

**Oracle Utilities Meter Data Management  
Release 2.0.1**

Utility Reference Model

3.3.2.1 Maintain Generic Usage Subscription

January 2014

Oracle Utilities Meter Data Management Utility Reference Model 3.3.2.1 Release 2.0.1

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# Chapter 1

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## Overview

This chapter provides a brief description of the Maintain Generic Usage Subscription business process and associated process diagrams. This includes:

- **Brief Description**
  - **Actors/Roles**

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## Brief Description

**Business Process:** 3.3.2.1 MDM. Maintain Generic Usage Subscription

**Process Type:** Sub-Process

**Parent Process:** 3.3.2 MDM.Manage Service Agreement

**Sibling Processes:** 5.6.3.1 MDM.Manage Device and SP, 3.3.1.1 MDM.Manage Contact, 4.2.1.3 MDM.Calculate Usage

This process describes how Usage Subscriptions are added and maintained in the MDM. The Usage Subscriptions allow third party applications (e.g. billing system) subscribe for specific Usage Calculations for the specific Service Points. The Usage Subscriptions control how usage is calculated for Usage Recipient and determine Service Points to be included into the usage calculation. Usage Subscriptions can be added and modified manually by MDM Authorized User or automatically when third party applications, like a billing system, send requests to maintain Usage Subscription.

**Note:** at any period of time:

- Usage Subscription may be linked to multiple Service Points.
- Service Point may be linked to multiple Usage Subscriptions.

## Actors/Roles

The Maintain Generic Usage Subscription business process involves the following actors and roles.

- **MDM Authorized User:** An authorized user of the Meter Data Management application
- **MDM Application:** The Meter Data Management system

# Chapter 2

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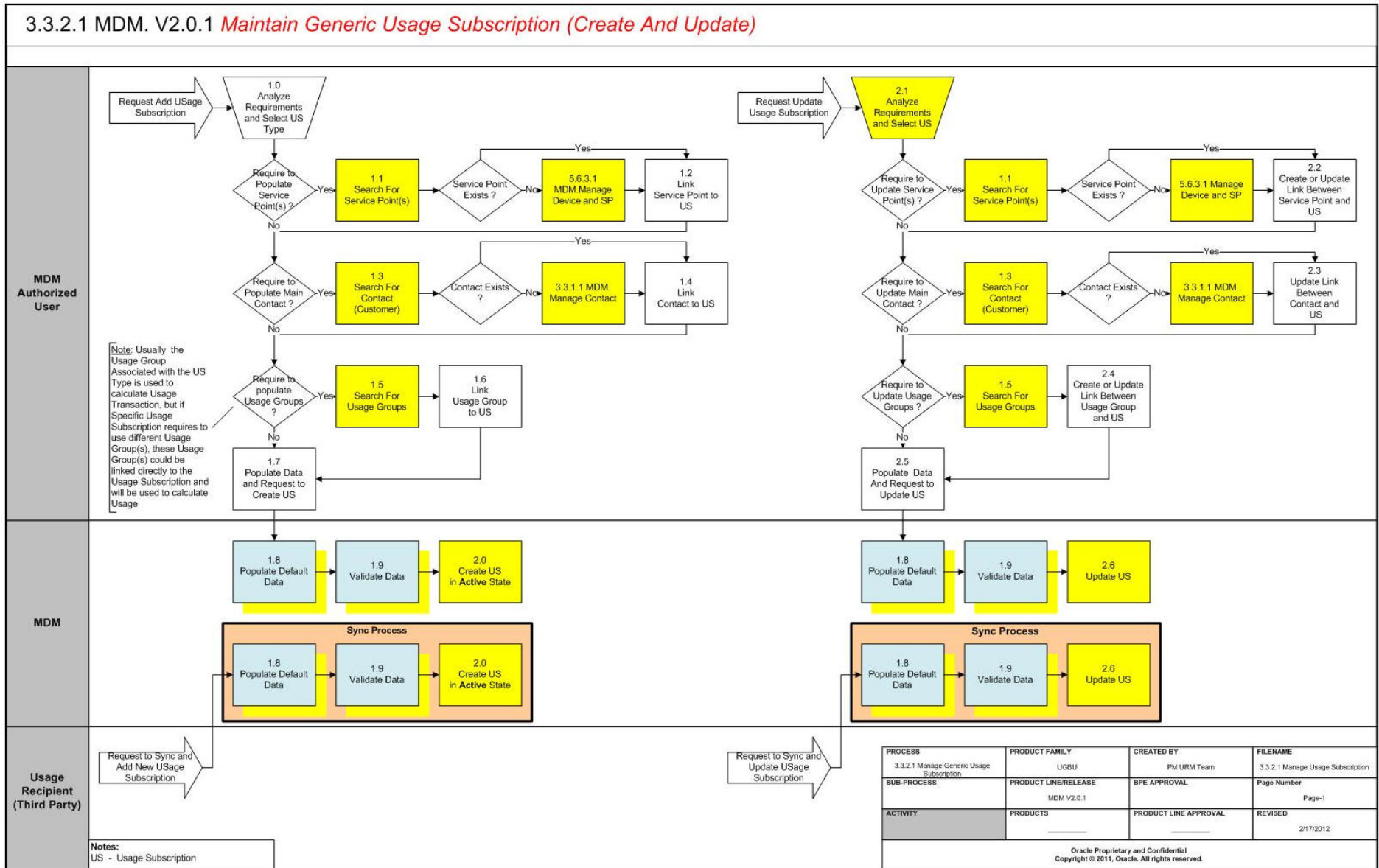
## Detailed Business Process Model Description

