Oracle Identity Manager Interface User Guide

# Oracle FLEXCUBE Universal Banking

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Oracle Identity Manager Interface User Guide
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# Contents

# 1. Preface

## 1.1 Introduction

This manual talks about the interface between Oracle FLEXCUBE and the Oracle Identity Manager system used in your bank. The maintenances required for the proper functioning of this interface, the interface workflow, validations, and processing for the interface have been documented in this manual.

## 1.2 Audience

This manual is intended for the following User/User Roles:

| Role | Function |
|------|----------|
| Back office data entry Clerks | Input functions for maintenance related to the interface. |
| Back office Managers/ Officers | Authorization functions. |

## 1.3 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.

## 1.4 Organization

This manual is organized as follows:

| Chapter | Description |
|---------|-------------|
| **Chapter 1** | *About this Manual* gives information on the intended audience. It also lists the various chapters covered in this User Manual. |
| **Chapter 2** | *Oracle FLEXCUBE - Oracle Identity Manager Interface* explains about the integration and configuration of OIM with Oracle Flexcube. |
| **Chapter 3** | *Annexure A* details about the OIM Components and the various Messages generated within the module. |
| **Chapter 4** | *Function ID Glossary* has alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation. |

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## 1.5    Abbreviations

| Abbreviation | Description |
|---|---|
| System | Unless specified, it shall always refer to Oracle FLECUBE |
| OIM | Oracle Identity Manager |
| SPML | Service Provisioning Mark-up Language |
| DSML | Directory Service Mark-up Language |
| GTC | Generic Technology Connector |

## 1.6    Organization

This manual is organized into the following chapters:

| Chapter | Description |
|---|---|
| **Chapter 1** | *About this Manual* gives information on the intended audience. It also lists the various chapters covered in this User Manual. |
| **Chapter 2** | *Oracle FLEXCUBE – Oracle Identity Manager Interface:* Oracle Identity Manager Interface helps in integrating the two systems for user provisioning and de-provisioning services. |
| **Chapter 3** | *Annexure A* - deals with the: OIM Components, SPML Request and Response Message Formats, Message Exchange Sequences. |

## 1.7    Glossary of Icons

This User Manual may refer to all or some of the following icons.

| Icons | Function |
|---|---|
| ☒ | Exit |
| + | Add row |
| − | Delete row |
| ᵱ | Option List |

*Refer the Procedures User Manual for further details about the icons.*

### 1.7.1    Related Documents

You may refer the following manuals for more information

- Oracle FLEXCUBE manual on Core Entities
- Oracle Identity Manager User Manual (not included with Oracle FLEXCUBE User Manuals)

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# 2. Oracle FLEXCUBE - Oracle Identity Manager Interface

The Oracle FLEXCUBE - Oracle Identity Manager Interface helps in integrating the two systems for user provisioning and de-provisioning services.

Oracle Identity Manager (OIM) automates user provisioning, identity administration, and password management. OIM manages the entire life cycle of user identities and entitlements and helps to control user access across all resources in the organization.

This chapter contains the following sections:

- Section 2.1, "Oracle FLEXCUBE - Oracle Identity Manager Integration"
- Section 2.2, "Integration Deployment Configuration"
- Section 2.3, "Operations for Identity Management "
- Section 2.4, "Interface Attributes"
- Section 2.5, "Interface Maintenances "

## 2.1 Oracle FLEXCUBE - Oracle Identity Manager Integration

The integration between Oracle FLEXCUBE and Oracle Identity Manager is done via a Generic Technology Connector (GTC). The GTC provides for provisioning and reconciliation tasks via the following components:

- For Reconciliation
    - Reconciliation Transport Provider moves the reconciled data from Oracle FLEXCUBE into OIM.
    - Reconciliation Format Provider converts the message received from Oracle FLEXCUBE into a format understandable by OIM.
    - Validation Provider validates data received from Oracle FLEXCUBE before passing it on to OIM.
- For Provisioning
    - Provisioning Format Provider (Service Provisioning Markup Language) converts the provisioning data from OIM into a format understood by Oracle FLEXCUBE.
    - Provisioning Transport Provider (web service) carries the provisioning message received from the Provisioning Format Provider to the Oracle FLEXCUBE.

*For sample GTC configurations refer Annexure A.*

## 2.2 Integration Deployment Configuration

The OIM- Oracle FLEXCUBE integration is designed to follow a Provisioning and Reconciliation deployment configuration. In this kind of deployment configuration the Oracle Identity Manager performs both provisioning and reconciliation tasks.

The tasks performed by OIM in this deployment configuration are as follows:

- Provisioning tasks of OIM are the creation, maintenance, and deletion of accounts on the Oracle FLEXCUBE system.
- Reconciliation task of OIM is to periodically update the data it maintains with regard to Oracle FLEXCUBE using the data from Oracle FLEXCUBE.

