



Business Requirements for

Measure for

Determine and

exchange

validated meter read

Status: Approved by ebIX® Forum

Version: 3.0

Revision: B

Date: August 2022

CONTENT

- A. About this document..... 3
 - A.1. Comments to the ebIX® model 3
 - A.2. References..... 3
 - A.2.1. Standards..... 3
 - A.2.2. ebIX® Documents 3
 - A.3. Main changes since last version 4
- 1 Business Requirements View: Measure for determine and exchange validated meter read 5
 - 1.1 Overview..... 5
- 2 Business Domain View: Determine and exchange validated meter read (Business Process UseCase)..... 8
 - 2.1 Description 8
 - 2.2 Initiate meter read (Business Process UseCase) 10
 - 2.2.1 Description 10
 - 2.2.2 Business Process..... 11
 - 2.3 Request collected data (Business Process UseCase)..... 12
 - 2.4 Validate collected data (Business Process UseCase)..... 12
 - 2.5 Exchange validated measured data (Business Process UseCase) 12
- 3 Business Partner View 13
 - 3.1 Business Partners for determine and exchange validated meter read..... 13
- 4 Business Entity View..... 14

A. About this document

This document contains ebIX® Business Requirements for the processes regarding the measured data for determining and exchanging a validated meter read for a switch (such as change of supplier or Balance Responsible Party, or Customer move etc.) or other changes that require a validated meter read, both for electricity and for gas.

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 as the first step in modelling energy market processes. This document specifies an UMM Business Requirements View, which consist of the three sub views: Business Domain View, Business Partner View and Business Entity View.

The Business Information Model is in turn the basis for the creation of XML schema’s and is the basis for the specification of web services. The Business Information Model and the syntax specific structures are specified by the “ebIX® Technical Committee” (ETC).

Since the ebIX® model is open for national customisation, some attributes are added as optional for usage for regional/national customisation. If used, these attributes must be specified nationally.

A.1. Comments to the ebIX® model

If you have comments or suggestions to the requirements, please contact ebIX® secretary at secretary@ebix.org.

A.2. References

A.2.1. Standards

- [1] UML Profile for UN/CEFACT’s Modelling Methodology (UMM), Base Module, 2.0.
([UN/CEFACT Modelling Methodology \(UMM\)](#))
- [2] The Harmonized Role Model (for the Electricity Market) by ebIX®, ENTSO-E, and EFET
(https://www.ebix.org/artikel/role_model)

A.2.2. ebIX® Documents

- [3] Introduction to ebIX® Business Requirements and Business Information Models
(<https://www.ebix.org/artikel/documents>)
- [4] Recommended Identification Schemes for the European Energy Market
(<https://www.ebix.org/artikel/documents>)

- [5] ebIX® code lists (<https://www.ebi.x.org/artikel/documents>)
- [6] “ebIX® BRS for Validated measured data” and other measure BRSs (<https://www.ebix.org/artikel/documents>)
- [7] “ebIX® BRS for change of Supplier” and other BRSs for the structuring phase (<https://www.ebix.org/artikel/documents>)

A.3. Main changes since last version

Old	New	Clarification	Date
Version 3.0			
2.0.-	3.0.A	This is a recast of the previous version; hence changes are not tracked.	20220310
3.0.A	3.0.B	Removal of “tracked changes”.	20220310

1 Business Requirements View: Measure for determine and exchange validated meter read

The process “Determine and exchange validated meter read” is developed to be used as part of ebIX® structuring processes, such as change of supplier and customer move, i.e. when an (independently) established validated meter read for the change date is needed.

1.1 Overview

This overview presents in broad lines the surroundings of the process for determine and exchange of a validated meter read. It all starts with a trigger from a relevant change of master data, for example as an effect after a customer finds a new Energy Supplier or notifies that he has moved, or the Grid Company has changed the metering or settlement method. In some cases the customer may also present a recent meter reading to his contact (the Energy Supplier). In these cases the Energy Supplier will from thereon start the necessary procedures like requesting the Metering Point Administrator to change master data for an Accounting Point. In any case of changing Accounting Point characteristics, the Metering Point Administrator will notify the Metered Data Responsible of the changed characteristics, when relevant triggering the Metered Data Responsible that there is a need for a validated meter read at the change date. In case the Metered Data Responsible has no recent validated meter read available (either from the customer or from some other source) he can ask the Metered Data Collector to collect the data.

It is assumed that the availability of a validated meter read at the Metered Data Responsible will trigger the next relevant measure process(es), such as Measure for Reconciliation or Measure for Billing.

