



**Business Requirements
for
Rearrange Metering
Points between grids**

Status: Approved by ebIX® Forum
Version: 1.0
Revision: A
Date: April 2018

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A. About this document

This document is a business requirements specification for the process of rearranging Metering Points (MPs) between grids, within the structuring process of the European energy market.

The rearrangement of MPs between grids is a process where a party requests an administrative move of one or more Metering Point(s) from one Metering Grid Area (MGA) to another. It is a prerequisite that the requesting party is authorised to move the Metering Point(s), hence the requesting party should be the Old Grid Access Provider. An example of usage is clean-up of grid structure, such as if a DSO has islands with only a few Metering Points in a different part of a country, then the DSO can transfer these MPs to another DSO.

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 business process.

In line with UN/CEFACT Modelling Methodology version 2 (UMM-2) ebIX® defines the business requirements before starting the actual modelling. These requirements have been specified by the ebIX® work group MDS (Master Data Structuring) 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. The Business Information Model and the syntax specific structures are specified by the ebIX® “Technical Committee” (ETC).

In this document, where we mention Metering Grid Area (MGA), we also mean Calorific Value Area (CVA) or Aggregated Reception Station (ARS). The first area is used in the electricity sector while the two latter are used in the gas sector. In the class diagrams all three areas are specified.

A.1. Comments to the ebIX® model

If you have comments or suggestions to the requirements please contact the ebIX® secretary, see <http://www.ebix.org/artikel/contact>.

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] ebIX® Business Requirements for measure (www.ebix.org)
- [5] ebIX® Business Requirements for alignment of Metering Point characteristics (www.ebix.org)
- [6] Recommended Identification Schemes for the European Energy Market (www.ebix.org)
- [7] 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 MDS. For a list of members of MDS see www.ebix.org.

A.4. Main changes since last version

Old	New	Clarification	Date
Version 1.0.A			
	First published version		20180409

1 Business Requirements View: Rearrange MPs between grids

1.1 Business Domain View: Rearrange MPs between grids (Business Process UseCase)

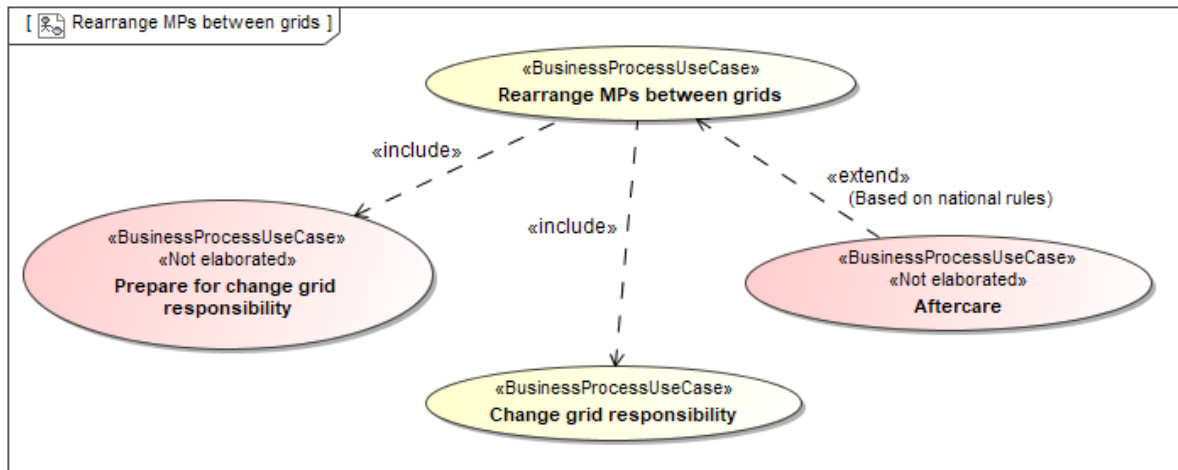


Figure 1 UseCase diagram: Rearrange MPs between grids

The red coloured UseCases “Prepare for change grid responsibility” and “Aftercare” are expected to be manual processes, i.e. not run by standardised message exchange, hence these processes are not elaborated in detail in this BRS.

The process “Change grid responsibility” is modelled based on changes to single Metering Points. However, there may be limitations to volumes that can be handled on this basis. Eventual limitations and ways to overcome these should be discussed during the process “Prepare for change grid responsibility”.

1.1.1 Description

UseCase description: Rearrange MPs between grids	
definition	In this process, Metering Point(s) are moved from one Grid Access Provider to another. As a consequence, the Metering Point(s) are moved from one < Metering Grid Area (MGA), Calorific Value Area (CVA) or Aggregated Reception Station (ARS) to another. In other words, the process concerns a group of Metering Points that will belong to the same new MGA, CVA or ARS.
beginsWhen	When there is a need to move one or more Metering Point(s) from one Grid Access Provider to another.
preCondition	There is a wish to rearrange Metering Point(s) between Grid Access Providers for this or these Metering Point(s).

endsWhen	When the Metering Point(s) in question have been moved to the new Grid Access Provider, all Affected Roles have been informed of the rearrangement and master data are aligned with the relevant parties. Or, the process of rearranging Metering Point(s) has stopped for some reason.
postCondition	The Metering Point(s) have been rearranged, all Affected Roles have been informed and master data are aligned with the relevant parties, or the process was aborted.
exceptions	None
actions	See 1.1.2.