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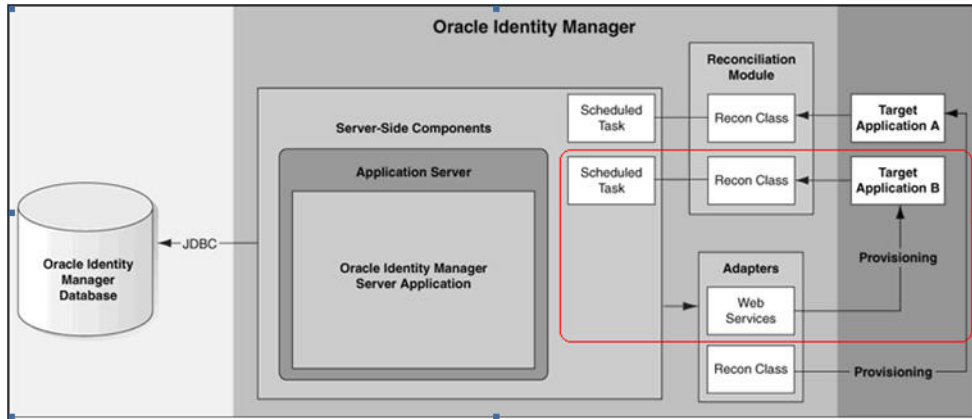
## 2.3    Operations for Identity Management

You can have certain operations regarding User Identity Management using the OIM GTC. The requests for these operations are sent from OIM GTC and are as follows:

- Add request – For creating a New User Record in Oracle FLEXCUBE
- Modify request – For modifying the existing User Record in Oracle FLEXCUBE
- Suspend request - For closing the respective User record in Oracle FLEXCUBE
- Resume request – For Reopening the Respective User record in Oracle FLEXCUBE
- Delete request – For closing the Respective User record in Oracle FLEXCUBE
- Set Password Request – For changing the Password of the respective user in Oracle FLEXCUBE

## 2.4    Interface Attributes

This section contains the following topics:

OIM GTC is used for both user provisioning/de-provisioning services and for reconciliation in Oracle FLEXCUBE.

For user provisioning and de-provisioning services the Oracle FLEXCUBE Gateway user upload services is used. Reconciliation is done using the 'SMBOIMHF' EOD activity in Oracle FLEXCUBE.

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**Note**

If the Logging Enable property has been selected, then a log file containing OIM request and response with corresponding message id will be maintained in location defined by you.

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**Note**

OIM- Oracle FLEXCUBE integration will remain functional with or without the Oracle FLEXCUBE Single Sign on mode.

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*For sample GTC configurations refer to Annexure A.*

## 2.4.1 Data for User Provisioning

The data sent from OIM to Oracle FLEXCUBE for user provisioning will contain only the following:

- Mandatory fields for the creation of users in Oracle FLEXCUBE
- External user reference identification containing the OIM id for a user

The data sent from OIM to Oracle FLEXCUBE for user provisioning is illustrated below.
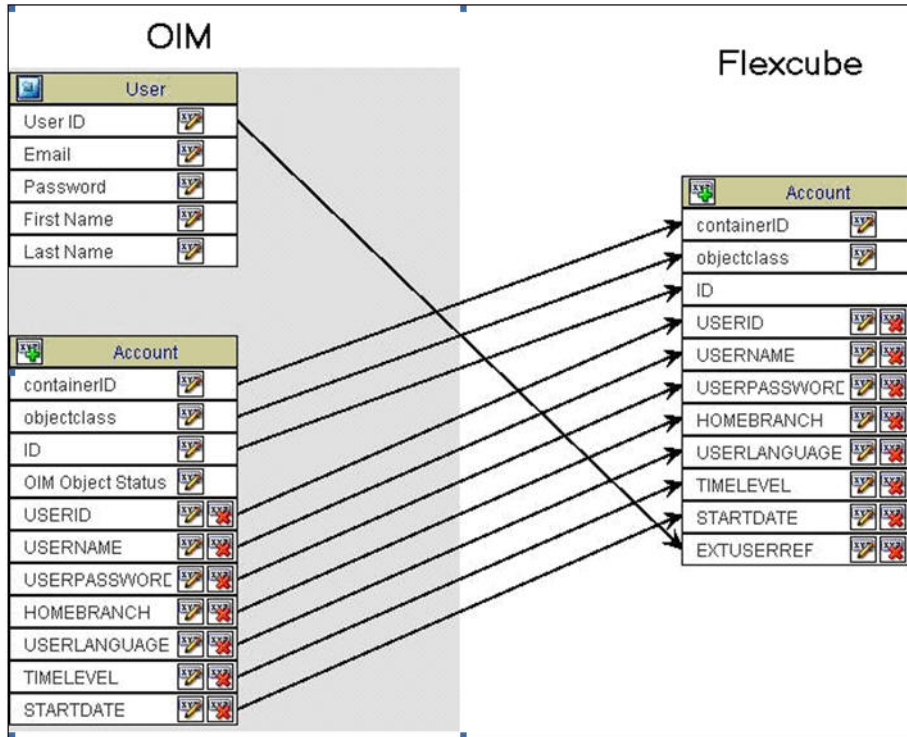


### 2.4.1.1 Collecting Data for User Provisioning

The data for provisioning is collected from the OIM user creation form. The fields to be collected - such as User ID, User Name and User Password – are defined in the 'Provisioning form for Oracle FLEXCUBE GTC'.

