

**Oracle FLEXCUBE Private Banking
December 2010**

Interface Specifications (UBS Pack) – Release 12.0

Oracle Part Number E51529-01



Oracle Financial Services Software Pvt Limited All rights reserved. No part of this work may be reproduced, stored, copied, distributed, adopted or transmitted in any form or by any means, electronic, mechanical, photographic, graphic, audio or any information storage or retrieval system, without the prior written permission of Oracle Financial Services Software Pvt Ltd. The care has been taken to make this Software Analysis & Design Document as accurate as possible. Oracle Financial Services Software Pvt Ltd makes no representation or warranties with respect to the contents hereof and shall not be liable for any damage caused to the user by the direct or indirect use of this Software Analysis & Design Document. Oracle Financial Services Software Pvt Limited reserves the right to alter, modify or otherwise change in any manner the contents of this Software Analysis & Design Document without the prior written notification of Oracle Financial Services Software Pvt Ltd to notify any person of such revision or changes. All trademarks and product names are trademarks of the respective companies with which they are associated.

Revision History

Date	Version	Description	Author
28-FEB-2011	0.1	Initial Draft	Anand

➤ Introduction

This document details the interface specifications for the UBS pack interfaces provided by FCPBS for version 12.0. It also gives information on the various setup that is required to get the FCPB FCUBS Interfaces work.

The document is organized in the following manner:

- Overall FCPB FCUBS Interface Setup.
 - Batch Server Setup
 - Pre-requisite Interface Data Setup
- Interface Specification
 - Online interfaces
 - File Upload interfaces

➤ CONFIGURATION AND SETUP

Batch Server Setup

The batch server should be running with the following settings:

- lib/pbubsadaptercore.jar.
- The conf/pbBatchServerPreContext.xml should have the following entries against key 'ubsApplication as follows:

```
<entry key="ubsApplication" value="com/ofss/fcpb/batch/jms/ubs/conf/
fcubsIntegrationWLJms-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/fcubsIntegration-
online-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/cust-new-
notification-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/casa-account-
balance-notification-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/casa-account-modn-
notification-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/casa-account-
notification-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/td-account-
modification-notification-context.xml,
                                com/ofss/fcpb/batch/jms/ubs/conf/td-account-par-
notification-context.xml, com/ofss/fcpb/batch/jms/ubs/conf/td-account-
rollover-notification-context.xml,pbSegJobs.xml"/>
```

Queue Setup

The file **lib\pbubsadaptercore-3.1.jar\com\ofss\fcps\batch\jms\ubs\conf\fcubsIntegrationWLJms-context.xml** need to be updated as per UBS queue details.

1. For Weblogic server:
 - To Integrate FCPB and FCUBS, FCUBS need to provide following queue details to configure in FCPB
 - 1. Weblogic T3 ipaddress and port<Managed server http port>(Verify with UBS support for exact port number)
 - Update the property(**java.naming.provider.url**) with the value from UBS in the file fcpbfcubsIntWLJMS-Context.xml.
2. For Websphere server:
 - To Integrate FCPB and FCUBS, FCUBS need to provide following queue details to configure in FCPB
 - Host Name
 - Queue manager Name
 - Channel Name
 - channel Port
 - Notification request queue name

Open the file fcubsIntegrationWLJms-context.xml in the FCPB batch server under conf directory. Configure the details got from FCUBS in the file.

File Upload

The following should be taken into consideration, while looking at the file layouts

- Any field which either has a FIELD_SEQUENCE or a CONSTANT_VALUE defined should be ignored and will not be part of the file layout
- Any field which has got a SKIP_REQUIRED as 'Y', needs to be ignored
- Any field marked with a field function indicates a derived value. This might indicate that an existing value needs to be provided for the alternate value to be derived

Sample files are provided for each interface and need to be examined before deciding on the final layout

UBS Pack Execution

The setup for UBS pack consists of the following activities

- Checkout the UBS pack from the SVN
10.184.132.48/FCPBS_REPOSITORY/trunk/DBUTILITIES/Rel3.1/Schema-Upgrade/packs/ubspack3.1
or request the UBS pack from the FCPB support.
- Please run the complete UBS pack scripts either via the Database installation utility or request for the .zip file containing these scripts. Readme.txt within that .zip file will contain the details for installation of the same
Once run, the following gets done
 - Feed/Feed-Detail configuration (MST_FEED/MST_FEED_DETAIL)
 - Insertion of data into T_TRANSACTION_TRANSFORM
 - Tables, Views, Synonyms, Sequences, Packages and functions for UBS pack
- If you choose to use the batch server to upload the files, the input file folder has to be configured accordingly (pbs_intergation_config.xml) and the files will have to be dropped into the folder. Otherwise, these files can be manually uploaded from the front-end using the manual upload facility.
-

For large files, it is always recommended to drop the files into the batch server folders so that there is no choke on the network when huge files are uploaded.