1.1.2 Business process

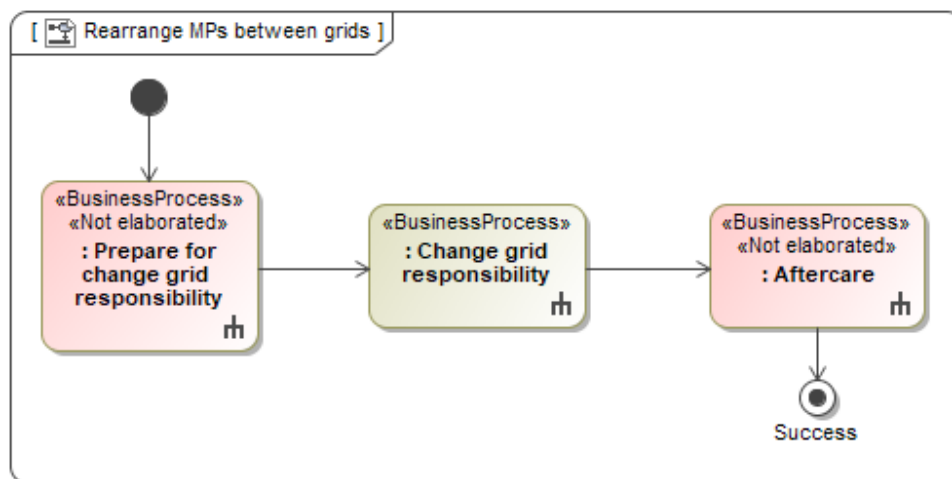


Figure 2 Business Process: Rearrange MPs between grids

1.1.3 Prepare for change grid responsibility (Business Process UseCase)

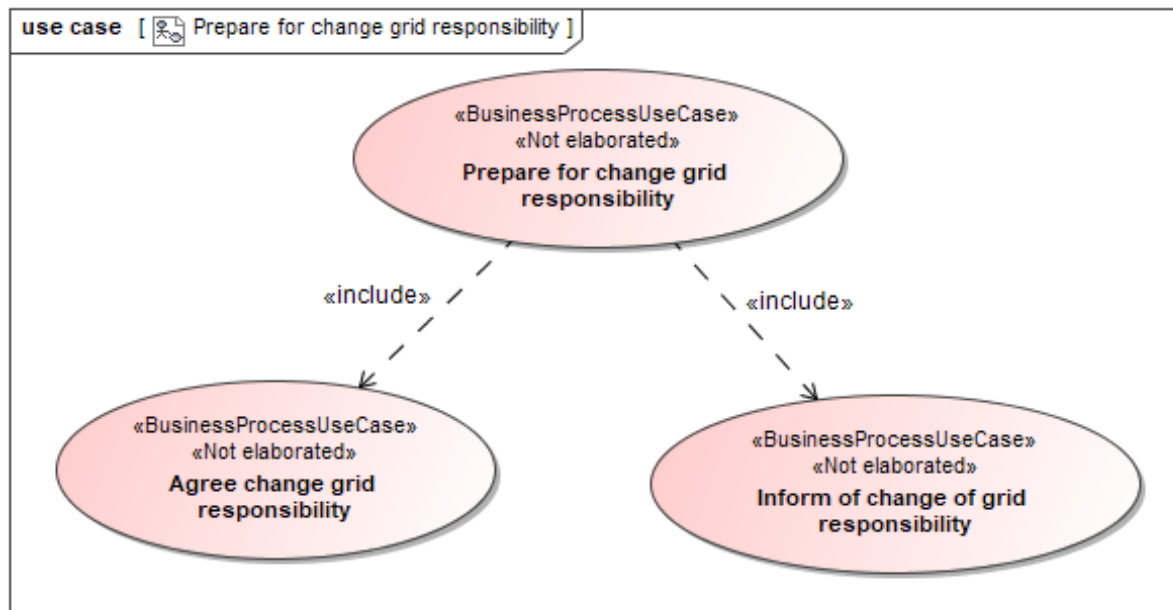


Figure 3 UseCase diagram: Prepare for change grid responsibility

1.1.3.1 Description

UseCase description: Prepare for change grid responsibility	
definition	<p>This is a preparation process where the old and new Grid Access Providers agree to change grid responsibility for a set of Metering Points and thereafter inform their respective Metering Point Administrator(s).</p> <p>The process is expected to be a manual process, not handled by standardised message exchange.</p>
beginsWhen	When the responsible Grid Access Provider for one or more Metering Point(s) intends to move Metering Points to another Grid Access Provider, and possibly Metering Grid Area (MGA), Calorific Value Area (CVA) or Aggregated Reception Station (ARS) to another.
preCondition	There is a wish from one or both involved Grid Access Providers to change grid responsibility.
endsWhen	<p>When the old and new Grid Access Provider have agreed to change grid responsibility for a set of Metering Points and the old and new Grid Access Provider have informed their respective Metering Point Administrator(s) about the change of grid responsibility.</p> <p>Or, the change of grid responsibility is rejected by one or more of the involved roles and the rearrangement of the Metering Point(s) has been cancelled.</p>

postCondition	<p>The preparatory work for change grid responsibility is accepted by the old and the new Grid Access Provider and the respective Metering Point Administrators, and the process “Change grid responsibility” can start.</p> <p>Or, the process of rearrangement of Metering Point(s) is stopped.</p>
exceptions	None
actions	The actions of this UseCase will not be elaborated by ebIX®.

1.1.3.2 Agree change grid responsibility (Business Process UseCase)

The UseCase “Agree change grid responsibility”, with the participating roles, is shown in Figure 4 below. Since this process is expected to be handled manually (e.g. by e-mail), the UseCase is not further elaborated in this BRS.

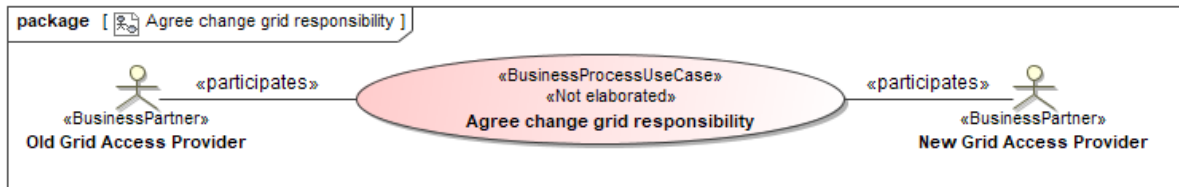


Figure 4 UseCase diagram: Agree change grid responsibility

1.1.3.3 Description

UseCase description: Agree change grid responsibility	
definition	<p>This is a preparation process where the old and new Grid Access Providers agree to change grid responsibility for a set of Metering Points.</p> <p>The process is expected to be a manual process, not handled by standardised message exchange.</p>
beginsWhen	When the responsible Grid Access Provider for one or more Metering Point(s) intends to move Metering Points to another Grid Access Provider, and possibly Metering Grid Area (MGA), Calorific Value Area (CVA) or Aggregated Reception Station (ARS) to another.
preCondition	There is a wish from one or both involved Grid Access Providers to change grid responsibility.
endsWhen	<p>When the old and new Grid Access Provider have agreed to change grid responsibility for a set of Metering Points and the old.</p> <p>Or, the change of grid responsibility is rejected and the rearrangement of the Metering Point(s) has been cancelled.</p>
postCondition	<p>Both the old and new Grid Access Providers have agreed to change grid responsibility for a set of Metering Points.</p> <p>Or, the process of rearrangement of Metering Point(s) is stopped.</p>
exceptions	None
actions	The actions of this UseCase will not be elaborated by ebIX®.

1.1.3.4 Inform of change of grid responsibility (Business Process UseCase)

The UseCase “Inform of change of grid responsibility”, with the participating roles is shown in Figure 5 below. Since this process is expected to be handled manually (e.g. by e-mail), the UseCase is not further elaborated in this BRS.

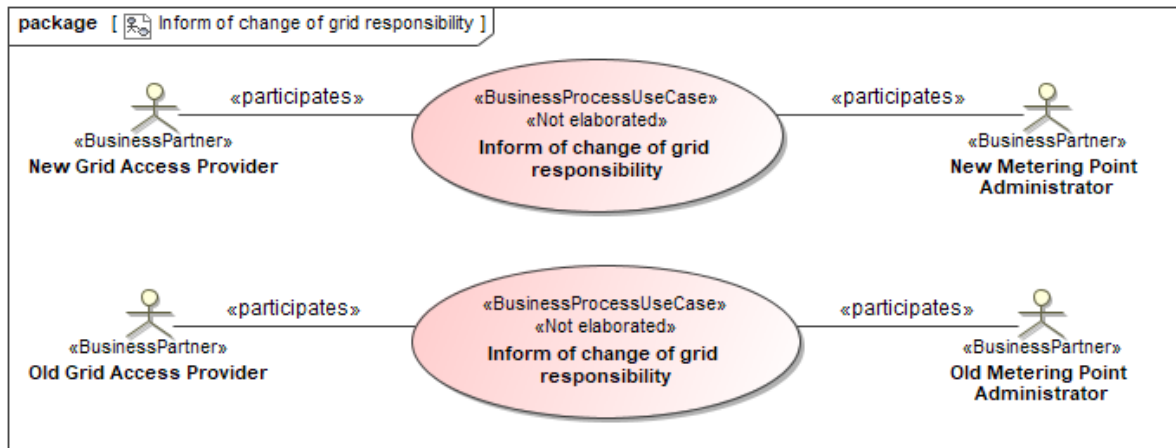


Figure 5 UseCase diagram: Inform of change of grid responsibility

1.1.3.5 Description

UseCase description: Inform of change of grid responsibility	
definition	<p>This is a preparation process where the old and new Grid Access Providers inform their respective Metering Point Administrator(s).</p> <p>The process is expected to be a manual process, not handled by standardised message exchange.</p>
beginsWhen	When the responsible Grid Access Providers have agreed to change grid responsibility for one or more Metering Point(s).
preCondition	The responsible Grid Access Providers have agreed to change grid responsibility for one or more Metering Point(s).
endsWhen	When the old and new Grid Access Provider have informed their respective Metering Point Administrator(s) about the change of grid responsibility.
postCondition	The respective Metering Point Administrators have been informed.
exceptions	None
actions	The actions of this UseCase will not be elaborated by ebIX®.

