

FCUBS & ELCM Integration Set Up Guide
Oracle Banking Trade Finance Process Management

Release 14.3.0.0.0

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1. About this Manual

1.1 Introduction

Purpose:

This document provides integration service recommendations for Oracle Banking Trade Finance Process Management 14.3.0.0.0 application with FCUBS and ELCM.

Audience:

This guide is primarily intended for Developers for Oracle Banking Trade Finance Process Management and third party or vendor software's. Some information may be relevant to IT decision makers and users of the application are also included. Readers are assumed to possess basic operating system, network, and system administration skills with awareness of vendor/third-party software's and knowledge of Oracle Banking Trade Finance Process Management application.

1.2 **Scope**

1.2.1 **Read Sections Completely**

Each section should be read and understood completely. Instructions should never be blindly applied. Relevant discussion may occur immediately after instructions for an action, so be sure to read whole sections before beginning implementation.

1.2.2 **Understand the Purpose of this Guidance**

The purpose of the guidance is to provide necessary integration services for OBTFPM 14.3.0.0.0.

1.2.3 **Limitations**

This guide is limited in its scope to integration services guideline for developers.

2. Integration services

2.1 Configuration Properties

This section lists the configuration properties required to connect OBTFPM application with FCUBS and ELCM. These properties are configured in the **PROPERTIES** table of the configuration server.

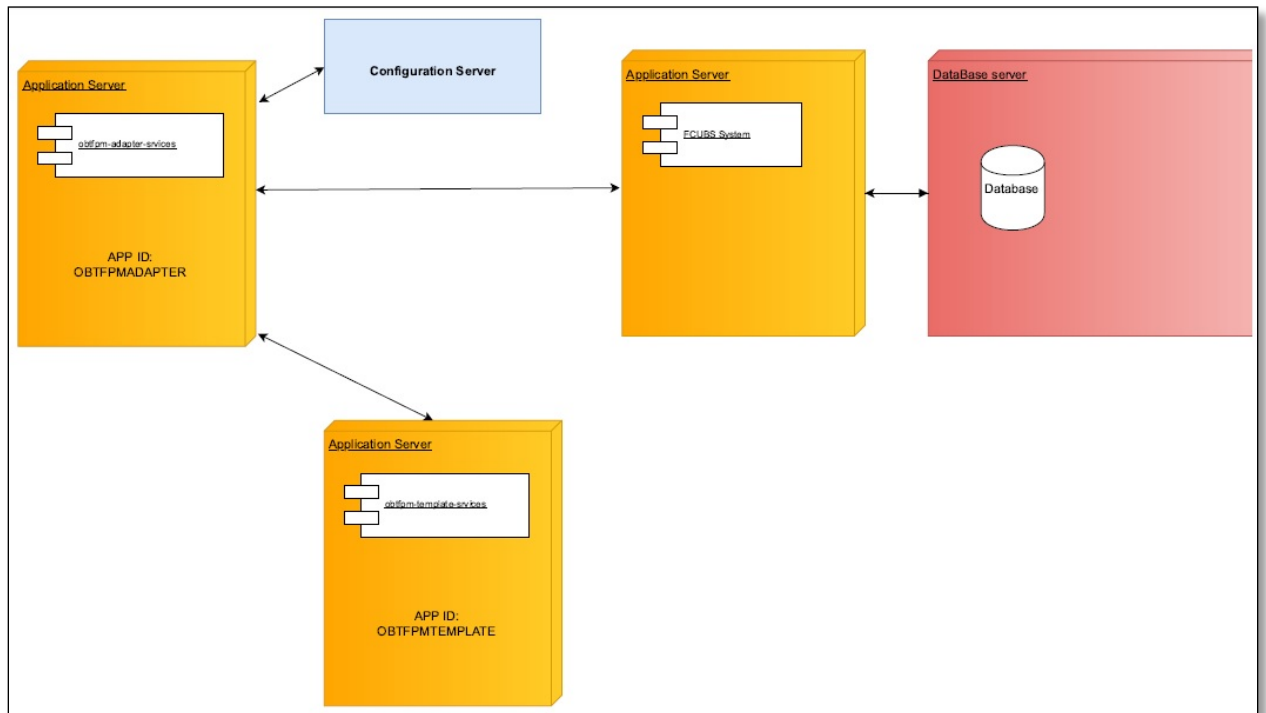
| No | Application | Profile | Label | Key | Value |
|----|-------------------------|---------|-------|---------------------------------|--|
| 1. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 2. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 3. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 4. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 5. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 6. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 7. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |

| No | Application | Profile | Label | Key | Value |
|-----|-------------------------|---------|-------|---------------------------------|--|
| 8. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 9. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 10. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 11. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |
| 12. | obtfpm-adapter-services | jdbc | jdbc | autoSwiftProcessing.triggerTime | Frequency in which the auto processing of swift messages from the external systems should be performed |

