Business Requirements for

for

Notify Metering Point Characteristics

C O N T E N T

A.   About this document

This document is a business requirements specification for the Notify Metering Point Characteristics process within the structuring process of the European energy market.

As a general introduction ebIX® has published a separate document "Introduction to ebIX® Business Requirements and Business Information Models" [3]. The introduction also includes the generic model elements that are not specific for a particular business process.

In line with UN/CEFACT Modelling Methodology version 2 (UMM-2) ebIX® defines the business requirements before starting the actual modelling. The requirements have been specified by the ebIX® work group "Customer Switching (CuS)" and are the basis for the Business Information Model which is published in a separate document.

The Business Information Model is in turn the basis for the creation of XML schema's and is expected to be the basis for the specification of web services in a next version of the model document. Since ebIX® supports both EDIFACT and XML the model will also serve as the basis for the creation of Message Implementation Guides for the mapping to EDIFACT UNSM's. The Business Information Model and the syntax specific structures are specified by the ebIX® "Technical Committee" (ETC).

A.1.   Comments to the ebIX® model

If you have comments or suggestions to the requirements please contact any member of the project group or directly to Ove Nesvik, ove.nesvik@edisys.no.

A.2.   References

A.2.1. Standards

[1] UML Profile for UN/CEFACT's Modelling Methodology (UMM), Base Module 2.0., (http://www.unece.org/cefact/umm/umm_index.html)

[2] The Harmonized Role Model (for the Electricity Market) by ebIX®, ENTSO-E, and EFET (www.ebix.org)

A.2.2. ebIX® Documents

[3] Introduction to ebIX® Business Requirements and Business Information Models (www.ebix.org)

[4] Recommended Identification Schemes for the European Energy Market (www.ebix.org)

[5] ebIX® code lists (www.ebix.org)

A.3.   Participants in the project

These Business Requirements as part of the ebIX® Model for the European Energy Market *(see [3])* are made in a project with the members of CuS. For a list of members of CuS see www.ebix.org .

A.4.   Main changes since last version

Old	New	Clarification	Date
	Draft Version 3.2A		
	Addition of data element definitions	Update of references and textual corrections	20120620
	Data element definitions and introduction	Updated after CuS meeting August 2012	20121012
	Data element definitions and introduction	Updated after CuS meeting December 2012	20121204
	General corrections, e.g. text alignment between CuS BRVs	Updated after CuS meeting December 2012	20130121
	General corrections, e.g. text alignment between CuS BRVs	Updated after CuS meeting February 2013	20130604
	General corrections, e.g. text alignment between CuS BRVs	• Added a reference to "ebIX® Code lists • Added page shift for level one and two. • Removed actors from the top level UseCase • Renamed Grid User to Grid Customer • Renamed Initiating Role and Requesting Role to Initiator • Renamed Linked Role to Linked Party • Added stereotypes to enumerations • Add separate chapters for UseCases described in external BRV's • Document names in Upper Camel Case • Rephrased endsWhen and beginsWhen in UseCase Descriptions • Updated links to UN/CEFACT documents • Rephrased post condition text in the top level UseCases • Responding document states are made explicit • State machines are update	20130921

		• In the "Business processes" (Activity diagrams), the end ("Success") is moved to the recipients swimlane • Customer, Grid Customer and Supply Customer are used consistent • Reference links are shown in brackets • «**Business entity**» is added where missing New classes are added for generic entities, such as MP and Meter	
	General corrections, e.g. spelling errors		20140223
Version 3.1.B			
	Review and update, including removal of Tax Category	Updated after CuS meeting March 2012	20120520
Version 3.1A			
		First approved version 3.1	20110818

1. Business Requirements View: Notify Metering Point Characteristics

1.1. Notify Metering Point Characteristics (Business Process UseCase)
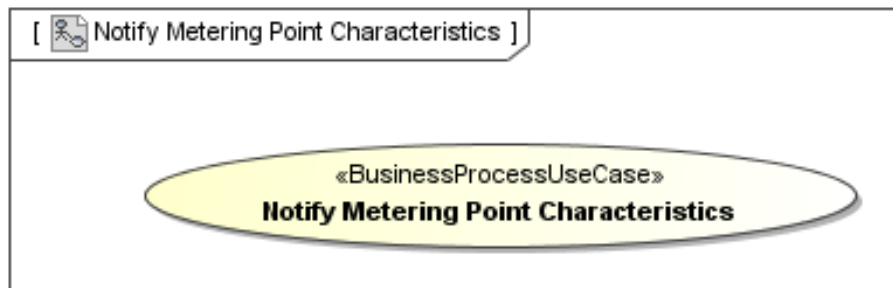

Figure 1 Notify Metering Point Characteristics

Comments to the diagram:

- The number of *Linked parties* may vary between countries.
- A party is linked to the *Metering Point* at a given time, i.e. the old supplier should not receive *Metering Point Characteristics* after a change.
- The *Metered data collector* is linked to the Metering Point for practical purposes. It may need the *Metering Point characteristics*, but is according to the Harmonised role model [2], linked to the *Register*.
- The *Reconciliation responsible* and the *Metered Data Aggregator* are implicitly linked to the *Metering Point* and normally not present in the *Metering Point register* as an attribute.

1.1.1. Description

UseCase description: Notify Metering Point Characteristics	
definition	In this process the *Metering Point Administrator* distributes Metering Point Characteristics to Linked parties: • Balance Responsible Party • Balance Supplier • Grid Access Provider • Metered Data Aggregator • Metered Data Responsible • Reconciliation Responsible • Transport Capacity Responsible Party after update of one or more of these characteristics
beginsWhen	When there have been changes to the Metering Point Characteristics
preCondition	• One or more parties linked to a Metering Point and registered in the *Metering Point register* are entitled to receive Metering Point Characteristics

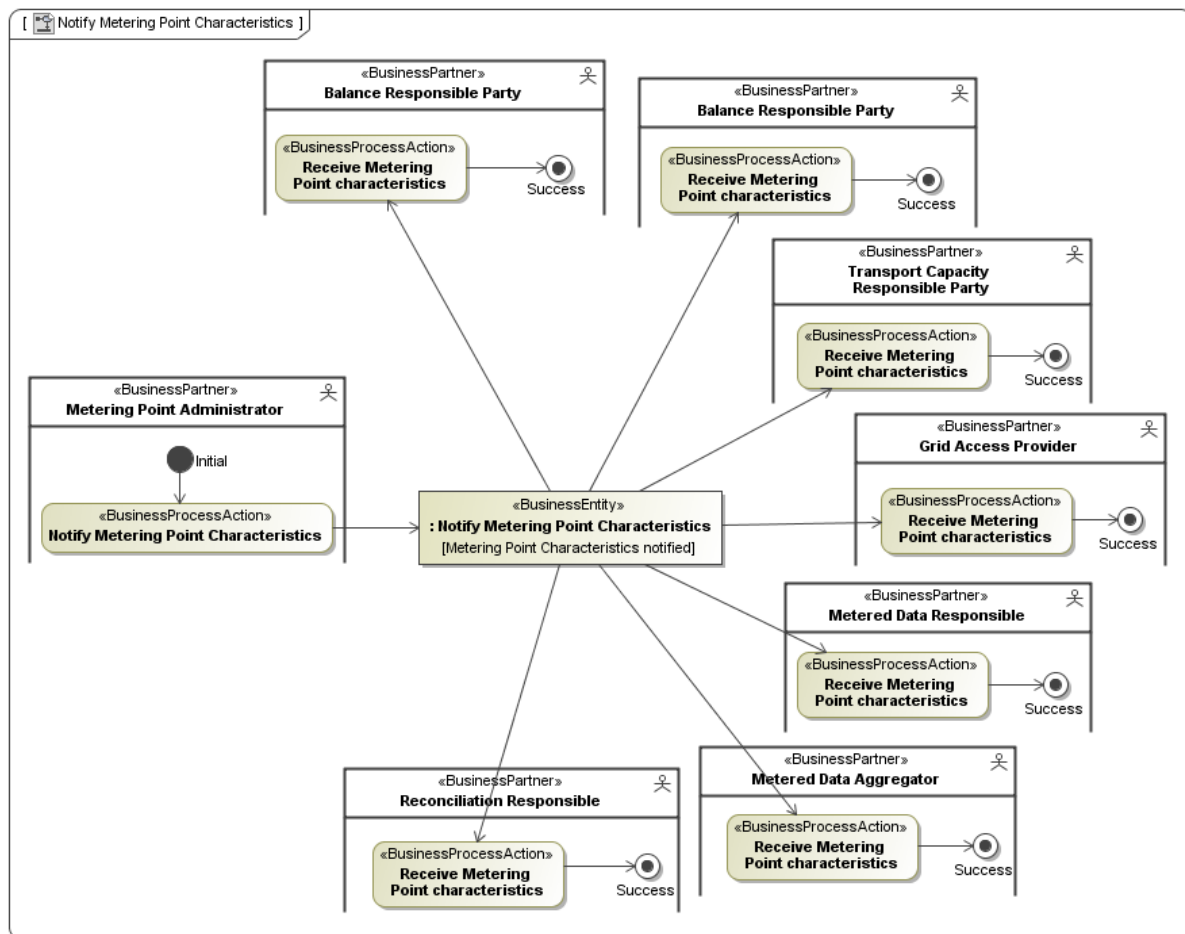|	
	• One or more Metering Point Characteristics have been changed
endsWhen	When the Linked parties have received the notification
postCondition	The Metering Point Characteristics have been notified by the Metering point Administrator to the Linked parties
exceptions	None
actions	See 1.1.2