1.1.4 Change grid responsibility (Business Process UseCase)

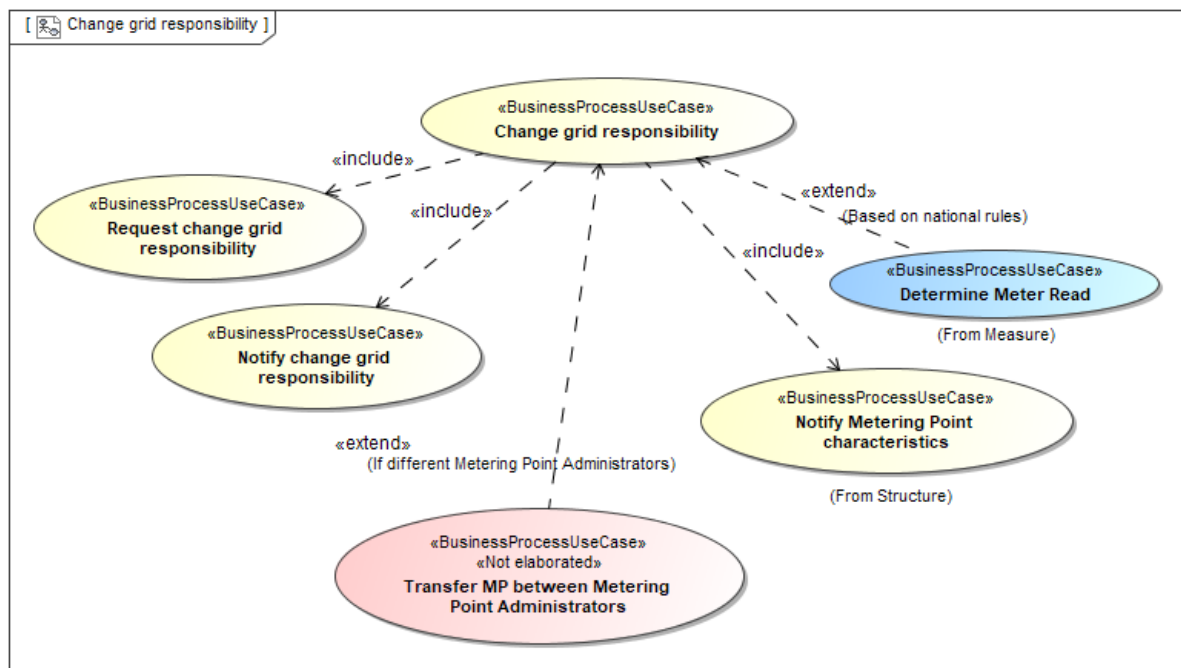


Figure 6 UseCase diagram: Change grid responsibility

1.1.4.1 Description

UseCase description: Change grid responsibility	
definition	<p>This is the process where the old Grid Access Provider for one or more Metering Points (MP) requests change of Grid Access Provider (GAP) and possibly also to a new Metering Grid Area (MGA), Calorific Value Area (CVA) or Aggregated Reception Station (ARS), with the Metering Point Administrator(s). After acceptance, the Metering Point Administrator(s) (MPA) make(s) all necessary updates for the change, including informing all relevant parties about the Change of GAP and possibly MGA, CVA or ARS, and distribution of master data for the Metering Point(s) involved, for alignment of the business partners' databases.</p> <p>The Affected Roles will verify the notification from the Metering Point Administrator and prepare for change.</p>
beginsWhen	When for one or more Metering Point(s) the responsible GAP is to be changed to another GAP, and possibly also a change of MGA, CVA or ARS.
preCondition	<p>The old GAP is authorised by the new GAP to request change of grid responsibility for this or these Metering Point(s).</p> <p>The old and the new GAP have informed the old and the new Metering Point Administrators about the change of grid responsibility.</p>

	All involved Metering Points should be aligned between the old and the new Metering Point Administrators before the process is run, to avoid rejections because of invalid Metering points.
endsWhen	<p>When the following are fulfilled:</p> <ul style="list-style-type: none"> • The responsibility for one or more Metering Point(s) has been changed from one GAP to the other and possibly change of MGA, CVA or ARS in the Metering Point administration(s); • The old Grid Access Provider has received a confirmation from the (old) Metering Point Administrator; • The new Grid Access Provider and other affected roles have received a notification from the (old) Metering Point Administrator; • All Affected Roles have received updated master data from the (new) Metering Point Administrator; • Based on national rules meter reads have been determined for the Metering Points involved. <p>or the request to rearrange Metering Point(s) between Grid Access Providers was rejected by the Metering Point Administrator(s).</p>
postCondition	<p>The change of grid responsibility is confirmed to the old and new Grid Access Provider, all Affected Roles have been informed and the updated Metering Point characteristics for the Metering Point(s) are received by all Affected Roles and possibly meter reads have been determined for the Metering Points, or the request is rejected.</p> <p>Note that the Metering Point ID should not be changed because of a rearrange of MPs between grids.</p>
exceptions ¹	If the Metering Points are transferred between different Metering Point Administrators, the Metering Point characteristics must be transferred.
actions	See 1.1.4.2

¹ Note:

- A Request rearrange MPs between grids may be cancelled for reasons dependent on national rules;
- There may be changes to other parties not directly linked to the MP, such as the Metered Data Aggregator who is linked to the Metering Grid Area;
- Processes with lead times running over the moment of change, such as change of supplier (requested at the old Grid Access Provider, confirmed by/with the new Grid Access Provider) may need extra attention;
- Dual billing period possible for integrated bills for Balance Suppliers (BS). Can the BS handle two sets of data (including VAT) from two grids?
- Rerouting requests (as for historical data) and running processes or requests/processes that were not yet finished may need attention;
- If the new and the old Metering Grid Areas (MGA) are handled by different Metering Point Administrators (MPA), all Metering Point characteristics must be moved from the old MPA to the new MPA;
- The laps time for this process may be longer than for other processes, based on national rules.

