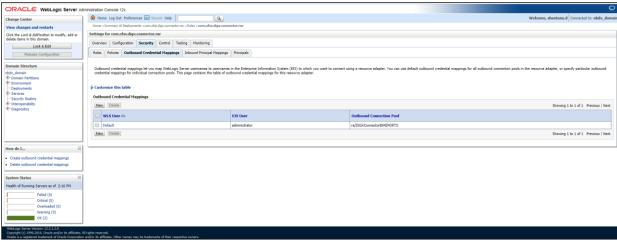
# (ii) Configuration for storing key for decrypting uploaded files and creating encrypted response files

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';

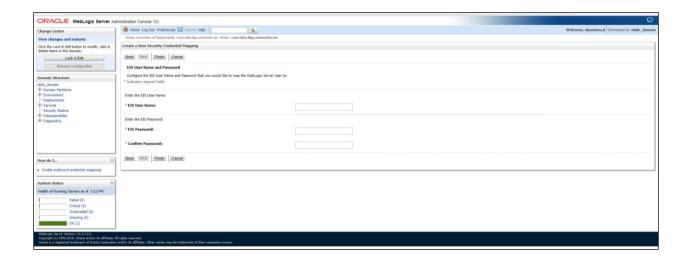
Update the encryption key in connector as below -





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

In password field enter the encryption key



#### (iii) 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. Lets 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 Eq.
- Refer to the following figure of File Template: InternalFT.xml.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<FileDefinition fileName="InternalFT"</pre>
    {\sf 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"
        recordTvpe="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
        {\tt recordHandlerClassName="com.ofss.digx.app.fileupload.handlers.InternalFTRecHandler"}
        recordTvpe="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.

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 el) {
        Exception e = new Exception();
        e.setErrorCode(UploadErrorConstants.FU_INVALID_VALUE_DATE);
        throw e;
    }
    return fields;
```

#### **Dynamic Enrichers**

If 'enricherDynArgs' is specified

Eg. enricherDynArgs="beneId~beneName" on beneficiary address field, the parser simply invokes getters on beneId 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=" beneId"/>
<Field name=" beneName "/>
<Field name="beneAddr" enricher="ADDRESSENRICHER" enricherDynArgs=" beneId~beneName
"/>
```

Eg.

#### Extract (Response) File Enrichers

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 (FCR only)

In case of FCR as host, for **file level** uploads in OBDX, the files are generated in FCR formats after approval at OBDX end is complete. These files are stored in a directory on OBDX server and then need to be periodically copied to FCR rjsin folder

In digx\_fw\_config\_all\_b, update 'HANDOFF\_FILE\_PATH' → Files in FCR format will be generated in this folder. Ensure appropriate permission are given to this directory.

Then invoke below script using cron to copy and then move copied files to backup directory.

scp -r handoff/\* <USERNAME>@<FCR HOST>:/scratch/weblogic/FLEX\_117\_Sanity/runarea/rjsin/mv handoff/\* backup/

# 2. Reports

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

(i) Reports - Internal Report Engine

Scripts provided in installer by default point to Internal Reports engine

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

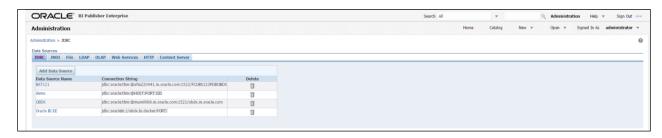
#### (ii) Reports - BI Configuration

Execute below query for those reports which need to pointed to BI
update digx\_rp\_definition set provider='BI', allowed\_formats='PDF~XLSX';