1.1.2. Business Process

Figure 2 Business Process Notify Metering Point Characteristics

1.2. Business Partner View

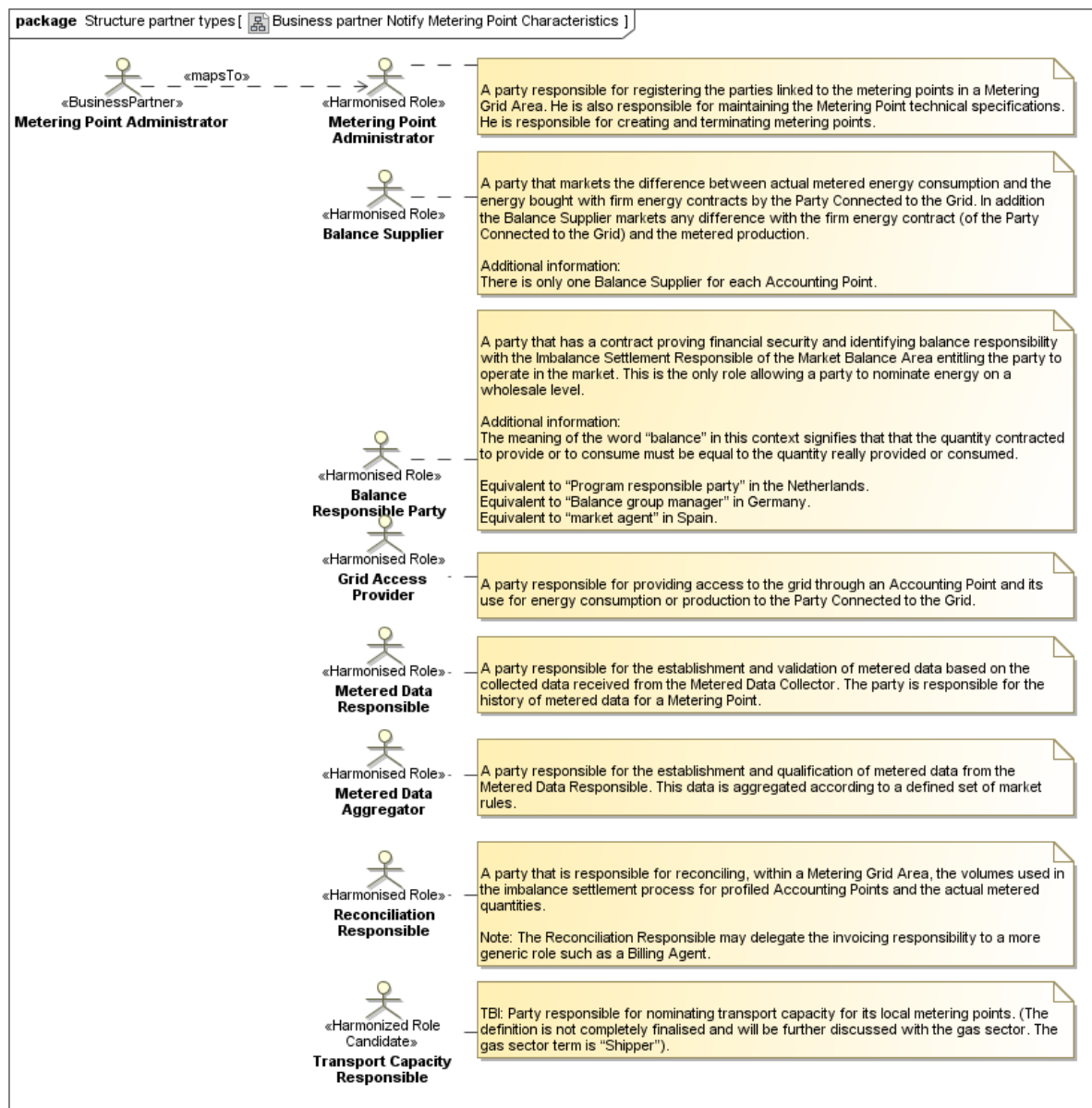## 1.2.1. Business Partners Notify Metering Point Characteristics