1.1.4.2 Business process

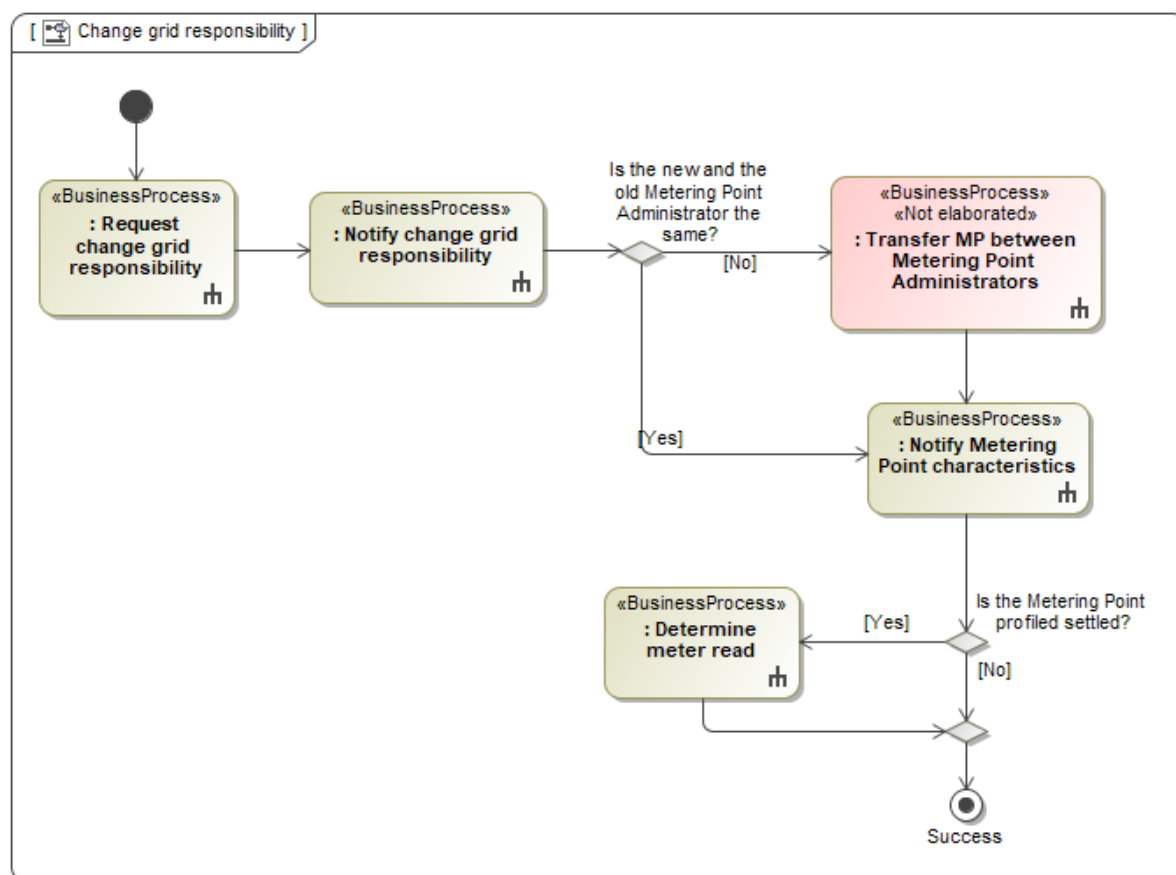


Figure 7 Business Process: Change grid responsibility

1.1.4.3 Request change grid responsibility

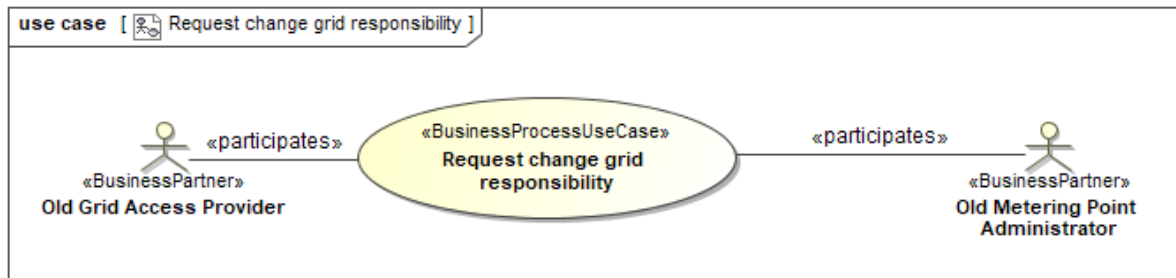


Figure 8 UseCase diagram: Request change grid responsibility

1.1.4.3.1 Description

UseCase description: Request change grid responsibility	
definition	In this process, the old Grid Access Provider requests a change of grid responsibility for one or more Metering Point(s) to its Metering Point Administrator and the Metering Point Administrator confirms or rejects it. As a response to the request there is either one confirmation or one rejection for all Metering Points from the request. In the rejection, the rejected Metering Points may be listed.
beginsWhen	When the process; “Prepare for change grid responsibility (Business Process UseCase)” is finalised with success.
preCondition	<ul style="list-style-type: none"> The old Grid Access Provider must be linked to the Metering Point in its Metering Point administration. The old Grid Access Provider must have a mandate from the new Grid Access Provider to request a change of grid responsibility; The old and new Grid Access Provider have agreed to change grid responsibility; The old and the new Grid Access Provider have pre-informed the old and the new Metering Point Administrator of the change of grid responsibility.
endsWhen	When the initiating (old) Grid Access Provider has received a confirmation or the request for change of grid responsibility has been rejected.
postCondition	The change of grid responsibility has been confirmed or rejected by the Metering Point Administrator.
exceptions	The old and new Metering Point Administrator may be different.
actions	See 1.1.4.3.2

1.1.4.3.2 Business process

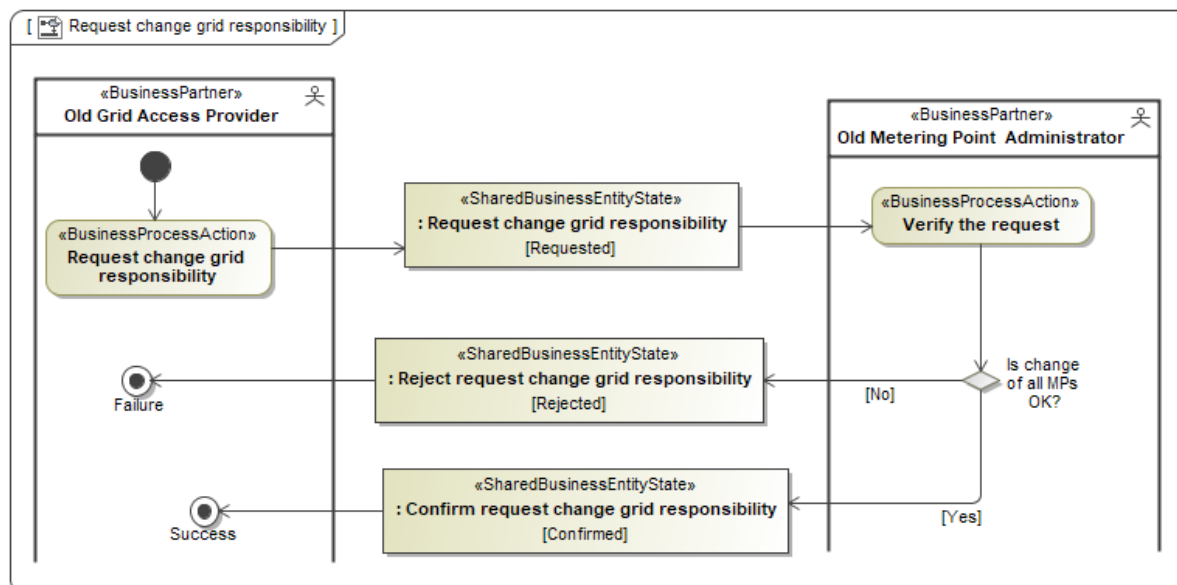


Figure 9 Business Process: Request change grid responsibility

1.1.4.4 Notify change grid responsibility

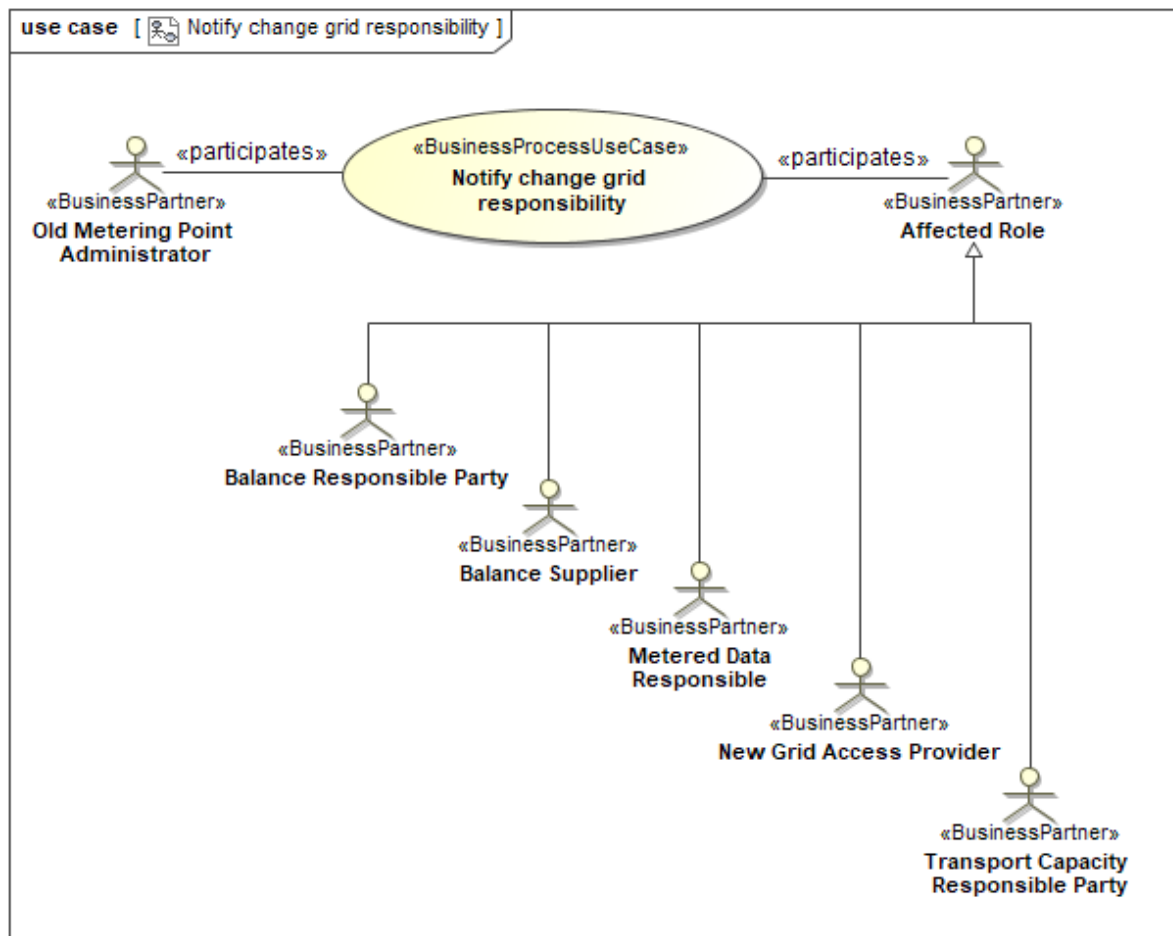


Figure 10 UseCase diagram: Notify change grid responsibility

1.1.4.4.1 Description

UseCase description: Notify change grid responsibility	
definition	In this process, the (old) Metering Point Administrator will notify all Affected Roles, i.e. the Balance Supplier, the Metered Data Responsible, the new Grid Access Provider and the Balance Responsible Party or Transport Capacity Responsible Party, of the change of grid responsibility for the Metering Point(s) and the related change date.
beginsWhen	When the change of grid responsibility has been confirmed by the (old) Metering Point Administrator.
preCondition	The change of grid responsibility process has been confirmed by the (old) Metering Point Administrator.
endsWhen	When all Affected Roles are notified.
postCondition	The change of grid responsibility is notified to all Affected Roles.
exceptions	The old and new Metering Point Administrator may be different.