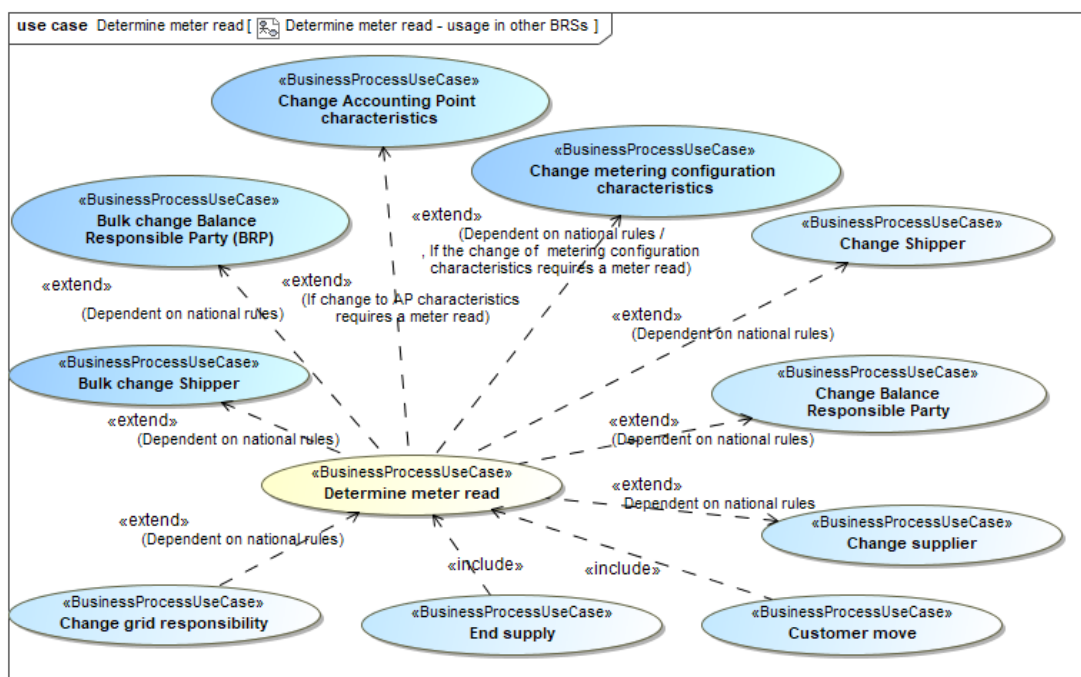


Figure 1 Sequence diagram: Determine meter read - usage in other BRSS

The change processes are in more detail specified in the relevant ebIX® documents for the structuring phase, see [7] and picture above.

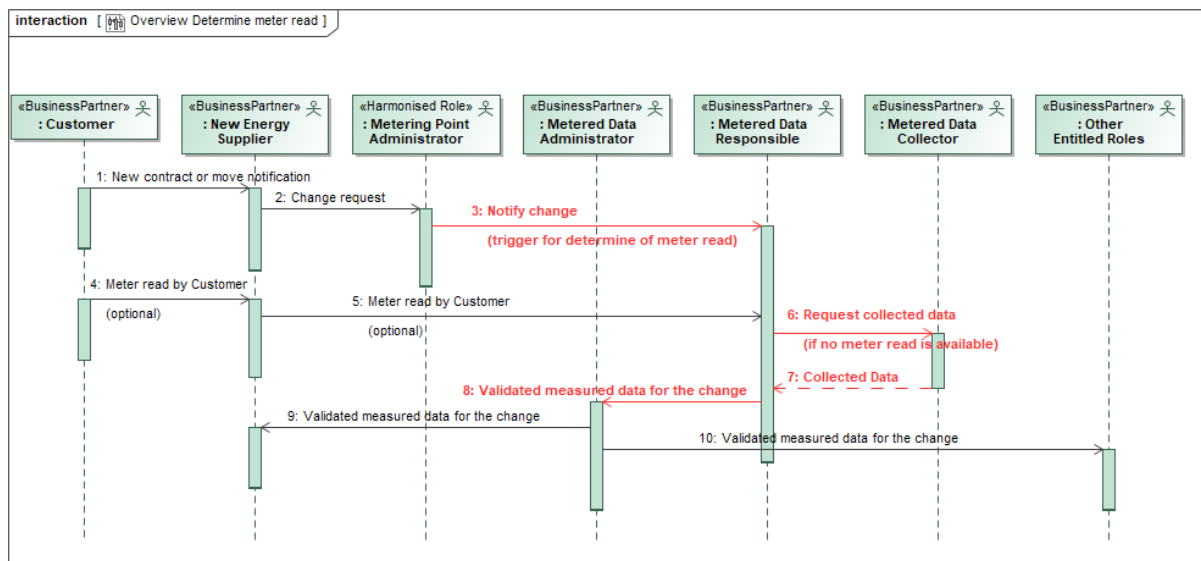


Figure 2 Sequence diagram: Indicative overview of determine and exchange validated meter read

Only the red arrows are further described in this BRS.

