METER DATA MANAGEMENT V 2.2

3.3.2.1 Maintain Generic Usage Subscription

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ORACLE

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Brief Description

Business Process: **3.3.2.1 MDM.v2.2.Maintain Generic Usage Subscription**
Process Type: **Sub-Process**
Parent Process: **3.3.2 MDM.v2.2.Manage Service Agreement**
Sibling Processes: **5.6.3.1 MDM.v2.2.Manage Device and SP, 3.3.1.1 MDM.v2.2.Manage Contact, 4.2.1.3 MDM.v2.2.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.

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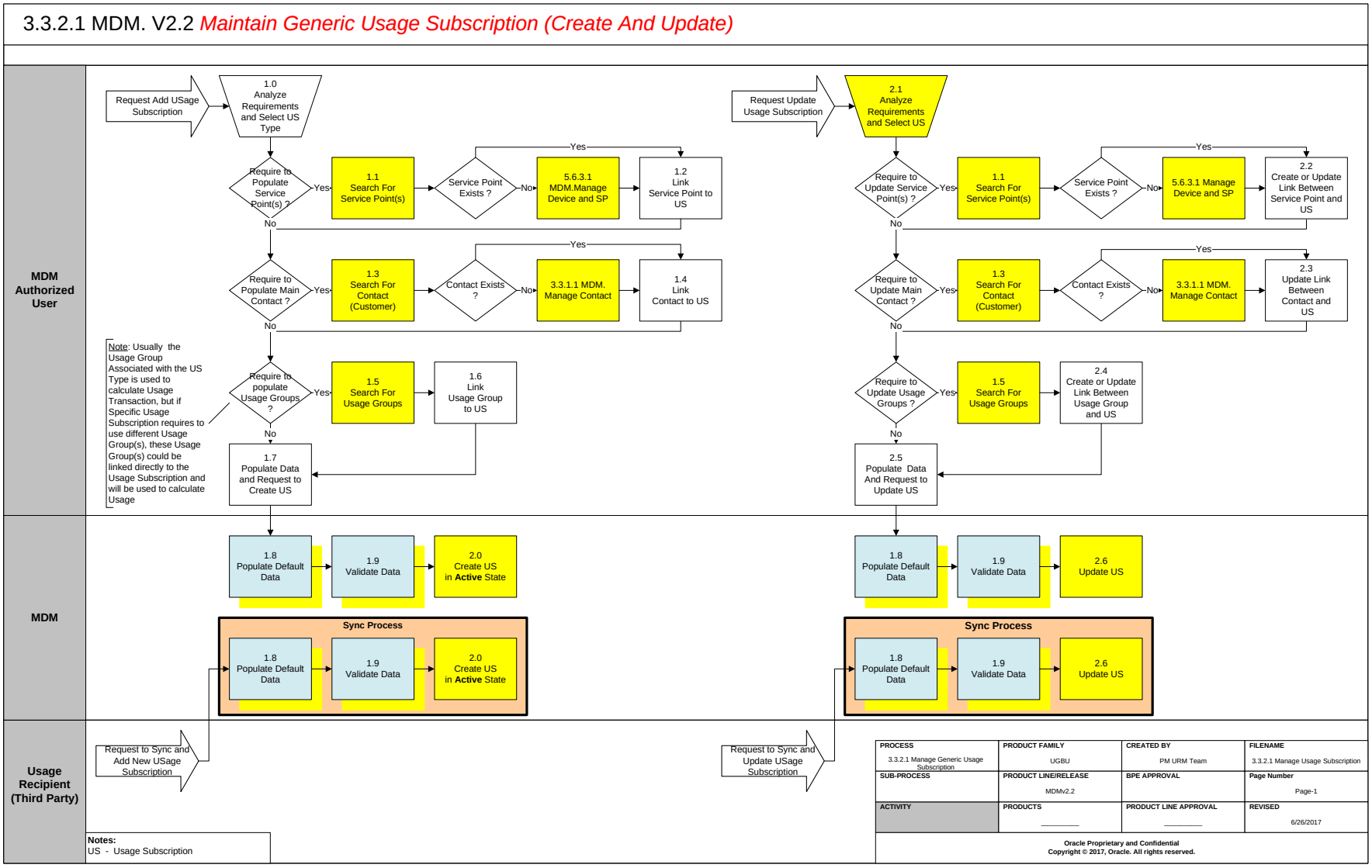
Business Process Model Page #1