Figure 3 Business Partners Notify Metering Point Characteristics

1.3. Business Entity View

1.3.1. Short introduction

In these business requirements the ebIX® work group CuS has for the first time used the principle of specifying the core data set as business requirements. This core data set is defined as the set of information that is required when using synchronous web services as the exchange mechanism.

The information required for asynchronous web services is added as an option.

Finally, optional information needed to meet national requirements is specified.

For exchange of the core data set additional information elements must be added to conform to technical exchange standards. But this is not regarded as a business requirement when defining the core data set, but as a requirement for technical implementation or mapping to syntax. Header and context information are added in the ebIX® Business Information Model.

It is important to note that it is assumed for defining the core data set, that Metering Points are uniquely dedicated to either electricity or to gas. As a consequence the specification of the business sector is not part of core data set anymore.

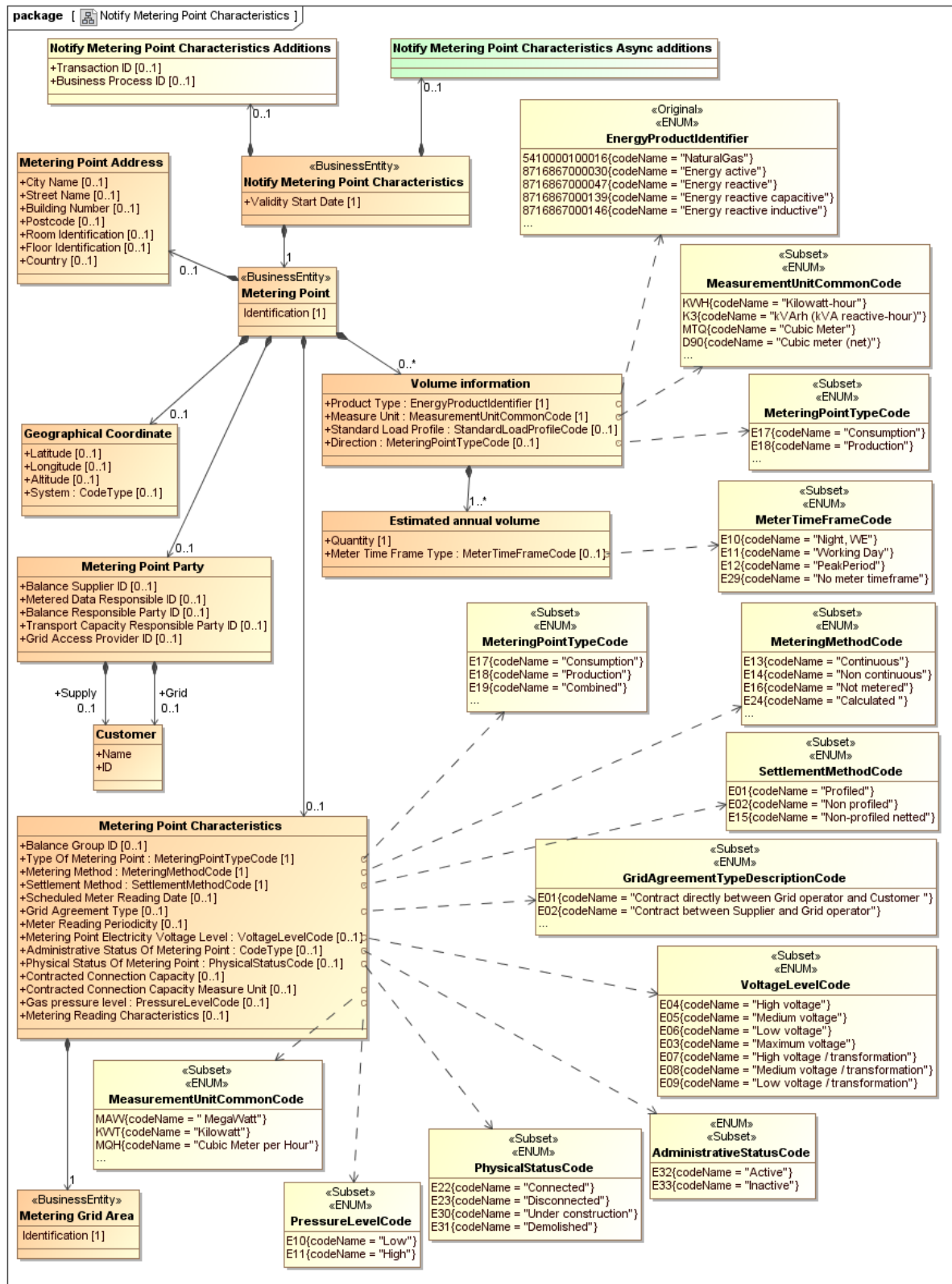## 1.3.2. Notify Metering Point Characteristics (Class Diagram)