2.2 FCUBS Deployment Model

This diagram gives the deployment model of OBTFPM with FCUBS. Following are the sequences of events that occur when OBTFPM communicates with FCUBS:

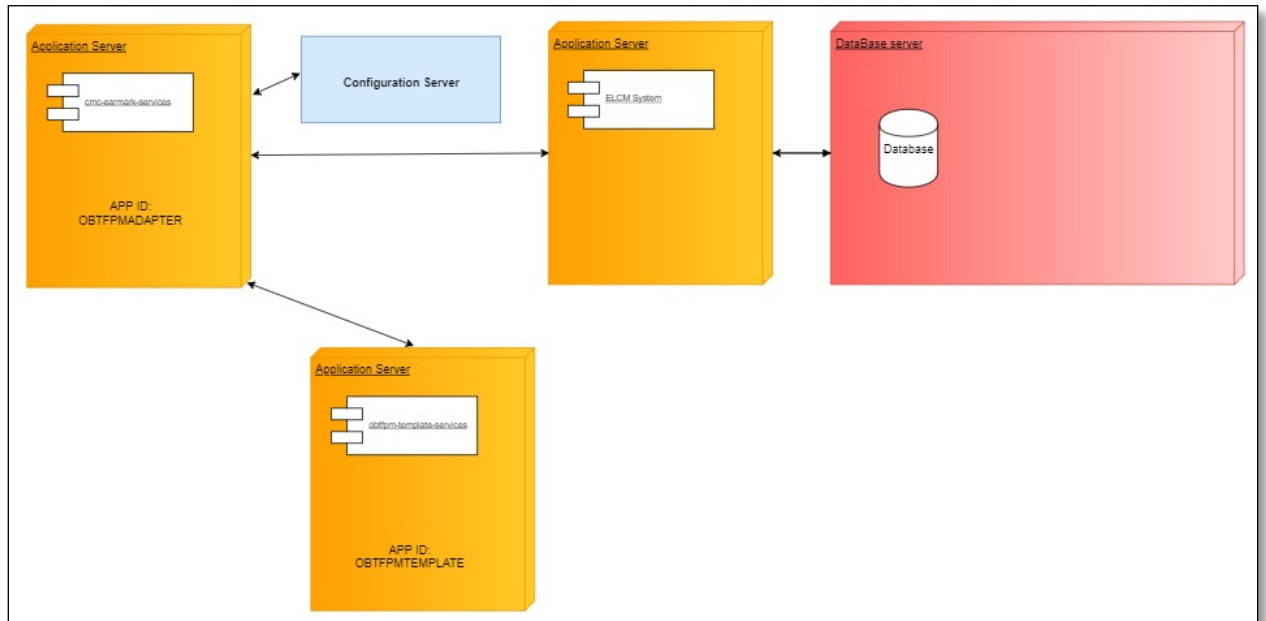
1. obtfpm-adapter-services connect to the configuration server to understand the PROTOCOL, IP of the underlying adapter system to which it needs to connect.
2. It then retrieves the template files from obtfpm-template-services for accessing the templates.
3. It then requests the underlying adapter system for the corresponding service and operation.