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The 'Provisioning form for Oracle FLEXCUBE GTC' is filled up by the OIM Administrator. OIM Administrator uses Direct Provisioning to provision Oracle FLEXCUBE to any OIM user.

The Field values like Name, Password, and User Id in the provisioning data form shall be pre-populated from the OIM user maintenance form.

### 2.4.1.2 Provisioning Process Flow

The Provisioning process flow is illustrated in the diagram shown below.

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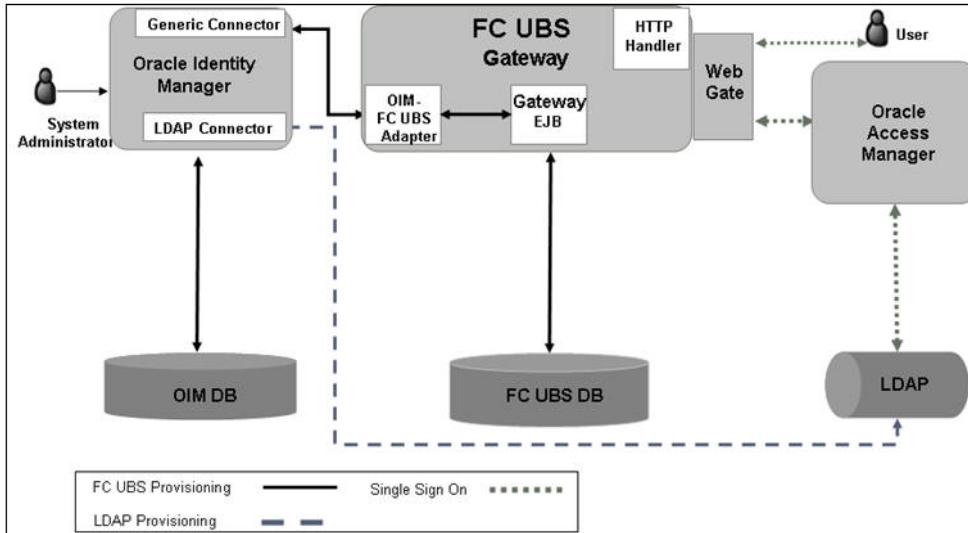
## 2.4.2 Data for Reconciliation

The data for reconciliation contains the same set of mandatory fields used for user provisioning.
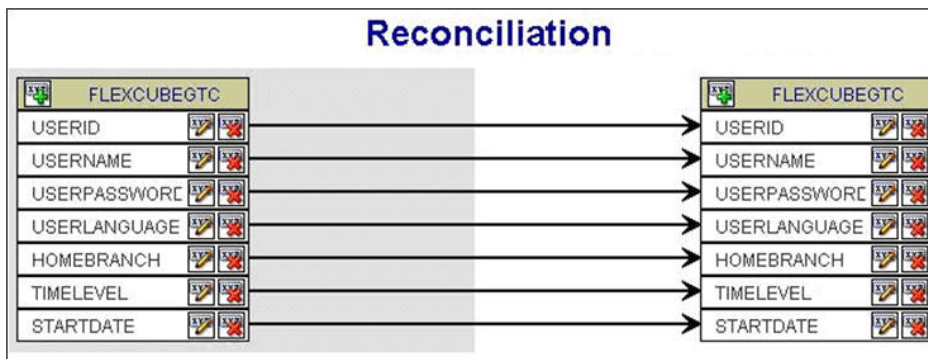


### 2.4.2.1 Reconciliation File Handoff

The EOD activity 'SMBOIMHF' creates the handoff file for reconciliation. The handoff file will be in CSV (Comma Separated Values) format.

**Handoff File Name**

The Handoff file name has two parts which are:

- Prefix – SMOIMHOFF
- Suffix – the current date in rrrr-MM-dd format

**Handoff File Format**

The Handoff file will be in Comma Separated Values (CSV) format and will contain the following:

- First Line - ##FC UBS user data rrrr-MM-dd
- Second line contains comma separated column names
- Third line onwards has the corresponding column values

***Sample Handoff file***

##FC UBS user data 2008-05-06

USERID,USERNAME,USERPASSWORD,TIMELEVEL,HOMEBRANCH,STARTDATE,USERLANGUAG E

TESTUSER1,TEST USER, 56A04A86FADBA54D2AD649D98E3FB63F,9,CHO,31-DEC-07,ENG

TESTUSER2,TEST USER, 3FE06AFE34C9A53E0320E74E43FB3F45,9,CHO,31-DEC-07,ENG

:

