

File Upload Report Configuration Guide
Oracle Banking Digital Experience
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ORACLE®

File Upload Report Configuration Guide

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Table of Contents

1. Preface	1-1
1.1 Intended Audience	1-1
1.2 Documentation Accessibility	1-1
1.3 Access to Oracle Support	1-1
1.4 Structure	1-1
1.5 Related Information Sources	1-1
2. File Uploads	2-1
2.1 OutsideIn (For MS Excel processing)	2-1
2.2 Configuration for storing key for decrypting uploaded files and creating encrypted response files 2-2	
2.3 Using Enrichers in File Uploads	2-3
3. Reports	3-1
3.1 Reports – Internal Report Engine	3-1

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 describe following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Patchset Release 22.2.2.0.0, 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

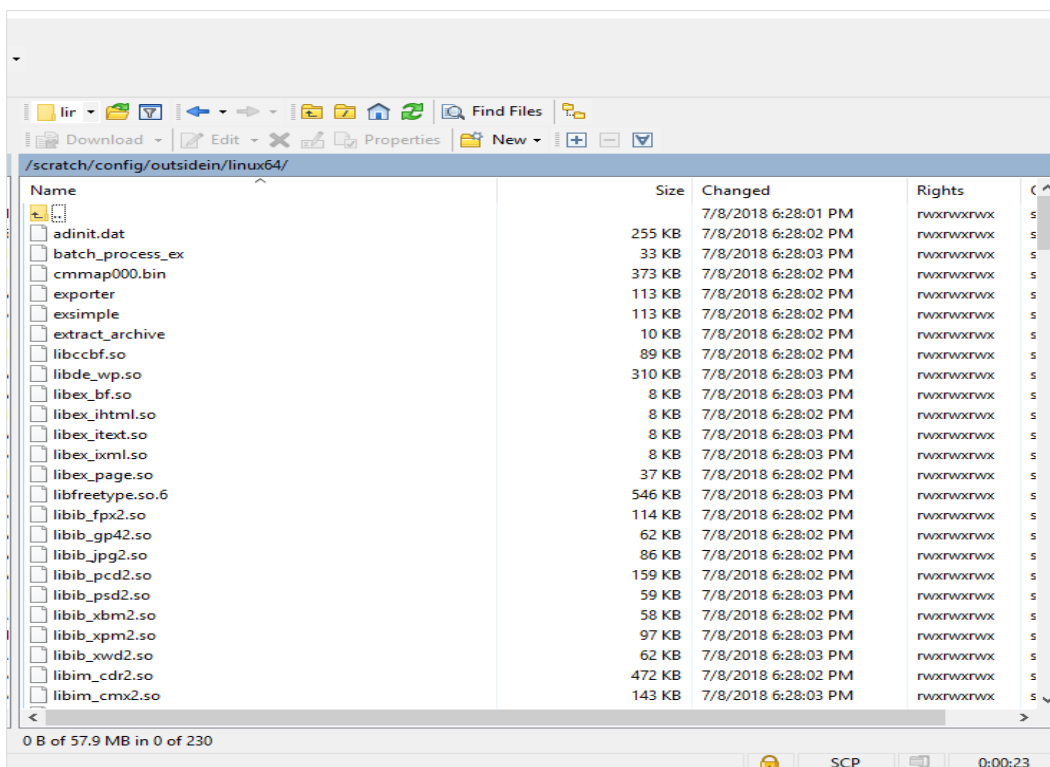
Then copy all contents (except jar & sh files) of 'sdk/demo' directory to config/outsidein/<os>