For files uploaded from the UI, the view log report is displayed on the UI itself after the upload is completed. For files uploaded from the server, the view log report is sent via email

Segmentation Upgrade

- FCPB will receive files from FCUBS once the customer upgraded to Wealth segment. The Segmentation Upgrade files will be copied into **java.io.feaddir(startup parameter) \in** directory.
- There will be scheduled job will run after the FCUBS eod and the files will be processed one by one. The below are segmentation related job xmls.
-
- SEG_JOB_0010.xml-Customer Creation Upload
- SEG_JOB_0011.xml-Customer CASA Account Upload
- SEG_JOB_0012.xml-CASA Balances Upload
- SEG_JOB_0013.xml-Prod Bal Upload

- SEG_JOB_0014.xml-TD-Booking/PartialWithdrawal/RollOver
- SEG_JOB_0015.xml-TD-Mat/Int/Penalty

➤ FCUBS ONLINE INTERFACES

The interfaces are divided into two categories depending on the initiation of data flow from FCPB perspective:

1. Inbound – FCUBS to FCPB (also, referred to as ‘Incoming Notifications’)

Inbound Notifications

- 1) **FEED NAME:** UBS_CUSTOMER_MASTER
STAGING TABLE NAME: S_CUSTOMER
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_DEFAULT_PORTFOLIOID	Fetch default portfolio Id based on instrument type	S_PORTFOLIO_ID
2	CHECK_NULL	Checks if argument passed is null, if null returns GEP error.	S_ACCLS, S_PROD_ID, S_BID_ASKIND,
3	CHECK_FK_IF_NOT_NULL	Checks if argument passed exists in master/ref table, if null returns GEP error.	S_CLIENT_ID

Errors:

None configured specifically for this interface

MODE:

Online Interface

FORMATS

PROCESSING SUMMARY

A new Customer Created at FCUBS will initiate a notification. On receipt of notification at FCPB, FCPB will stage the raw data into table S_CUCTOMER. Client ID and Sub Portfolio data is fetched from the notification where as Instrument and Portfolio Id are derived from the S_ACCLS and Instrument Type. Tables PMS_TRANSACTION, PMS_PORTFOLIO_HOLDING, and PMS_TD_HOLDINGS_DETAILS are updated with necessary data.

SAMPLE FILES

- 2) **FEED NAME:** UBS_NOTIF_TD_NEW
STAGING TABLE NAME: S_TD_HOLDINGS
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_DEFAULT_PORTFOLIOID	Fetch default portfolio Id based on client id and instrument type	S_PORTFOLIO_ID
2	CHECK_NULL	Checks if argument passed is null, if null returns GEP error.	S_ACCLS, S_PROD_ID, S_BID_ASKIND, S_TRAN_DATE, S_CLIENT_ID
3	CHECK_FK_IF_NOT_NULL	Checks if argument passed exists in master/ref table, if invalid returns GEP error.	S_CLIENT_ID, S_TRAN_TYPE
4	GET_PB_CLIENT_ID	Fetch PB client id from external client id passed. Returns GEP error id external client id is invalid.	S_CLIENT_ID
5	GETINSTRUFROMSUBPORT	Fetch instrument id from PMS_PORTFOLIO_HOLDING with client id and account number i.e. sub portfolio id passed in case S_ACCLS is null. Returns null if no instrument is found.	S_ACCLS
6	GETBANKPRODID	Fetch prod_id from mst_banking_prod_alt with S_ACCLS and S_AMT_CCY passed.	S_ACCLS
7	GETINSTRUMENTID	Fetch instrument id from INSTRUMENT_ALT with prod_id and S_AMT_CCY	S_ACCLS

		passed, Returns null if no instrument is found.	
--	--	---	--

Errors:

- 1) BOOKING_DATE IS NULL/ Instrument Id IS NULL/ BID ASK IND IS NULL
- 2) INVALID Tran Type/ INVALID Customer Number/ INVALID External Client Id

MODE:

Online Interface

FORMATS



TD_Creation_Spread
.xml

PROCESSING SUMMARY

A new TD booked at FCUBS will initiate a notification. On receipt of notification at FCPB, FCPB will stage the raw data into table S_TD_HOLDINGS. Client ID is derived from external client id and Sub Portfolio data is fetched from the notification where as Instrument and Portfolio Id are derived from the S_ACCLS and Instrument Type. Tables PMS_TRANSACTION, PMS_PORTFOLIO_HOLDING, and PMS_TD_HOLDINGS_DETAILS are updated with necessary data.