This chapter provides a detailed description of the Maintain Generic Usage Subscription business process. This includes:

- **Business Process Diagrams**
  - **Maintain Generic Usage Subscription Page 1**
  - **Maintain Generic Usage Subscription Page 2**
- **Maintain Generic Usage Subscription Description**
- **Business Objects Lifecycle**
  - **Usage Subscription Lifecycle**
- **Related Training**

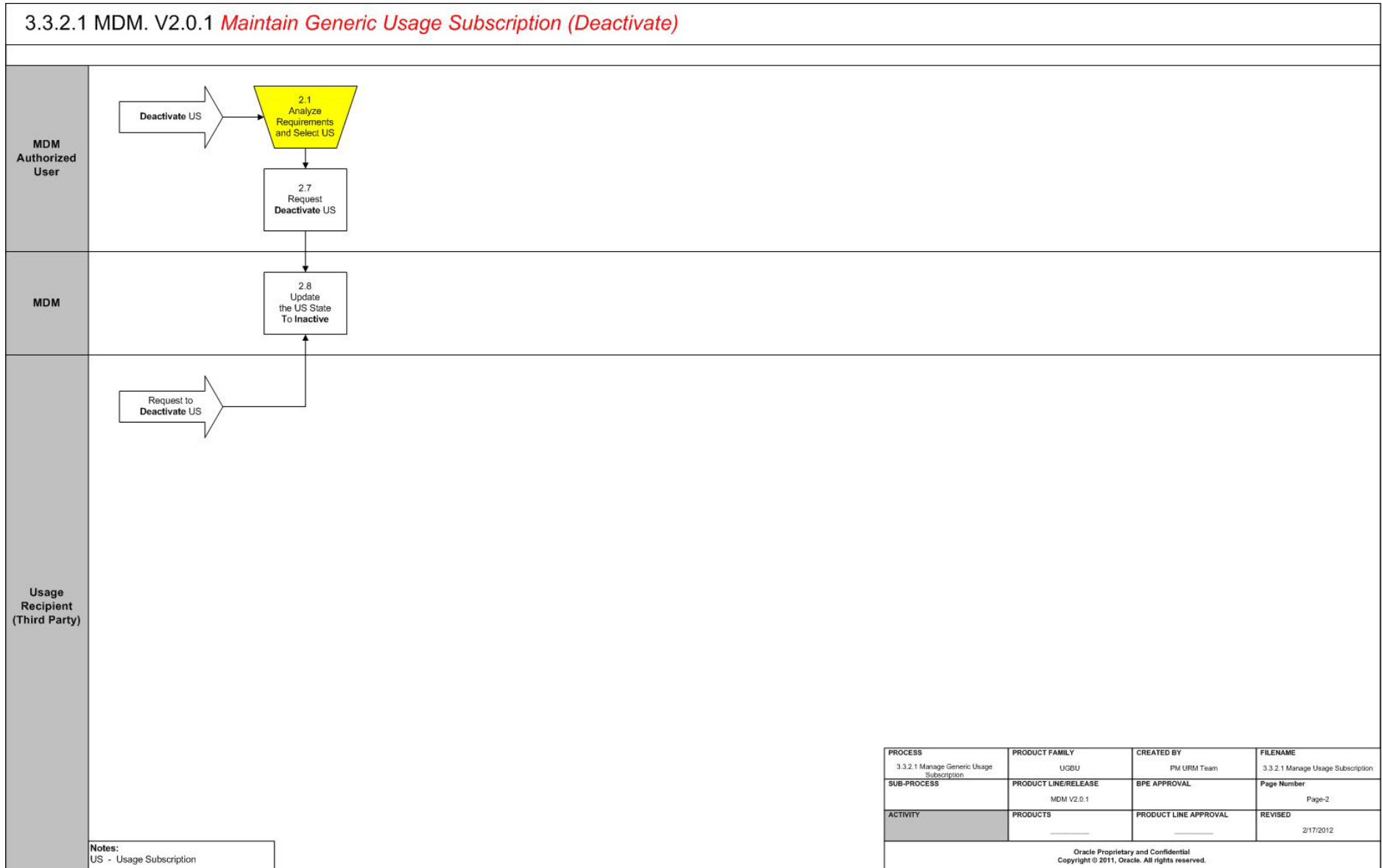
# Business Process Diagrams

## Maintain Generic Usage Subscription Page 1





# Maintain Generic Usage Subscription Page 2



## Maintain Generic Usage Subscription Description

This section includes detailed descriptions of the steps involved in the Maintain Generic Usage Subscription business process, including:

- 1.0 Analyze Requirements and Select US Type
- 1.1 Search For Service Point(s)
- 1.2 Link Service Point to US
- 1.3 Search For Contact (Customer)
- 1.4 Link Contact to US
- 1.5 Search For Usage Groups
- 1.6 Link Usage Group to US
- 1.7 Populate Data and Request to Create US
- 1.8 Populate Default Data
- 1.9 Validate Data
- 2.0 Create US in Active Status
- 2.1 Analyze Requirements and Select US
- 2.2 Create or Update Link Between Service Point and US
- 2.3 Update Link Between Contact and US
- 2.4 Create or Update Link Between Usage Group and US
- 2.5 Populate Data And Request to Update US
- 2.6 Update US
- 2.7 Request Deactivate US
- 2.8 Update to US State To Inactive

### 1.0 Analyze Requirements and Select US Type

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User analyzes requirements and decides if a new Usage Subscription is required.

**Note:** In order to create Usage Subscription MDM Authorized User has to identify and select appropriate Usage Subscription Type.

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#### Entities to Configure

Usage Subscription Type

Usage Recipient (Service Provider)

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#### Business Object(s)

D2-UsageSubscriptionType

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## 1.1 Search For Service Point(s)

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User searches the Service Point(s) to link them to the Usage Subscription.

**Note:** See 5.6.3.1 MDM Manage Device and SP process for details how to create and maintain Service Points

## 1.2 Link Service Point to US

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User identifies required Service Point(s) and links them to the Usage Subscription.

**Note:** The list of Service Points is Effective-dated. The measurements (Measurement or Derived values) retrieved from the Service Point(s) are used for the usage calculation.

## 1.3 Search For Contact (Customer)

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** If business requires to populate main contact information for Usage Subscription, MDM Authorized User searches for the contact to link it to Usage Subscription.

## 1.4 Link Contact to US

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User determines the Contact(s) and links identified Contact(s) to the Usage Subscription.

