File Upload Report Configuration Guide Oracle Banking APIs Patchset Release 21.1.4.0.0

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# ORACLE

File Upload Report Configuration Guide February 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 **Related Information Sources**

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

Oracle Banking APIs 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 OBAPI 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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/scratch/config/outsidein/linux64/											
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		7/8/2018 6:28:01 PM	rwxrwxrwx	s							
adinit.dat	255 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	s							
batch_process_ex	33 KB	7/8/2018 6:28:03 PM	rwxrwxrwx	s							
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exporter	113 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	s							
exsimple	113 KB	7/8/2018 6:28:02 PM	rwxrwxrwx	s							
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# 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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Click the Loch & Edit button to modify, add or	Summary of Deployments														
Lock & Edit		Configuration Control Monitoring													
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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 con	trois on ti	his page.											
obdx_domain	To initial a new application or module for deployment to targets in this domain, dick Install.														
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Click New > Select ra/DIGXConnectorFILEUPLOAD > Next > Select Default User

In password field, enter the encryption key

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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 OBAPI 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> 1
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> ¶
.3	1
4	¶
.5	<recorddefinition_query="responselist" recordtype="B">¶</recorddefinition_query="responselist">
.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> ¶
1	<field name="recStatus" no="6"></field> ¶
2	<field enricher="ERRORMSG" enricherargs="" name="errCode" no="7"></field> ¶
:3	<field name="errMsg" no="8"></field> ¶
4	1
:5	1
:6	×



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 OBAPI, the files are generated in FCR/OBPM formats after approval at OBAPI end is complete. These files are stored in a directory on OBAPI 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 OBAPI 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

≡ (Ç	futura bank Search		Q		Last login 31 May 04:25 PM					
Select Host Oracle FLEX		XCUBE 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					
$\oslash$	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	/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 Debitor BIC FI							
$\oslash$	SMTP									
Ø	Third Party Configuration									

Home



# 3. Reports

Reports in OBAPI 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.

## 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. OBAPI → Points to OBAPI schema
  - b. BAT121  $\rightarrow$  Points to UBS EXT schema

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JDBC JNDI File LDA	P OLAP Web Services HTTP Content Server								
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demo	Jdbcstraclethin:@H0ST:PORT:SID	10							
OBDX	Jdbcoraclethin:@mum00blLin.oracle.com:1521/obdx.in.oracle.com	1							
Oracle BI EE	(dbcoraclebi://obdx.bi.docker:PORT/	1							

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

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OUD-aon Idap://mumil0aon.in.oracle	.com:1389	1									



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 OBAPI.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 -

ORACLE BI Public	ther Enterprise	Search All	w.	○, Administration Help ▼ Sign Or
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## Click Edit → Data model

← → C (① ofss310661:9502/xmlpserver/servlet/editor/report?_xdo=/~a	dministrator/OBDX/A1_USER_PARTY.xdo		야 ☆ 🔟 🕻	1 💷 🔕 🕺 🖸 🧰 🗄
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A1_USER_PARTY		Home Catalog	New v Open v	Signed In As administrator v
Data Model A1_USER_PARTY O. +			Parameters Properties	View Report
				View Thumbnails View a list
				Add New Layout
Elena Elen				
A1_USER_PARTY Edit   Properties   Delete				



Select the data model and save.

For multi entity reports, create separate directories as shown below

U3 a	and	U4	are	multi	entity	reports
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Samples	A1_USER_PARTY Last Modified 12/18/17 9:35 AM Created By administrator Open Schedule Jobs Job History Edit More *	
	A2.RESOURCE_CHILDROLE Last Modified 12/18/179 35 AM Created By administrator Open Schedule Jobs Job History Edit More *	
	A3_WALLET_KYC Last Modified 12/18/17 9:35 AM Created By administrator Open Schedule Jobs Job History Edit More *	
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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

	ninistr	tion Console 12c							0				
(human Camber		Hame Log Out Preferences 🔤 Record Help						Welcome, shantanu	d Connected to: obdx_domain				
View changes and restarts		me >Summary of Deployments											
Click the Lock & Edit button to modify, add or	Su	mary of Deployments											
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Add outbound credentials for this application, by following below steps.

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

Settings	for com.of	ss.digx.	connector.	rar								
Overviev	v Config	uration	Security	Control	Testin	g Monitoring						
Roles	Policies	Outbo	und Creden	tial Mapp	ngs 1	Inbound Principal	Mappings	Principals				
Outbou credent	Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use defau credential mappings for individual connection pools. This page contains the table of outbound credential mappings for this resource adapter.											
	WLS User         Outbound Connection Pool											
	There are no items to display											
New	New Delete											

Click new and select ra/DIGXConnectorBIPREPORTS

Creat	e a New Security Credential Mapping
Bac	k Next Finish Cancel
Ou	tbound Connection Pool
Wh	ich Outbound Connection Pool would you like the credential map to be associated with? Selecting Resource Adapter Default will configure
Cu	stomize this table
Cre	ate a New Security Credential Map Entry for:
	Outbound Connection Pool 🗞
	ra/DIGXConnectorBIREPORTS
	ra/DIGXConnectorFILEUPLOAD
	ra/DIGXConnector/MERCHANT
	Resource Adapter Default
Bac	k Next Finish Cancel
240	



## 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 authenticated WebLogic Server user that does not have a credential mapping specifically for them. Selecting 'This user must be a configured WebLogic Server user.
User for creating initial connections
Default User
Unauthenticated WLS User
O 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		
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::	administrator	
Enter the EIS Password:		
* EIS Password::		
* Confirm Password::		
Back Next Finish Cancel		

<u>Home</u>

