



C2M.v2.7.CCB~~v2.6~~

### 3.3.8.1 Establish and Maintain Net Energy Metering Service

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## Brief Description

**Business Process:** 3.3.8.1 C2M.CCB.Establish and Maintain Net Energy Metering Service  
**Process Type:** Sub Process  
**Parent Process:** 3.3.8 Manage Net Energy Metering Services  
**Sibling Processes:** 4.2.2.2 C2M.CCB-MDM.Manage Meter Charges, 4.2.2.15 C2M.CCB.Manage Net Energy Metering Charges

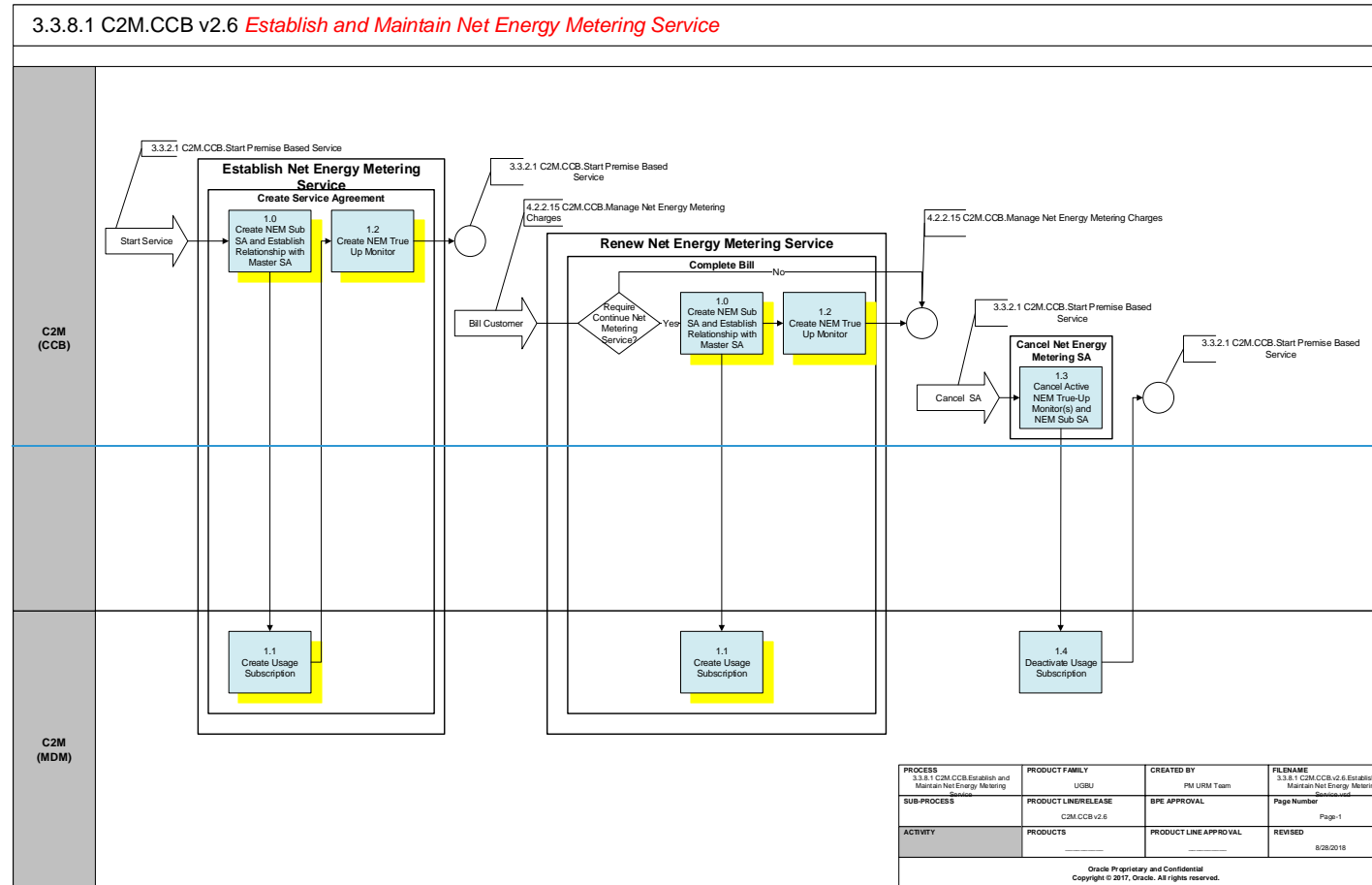
Customers in a distributed generation energy market may have renewable energy devices such as solar panels or wind turbines connected to their meters. The energy generated at this service point, as well as any energy used, could possibly be measured by a single meter, with the energy generated being netted against the energy used. This is called net energy metering (NEM).