actions	See 1.1.4.4.2
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1.1.4.4.2 Business Process

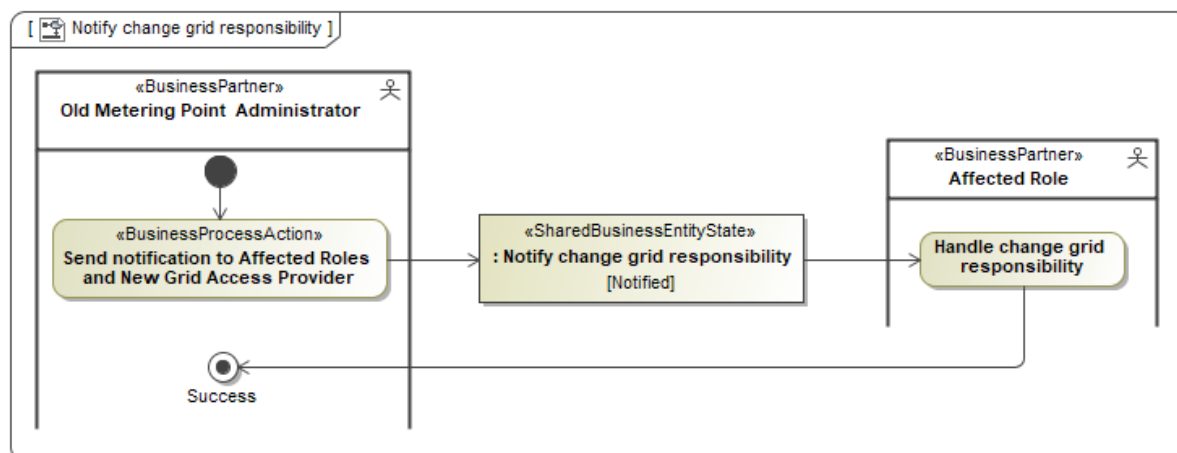


Figure 11 Process: Notify change grid responsibility

1.1.4.5 Transfer Metering Point(s) between Metering Point Administrators

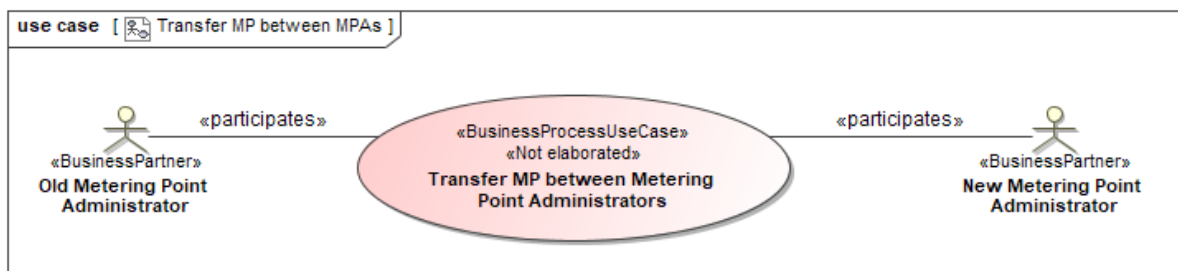


Figure 12 UseCase diagram: Transfer Metering Point(s) between Metering Point Administrators

1.1.4.5.1 Description

UseCase description: Transfer Metering Point(s) between Metering Point Administrators	
definition	In this process, the old Metering Point Administrator will transfer the concerned Metering Point(s) to the new Metering Point Administrator, who adds these to its Metering Point Administration.
beginsWhen	The change of grid responsibility has been notified to Affected Roles.
preCondition	The old and new Metering Point Administrator are different and the change of Grid Access Provider for the indicated Metering Points was confirmed.
endsWhen	The Metering Points have been transferred from the old to the new Metering Point Administration.
postCondition	<ul style="list-style-type: none"> The Metering Points have been deactivated in the old Metering Point Administrator's Metering Point Administration; The Metering Points have been activated in the new Metering Point Administrator's Metering Point Administration.
exceptions	None
actions	Not elaborated.

1.1.4.6 Notify Metering Point Characteristics

After the Metering Points have moved to the new Grid Access Provider the linked roles will be notified with the new characteristics of the Metering Points involved. Notify Metering Point Characteristics is documented in a separate document, see [5].

In case of two Metering Point Administrators, it is the new Metering Point Administrator that will send the notification.

1.1.4.7 Determine Meter Read

In case a meter read for the changes is needed, based on national rules, the meter reads will be determined for the change of grid responsibility.

The Process *Determine Meter Read* is documented in the ebIX® model Measure [4].

1.1.5 Aftercare (Business Process UseCase)

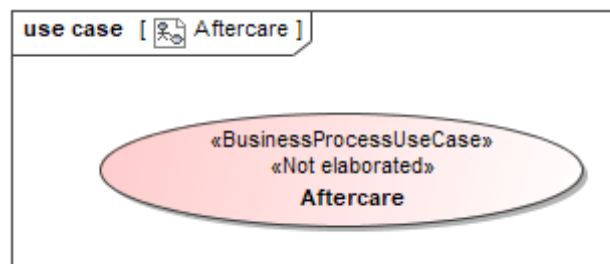


Figure 13 UseCase diagram: Aftercare

1.1.5.1 Description

UseCase description: Aftercare	
definition	<p>This is a post-process, run after the process “Change grid responsibility (Business Process UseCase)”.</p> <p>This process is a manual and internal process for all affected roles, normally not handled by standardised message exchange. The process may contain preparation for handling of historical data and preparation for aggregation, settlement, reconciliation and billing etc.</p>
beginsWhen	When the process “Change grid responsibility (Business Process UseCase)” is finished.
preCondition	The process “Change grid responsibility (Business Process UseCase)” has ended successfully.
endsWhen	When all needed “after care processes” have been completed.
postCondition	The “normal processes” can be run successfully.
exceptions	None.
actions	The actions of this UseCase will not be elaborated by ebIX®.

