Oracle Banking APIs

File Upload Report Configuration Guide Release 19.1.0.0.0

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File Upload Report Configuration Guide May 2019

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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 http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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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.

Introduction provides brief information on the overall functionality covered in the User Manual.

The subsequent chapters provide information on transactions covered in the User Manual.

Each transaction is explained in the following manner:

- Introduction to the transaction
- Screenshots of the transaction
- The images of screens used in this user manual are for illustrative purpose only, to provide improved understanding of the functionality; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.
- Procedure containing steps to complete the transaction- The mandatory and conditional fields of the transaction are explained in the procedure.

If a transaction contains multiple procedures, each procedure is explained. If some functionality is present in many transactions, this functionality is explained separately.

1.5 Related Information Sources

For more information on Oracle Banking APIs Release 19.1.0.0.0, refer to the following documents:

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

2. File Uploads

(i) 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 \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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exporter	113 KB	7/8/2018 6:28:02 PM	EWXEWXEWX	s
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libim_cmx2.so	143 KB	7/8/2018 6:28:03 PM	FWXFWXFWX	s ,
				>

(ii) 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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Change Center	🔒 Home Log Out Preferences 🐼 Record Help							Welcome, shantanu	Connected to: obdx_domain
View changes and restarts	Home >Summary of Deployments								
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Deployments								
Lock & Edit	Configuration Control Monitoring								
Release Configuration	This page displays the list of Java EE applications and standalone application modul	es installed to this domain.							
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obdx_domain	Outbound credential mappings let you map WebLogic Server usernames to username credential mappings for individual connection pools. This page contains the table of c	utbound credential mappings for this resource adapter.		auptor rea			inclusii pr		specify particular outdound
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Overloaded (0)									
Warning (0) OK (2)									
WebLogic Server Version: 12.2.1.2.0 Copyright (c) 1996.2016. Oracle and/or its affiliates. A	l rights reserved.								

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

In password field, enter the encryption key

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(iii) 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"
    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"
        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"
        recordTvpe="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 el) {
     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=" beneId~beneName "/>

Eg.

File Upload Report Configuration Guide

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	1
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> ¶
8	<field label="E-BANKING REF NO" name="digxRefId"></field> ¶
9	<field label="CONTRACT REF NO" name="contractRefId"></field> ¶
.0	<field label="RECORD STATUS" name="recStatus"></field> ¶
.1	<field label="STATUS CODE" name="errCode"></field> ¶
.2	<field label="STATUS DESCRIPTION" name="errMsg"></field> ¶
.3	1
.4	1
.5	<recorddefinition_query="responselist" recordtype="B">¶</recorddefinition_query="responselist">
.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

- 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 connecter.

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

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 OB OBAPI DX adapter) with configs given below
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.

File Uploads

2. Reports

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

(i) 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.

(ii) 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 → Points to UBS EXT schema

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demo	jdbc:oracle:thin:@HOST:PORT:SID	Û			
OBDX	jdbc:oracle:thin:@mum00bli.in.oracle.com:1521/obdx.in.oracle.com	Û			

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

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			0
Delete			
1			
		Hone	Home Catalog

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 -

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Click Edit → Data model

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Select the data model and save.

For multi entity reports, create separate directories as shown below

U3 and U4 are multi entity reports

DRACLE [®] BI Publisher B	Enterprise Search All v Q, Administration Help v Sign Out
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+• 土土 5 % ≞	Location My Folders/OBDX
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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 *
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	▶ A8 C2 PENDING APPROVALS Last Modified 12/18/17 9:35 AM Created By administrator

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

	ration Console 12c							ç					
Change Center	📦 Home Log Out Preferences 🖾 Record Help												
View changes and restarts	Hora >Summary of Dipoloyments												
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Deployments												
Lock & Edit	Configuration Control Monitoria												
Release Configuration	tion This page displays the list of Java EE applications and standsform application modules installed to this domain.												
Domain Structure Vice (redpluy) or deder installa applications and modules from the domain has selecting the checkbon net to the application name and then using the curtorio on this page.													
obdx_domain ⊕-Domain Partitions ⊕-Environment	To initial a new application or module for deployment to targets in this domain, click Install.												
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	🗋 Name 🗞	State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order					
	adf.oracle.businesseditor(1.0,12.2.1.1.0)	Active		Library	AdminServer, obdx_cluster	Global		100					
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Health of Running Servers as of 2:09 PM	ESR												
Failed (0)	None to display												
Critical (0)	Web Services												
Overloaded (0) Warning (0)	None to display	_											
OK (2)	B Ta com.ofss.digr.appx.chatbot.rest	Active	🖍 ОК	Enterprise Application	obdx_cluster	Global		0					
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	a time	Active	🛩 ок	Enterprise Application	AdminServer	Global		400					
	comagentsdkimplpriv_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer	Global		100					

Add outbound credentials for this application, by following below steps.

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

Settings	Settings for comofss.digx.connector.rar								
Overview	Overview Configuration Security Control Testing Monitoring								
Roles	Policies O	itbound Crede	ntial Mappin	ngs Inbe	oound Principal Mappings	Principals			
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 defa credential mappings for individual connection pools. This page contains the table of outbound credential mappings for this resource adapter.								
New	New Delete								
• w	ULS User 🗞 EIS User Outbound Connection Pool								
	There are no items to display								
New	New Delete								

Click new and select ra/DIGXConnectorBIPREPORTS

Create	e a New Security Credential Mapping
Back	Next Finish Cancel
	tbound Connection Pool
Whi	ich Outbound Connection Pool would you like the credential map to be associated with? Selecting Resource Adapter Default will configure
Cus	stomize this table
Crea	ate a New Security Credential Map Entry for:
	Outbound Connection Pool 🗞
	ra/DIGXConnectorBIREPORTS
	ra/DIGXConnectorFILEUPLOAD
	ra/DIGXConnectorMERCHANT
	Resource Adapter Default
Back	Next Finish Cancel

> Select Default user option

reate a New Se	curity Credential Mapping
Back Next	Finish Cancel
WebLogic Serv	ver User
authenticated W	ogic Server User that you would like to map an EIS user to. Selecting 'User for creating initia /ebLogic Server user that does not have a credential mapping specifically for them. Selecting e a configured WebLogic Server user.
User for crea	ating initial connections
Default User	
O Unauthentic	ated WLS User
Configured (Jser Name
WebLogic Serve	er User Name:

> 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 Use	r 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	