A short description of the arrows in Figure 2:

1. The Customer agrees a new supply contract or informs that he is moving out of the Accounting Point.
2. The Energy Supplier sends a request for the change to the Metering Point Administrator.
3. As a part of the change process, the Metering Point Administrator notifies the Metered Data Responsible about the change by sending the document “Notify AP characteristics”.

Note: This description is far from complete when it comes to change processes in the energy sector, for instance the request for a change may come from another role than the Energy Supplier. These change processes are described in detail in the relevant ebIX® documents for the structuring phase, see [7]. The validated meter read at the change date (or close to this date) is sent to the Energy Supplier for billing purposes.

4. Dependent on the change process and national rules, the Customer may have to read his meter and forward the validated meter read to the Energy Supplier. This process will normally be implemented as a web service, hence not further elaborated in this BRS.
5. If process and national rules require the Customer to send a validated meter read to the Energy Supplier, the Energy Supplier must forward the validated meter read to the Metered Data Responsible.

6. If the Metered Data Responsible doesn't have a validated meter read on, or dependent on national rules; "close enough" to, the change date, he must request a new meter read from the Metered Data Collector.
7. The Metered Data Collector responds to the Metered Data Responsible with a new collected meter read and the Metered Data Responsible validates the received meter read.
8. The validated meter read, and if applicable an associated consumption, is forwarded from the Metered Data Responsible to the Metered Data Administrator who stores it.
9. The validated meter read at the change date is sent to the new Energy Supplier for billing purposes.
10. Dependent on process and national rules, the validated meter read for the change, and if applicable an associated consumption, will be sent to Other Entitled Roles (like old Energy Supplier and Grid Company).

