File Upload Report Configuration Guide
Oracle Banking Digital Experience
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

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1.3 Access to Oracle Support

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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 22.2.3.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

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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

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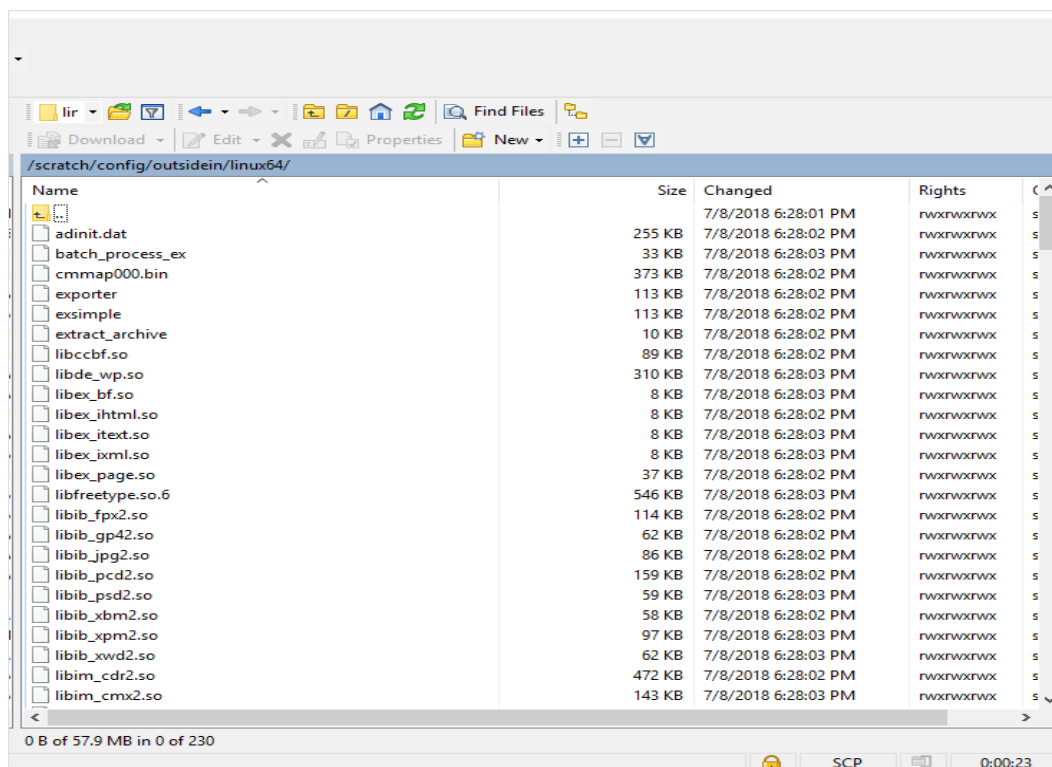
2.2 Configuration for storing key for decrypting uploaded files and creating encrypted response files

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 –

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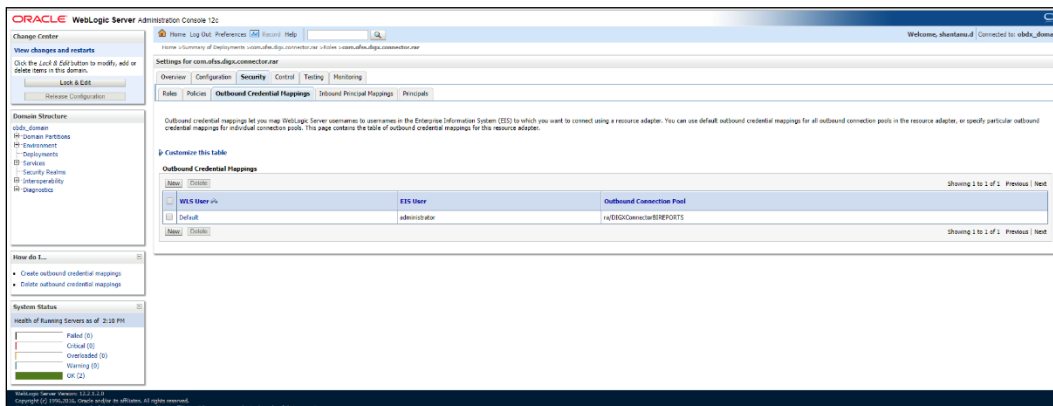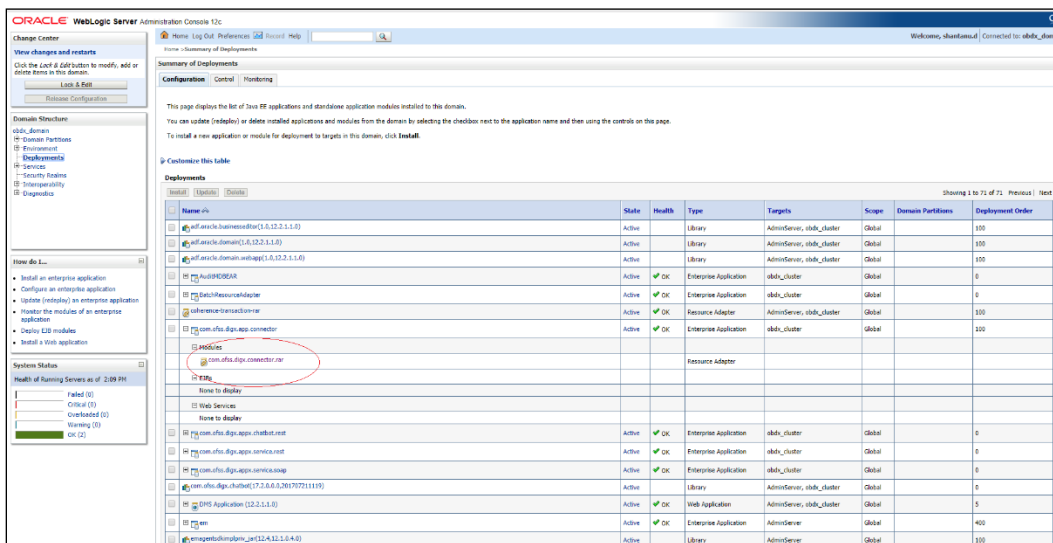
Click New > Select ra/DIGXConnectorFILEUPLOAD > Next > Select Default User