#### 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'

- 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

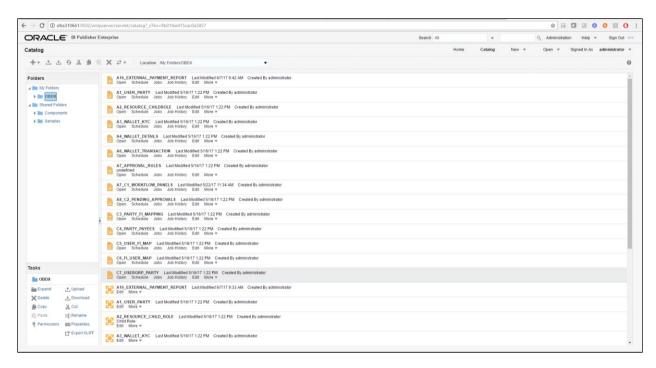


3. Add OUD data source – OUD-aon (Required only for User Creation Report and using LDAP to store users)

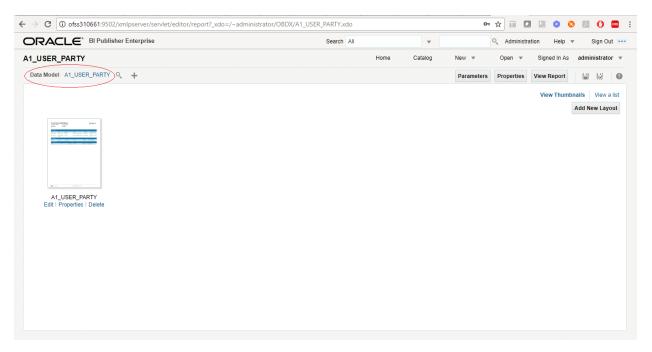


4. Upload all xdoz and xdmz from config/resources/report/obi117 (Some reports may have more then one xdmz's) (All xdoz and xdmz can be copied inside OBDX.xdrz and uploaded at once. Empty xdrz is supplied in the 'config\resources\report\obi117')

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



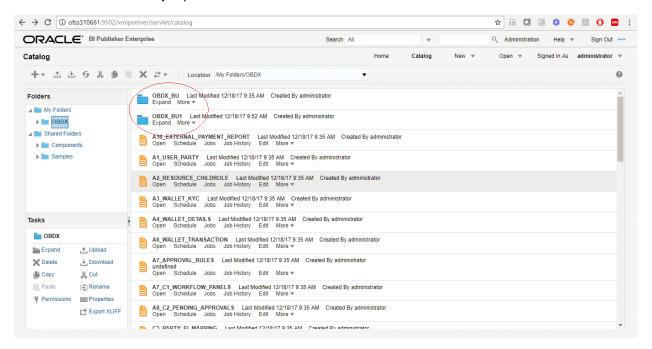
#### Click Edit → Data model



Select the data model and save.

For multi entity reports create separate directories as shown below

#### U3 and U4 are multi entity reports

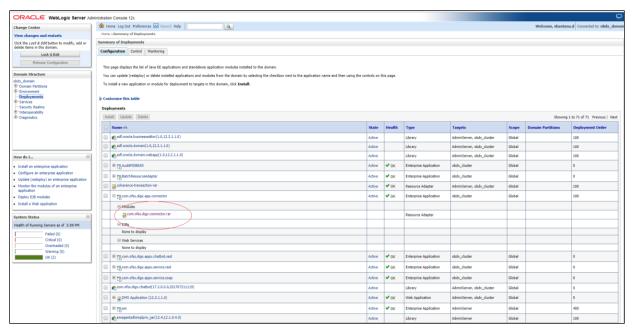


5. Note the user used for BI console and the folder in which these artifacts are uploaded.

Update the paths if required -

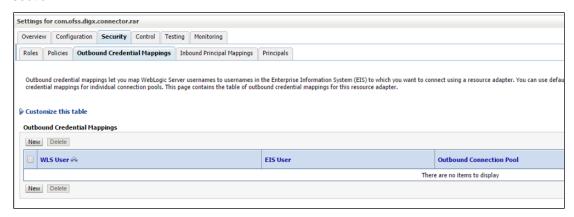
select \* from digx\_fw\_config\_all\_b where category\_id='reportconfig' and prop\_id like 'BI\_ABSPATH%'

Oracle BI Credentials are stored in WLS connector

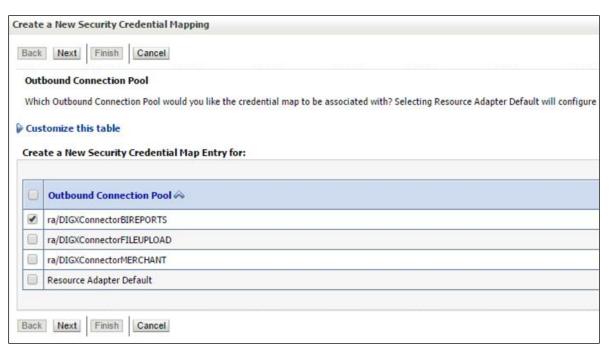


Add outbound credentials for this application, by following below steps.

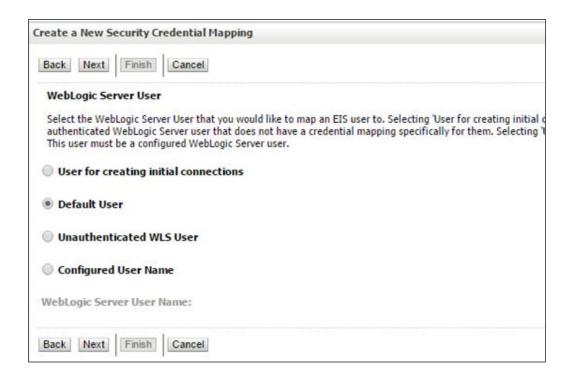
Browse to the deployed connector application > Security > Outbound Credential Mapping section



Click new and select ra/DIGXConnectorBIPREPORTS



Select Default user option



> Enter administrator credentials of BIP and click Finish