1.2 Business Partner View

1.2.1 Business partners related to Request rearrange MPs between grids

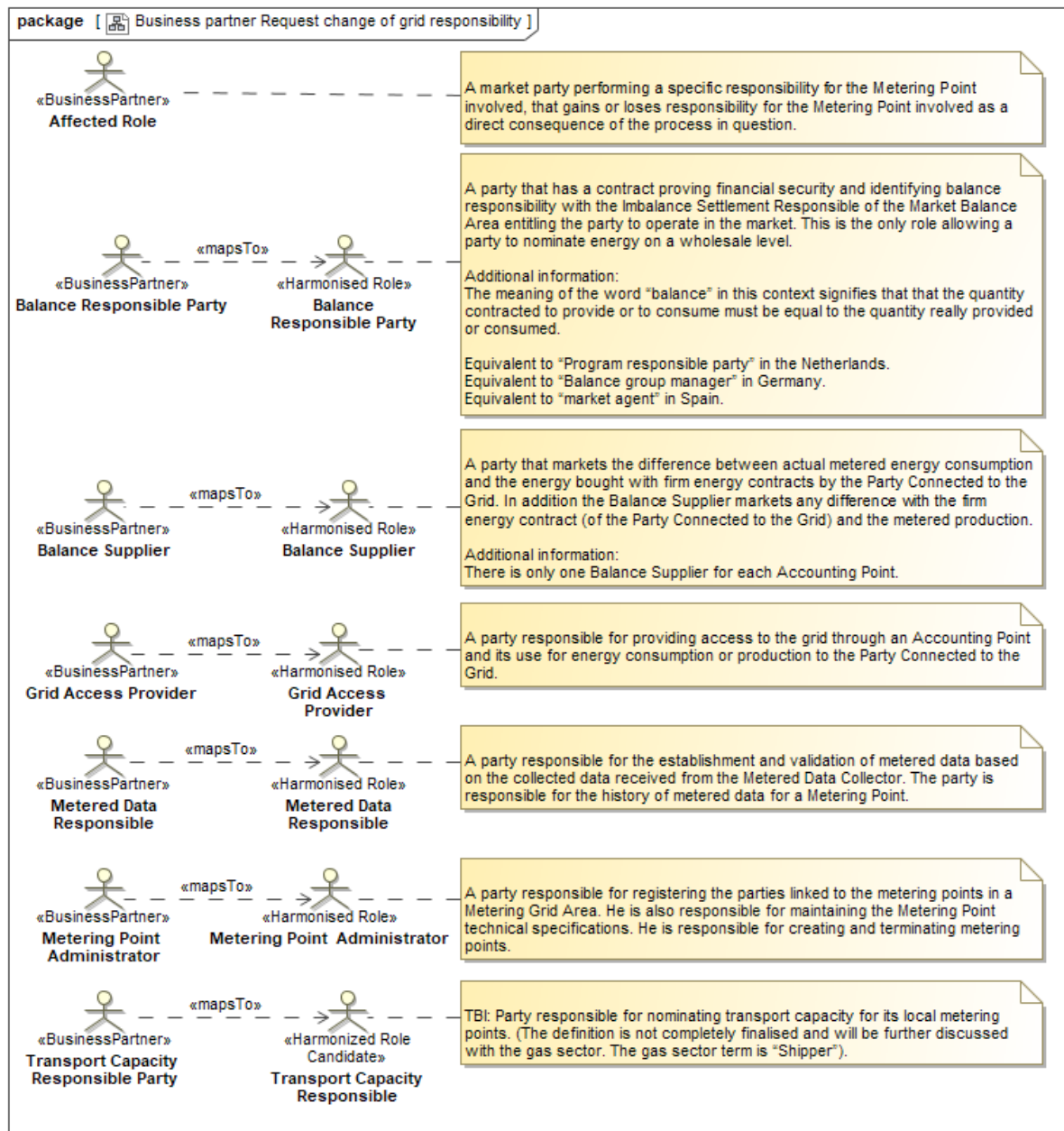


Figure 14 Business partners related to Rearrange Metering Points between grids

1.3 Business Data View

A general introduction to the Business Data View can be found in the Introduction to ebIX® Business Requirements and Business Information Models (www.ebix.org) [3].

1.3.1 Request change grid responsibility (Class Diagram)

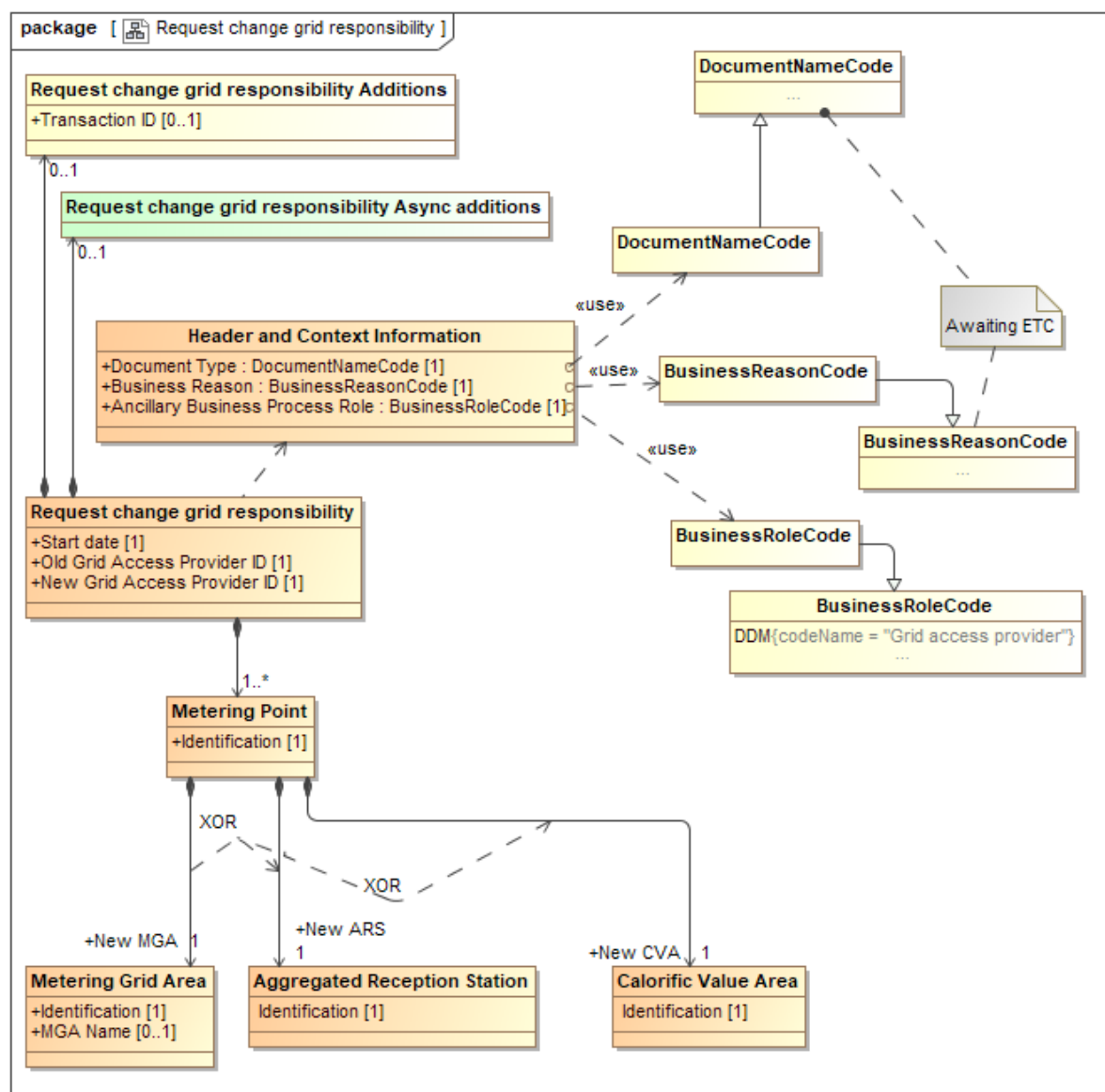


Figure 15 Request change grid responsibility

1.3.1.1 Element definitions, Request change grid responsibility

Class/attribute	Sector ²	Description
«Business entity» Request change grid responsibility	Elec, Gas	The information set to be sent from an Old Grid Access Provider to the Metering Point Administrator when requesting change of grid responsibility for one or more Metering Point(s).
Start Date	Elec, Gas	The requested date for change of grid responsibility.
Old Grid Access Provider ID	Elec, Gas	The unique identification of the Old Grid Access Provider, who is responsible for providing access to the grid through the indicated Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
New Grid Access Provider ID	Elec, Gas	The unique identification of the New Grid Access Provider, who will be responsible for providing access to the grid through the indicated Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
«Business entity» Metering Point	Elec, Gas	An entity where energy products are measured or computed.
Identification	Elec, Gas	The unique identification of (one of) the Metering Points the request to change the grid responsibility is intended for.
«Business entity» Metering Grid Area	Elec, Gas	The New Metering Grid Area that this Metering Point is moved to.
Identification	Elec, Gas	The unique identification of the new Metering Grid Area to which this Metering Point will belong.
«Business entity» Aggregated Reception Station	Gas	An administrative entity that represents one or more reception (and distribution) stations for gas (which are physical installations). This entity functions as the exchange point between grids where calorific value and volumes are established. Dependency: <ul style="list-style-type: none"> Use either Aggregated Reception Station or Calorific Value Area.
Identification	Gas	The unique identification of the new Aggregated Reception Station to which this Metering Point will belong.
«Business entity» Calorific Value Area	Gas	A Calorific Value Area is a predefined set of Metering points for which the same established calorific value is applied.

² It is assumed that Metering Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ²	Description
Identification	Gas	The unique identification of the new Calorific Value Area to which this Metering Point will belong.
Request change grid responsibility Additions	Elec, Gas	Information related to the document exchange, to be agreed on a national level.
Transaction ID	Elec, Gas	The unique identification of this set of information, given by the Initiator.
Request change grid responsibility Async Additions	Elec, Gas	Information related to the document exchange, needed when using asynchronous communication.
Header and Context Information	Elec, Gas	The set of information specifying the information to be added to this payload in order to enable the exchange as a document.
Document Type	Elec, Gas	A code representing the document type used for the exchange of this set of information.
Business Reason	Elec, Gas	A code representing the business reason for the exchange of this set of information.
Ancillary Business Process Role	Elec, Gas	A code representing the market role taking part in this exchange together with the role responsible for the process/this exchange.