2.3 ELCM Deployment Model

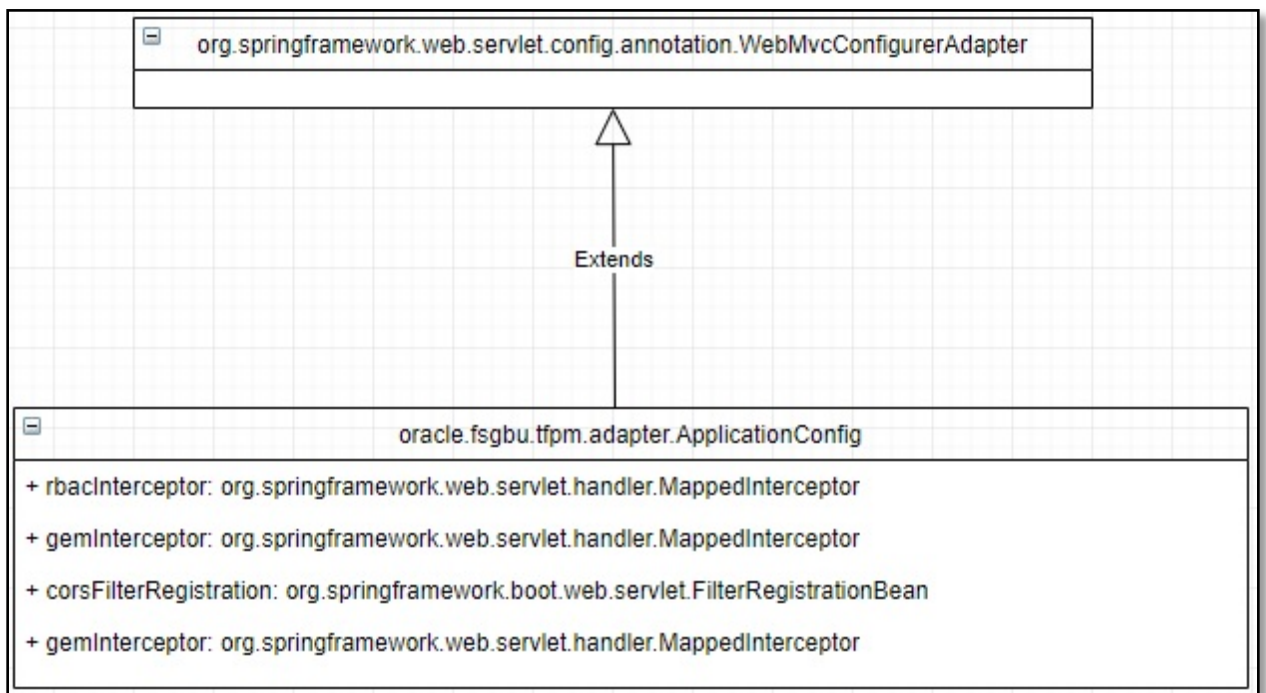
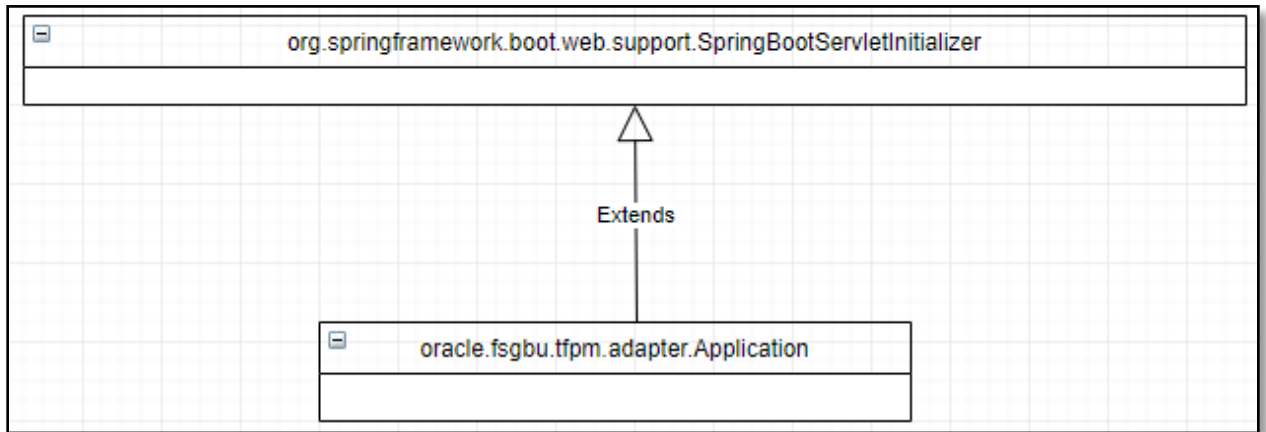
This diagram gives the deployment model of OBTFPM with ELCM. Following are the sequences of events that occur when OBTFPM communicates with ELCM:

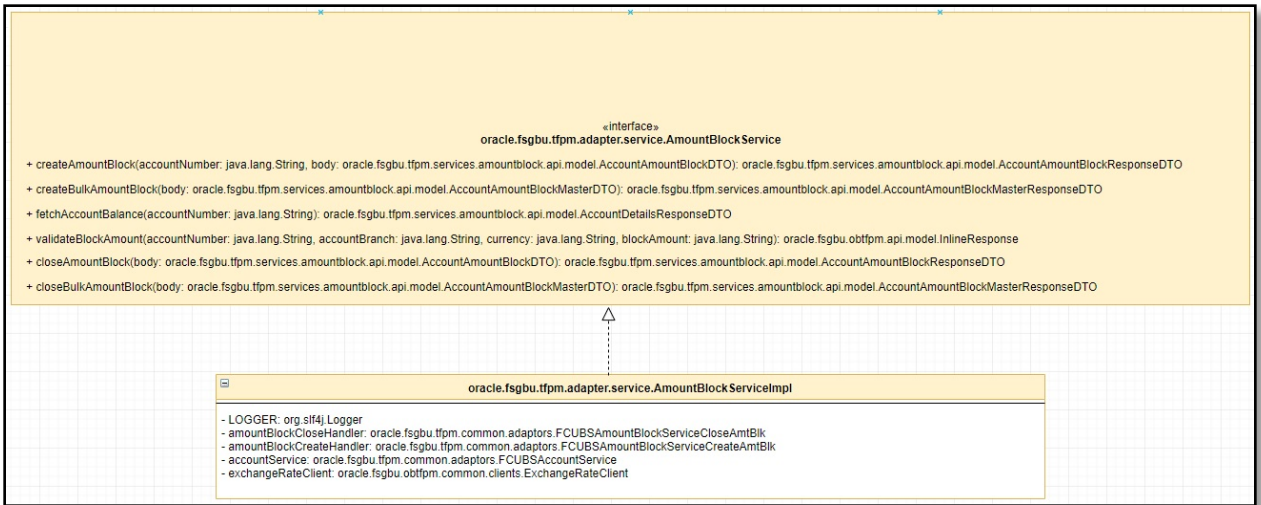
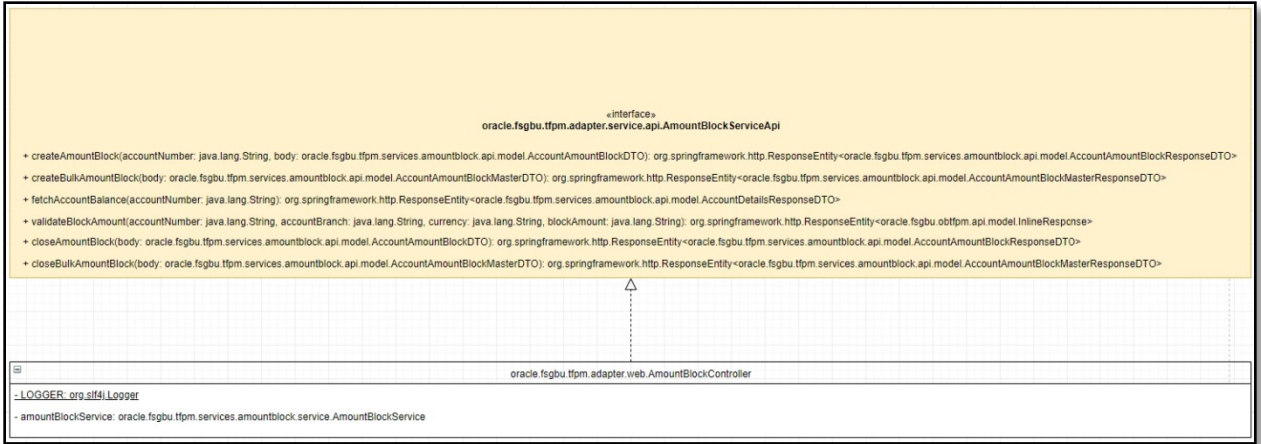
1. cmc-earmark-services connect to the configuration server to understand the PROTOCOL, IP of the underlying adapter system to which it needs to connect.
2. It then requests the underlying adapter system for the corresponding service and operation.