2 Business Domain View: Determine and exchange validated meter read (Business Process UseCase)

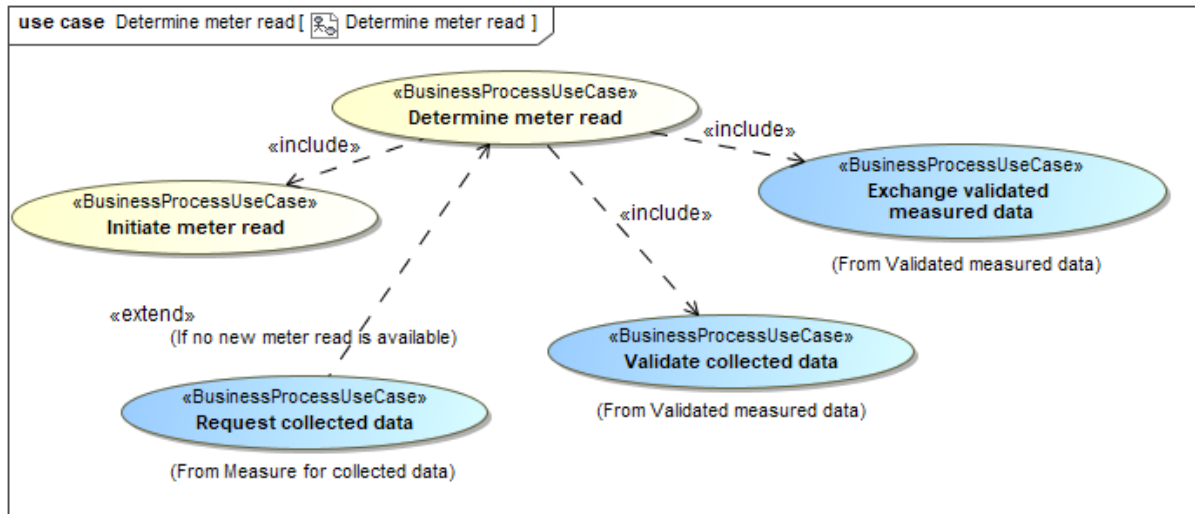


Figure 3 Business Process UseCase: Determine and exchange validated meter read

2.1 Description

UseCase description: Determine and exchange validated meter read	
definition	<p>This is the process where the Metered Data Responsible, triggered by a notification of a change in the Accounting Point characteristics (such as change of supplier or customer move) from the Metering Point Administrator, will determine a validated meter read, and if applicable the associated volume, for an Accounting Point at change date and distribute the validated meter read and the volume via the Metered Data Administrator.</p> <p>In this process the Metered Data Responsible may request the Metered Data Collector to collect a meter read on the change date.</p>
beginsWhen	When the Metered Data Responsible receives a notification of a change of Metering Point characteristics.
preCondition	A change in the Accounting Point characteristics has occurred.
endsWhen	The validated meter read for the change, and if applicable the associated volume, has been made available for the Metered Data Administrator.
postCondition	The Metered Data Administrator has received validated measured data for the change and is ready to distribute it to the parties that are entitled for the validated meter read for the change in Accounting Point characteristics.
Exceptions	None

actions	Not applicable at this level.
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2.2 Initiate meter read (Business Process UseCase)

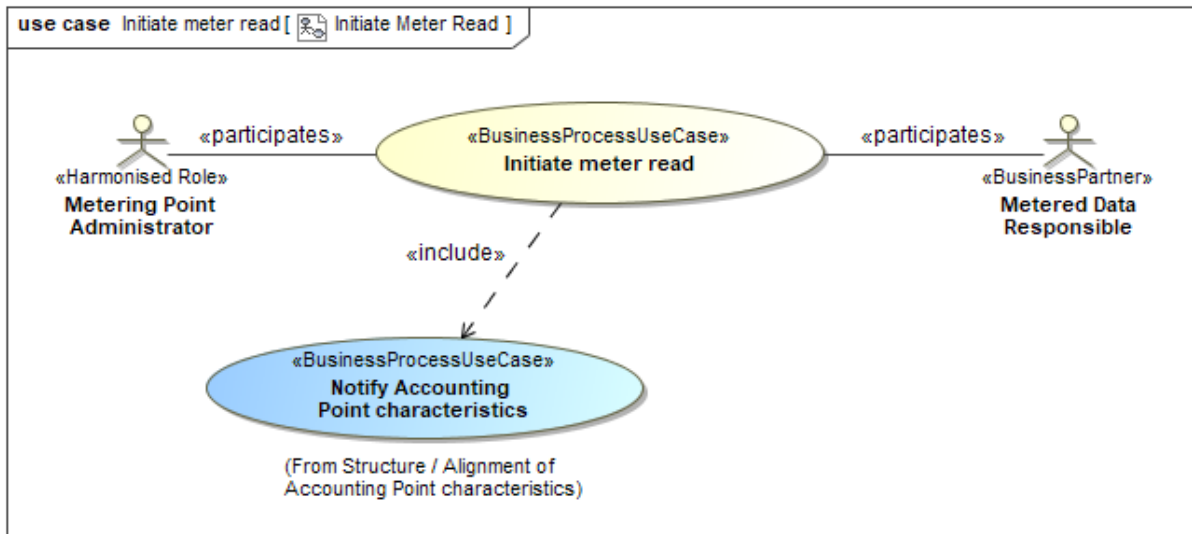


Figure 4 Business Process UseCase: Initiate meter read

2.2.1 Description

UseCase description: Initiate meter read	
definition	In this process the Metered Data Responsible is triggered to determine a validated meter read by the notification from the Metering Point Administrator of a change in an Accounting Point, such as change of supplier or customer move.
beginsWhen	The Metered Data Responsible receives a notification of change in Accounting Point characteristics that triggers the need for a validated meter read, typically to be used for billing purposes.
preCondition	A relevant change has occurred in the characteristics an Accounting Point.
endsWhen	The Metered Data Responsible has determined the need for a validated meter read on the change date.
postCondition	The Metered Data Responsible is triggered to start the process of determining a validated meter read for the Accounting Point at the change date.
exceptions	None
actions	See 2.2.2