1.3.1.2 Request change grid responsibility (State Diagram)

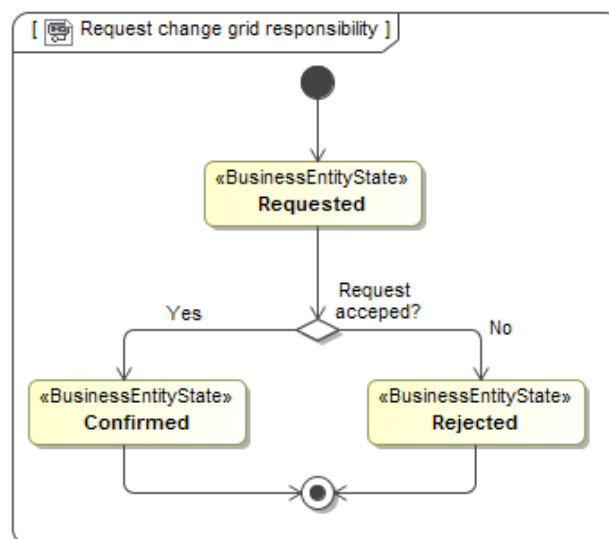


Figure 16 State Diagram: Request change grid responsibility

1.3.2 Confirm request change grid responsibility (Class Diagram)

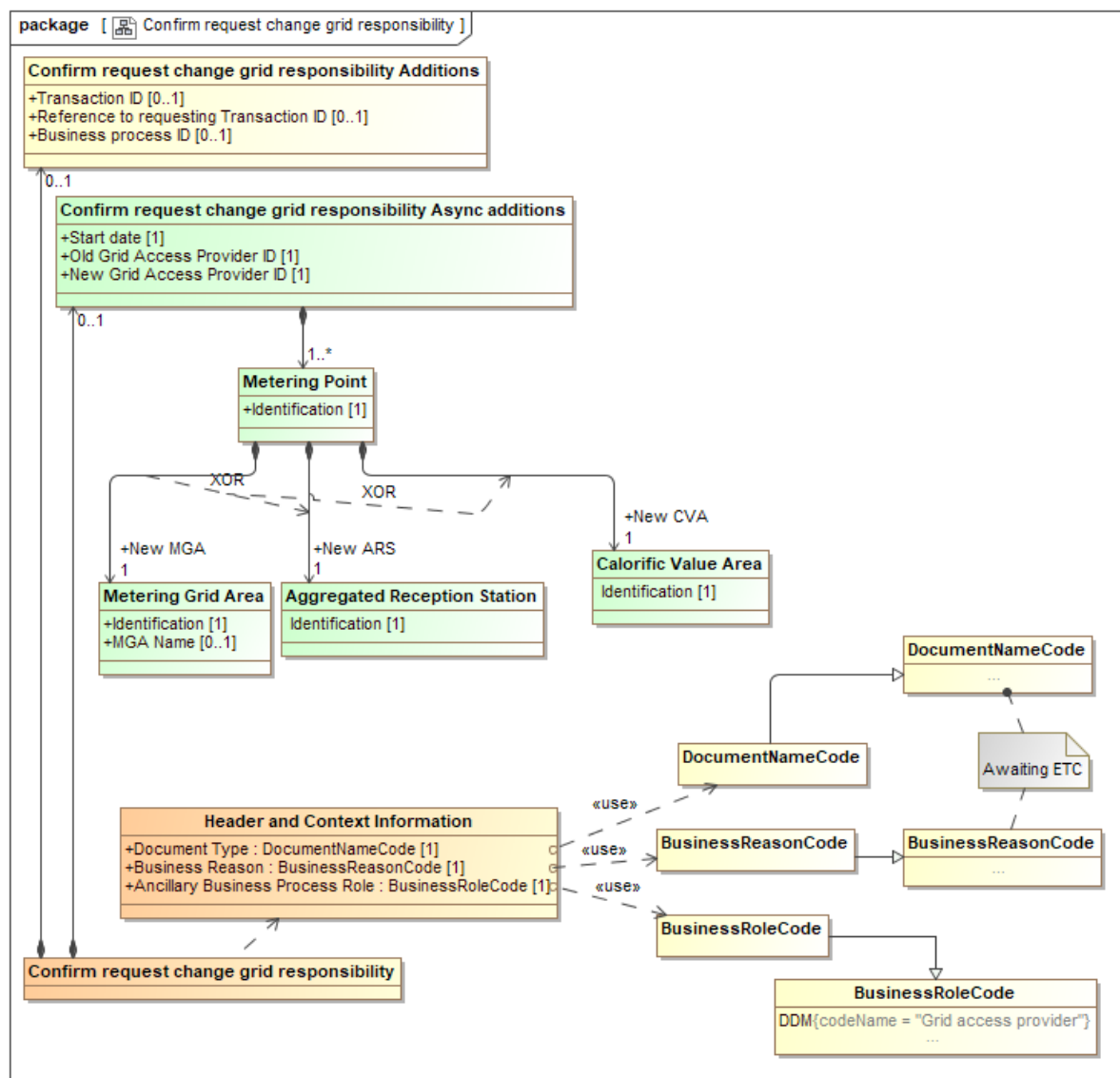


Figure 17 Confirm request change grid responsibility

1.3.2.1 Element definitions, Confirm request change grid responsibility

Class/attribute	Sector ³	Description
«Business entity» Confirm request change grid responsibility	Elec, gas	The information set to be sent from the Metering Point Administrator to the Old Grid Access Provider when confirming a request for change of grid responsibility. Note: For synchronous
Confirm change grid responsibility Additions	Elec, gas	Information related to the document exchange, to be agreed on a national level.
Transaction ID	Elec, gas	The unique identification of this set of information, given by the Metering Point Administrator.
Reference to requesting Transaction ID	Elec, gas	The Transaction ID from the request.
Business process ID	Elec, gas	The unique identification of the instance of the process that this transaction is a part of.
Confirm change grid responsibility Async Additions	Elec, gas	Information related to the document exchange, needed when using asynchronous communication.
Start date	Elec, gas	The confirmed start date for this change.
Old Grid Access Provider ID	Elec, Gas	The unique identification of the Old Grid Access Provider, who is responsible for providing access to the grid through the indicated Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
New Grid Access Provider ID	Elec, Gas	The unique identification of the New Grid Access Provider, who will become responsible for providing access to the grid through the indicated Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
«Business entity» Metering Point	Elec, gas	An entity where energy products are measured or computed.
Identification	Elec, gas	The unique identification of the Metering Point(s) the request rearrange MPs between grids is confirmed for.

³ It is assumed that Metering Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ³	Description
«Business entity» Metering Grid Area	Elec, gas	A Metering Grid Area is a physical area where consumption, production and exchange of (electrical) energy can be metered. It is delimited by the placement of meters for period measurement (continuous metering) for input to, and withdrawal from the area. It can be used to establish the sum of consumption and production with no period measurement (profiled metering points) and network losses.
Identification	Elec, gas	The unique identification of the Metering Grid Area to which this Metering Point will be assigned to.
«Business entity» Aggregated Reception Station	Gas	An administrative entity that represents one or more reception (and distribution) stations for gas (which are physical installations). This entity functions as the exchange point between grids where calorific value and volumes are established. Dependency: Use either Aggregated Reception Station or Calorific Value Area.
Identification	Gas	The unique identification of the Aggregated Reception Station to which this Metering Point will be assigned to.
«Business entity» Calorific Value Area	Gas	A Calorific Value Area is a predefined set of Metering points for which the same established calorific value is applied.
Identification	Gas	The unique identification of the Calorific Value Area to which these Metering Points will be assigned to.
Header and Context Information	Elec, gas	The set of information specifying the information to be added to this payload in order to enable the exchange as a document.
Document Type	Elec, gas	A code representing the document type used for the exchange of this set of information.
Business Reason	Elec, gas	A code representing the business reason for the exchange of this set of information.
Ancillary Business Process Role	Elec, gas	A code representing the market role taking part in this exchange together with the role responsible for the process/this exchange.