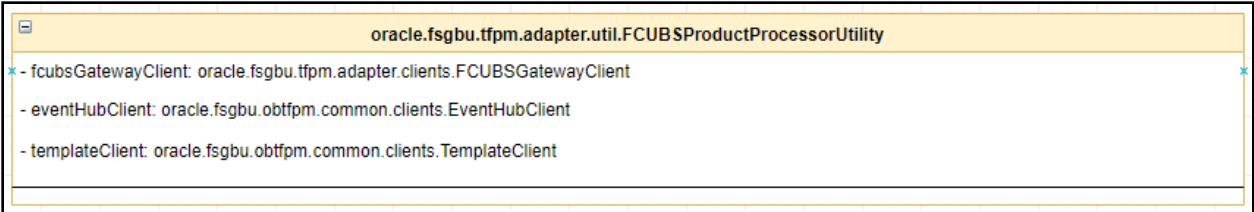
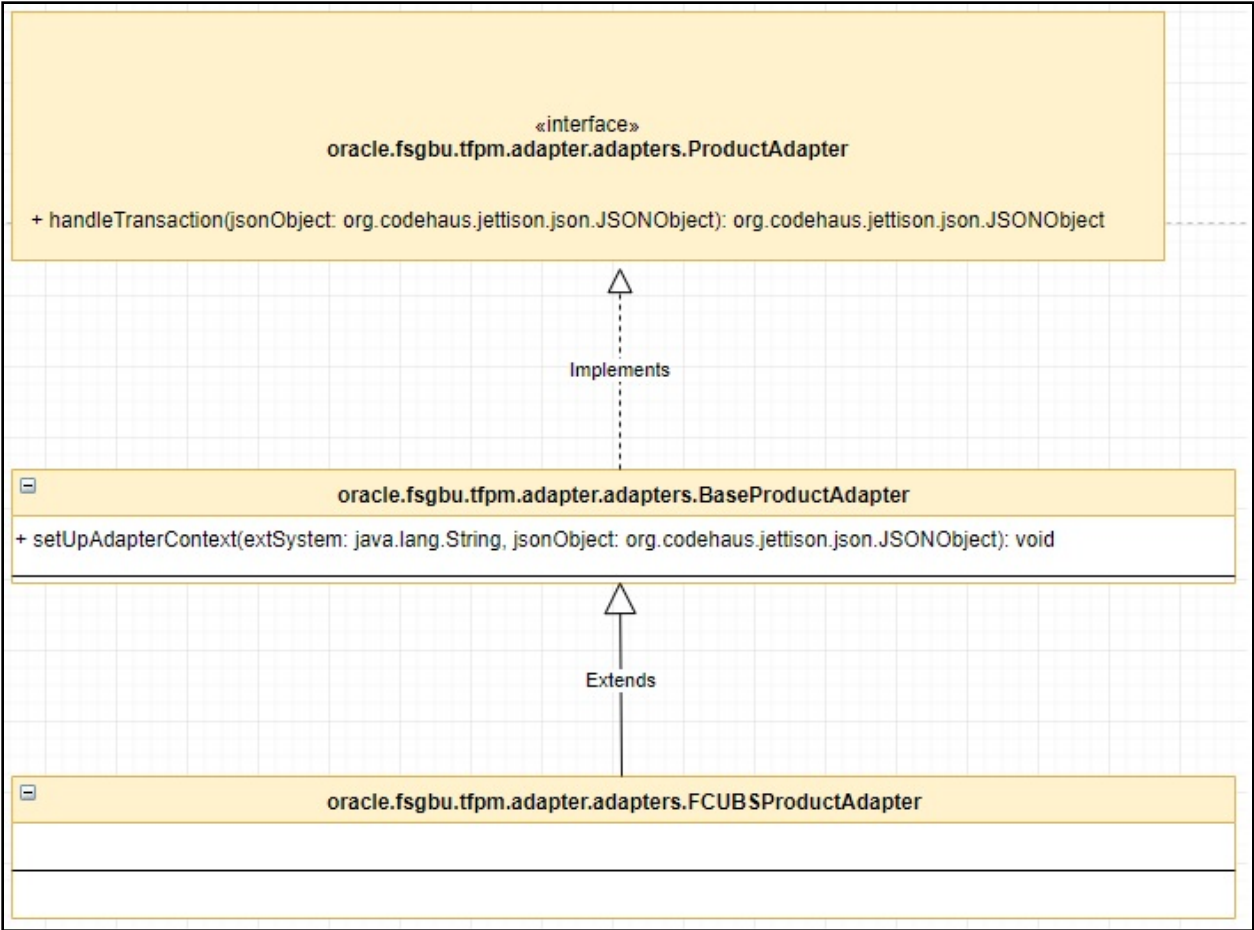