### 2.4.2.2 Reconciliation Process Flow

The Reconciliation process flow is illustrated in the diagram shown below.
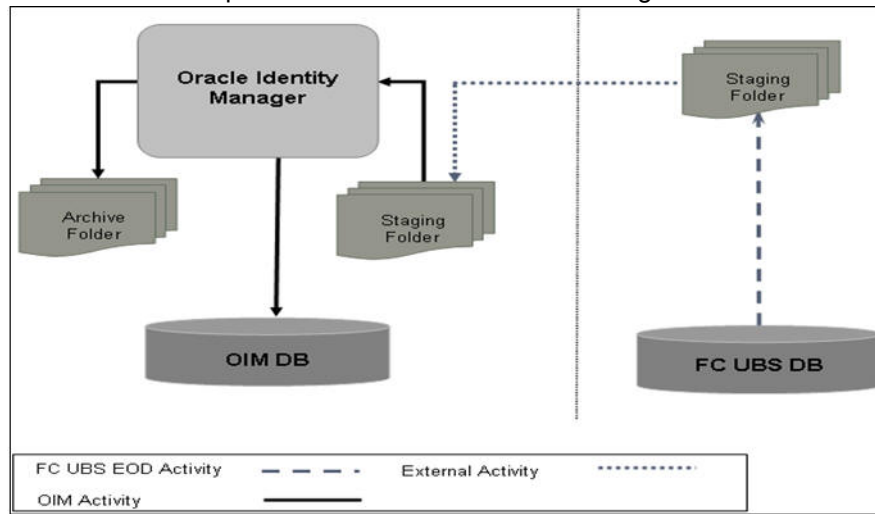


# 2.5 Interface Maintenances

You have to perform the following maintenances for the OIM – Oracle FLEXCUBE Interface.

This section contains the following topics:

### 2.5.1 Maintaining an External Source

For processing OIM requests, a source named IDM is maintained in Oracle FLEXCUBE. This source has access to Oracle FLEXCUBE Gateway user upload services.

The external source can be maintained in the 'External System Detailed' screen. Invoke this screen from under Gateway – External System in the Application Browser.

### 2.5.2 Maintaining OIM Admin User

You must maintain an 'OIM Admin User' in Oracle FLEXCUBE to serve as Maker Id for user provisioning and de-provision. You can maintain the OIM Admin User reference in the 'External Identifier' field.

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The 'External Identifier' field is available in the 'User Maintenance' screen where you can maintain other details of the Oracle FLEXCUBE User as well.

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# 3. Annexure A

This chapter deals with the following additional information with respect to the Oracle FLEXCUBE – Oracle Identity Manager Interface:

## 3.1 Oracle Identity Manager Components

Oracle Identity Manager includes the following components:

- User Interfaces – for the user to define and administer the provisioning environment.
- Provisioning Manager – for maintaining provisioning details such as user profiles, access policies, business process workflows and business rules.
- Provisioning Server for the Provisioning Manager
- Adapter Factory – for integrating OIM with other managed systems and application
- Reconciliation Engine - ensures consistency between the provisioning done by OIM and the resources managed by OIM.

The following figure illustrates the various components of the Oracle Identity Manager system

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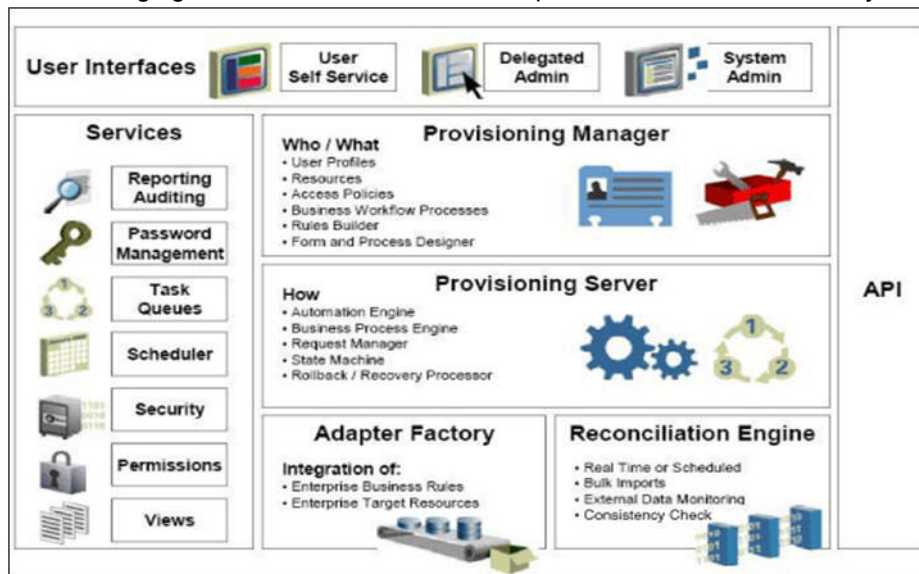
## 3.2  OIM Generic Technology Connector Configuration