1.3.3 Reject request change grid responsibility (Class Diagram)

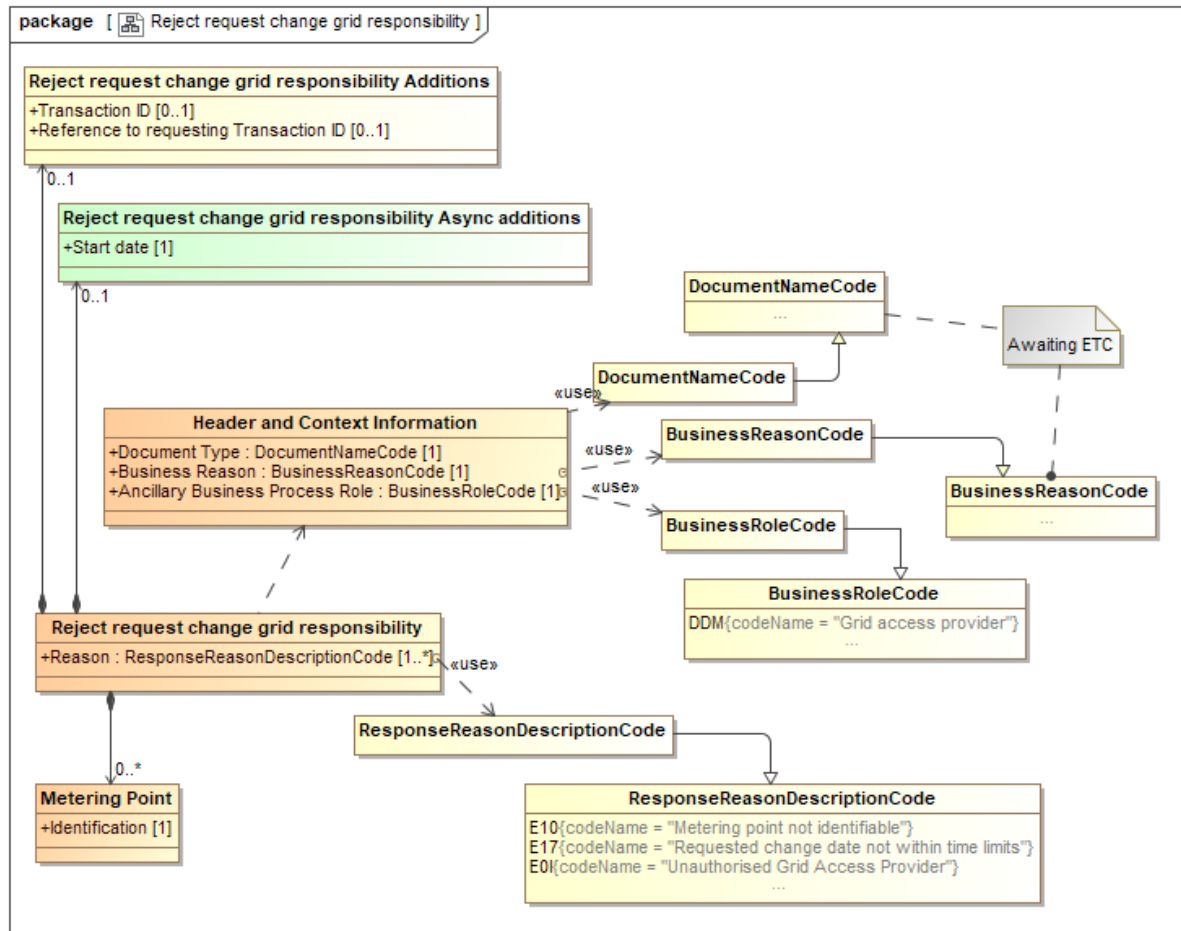


Figure 18 Reject request change grid responsibility

1.3.3.1 Element definitions, Reject request change grid responsibility

Class/attribute	Sector ⁴	Description
«Business entity» Reject request change grid responsibility	Elec, gas	The information set sent from the Metering Point Administrator to the Old Grid Access Provider when rejecting a request for change of grid responsibility.
Reason	Elec, gas	A code specifying (one of) the reason(s) for the rejection of the request for change of grid responsibility.
«Business entity» Metering Point	Elec, gas	An entity where energy products are measured or computed.
Identification	Elec, gas	The unique identification of a Metering Point the Request change grid responsibility was rejected for.
Reject request change grid responsibility Async additions	Elec, gas	Additional information related to rejecting the request for change of grid responsibility, to be agreed on a national level.
Start date	Elec, gas	The requested change date.
Reject request change grid responsibility Additions	Elec, gas	Additional information related to rejecting the request for change of grid responsibility, to be agreed on a national level.
Transaction ID	Elec, gas	The unique identification of this set of information given by the Metering Point Administrator.
Reference to requesting Transaction ID	Elec, gas	The Transaction ID from the request, where this is the response for, given by the Initiator.
Reject request change grid responsibility Async Additions	Elec, gas	Additional information, related to the rejection of the request for change of grid responsibility, needed when using asynchronous communication.
Header and Context Information	Elec, gas	The set of information specifying the information to be added to this payload in order to enable the exchange as a document.
Document Type	Elec, gas	A code representing the document type used for the exchange of this set of information.
Business Reason	Elec, gas	A code representing the business reason for the exchange of this set of information.
Ancillary Business Process Role	Elec, gas	A code representing the market role taking part in this exchange together with the role responsible for the process/this exchange.

⁴ It is assumed that Metering Points are uniquely dedicated to either electricity or to gas.

1.3.4.1 Element definitions, Notify change grid responsibility

Class/attribute	Sector ⁵	Description
«Business entity» Notify change grid responsibility	Elec, gas	The information set to be sent from the Metering Point Administrator to the Affected Roles when notifying change of grid responsibility.
Old Grid Access Provider ID	Elec, gas	The unique identification of the Old Grid Access Provider, who transfers responsible for providing access to the grid through these Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
New Grid Access Provider ID	Elec, gas	The unique identification of the New Grid Access Provider, who will become responsible for providing access to the grid through these Metering Points and its use for energy consumption or production to the Party Connected to the Grid.
Start Date	Elec, gas	The date when the change of grid becomes effective.
«Business entity» Metering Point	Elec, gas	An entity where energy products are measured or computed.
Identification	Elec, gas	The unique identification of the Metering Point(s) the request for change of grid responsibility is intended for.
«Business entity» Metering Grid Area	Elec	A Metering Grid Area is a physical area where consumption, production and exchange of (electrical) energy can be metered. It is delimited by the placement of meters for period measurement (continuous metering) for input to, and withdrawal from the area. It can be used to establish the sum of consumption and production with no period measurement (profiled metering points) and network losses.
Identification	Elec	The unique identification of the new Metering Grid Area to which this/these Metering Point(s) will belong to.
«Business entity» Aggregated Reception Station	Gas	An administrative entity that represents one or more reception (and distribution) stations for gas (which are physical installations). This entity functions as the exchange point between grids where calorific value and volumes are established. Dependency: Use either Aggregated Reception Station or Calorific Value Area.
Identification	Gas	The unique identification of the Aggregated Reception Station to which this Metering Point will belong to.

⁵ It is assumed that Metering Points are uniquely dedicated to either electricity or to gas.

«Business entity» Calorific Value Area	Gas	A Calorific Value Area is a predefined set of Metering points for which the same established calorific value is applied.
Identification	Gas	The unique identification of the Calorific Value Area to which this Metering Point will belong to.
Notify change grid responsibility Additions	Elec, gas	Information related to the document exchange, to be agreed on a national level.
Transaction ID	Elec, gas	The unique identification of this set of information, given by the Metering Point Administrator.
Business process ID	Elec, gas	The unique identification of the instance of the process that this transaction is a part of.
Notify change grid responsibility Async Additions	Elec, gas	Information related to the document exchange, needed when using asynchronous communication.
Header and Context Information	Elec, gas	The set of information specifying the information to be added to this payload in order to enable the exchange as a document.
Document Type	Elec, gas	A code representing the document type used for the exchange of this set of information.
Business Reason	Elec, gas	A code representing the business reason for the exchange of this set of information.
Ancillary Business Process Role	Elec, gas	A code representing the market role taking part in this exchange together with the role responsible for the process/this exchange.

1.3.4.2 Notify change grid responsibility (State Diagram)

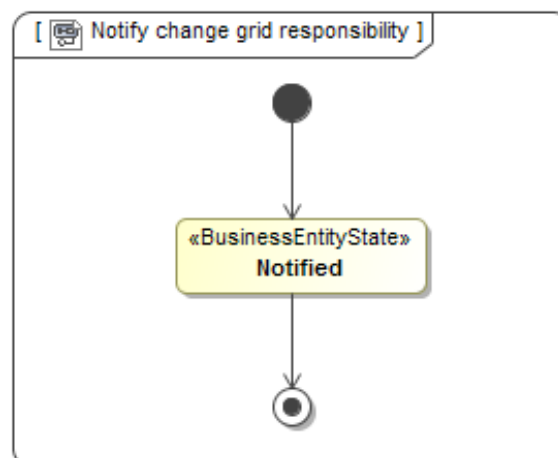


Figure 20 State Diagram: Notify rearrange MPs between grids