2.4 Class Diagrams

This section provides the class diagram structure of the adapter services.







2.5 Single Sign-on

Single Sign On Feature provides us flexibility in providing a user mapping facility to map multiple MIDOFFICE users to a default user of an external system.

Algorithm for identifying the external systems mapped user is as follows:

1. Get the EXT_USER_ID from **TFPM_TM_EXTERNAL_SYSTEMS_USERS_MAPPING** table and send the same to the external system for the incoming EXT_SYSTEM_ID and USER_ID requests.
2. Fetch the details from **TFPM_TM_EXTERNAL_SYSTEMS_CONFIGURATIONS** table, if there is no entry in **TFPM_TM_EXTERNAL_SYSTEMS_USERS_MAPPING** table.
3. If the entry is not available in both the tables, then provide the incoming USER_ID.

Following are the sample tables with data:

TFPM_TM_EXTERNAL_SYSTEMS_CONFIGURATIONS

| ID(P RIMA RY KEY) | EXT_SYS TEM(UNI QUE) | DEFAULT_USE R_ID | MA KE R_I D | MAKE R_DT_ STAM P | CH EC KE R_I D | CHECKE R_DT_S TAMP | REC ORD _ST AT | AUT H_ST AT | ONC E_AU TH | M OD_ NO |
|----------------------------|----------------------------|---------------------|----------------------|----------------------------|----------------------------|--------------------------|-------------------------|-------------------|-------------------|----------------|
| 1 | FCUBS | FCUBSUSER | | | | | | | | |
| 2 | ELCM | ELCMUSER | | | | | | | | |
| 3 | SOA | SOAUSER | | | | | | | | |
| 4 | DMS | DMSUSER | | | | | | | | |

TFPM_TM_EXTERNAL_SYSTEMS_USERS_MAPPING

| ID | EXTERNAL_SYS_CON FIG_ID | USER_ID | EXT_USER_ID | RECORD_STATUS | VER_NO |
|----|----------------------------|---------|--------------|---------------|--------|
| 1 | 1 | PAUL01 | PAULFCUBS01 | | |
| 2 | 2 | PAUL01 | PAULELCM01 | | |
| 3 | 1 | SIVA01 | SIV AFCUBS01 | | |
| 4 | 2 | SIVA01 | SIVAELCM01 | | |

2.6 XSLT and VM File Extensibility

We provide extensibility at the adapter layer by maintaining the templates in the database. This table enables to maintain the templates for communication with external systems in obtfpm-template-services. It also provides the scope for extensibility as follows:

1. Modify existing template files.
2. Migrate to latest version of FCUBS dynamically.
3. Extensible feature to the bank at the adapter layer.

Table Name: TFPM_TM_TEMPLATE_MASTER

Service Name: obtfpm-template-services

| Column Name | Data Type |
|------------------|--------------------|
| ID | VARCHAR2(36 BYTE) |
| NAME | VARCHAR2(100 BYTE) |
| CONTENT | BLOB |
| TYPE | VARCHAR2(5 BYTE) |
| MAKER_ID | VARCHAR2(36 BYTE) |
| MAKER_DT_STAMP | DATE |
| CHECKER_ID | VARCHAR2(36 BYTE) |
| CHECKER_DT_STAMP | DATE |
| RECORD_STAT | CHAR(1 BYTE) |
| AUTH_STAT | CHAR(1 BYTE) |
| ONCE_AUTH | CHAR(1 BYTE) |
| MOD_NO | NUMBER(1,0) |

TYPE column signifies the template engine to use. This service will be invoked by the obtfpm-adapter-services when templateFetchType is set to DB.