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

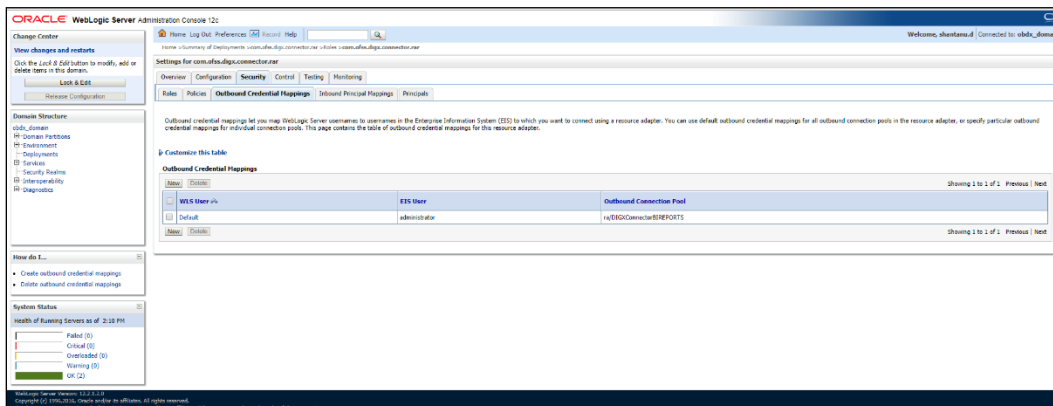
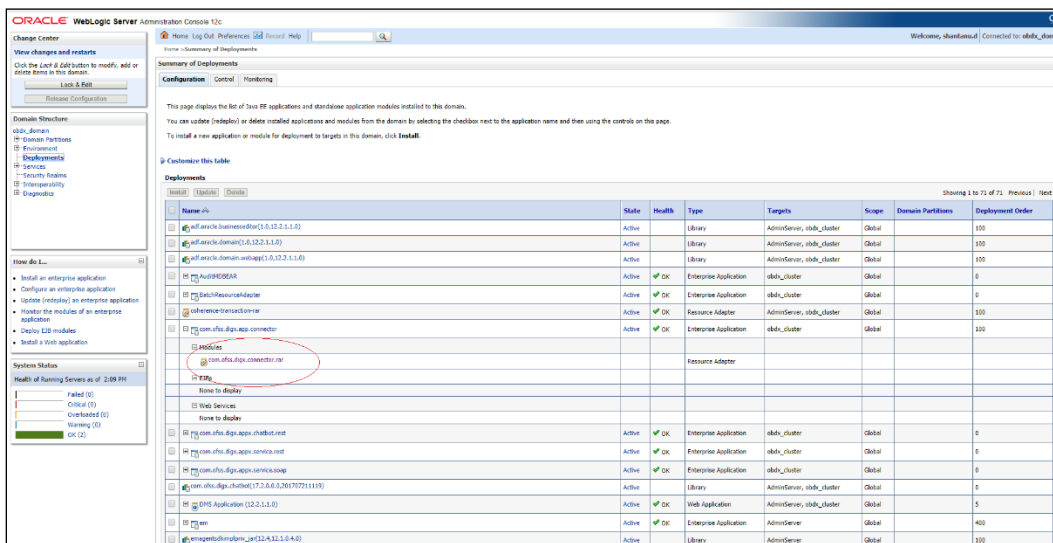


2.2 Configuration for storing key for decrypting uploaded files and creating encrypted response files

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

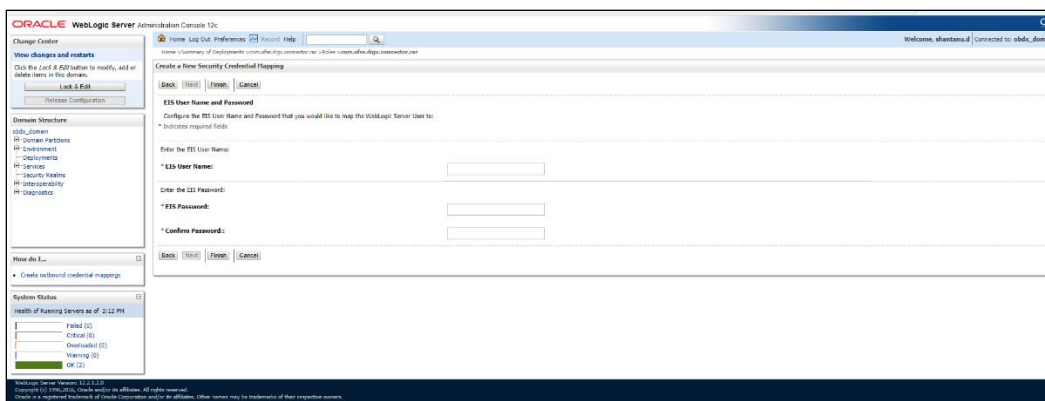
update digx_fw_config_all_b set prop_value='KEY_STORE' where prop_id='ENCRYPTION_KEY_LOCATION';

Update the encryption key in connector as below –



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="ADDRESSENRICHER" 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

FU_IPADDRESS	IP of OBPM machine
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.

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

futura bank Search ...

Welcome, Administrator User
Last login 31 May 04:25 PM

Select Host Oracle FLEXCUBE Universal Banking 14.4.0.0.00...

Entity : UBS 14.4 HEL Branch

- Basic Details
- Host Details
- Bank Details
- Branch Details
- Currency Payments
- SMTP
- Third Party Configuration

Handoff File Path for UBS	/scratch/deployables/handoff/UBS	Work Area Path	/home/devops/obdx/fileupload
UBS File Handoff Host IP	10.40.90.47	UBS File Handoff Host Port	7203
Response File Path	/scratch/deployables/fileupload	Handoff File Path for FCORE	/scratch/deployables/handoff/FCORE
Maximum Records for File Uploads	10000	Maximum Length of File	5242885
Debitor BIC FI	PPBKG21456		

Help

[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.

[Home](#)