The following table lists the parameter fields and the corresponding sample values for OIM GTC.

| Parameter Fields | Sample Value | Remarks |
|---|---|---|
| Run-Time Parameters of the Shared Drive Reconciliation Transport Provider | | |
| Staging Directory (Parent Identity Data) field | <OIM_SERVER_HOME\GTC\RECON\STAGING> | Full Path of the data file that contains data to be modified for the Oracle FLEXCUBE User in OIM |
| Archiving Directory field | <OIM_SERVER_HOME\GTC\RECON\ARCHIVE> | Path to the folder where OIM keeps processed file after reconciliation |
| File Prefix field | SMOIMHOFF | Prefix of the data file for reconciliation |
| Specified Delimiter field | , | This (a comma) is only delimiter available with CSV format |
| Tab Delimiter check box | Check box not selected | NA |
| Fixed Column Width field | NA | |
| Specified Delimiter field | NA | |
| Unique Attribute (Parent Data) field | NA | |
| Run-Time Parameter of the Web Services Provisioning Transport Provider | | |
| Web Service URL field | http://hostname:port/FCUBSProvisioningAdService/services/FCUBSProvisioningAdServiceSEI | Web service URL of FCUBSProvisioning web service |

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| Parameter Fields | Sample Value | Remarks |
|---|---|---|
| Run-Time Parameters of the SPML Provisioning Format Provider | | |
| Target ID field | Oracle FLEXCUBE | Will be same as Destination field of FCUBS Header |
| User Name (authentication) field | NA | |
| User Password (authentication) field | NA | |
| Design Parameters of the Shared Drive Reconciliation Transport Provider | | |
| File Encoding field | Cp1251 | Canonical name for character set encoding for operating system with the English-language setting for the corresponding java.io API supported by OIM GTC |
| Design Parameters of the Web Services Provisioning Transport Provider | | |
| Web Service SOAP Action field | http:// spmladapter.ws.oim.integration.fcubs.iflex.com /processRequest | Will be same as defined in corresponding WSDL |
| Design Parameters of the SPML Provisioning Format Provider | | |
| WSSE Configured for SPML Web Service? check box | Check box not selected | There will be No support for WSSE |
| Custom Authentication Credentials Namespace field | http:// spmladapter.ws.oim.integration.fcubs.iflex.com | Target Namespace value of corresponding WSDL |

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| Parameter Fields | Sample Value | Remarks |
|---|---|---|
| Custom Authentication Header Element field | OIMUser | Tag name in Soap Header that will carry user information provided above |
| Custom Element to Store User Name field | OIMUserId | Do |
| Custom Element to Store Password field | OIMUserPassword | Do |
| SPML Web Service Binding Style (DOCUMENT or RPC) field | DOCUMENT | Binding style of Corresponding web service |
| SPML Web Service Complex Data Type field | FCCProvisioningDocument | Complex data type name defined in Corresponding WSDL |
| SPML Web Service Operation Name field | NA | Operation name defined in Corresponding WSDL |
| SPML Web Service Target Namespace field | http:// spmladapter.ws.oim.integration.fcubs.iflex.com | Target Namespace value of corresponding WSDL |
| SPML Web Service Soap Message Body Prefix field | | NA |
| ID Attribute for Child Dataset Holding Group Membership Information field | | NA |
| Generic Design Parameters | | |
| Target Date Format field | yyyy-MM-dd | Will be same as the Oracle FLEXCUBE Date Format |
| Batch Size field | All | |

| Parameter Fields | Sample Value | Remarks |
|---|---|---|
| Stop Reconciliation Threshold field | None | |
| Stop Threshold Minimum Records field | None | |
| Source Date Format field | yyyy-MM-dd | Will be same as the Oracle FLEXCUBE Date Format |
| Reconcile Deletion of Multi valued Attribute Data check box | Check Box not selected | As no child data is configured |
| Reconciliation Type list | Full | Reconcile all accounts in Oracle FLEXCUBE that are given into staging data files into the Oracle Identity Manager |

## 3.3 SPML Request/Response Message Formats

This section contains the following topics:

- Section 3.3.1, "Add Request"
- Section 3.3.2, "Modify Request"
- Section 3.3.3, "Delete Suspend and Resume Requests"
- Section 3.3.4, "Set Password Request"
- Section 3.3.5, "Add and Modify Responses"
- Section 3.3.6, "Delete Suspend Resume and Set Password Responses"

### 3.3.1 Add Request

This request contains all the data about users. For a Oracle FLEXCUBE user creation, only mandatory fields will be sent in the request.