SAMPLE FILES



TD_Creation_Spread
.xml

- 3) **FEED NAME:** UBS_NOTIF_TD_MOD
STAGING TABLE NAME: S_TD_HOLDINGS
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_DEFAULT_PORTFOLIOID	Fetch default portfolio Id based on client id and instrument type	S_PORTFOLIO_ID

2	CHECK_NULL	Checks if argument passed is null, if null returns GEP error.	S_ACCLS, S_PROD_ID, S_BID_ASKIND, S_TRAN_DATE, S_CLIENT_ID
3	CHECK_FK_IF_NOT_NULL	Checks if argument passed exists in master/ref table, if invalid returns GEP error.	S_CLIENT_ID, S_TRAN_TYPE
4	GET_PB_CLIENT_ID	Fetch PB client id from external client id passed. Returns GEP error id external client id is invalid.	S_CLIENT_ID
5	GETINSTRUFROMSUBPORT	Fetch instrument id from PMS_PORTFOLIO_HOLDING with client id and account number i.e. sub portfolio id passed in case S_ACCLS is null. Returns null if no instrument is found.	S_ACCLS
6	GETBANKPRODID	Fetch prod_id from mst_banking_prod_alt with S_ACCLS and S_AMT_CCY passed.	S_ACCLS
7	GETINSTRUMENTID	Fetch instrument id from INSTRUMENT_ALT with prod_id and S_AMT_CCY passed, Returns null if no instrument is found.	S_ACCLS

Errors:

- 3) BOOKING_DATE IS NULL/ Instrument Id IS NULL/ BID ASK IND IS NULL
- 4) INVALID Tran Type/ INVALID Customer Number/ INVALID External Client Id

MODE:

Online Interface

FORMATS



NOTIF_TD_PB_MODI
FY.xml

PROCESSING SUMMARY

If a new TD booked at FCUBS undergoes some changes related to maturity date, interest rate will initiate a notification. On receipt of notification at FCPB, FCPB will stage the raw data into table S_TD_HOLDINGS. Client ID is derived from external client id and Sub Portfolio data is fetched from the notification where as Instrument and Portfolio Id are derived from the S_ACCLS and Instrument Type. PMS_TD_HOLDINGS_DETAILS are updated with necessary data.

SAMPLE FILES



NOTIF TD MOD.xml

- 4) **FEED NAME:** UBS_NOTIF_CASA_ACC
STAGING TABLE NAME: S_CLIENT_BANK_ACCT
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_PB_CLIENT_ID	Get client Id based on external client Id	S_EXT_CLIENT_ID
2	CHECK_NULL	Checks whether passed argument is null.	
3	GETBANKPRODID	Get FCPB Prod Id based on prod Id and currency.	S_ACCLS
4	GET_DEFAULT_PORTFOLIOID	Get default portfolio Id based on client Id	S_PORTFOLIO_ID
5	GETINSTRUMENTID	Get FCPB Instrument Id for an Alt Instrument Id	S_INSTRUMENT_ID

Errors:

1. INVALID External Client Id
2. External Client Id IS NULL / Bank Account No IS NULL / Prod Id IS NULL/ Instrument Id IS NULL

MODE:

Online Interface

FORMATS



**CASA Account
Creation Notification.**

PROCESSING SUMMARY

CASA account creation notification will be initiated from FCUBS. On receipt of notification FCPB will state the data in S_CLIENT_BANK_ACCT and further update CRM_CLIENT_BANK_ACCT table.

SAMPLE FILES



**CASA Account
Creation Notification.**

- 5) **FEED NAME:** UBS_NOTIF_CASA_BAL
STAGING TABLE NAME: S_FCUBS_CASA_BALANCES
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_PB_CLIENT_ID	Get client Id based on external client Id	S_EXT_CLIENT_ID
2	GET_CURR_BUS_DATE	Get current Business Date for a given bank.	VALUE_DATE
3	GET_INSTR_ID_FROM_PROD_ALT_ID	Fetch Instrument Id for a given Prod Alt Id	INSTRUMENT_ID
4	CHECK_NULL	Checks whether passed argument is null.	

Errors:

- 1. No instrument Id mapped for this Prod Alt Id.
- 2. INVALID External Client Id.

MODE:

Online Interface

FORMATS



CASA Account
Balance Notification.x

PROCESSING SUMMARY

CASA Balance notification will be initiated from FCUBS. On receipt of notification FCPB will state the data in S_FCUBS_CASA_BALANCES and further update PMS_PORTFOLIO_HOLDING table for particular CPIS.