Figure 4 Notify Metering Point Characteristics

Comments to the diagram:

- The diagram above covers all shared needs from the ebIX® member countries.
- Most cardinalities are made optional (e.g. [0..1]) . Incomplete sets may be exchanged based on national rules.

Element definitions, Notify Metering Point Characteristics	
«Business entity» Notify Metering Point Characteristics	The information set sent by the Metering Point Administrator to the linked parties of a Metering Point, I.e.: • Balance Responsible Party • Balance Supplier • Grid Access Provider • Metered Data Aggregator • Metered Data Responsible • Reconciliation Responsible • Transport Capacity Responsible Party when notifying Metering Point Characteristics.
Validity start date	The date when the content of this business document becomes or became valid.
«Business entity» Metering Grid Area	A Metering Grid Area is a physical area where consumption, production and exchange can be metered. It is delimited by the placement of meters for period measurement for input to, and withdrawal from the area. It can be used to establish the sum of consumption and production with no period measurement and network losses.
Identification	The unique identification of the Metering Grid Area the Notify Metering Point Characteristics is intended for.
«Business entity» Metering Point	An entity where energy products are measured or computed.
Identification	The unique identification of the Metering Point the Notify Metering Point Characteristics is intended for.
Metering Point Address	The address of the Metering Point.
City Name	The name, expressed as text, of the city, town or village of this address.
Street Name	The name, expressed as text, of this street or thoroughfare of this address.
Building Number	The number, expressed as text, of the building or house on this street at this address.[1]
Postcode	The code specifying the postcode of this address.

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[1] The Building Number may include a "Building Number Extension", such as one or more character making the address unique.

Room Identification	The identification, expressed as text, of the room, suite, office or apartment as part of this address.
Floor Identification	The identification by name or number, expressed as text, of the floor in the building as part of this address.
Country	The unique identifier of the country for this address (Reference ISO 3166 and UN/ECE Rec 3).
Geographical Coordinate	The set of geographical coordinates of this Metering Point.
Latitude	The measure of the latitude as an angular distance north or south from the Equator meridian to the meridian of this Metering Point for this geographical coordinate. (Reference ISO 6709).
Longitude	The measure of the longitude as an angular distance east or west from the Greenwich meridian to the meridian of this Metering Point (Reference ISO 6709).
Altitude	The measure of the altitude that reflects the vertical elevation of this Metering Point above a surface for this geographical coordinate (Reference ISO 6709).
System	The unique identifier of the reference system used for measuring this geographical coordinate.
Metering Point Party	The party that has, within the context of this process, a relevant responsibility for this Metering Point.
Balance Supplier ID	The unique identification of the Balance Supplier responsible for this Metering Point.
Metered Data Responsible ID	The unique identification of the Metered Data Responsible, responsible for this Metering Point.
Balance Responsible Party ID	The unique identification of the Balance Responsible Party responsible for this Metering Point.
Transport Capacity Responsible Party ID	The unique identification of the Transport Capacity Responsible Party responsible for this Metering Point.
Grid Access Provider ID	The unique identification of the Grid Access Provider responsible for this Metering Point.
Supply Customer	The Customer that has the contract for supply of energy for this Metering Point
Name	The name of this Supply Customer
ID	The unique identification of this Supply Customer
Grid Customer	The Customer that has the contract for access and transport of energy for this Metering Point.
Name	The name of the Grid Customer
ID	The unique identification of the Grid Customer
Metering Point characteristics	The relevant characteristics of this Metering Point.
Metering Grid Area ID	The unique identification of the Metering Grid Area to which this Metering Point belongs.