**Sample Request**

<addRequest  returnData="identifier" targetID="FLEXCUBE">

 <containerID ID="FLEXCUBEDB" targetID=" FLEXCUBE "/>

 <data>

<dsml:attr name="objectclass">

<dsml:value>Users</dsml:value>

```
</dsml:attr>

<dsml:attr name="USERID">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="USERNAME">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="USERPASSWORDNAME">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="USERLANGUAGENAME">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="TIMELEVEL">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="HOMEBRANCH">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="STARTDATE">

<dsml:value>value</dsml:value>

</dsml:attr>

<dsml:attr name="EXTUSERREF">

<dsml:value>value</dsml:value>

</dsml:attr>

</data>
```

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</addRequest>

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRequest :: | Element | Start tag for create user request | | |
| addRequest : targetID | Attribute | Defines the Target system id on which user is to be created | String | This value will be defined as Oracle FLEXCUBE while configuring Generic connector in OIM. This will be provided as the destination tag value in the Header part of the Oracle FLEXCUBE Gateway request. |
| addRequest : returnData | Attribute | Defines ReturnDataType | Identifier | For identifier return data type, only PSO ID will be sent as the OIM response content. |
| addRequest :: containerID | Element | Identifies an object that exists on the target | | |
| addRequest :: containerID : ID | Attribute | The value of ID uniquely identifies an object within the namespace of the target specified by the "targetID" | String | This value will be defined as FLEXCUBEDB while configuration of Generic connector in OIM. |
| addRequest :: containerID : targetID | Attribute | Defines the Target system id on which user is to be created | string | This value will be defined as Oracle FLEXCUBE while configuring GTC in OIM. |
| addRequest :: data | Element | This Node contains the User details | Extensible | |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= objectclass | Attribute | This defines the group to which user belongs. | | Not Used (Needed for compliance with SPML format) |
| addRequest :: data :: dsml:attr : dsml:value | Element | Users | | This value will be defined as Users while configuration of GTC in OIM. |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= USERID | Attribute | User identifier that is to be created in Oracle FLEXCUBE | | This field is mapped as the USERID column of an Oracle FLEXCUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | User identifier value | Date Type: String, Length:12 | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= USERNAME | Attribute | User Name | | This field is mapped as the USERNAME column of an Oracle FLEXCUBE User account. |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRequest :: data :: dsml:attr : dsml:value | Element | value | Date Type: String, Length:35 | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= USERPASS-WORD | Attribute | User  Password | | This field is mapped as the USERPASS-WORD column of an Oracle FLEXCUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | Date Type: String, Length:32 | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= STARTDATE | Attribute | User Account Start Date | | This field is mapped as the STARTDATE column of an Oracle FLEX-CUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRequest :: data :: dsml:attr :: name= TIMELEVEL | Attribute | User Time Level | Data Type: String Length:1 | This field is mapped as the TIMELEVEL column of an Oracle FLEXCUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= HOMEBRANCH | Attribute | User Home Branch code | Data Type: String Length:3 | This field is mapped as the HOME-BRANCH column of an Oracle FLEX-CUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | | |
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= USERLAN-GUAGE | Attribute | User Language | | This field is mapped as the USERLAN-GUAGE column of an Oracle FLEXCUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | Data Type: String Length:3 | |

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRequest :: data :: dsml:attr : | Element | Contains user field as attribute | | |
| addRequest :: data :: dsml:attr :: name= EXTUSERREF | Attribute | EXTUSERREF | | This field is mapped as the EXT_USER_REF Column of an Oracle FLEXCUBE User account. |
| addRequest :: data :: dsml:attr : dsml:value | Element | value | Data Type: String Length:20 | |

### 3.3.2 Modify Request

A sample Modify request is given below:

<modifyRequest returnData="identifier">

<psoID ID="FLXUSER1" targetID=" FLEXCUBE">

</psoID>

<modification>

<dsml:modification name="<Field Name>" operation="replace">

<dsml:value>value</dsml:value>

</dsml:modification>

</modification>

</modifyRequest>

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| modifyRequest | Element | Start tag to modify field request | | |
| modifyRequest : returnData | Attribute | Defines ReturnDataType | Identifier | For identifier return data type, only PSO ID will be sent as the OIM response content |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| modifyRequet :: psoID | Ele- ment | Identifies user in the Oracle FLEX-CUBE | String | This will be mapped with the User Id col- umn of Oracle FLEX-CUBE |
| modifyRequest :: psoID : ID | Attrib- ute | User Id Value | Data Type: String Length: 12 | This will be used to identify a user in Ora- cle FLEXCUBE |
| modifyRequest :: psoID : targetID | Attrib- ute | Defines the Target system id on which user field is to be modified | string | This value will be defined as Oracle FLEXCUBE while con- figuring GTC in OIM. This will be provided as destination tag value in Header part of the Oracle FLEX-CUBE Gateway request. |
| modifyRequest :: modification | Ele- ment | Parent tag for data to be modi- fied | | |
| modifyRequest :: modification :: dsml:modifica-tion: | Ele- ment | Contains data to be modified | | |
| modifyRequest :: modification :: dsml:modifica-tion: name | Attrib- ute | User field name that needs to be modified | | This will be used to identify the column name in Oracle FLEX-CUBE |
| modifyRequest :: modification :: dsml:modifica-tion: operation | Attrib- ute | Defines modifica-tion mode type | Add/ replace | An Oracle FLEXCUBE Gateway modify request will be sent for the field |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| modifyRequest :: modification :: dsml:modification: dsml:value | Element | Contains field value to be modified | | |

### 3.3.3 Delete Suspend and Resume Requests

The message format is same for suspend and resume request with their respective start tag.

