File Upload Report Configuration Guide Oracle Banking Digital Experience Release 22.2.0.0.0

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# ORACLE

File Upload Report Configuration Guide November 2022

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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.

The subsequent chapters describe following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

## 1.5 <u>Related Information Sources</u>

For more information on Oracle Banking Digital Experience Release 22.2.0.0.0, refer to the following documents:

Oracle Banking Digital Experience Installation Manuals



# 2. File Uploads

### 2.1 Outsideln (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  $\rightarrow$  select \* from digx\_fw\_config\_all\_b where prop\_id = 'OUTSIDE\_IN\_SDK'

Default config/outsidein/linux64

Grant 777 privileges for OutsideIn directory

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cmmap000.bin	373 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
exporter	113 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
] exsimple	113 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
] extract_archive	10 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
] libccbf.so	89 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
] libde_wp.so	310 KB	7/8/2018 6:28:03 PM	rwxrwxrwx	5
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libex_page.so	37 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
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] libib_gp42.so	62 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	s
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] libib_pcd2.so	159 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
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] libib_xbm2.so	58 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
] libib_xpm2.so	97 KB	7/8/2018 6:28:03 PM	rwxrwxrwx	5
] libib_xwd2.so	62 KB	7/8/2018 6:28:03 PM	rwxrwxrwx	5
] libim_cdr2.so	472 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	5
libim_cmx2.so	143 KB	7/8/2018 6:28:03 PM	rwxrwxrwx	5



## 2.2 <u>Configuration for storing key for decrypting uploaded</u> <u>files and creating encrypted response files</u>

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 –

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Change Center	🏦 Home. Log Oxt Preferences 🖾 Pacord Help 📃						d Connected to: obdx_dom	iai		
View changes and restarts	Home >Summary of Beployments									
Click the Lock & Edit button to modify, add or delete items in this domain.										
Lock & Edit	Configuration Control Monitoring									
Release Configuration	This page displays the list of Java EE applications and standalone application modules installed to this domain.									
Domain Structure	You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the co	ntrois on th	is page.							
obdr_domain B - Domain Partitions B - Environment	To install a new application or module for deployment to targets in this domain, click Install.									
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	B GOMS Application (12.2.1.1.0)	Active	🛩 ок	Web Application	AdminServer, obdx_cluster	Global		5		
	B B Cam	Active	🛩 ок	Enterprise Application	AdminServer	Global		400		
	Arrow Control (12.4, 12.1.0, 4.0)	Active		Library	AdminServer	Global		100		

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

In password field, enter the encryption key

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View changes and restarts	Home silonmary of Deployments >convolue.digs.convector.nr silloles >conv.afes.digs.convector.ar	
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Release Configuration	ETS User Name and Password	
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obds_domen	* Indicates required fields	
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### 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"
   <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
       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-vvvv"/>
       <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 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=" beneld"/> <Field name=" beneName "/> <Field name="beneAddr" enricher="ADDRESSENRICHER" enricherDynArgs=" beneId~beneName "/>

Eg.

Extract (Response) File Enrichers

1	xml version="1.0" encoding="UTF-8" standalone="yes"? ¶
2	<filedefinition delimiter="," encryptionclass="" filetype="csv" handler="com.ofss.digx.framework.fileupload.extract.CSVHandler"> ¶</filedefinition>
3	9
4	<recorddefinition recordtype="H">¶</recorddefinition>
5	<field label="RECORD" name="record"></field> ¶
6	<field label="RECORD REF NO" name="recRefId"></field> ¶
7	<field label="FILE REF NO" name="fileRefId"></field> 1
8	<field label="E-BANKING REF NO" name="digxRefId"></field> ¶
9	<field label="CONTRACT REF NO" name="contractRefId"></field> 1
.0	<field label="RECORD STATUS" name="recStatus"></field> 1
1	<field label="STATUS CODE" name="errCode"></field> 1
2	<field label="STATUS DESCRIPTION" name="errMsg"></field> 1
.3	
.4	f i i i i i i i i i i i i i i i i i i i
.5	RecordDefinition guery="ResponseList" recordType="B">¶
.6	<field name="record" no="1" wrapchar=""></field> ¶
.7	<field name="recRefId" no="2"></field> "
.8	<field name="fileRefId" no="3"></field> ¶
.9	<field name="digxRefId" no="4"></field> ¶
20	<field name="contractRefId" no="5"></field> ¶
11	<field name="recStatus" no="6"></field> ¶
2	<field enricher="ERRORMSG" enricherargs="" name="errCode" no="7"></field> ¶
:3	<field name="errMsg" no="8"></field> ¶
.4	
:5	
16	×



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

- 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 connecter.	
FU_PASSWORD	FTP password of FCR machine. Needs to encrypted using AES key as in connecter.	

### **OBPM** configs

- Set this path as the value for prop\_id = 'UBS\_HANDOFF\_FILE\_PATH' in the DIGX\_FW\_CONFIG\_VAR\_B table against th`e 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



FU_IPADDRESS	IP of OBPM machine	
FU_USERNAME	FTP username of OBPM machine. Needs to encrypted using AES key as in connecter.	
FU_PASSWORD	FTP password of OBPM machine. Needs to encrypted using AES key as in connecter.	

- 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.
- 4. Debtor BIC FI Configuration
  - a. Provision to set Debtor BIC has been provided at entity level.
  - b. The same can be configured in the following path by System Administrator user:
    - *i.* Toggle menu > Configuration > System Configuration > Click on Continue > Select Entity > Dynamic Module Tab > File Upload



#### File Uploads

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Select	Host Oracle FLEX	CUBE Universal Banking 14.	4.0.0.00		
Entit	y : UBS 14.4 HEL Branch				
$\oslash$	Basic Details	Handoff File Path for UBS	/scratch/deployables/handoff/UBS	Work Area Path	/home/devops/obdx/fileupload
$\odot$	Host Details	UBS File Handoff Host	10.40.90.47	UBS File Handoff Host Port	7203
$\oslash$	Bank Details	 Response File Path	/scratch/deployables/fileupload	Handoff File Path for FCORE	/scratch/deployables/handoff/FCORE
$\oslash$	Branch Details	Maximum Records for File Uploads	10000	Maximum Length of File	5242885
$\oslash$	Currency Payments	Debitor BIC FI	PPBKGB21456		
$\oslash$	SMTP				
Ø	Third Party Configuration				Help

Home



## 3. Reports

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

## 3.1 <u>Reports – Internal Report Engine</u>

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.

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