This process describes how new sub Service Agreement(s) for Net Energy Metering and True up monitor are established and maintained within C2M(CCB). The Sub SA's bill segments record the charges / credits associated with the net measured usage (i.e., difference between energy consumed from the grid less the energy generated by the customer).

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## Business Process Model Page 1

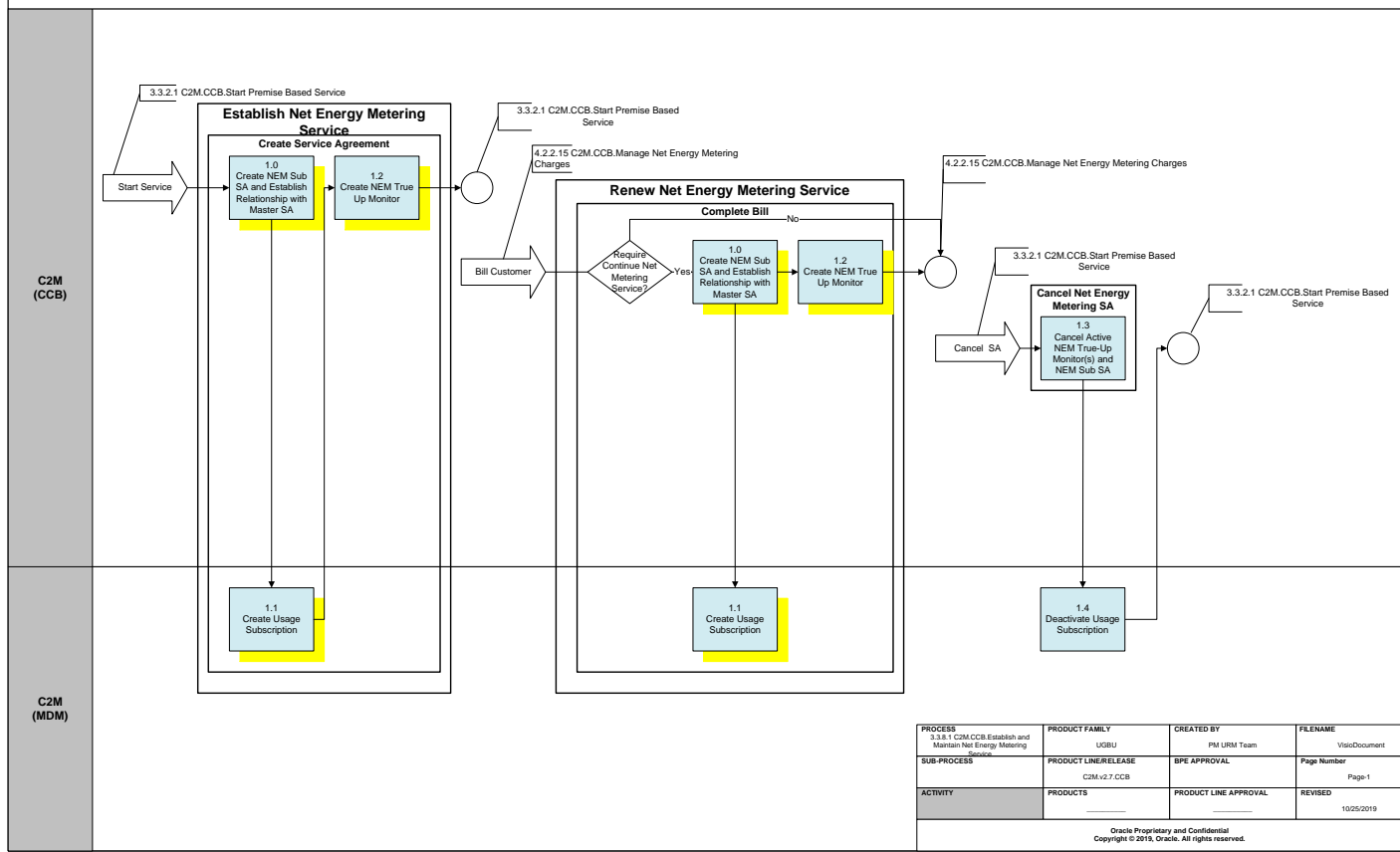
3.3.8.1 C2M.v2.7.CCB-v2.6. Establish and Maintain Net Energy Metering Service



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3.3.8.1 C2M.v2.7.CCB *Establish and Maintain Net Energy Metering Service*



Field Code Changed

3.3.8.1 C2M.v2.7.CCB-v2.6. Establish and Maintain Net Energy Metering Service

## Detail Business Process Model Description

### 1.0 Create NEM Sub SA and Establish Relationship with Master SA Group: Establish Net Energy Metering Service (Create Service Agreement) Group: Renew Net Energy Metering Service (Complete Bill)

**Actor/Role:** C2M(CCB)

**Description:**

The Start Premise Based Service process sets up a Master Service Agreement for the Distributed Generation customer. After the Master SA is setup in the system, C2M(CCB) creates a Net Energy Metering (NEM) Sub SA and links it to the Master SA. See 3.3.2.1 C2M.CCB. Start Premise Based Service for details.