**Sample Request**

<deleteRequest>

<psoID ID="<User Identitfier>" targetID=" FLEXCUBE">

</psoID>

</deleteRequest>

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| deleteRequest:: | Element | Start tag | | |
| deleteRequest:: psoID | Element | Identifies the user in Oracle FLEXCUBE | String | This will be mapped with the User Id column of Oracle FLEXCUBE |
| deleteRequest:: psoID : ID | Attribute | User Id Value | Data Type: String Length: 12 | This will be used to identify a user in Oracle FLEXCUBE |
| deleteRequest:: psoID : targetID | Attribute | Defines the Target system id on which user field is to be modified | string | This value will be defined as Oracle FLEXCUBE while configuring GTC in OIM.  This will be provided as destination tag value in Header part of the Oracle FLEXCUBE Gateway request. |

### 3.3.4 Set Password Request

The following is a sample Set Password Request.

<setPasswordRequest xmlns="urn:oasis:names:tc:SPML:2:0:password">

<psoID ID="<User Identitfier>" />

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<password>password2</password>

</setPasswordRequest>

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|-----------|-----------|------------------|--------------|---------|
| setPasswordRe-quest :: | Element | Start tag | | |
| setPasswordRe-quest :: psoID | Element | Identifies a user in Oracle FLEXCUBE | String | This will be mapped with the User Id col-umn of Oracle FLEXCUBE |
| setPasswordRe-quest :: psoID : ID | Attribute | User Id Value | Data Type: String Length: 12 | This will be used to identify a user in Ora-cle FLEXCUBE |
| setPasswordRe-quest :: password | Element | Contains the password to be set | Data Type: String Length: 32 | This will be mapped with the user_pass-word column of Oracle FLEX-CUBE . |

### 3.3.5  Add and Modify Responses

The Add and Modify messages have the same format is same except for their respective start tags.

**Sample for successful response**

< addResponse status="success">

< pso>

< psoID ID="<USER ID>" />

</pso>

</addResponse>

**Sample for unsuccessful response**

< addResponse status="failure" error="alreadyExists">

< errorMessage>

exception=tcDuplicateUserException;errorMessage=User already exists

</ errorMessage>

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</ addResponse>

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| addRe-sponse : | Ele-ment | Root Tag | | |
| addRe-sponse : status | Attrib-ute | Defines the status of request | success failure | This will be used to convey the success or failure of the request to OIM. |
| addRe-sponse :: error | Attrib-ute | Defines the error code | malformedRequest unsupportedOperation unsupportedIdentifier-Type noSuchIdentifier customError unsupportedExecution-Mode invalidContainment noSuchRequest unsupportedSelection-Type resultSetTooLarge unsupportedProfile invalidIdentifier alreadyExists containerNotEmpty | In case of failure status appropri-ate SPML code will be decided and sent to the OIM |
| addRe-sponse :: errorMes-sage | Ele-ment | Contains the error descrip-tion | | In case of failure status this will contain the description of error code. |
| addRe-sponse :: pso | Ele-ment | Identifies user in Ora-cle FLEX-CUBE | String | |
| addRe-sponse :: pso: psoID | Attrib-ute | User Id Value | Data Type: String Length: 12 | This will be same as sent in request to iden-tify user in OIM. |

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### 3.3.6  Delete Suspend Resume and Set Password Responses

Message format is the same for suspend and resume responses except for their respective start tags.

**Sample for successful response**

<deleteResponse status="success"/>

**Sample for unsuccessful response**

< deleteResponse status="failure" error=" noSuchIdentifier ">

< errorMessage>

exception= tcDuplicateUserException;errorMessage=User not found

</ errorMessage>

</ deleteResponse >

| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| deleteRe-sponse : | Ele-ment | Root Tag | | |
| deleteRe-sponse : status | Attrib-ute | Defines the status of request | success<br><br>failure | This will be used to convey the success or failure of the request to OIM |
| deleteRe-sponse :: error | Attrib-ute | Defines the error code<br><br>Note: Appli-cable when status is fail-ure | malformedRequest<br>unsupportedOperation<br>unsupportedIdentifier-Type<br>noSuchIdentifier<br>customError<br>unsupportedExecution-Mode<br>invalidContainment<br>noSuchRequest<br>unsupportedSelection-Type<br>resultSetTooLarge<br>unsupportedProfile<br>invalidIdentifier<br>alreadyExists<br>containerNotEmpty | In case of fail-ure status appropriate SPML code will be decided and sent to the OIM |

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| Field Tag | Field Type | Field Description | Restrictions | Remarks |
|---|---|---|---|---|
| deleteRe-sponse :: errorMessage | Ele-ment | Contains the error description | | In case of fail-ure status this will contain the description of error code. |

## 3.4 Message Exchange Sequence for User Creation

The following diagram illustrates the messages exchange sequence during user creation.

