# File Upload Report Configuration Guide Oracle Banking APIs Patchset Release 22.2.3.0.0

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File Upload Report Configuration Guide

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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

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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 22.2.3.0.0, refer to the following documents:

- Oracle Banking APIs Installation Manuals
- Oracle Banking APIs Licensing Guide

# 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 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

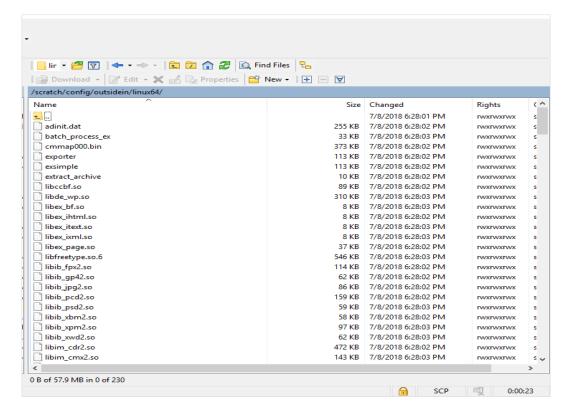
Then copy all contents (except jar & sh files) of 'sdk/demo' directory to config/outsidein/<os>

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

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

Default config/outsidein/linux64

Grant 777 privileges for OutsideIn directory

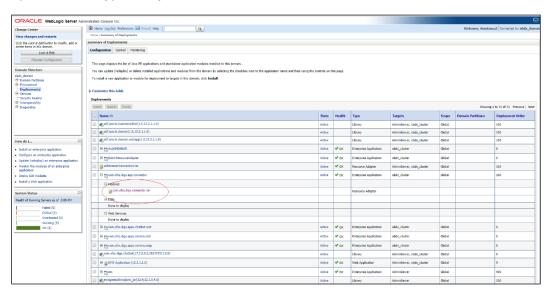


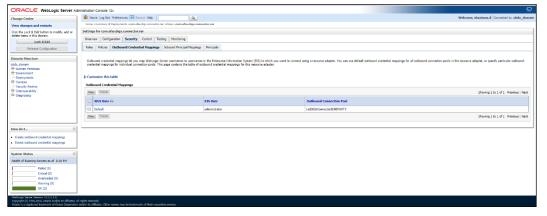
# 2.2 Configuration for storing key for decrypting uploaded files and creating encrypted response files

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';

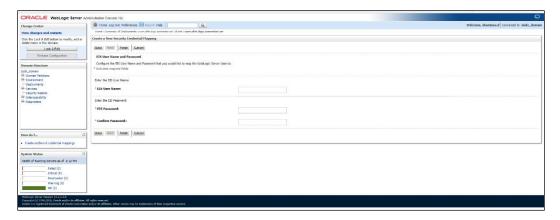
Update the encryption key in connector as below -





#### 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 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"</pre>
    fileHandlerClassName="com.ofss.digx.app.fileupload.handlers.InternalFTFileHandler"
decryptionClass="" charSet="UTF-8" delimiter="," comments=""
    isFirstRecHeader="false" simpleOrMixed="M" fillchar="" partialProcessing="100" transactionType="ITG">
        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-vvvv"/>
        <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"}
        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"/</pre>
        <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

In case of OBPM as host, for **file level** uploads in OBDX, the files are generated in PAIN001001/PAIN001001 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.

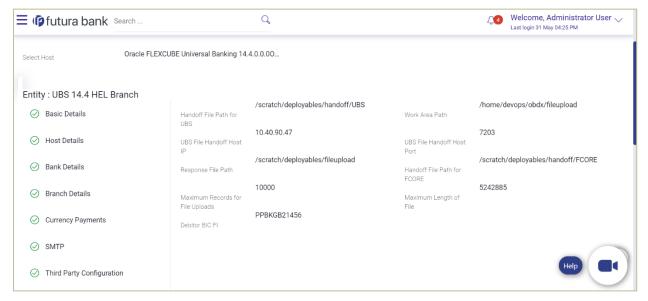
### **Configs**

1. 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

File is copied via REST service to OBPM

- 3. 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:
    - Toggle menu > Configuration > System Configuration > Click on Continue > Select Entity > Dynamic Module Tab > File Upload



# 3. Reports

Reports in OBAPI 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.

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