As a part of the Billing process, the Net Energy Metering True Up process takes place. During the true up process C2M(CCB) automatically creates a new NEM Sub SA and NEM SA Relationship for the next true up period. See 4.2.2.2 C2M.CCB-MDM.Manage Metered Charges and 4.2.2.15 C2M.CCB.Manage Net Energy Metering Charges for details.

Process Plug-in enabled Y	Available Algorithm(s):
	Algorithm Type - C1-SAT-SARL - This SA Type - SA Creation algorithm creates an SA Relationship record as well as the Sub SA. This algorithm is plugged in on the Master SA Type.
	Algorithm Type - C1-TUM-SARL - This Business Object Enter Status creates a new NEM Sub SA and SA Relationship For the next true up period.

Business Object Exists	Business Object
	C1-NEMTrueUpTask - This business object defines the behavior of the true up monitor (TUM) used in net energy metering scenarios. Each true up period is covered by an SA relationship and sub-SA, which is associated with a specific TUM. At the end of the true up period, the TUM performs true up processing: bringing the sub-SA balance to zero and transferring any positive balance to the master SA for the customer to pay off. It also sets up the SA relationship, sub-SA and TUM for the next true up period.
	C1-NEMTrueUpTaskType - This business object is used to maintain the various configuration options that are used by the true up monitor (TUM) BO's algorithms. It defines the length of the true up period as well as the adjustments types used during



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the true up process. For true up reversals, the adjustment cancel reason to use is also captured here.

Configuration required Y

Entities to Configure:

SA Type
SA Relationship Type
Service Task Type
Characteristic Type

**1.1 Create Usage Subscription**

Actor/Role: C2M(MDM)

Description:

A Usage Subscription is created in C2M(MDM).

**1.2 Create NEM True Up Monitor**

**Group: Establish Net Energy Metering Service (Create Service Agreement)**

**Group: Renew Net Energy Metering Service (Complete Bill)**

Actor/Role: C2M(CCB)

Description:

After the Net Energy Metering sub SA is created, C2M(CCB) also creates the True Up Monitor for the required true up period.

Note: A characteristic is added on the Sub SA to link the True Up Monitor Service Task Id.

Process Plug-in enabled Y

Available Algorithm(s):

Algorithm Type - C1-SAT-TUM - This SA Type - SA Creation algorithm creates a true up monitor business object. This algorithm is plugged in on the NEM Sub SA Type.

Business Object Exist

Business Object

C1-NEMTrueUpTask
C1-NEMTrueUpTaskType

Configuration required Y

Entities to Configure:

SA Type
SA Relationship Type
Service Task Type
Characteristic Type

**1.3 Cancel Active NEM True Up Monitor and NEM SA**      **Group: Cancel Net Energy Metering SA**

**Actor/Role:** C2M(CCB)

**Description:**

As a part of Start Premise Based Service process, after a Master SA is canceled C2M(CCB) also cancels the NEM Sub SA and associated Active True Up Monitor. See 3.3.2.1 C2M.CCB Start Premise Based Service for details.

<b>Process Plug-in enabled Y</b>	<b>Available Algorithm(s):</b>	Algorithm Type - C1-CNC-TUM - This SA Type - SA Cancel algorithm cancels an active true up monitor when the SA is cancelled. This algorithm is plugged in on the NEM Sub SA Type.
<b>Business Object Exists</b>	<b>Business Object</b>	C1-NEMTrueUpTask C1-NEMTrueUpTaskType
<b>Configuration required Y</b>	<b>Entities to Configure:</b>	SA Type Service Task Type Characteristic Type

**1.4 Deactivate Usage Subscription**

**Actor/Role:** C2M(MDM)

**Description:**

The related Usage Subscription is updated to Inactive status in C2M(MDM).

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## Test Documentation related to the Current Process

ID	Document Name	Test Type

## Document Control

### Change Record

13

Date	Author	Version	Change Reference
05/10/2014	Caroline Prado	V1.0	Initial Draft, updates
06/12/2014	Galina Polonsky		Review and Approve
09/11/2017	Ekta Dua		Updated document and visio to v2.6
09/26/2017	James Foreman		Updated algorithms
11/27/2017	Chetan Raut		Updated file name referred in the Visio and this document.
12/10/2017	Galina Polonsky		Review and Approve
08/28/2018	Galina Polonsky		Update, Review and Approve
05/29/2019	Satva Kalavala		Updated Format for v2.7

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## Attachments