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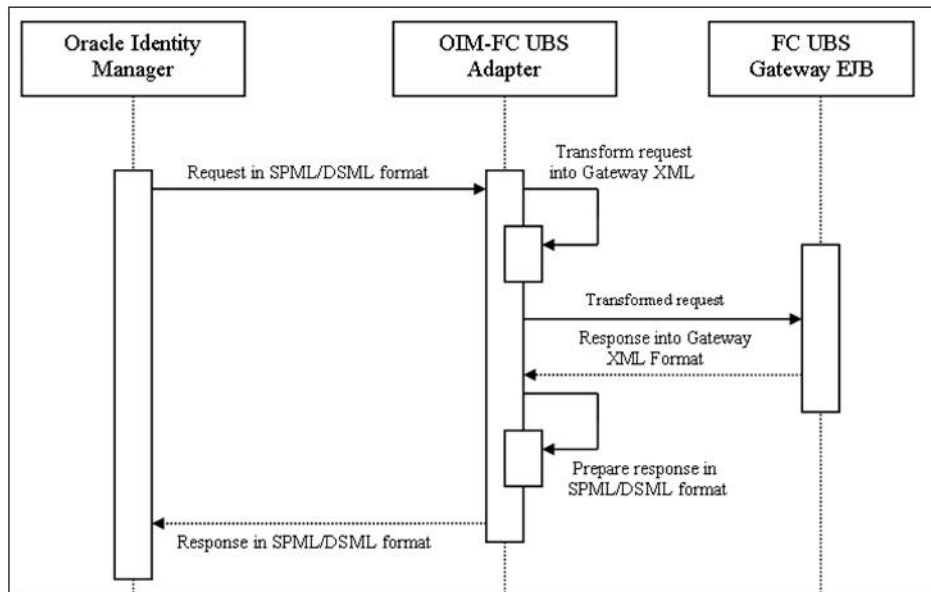
## 3.5 Message Exchange Sequence for User Field Modification/ Set Password

The following diagram illustrates the messages exchange sequence during user field modification and set password.

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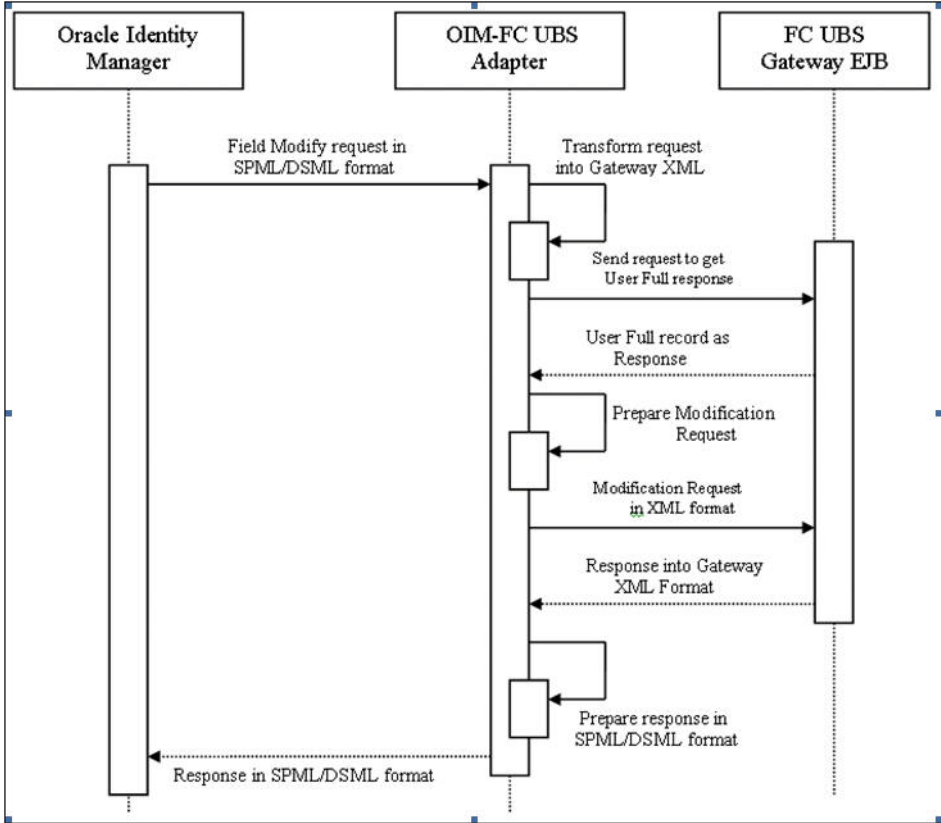
## 3.6 Message Exchange Sequence for User Delete / Suspend / Resume

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