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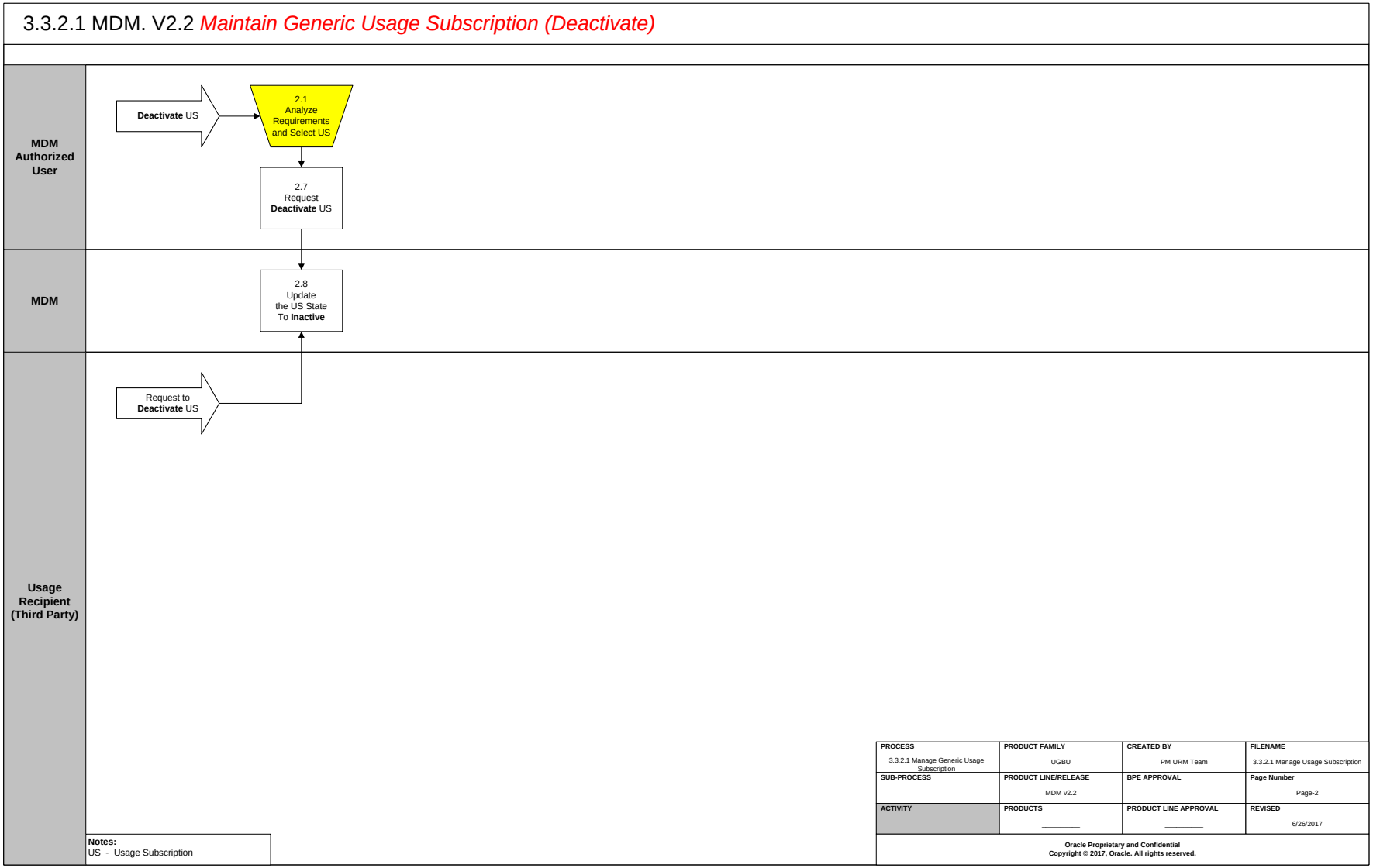
Business Process Model Page #2



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Detail Business Process Model Description

1.0 Analyze Requirements and Select US Type

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

Configuration required (Y/N)	**Entities to Configure:**	Usage Subscription Type
		Usage Recipient (Service Provider)

Business Object (Y/N)	**Business Object**	D2-UsageSubscriptionType

1.1 Search For Service Point(s)

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

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)

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

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

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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

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

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

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

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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Process Plug-in enabled (Y)	**Available Algorithm(s):**	D1-DEFTIMZON - Default Time Zone value based on Installation Option
Business Object (Y/N)	**Business Object**	D2-UsageSubscription
Customizable process (Y)	**Process Name**	*Synchronization process is a custom process*

1.9 Validate Data

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

Process Plug-in enabled (Y)	**Available Algorithm(s):**	D2-USSPDTVAL
		D2-USUGDTVAL
		D2-USFOVAL
		D1-VALTIMZON
Business Object (Y/N)	**Business Object**	D2-UsageSubscription
Customizable process (Y)	**Process Name**	*Synchronization process is a custom process*

2.0 Create US in Active Status

Actor/Role: MDM

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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

Business Object (Y/N)	**Business Object**
	D2-UsageSubscription
	D2-USMainContactLITE
	D2-USSPLite

2.1 Analyze Requirements and Select US

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

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

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

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.

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2.5 Populate Data And Request to Update US

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

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

Business Object (Y/N)	**Business Object**	D2-UsageSubscription
		D2-USMainContactLITE
		D2-USSPLite
Customizable process (Y)	**Process Name**	*Synchronization process is a custom process*

2.7 Request Deactivate US

Actor/Role: MDM Authorized User
Description: MDM Authorized User requests to deactivate active Usage Subscription.

2.8 Update to US State To Inactive

Actor/Role: MDM

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

Business Object (Y/N)	**Business Object**	D2-UsageSubscription

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

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Document Control

Change Record

Date	Author	Version	Change Reference
08/03/2011	Pierre-Alain Urban	1	Initial version
09/14/2011	Galina Polonsky	1	Reviewed
12/06/2011	Galina Polonsky	1	Minor changes applied. Reviewed
07/10/2015	Galina Polonsky	1	Minor changes applied. Reviewed

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Attachments

Usage Subscription Lifecycle

Usage Subscription Lifecycle.doc

Add Usage Subscription – Print Screen 1

Add US - Print Screen 1.doc

Add Usage Subscription – Print Screen 2

Add US - Print Screen 2.doc

Usage Subscription Example

Usage Subscription Example.doc

How to Read and Understand Process Diagram .URM Standards. Notations

URM standards. Notations.Attachmen

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