2.2.2 Business Process

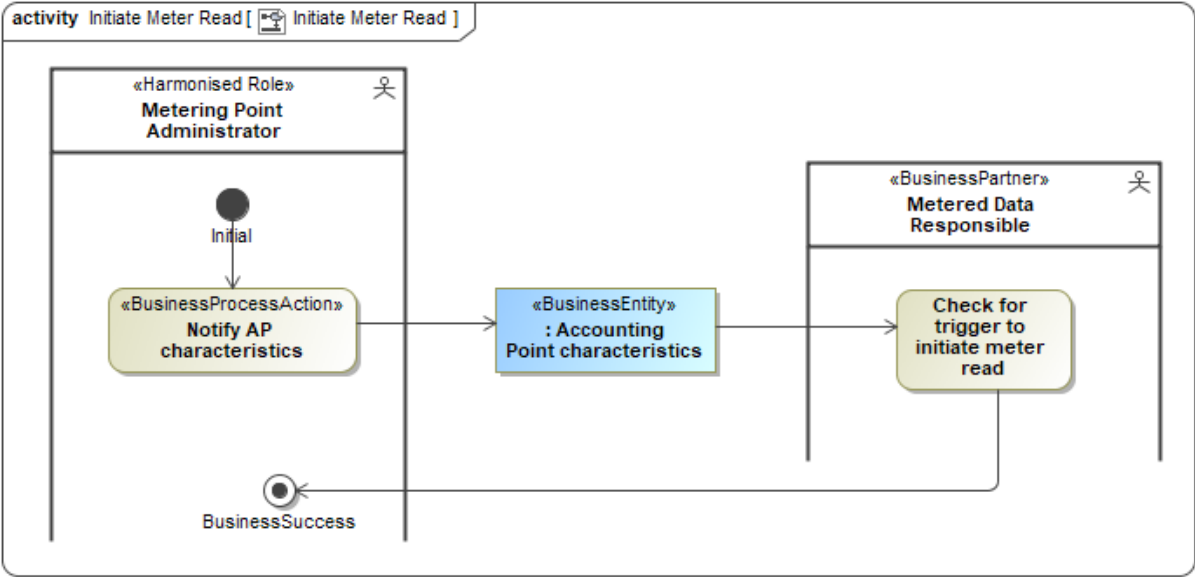


Figure 5 Business process: Initiate meter read¹

¹ The document "Accounting Point characteristics" is document in the ebIX® BRS for Alignment of AP characteristics [7]

2.3 Request collected data (Business Process UseCase)

If the Metered Data Responsible doesn't have a validated meter read on the change date, he must request a new meter read from the Metered Data Collector. The process of requesting collected data is described in the ebIX® BRS for Measure Collected Data [6].

2.4 Validate collected data (Business Process UseCase)

The Metered Data Responsible must validate the received collected meter read from the Metered Data Collector or the Customer. The process of validating a meter read is described in the ebIX® BRS for Validated measured data [6].

2.5 Exchange validated measured data (Business Process UseCase)

After validation of the meter read by the Metered Data Responsible, he forwards the validated meter read to the Metered Data Administrator who stores the validated meter read and is thereby ready to distribute it to Entitled Roles. The process of exchange a validated meter read is described in the ebIX® BRS for Validated measured data [6].

3 Business Partner View

3.1 Business Partners for determine and exchange validated meter read

In the diagram below is shown the definitions of the roles used in this BRS, if applicable, based on roles from the Harmonised Electricity Market Role Model, see [2], however in some cases updated to fit both the electricity and the gas market.

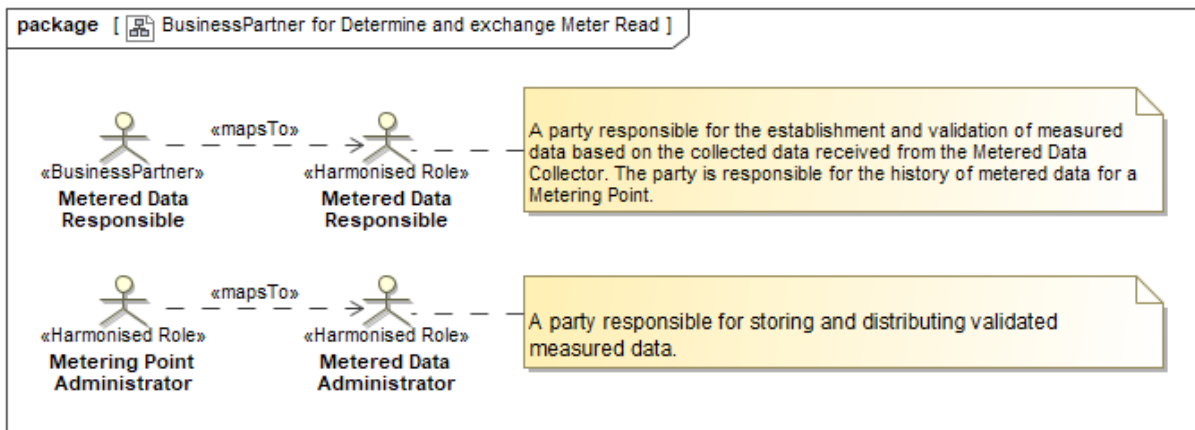


Figure 6 Business Partners View: Determine and exchange validated meter read

4 Business Entity View

Not applicable for this BRS, since all documents described are documented in other BRSs.