Balance Group ID	The unique identification of the Balance Group to which this Metering Point belongs.
Type Of Metering Point	A code specifying the direction of the active energy flow in this Metering Point, such as consumption, production or combined.
Metering Method	A code specifying how the energy volumes are established for this Metering Point, such as continuous- non-continuous- or not-metered.
Settlement Method	A code specifying how the energy volumes are treated for settlement for this Metering Point, such as profiled or non-profiled.[2]
Scheduled Meter Reading Date	The indication of when the regular meter reading is scheduled.
Grid Agreement Type	Specification of type of grid contract, such as if the contract is directly between the Grid Access Provider and the Customer, or through the Balance Supplier.
Meter Reading Periodicity	The length of time between the meter readings.
Metering Point Electricity Voltage Level	A code specifying the voltage level of the grid where the installation of the Metering Point is connected.
Administrative Status Of Metering Point	A code specifying the whether or not the energy volume at this Metering Point is allocated to the Balance Responsible Party or not, such as active or inactive.
Physical Status Of Metering Point	A code specifying if the installation of the Metering Point is physically connected to the grid.
Contracted Connection Capacity	Quantitative information about the capacity of the connection that is contracted at the Metering Point.
Contracted Connection Capacity Measure Unit	The unit of measure used for the Contracted Connection Capacity.
Gas pressure level	A code specifying the gas pressure in the grid where the installation of the Metering Point is connected.
Meter Reading Characteristics	A code specifying how a Metered Data Collector collects data from the Meter for this Metering Point, such as Automatic or Manually.[3]
Volume information	Characteristics of the energy volume for this Metering Point.

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[2] A profiled Metering Point is always a part of the reconciliation process as opposed to non-profiled.

[3] The Meter Reading Characteristics is expected to be moved to the Master Data for Meter when available.

Product Type	A code specifying the energy product for the estimated annual volume.
Measure Unit	The unit of measure used for the Estimated Annual Volume.
Standard Load Profile	The standard load profile for this Metering Point.
Direction	A code specifying the direction of the energy in the estimated annual volume for this Metering Point, such as consumption or production.
Estimated annual volume	The energy volume used for profiled nomination and allocation for this Metering Point.
Quantity	The estimated annual volume for the specified time frame.
Meter Time Frame Type	A code specifying the tariff time frame for this estimated annual volume.
Response Metering Point Characteristics Additions	Information related to the Notify Metering Point characteristics, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the Initiator.
Business process ID	The unique identification, given by the Metering Point Administrator, of this Notify Metering Point Characteristics process that this notification is a part of.
Notify Metering Point Characteristics Async Additions	Information related to Notify Metering Point Characteristics, needed when using an asynchronous communication, however not used in this notification.

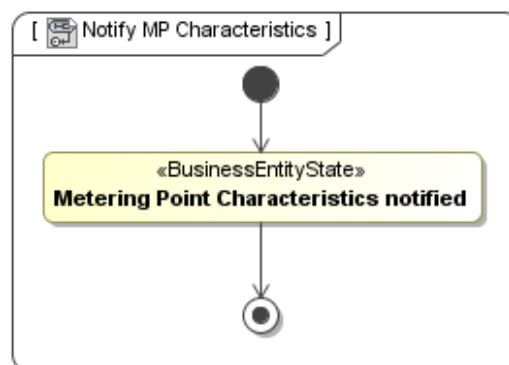### 1.3.2.1. Notify Metering Point Characteristics (State Diagram)

Figure 5 Notify Metering Point Characteristics