In password field, enter the encryption key
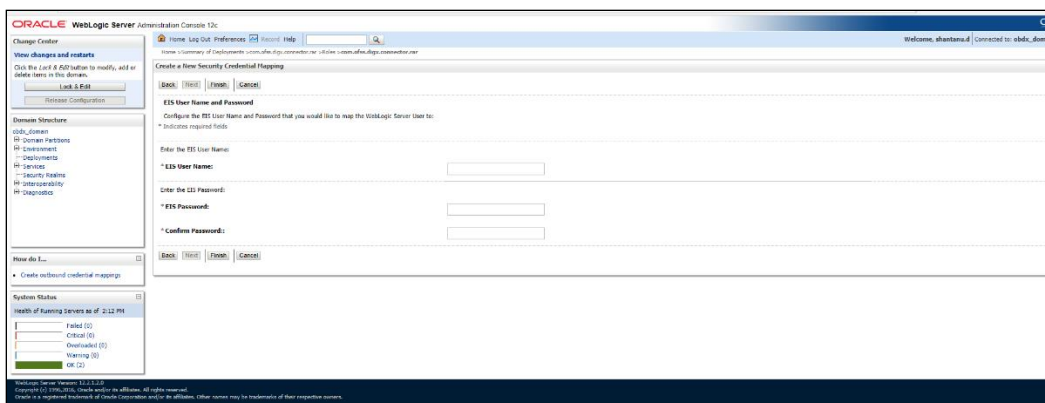
2.3 <u>Using Enrichers in File Uploads</u>

(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
<?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.

```java
@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;
}
```

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- 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

```
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 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.
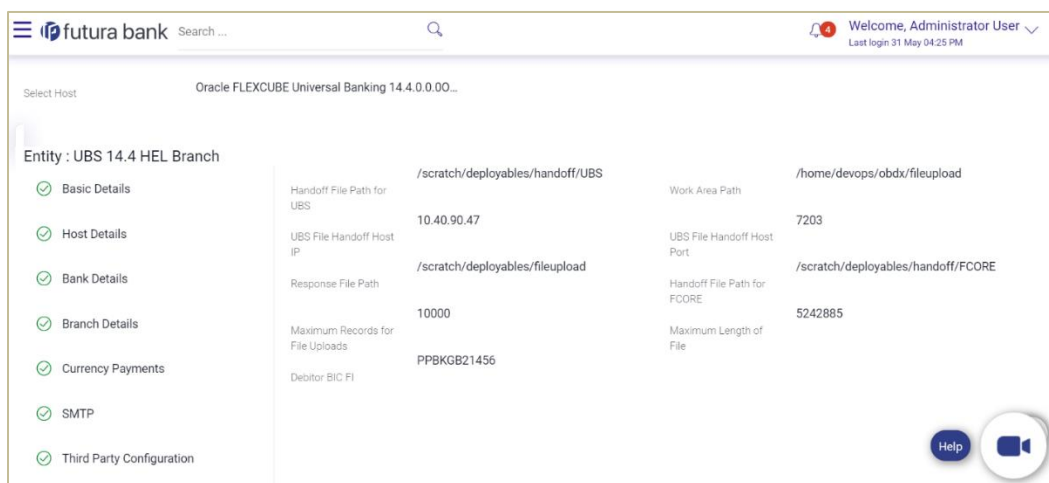
Configs

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:

      i. *Toggle menu > Configuration > System Configuration > Click on Continue > Select Entity > Dynamic Module Tab > File Upload*

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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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