More than one Contact can be linked to Usage Subscription if needed.

**Note:** See 3.3.1.1 MDM.Manage Contacts process for details how to create and maintain Contacts.

## 1.5 Search For Usage Groups

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User searches for Usage Group(s) to link it to the Usage Subscription if the definition of Fallback Usage Groups associated to the Usage Subscription Type is not sufficient and Usage Subscription requires different Usage Group(s) to calculate usage differently.

**Note:** The list of Usage Groups is Effective-dated.

## 1.6 Link Usage Group to US

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User identifies required the Usage Group(s) and links one or more identified Usage Groups to the Usage Subscription.

**Note:** Ability to link different Usage Groups allows business users control usage calculation. If all the Usage Groups manually linked to the Usage Subscription are expired or are not effective at the moment when calculations are performed, Usage calculations will be performed using the default Fallback Usage Group configured in Usage Subscription Type.

## 1.7 Populate Data and Request to Create US

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User populates all the required Usage Subscription information and requests to create Usage Subscription.

**Note:** Typically additional data provided by User is:

- Start Date/Time
- End Date/Time
- Usage Recipient
- Usage Approval
- External ID
- Time Zone
- a list of Factor Overrides (Effective-dated)

## 1.8 Populate Default Data

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM

**Description:** MDM populates required default data. This task could be initiated manually or automatically.

**Manual process:** This task is executed when MDM Authorized User requests to create or update Usage Subscription.

**Automated process:** This task is executed as a part of data synch up process. Synchronization process between Usage Recipient (Third party) application and MDM is a custom process and is not included into base MDM.

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### Customizable Processes

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Synchronization process is a custom process

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Business Objects	Available Algorithms
D2-UsageSubscription	D1-DEFTIMZON - Default Time Zone value based on Installation Option

## 1.9 Validate Data

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM

**Description:** Application validates provided data. This task could be initiated manually or automatically.

Manual process: This task is executed when MDM Authorized User requests to create or update Usage Subscription.

Automated process: This task is executed as a part of data synch up process. Synchronization process between Usage Recipient (Third party) application and MDM is a custom process and is not included into base MDM.