SAMPLE FILES



CASA Account
Balance Notification.x

- 6) **FEED NAME:** UBS_NOTIF_CA_CUSTACC_MOD
STAGING TABLE NAME: S_CLIENT_BANK_ACCT
AUDIT TABLE: S_UBS_XML_AUDIT

FIELD FUNCTIONS:

Sr. No	Field Function	Function Description	Staging table Column
1	GET_PB_CLIENT_ID	Get client Id based on external client Id	S_EXT_CLIENT_ID
2	CHECK_NULL	Checks whether passed argument is null.	
3	GETBANKPRODID	Get FCPB Prod Id based on prod Id and currency.	S_ACCLS
4	GET_DEFAULT_PORTFOLIOID	Get default portfolio Id based on client Id	S_PORTFOLIO_ID
5	GETINSTRUMENTID	Get FCPB Instrument Id for an Alt Instrument Id	S_INSTRUMENT_ID

Errors:

- 1. INVALID External Client Id.
- 2. External Client Id IS NULL / Bank Account No IS NULL / Prod Id IS NULL/ Instrument Id IS

NULL.

MODE:

Online Interface

FORMATS



NOTIF_CUSTACCMOD_PB.xml

PROCESSING SUMMARY

CASA Closure notification will be initiated from FCUBS. On receipt of notification FCPB will state the data in S_CLIENT_BANK_ACCT and further update account status in CRM_CLIENT_BANK_ACCT to close.

SAMPLE FILES



NOTIF_CUSTACCMOD_PB_SAMPLE.xml

➤ FILE UPLOAD Interfaces

Eod File HandOff

1. UBS TD ACCRUED INTEREST:

FEED_NAME: UBS_TD_ACC_INT
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_TRANSACTIONS
ENRICHMENT: PBS_FCUBS_TD_ACCR_INT.PROC_TD_ACCR_INT_ENRICH
PROCESSING: PBS_FCUBS_TD_ACCR_INT.PROC_TD_ACCR_INT_UPDATE



UBS_TD_ACC_INT.cs

v

2. UBS TD MATURITY

FEED_NAME: UBS_TD_MATURITY
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_TRANSACTIONS
ENRICHMENT: PBS_FCUBS_TD_MATURITY.PROC_TD_MATURITY_ENRICH
PROCESSING: JAVA TRANSACTION PROCESSOR



UBS_TD_MATURITY.

csv

3. UBS PROD BAL

FEED_NAME: UBS_PRODBL
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_PROD_BAL
PROCESSING: PBS_CASA.PBS_PROD_BAL



UBS_PRODBL.CSV

Segmentation Upgrade Files

1. UBS_SEG_CUSTOMER:

FEED_NAME: UBS_SEG_CUSTOMER
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_CUSTOMER
ENRICHMENT:
UBS_SEG_MASTER_UPLOAD_CUSTOMER.PROC_CUSTOMER_MASTER_ENRIC
H
PROCESSING:
UBS_SEG_MASTER_UPLOAD_CUSTOMER.PROC_CUSTOMER_MASTER_UPLOA
D



UBS_SEG_CUSTOME
R.CSV

2. UBS_SEG_CUSAC

FEED_NAME UBS_SEG_CUSAC
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_CLIENT_BANK_ACCT
ENRICHMENT
:UBS_SEG_CLIENT_BANK_ACCOUNT.CUSTOMER_ACCT_UPLOAD_ENRICH
PROCESSING:
UBS_SEG_CLIENT_BANK_ACCOUNT.CUSTOMER_ACCT_UPLOAD



UBS_SEG_CUSAC.CS
V

3. UBS_SEG_CASABL

FEED_NAME: UBS_SEG_CASABL
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_PROD_BAL
PROCESSING UBS_SEG_PBS_CASA.PBS_PROD_BAL



UBS_SEG_CASABL.C
SV

4. UBS_SEG_PRODBL:

FEED_NAME:UBS_SEG_PRODBL
FEED FILE TYPE: CSV
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_PROD_BAL
PROCESSING UBS_SEG_PBS_CASA.PBS_PROD_BAL



UBS_SEG_PRODBL.C
SV

5. UBS_SEG_TD

FEED_NAME : UBS_SEG_TD
FEED FILE TYPE: CSV
UPLOAD TEMP TABLE: T_TRANSACTIONS
ENRICHMENT: PBS_FCUBS_TD_TRAN.PBS_FCUBS_TD_TRAN_ENRICH
PROCESSING: JAVA TRANSACTION PROCESSOR



UBS_SEG_TD.CSV

6 .UBS_SEG_TDMAT

FEED_NAME : UBS_SEG_TDMAT

FEED FILE TYPE: CSV

UPLOAD TEMP TABLE: T_TRANSACTIONS

ENRICHMENT: PBS_FCUBS_TD_MATURITY.PROC_TD_MATURITY_ENRICH

PROCESSING: JAVA TRANSACTION PROCESSOR



UBS_SEG_TDMAT.CS

V