Typically application validates:

- Start and Stop Dates of Usage Subscription's Service Points
- Effective Period of Usage Subscription's Usage Groups
- Start and Stop Dates of US' Factor Overrides
- Time Zone Value

### Customizable Processes

Synchronization process is a custom process

Business Objects	Available Algorithms
D2-UsageSubscription	D2-USSPDTVAL D2-USUGDTVAL D2-USFOVAL D1-VALTIMZON

## 2.0 Create US in Active Status

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM

**Description:** MDM creates the Usage Subscription in Active status.

This task could be initiated manually or automatically.

Manual process: This task is executed when MDM Authorized User requests to create Usage Subscription.

Automated process: This task is executed as a part of data synch up process. Synchronization process between Usage Recipient (Third Party) application and MDM is a custom process and is not included into base MDM.

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#### **Business Object(s)**

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D2-UsageSubscription

D2-USMainContactLITE

D2-USSPLite

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## **2.1 Analyze Requirements and Select US**

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User analyzes requirement to update or delete Usage Subscription and selects appropriate Usage Subscription to take an action.

## **2.2 Create or Update Link Between Service Point and US**

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User updates a link between selected Service Point(s) and Usage Subscription or creates a new link if required.

**Note:** The list of Service Points is Effective-dated.

## **2.3 Update Link Between Contact and US**

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User establishes relationships between the Main Contact and Usage Subscription if it is required.

## **2.4 Create or Update Link Between Usage Group and US**

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User updates link between Usage Subscription and Usage Groups associated to the Usage Subscription.

This list of Usage Groups is Effective-dated.

## **2.5 Populate Data And Request to Update US**

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** The MDM Authorized User populates updates to the Usage Subscription Data requires update

Example of typical data User updates:

- Start Date/Time
- End Date/Time
- Usage Recipient
- Usage Approval
- External ID
- Time Zone (Required)
- a list of Factor Overrides (Effective-dated)

## 2.6 Update US

See **Maintain Generic Usage Subscription Page 1** on page 2-2 for the business process diagram associated with this activity.

**Actor/Role:** MDM

**Description:** MDM updates the Usage Subscription. This task could be initiated manually or automatically

Manual process: This task is executed when MDM Authorized User requests to update Usage Subscription.

Automated process: This task is executed as a part of data synch up process. Synchronization process between Usage Recipient (Third party) application and MDM is a custom process and is not included into base MDM.

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### Customizable Processes

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Synchronization process is a custom process

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### Business Object(s)

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D2-UsageSubscription

D2-USMainContactLITE

D2-USSPLite

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## 2.7 Request Deactivate US

See **Maintain Generic Usage Subscription Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM Authorized User

**Description:** MDM Authorized User requests to deactivate active Usage Subscription.

## 2.8 Update to US State To Inactive

See **Maintain Generic Usage Subscription Page 2** on page 2-3 for the business process diagram associated with this activity.

**Actor/Role:** MDM

**Description:** When a Request is received from a Subscriber Application or a MDM Authorized User, MDM changes the Usage Subscription Status to Inactive.

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**Business Object(s)**

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D2-UsageSubscription

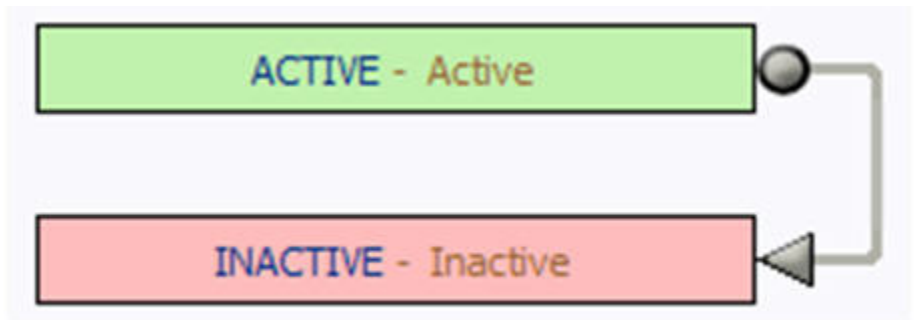
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**Note:** Once the Usage Subscription Status is Inactive, it couldn't be changed and doesn't impact any others processes.



# Business Objects Lifecycle

## Usage Subscription Lifecycle



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## Related Training

The following User Productivity Kit (UPK) modules provide training related to this business process:

- Oracle Utilities UPK for Meter Data Management Administrative Setup
- Oracle Utilities UPK for Meter Data Management User Tasks
- Oracle Utilities UPK for Meter Data Management VEE and Usage Rules
- Oracle Utilities UPK for Meter Data Management Working with Measurement Data