



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

Status: Approved by ebIX® Forum  
Version: 2.0  
Revision: C  
Date: December 2023

CONTENT

- A. About this document .....3
- A.1. References .....3
  - A.1.1. Standards .....3
  - A.1.2. ebIX® Documents .....4
- A.2. Main changes since last version .....4
- 1 Business Requirements View: Rearrange Accounting Points between grids .....5
  - 1.1 Business Domain View: Rearrange Accounting Points between grids (Business Process UseCase) .....5
    - 1.1.1 Description ..... 5
    - 1.1.2 Business process..... 6
    - 1.1.3 Prepare for change grid responsibility (Business Process UseCase) ..... 7
    - 1.1.4 Change grid responsibility (Business Process UseCase) ..... 10
    - 1.1.5 Aftercare (Business Process UseCase)..... 20
  - 1.2 Business Partner View .....21
    - 1.2.1 Business partners related to Request rearrange Accounting Points between grids..... 21
  - 1.3 Business Entity View .....22
    - 1.3.1 Request change grid responsibility (Class Diagram) ..... 23
    - 1.3.2 Confirm request change grid responsibility (Class Diagram) ..... 25
    - 1.3.3 Reject request change grid responsibility (Class Diagram) ..... 26
    - 1.3.4 Notify change grid responsibility (Class Diagram)..... 28
- Appendix A. Header and Context information for the class diagrams .....30
  - A.1. Header and Context Information attributes definitions.....30
  - A.2. Request change grid responsibility .....30
  - A.3. Confirm request change grid responsibility.....31
  - A.4. Reject request change grid responsibility.....31
  - A.5. Notify change of grid responsibility .....32

## A. About this document

This document is a Business Requirements Specification (BRS) for Rearranging Accounting Points between grids, within the structuring process of the European energy market. In this BRS we use business terms for the actors, and we map them to the terms used in the Harmonised Role Model from ENTSO-E, ebIX® and EFET [3].

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

As a general introduction ebIX® has published a separate document “Introduction to ebIX® Business Requirements and Business Information Models” [4]. 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 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. References

#### A.1.1. Standards

- [1] UML Profile for UN/CEFACT’s Modelling Methodology (UMM), Base Module 2.0., (<http://www.unece.org/tradewelcome/un-centre-for-trade-facilitation-and-e-business-uncefact/outputs/technical-specifications/uncefact-modelling-methodology-umm.html>).
- [2] UML Profile for UN/CEFACT’s Modelling Methodology (UMM), Foundation Module, 2.0. (<http://www.unece.org/tradewelcome/un-centre-for-trade-facilitation-and-e-business-uncefact/outputs/technical-specifications/uncefact-modelling-methodology-umm.html>).
- [3] The Harmonized Role Model (for the Electricity Market) by ebIX®, ENTSO-E, and EFET ([www.ebix.org](http://www.ebix.org)).

### A.1.2. ebIX® Documents

- [4] Introduction to ebIX® Business Requirements and Business Information Models ([www.ebix.org](http://www.ebix.org)).
- [5] Recommended Identification Schemes for the European Energy Market ([www.ebix.org](http://www.ebix.org)).
- [6] ebIX® code lists ([www.ebix.org](http://www.ebix.org)).
- [7] ebIX® Business Requirements for measure for determine meter read ([www.ebix.org](http://www.ebix.org)).
- [8] ebIX® Business Requirements for alignment of Accounting Point characteristics ([www.ebix.org](http://www.ebix.org)).

### A.2. Main changes since last version

| Old                | New   | Clarification   | Date     |
|--------------------|-------|---|----------|
| <b>Version 2.0</b> |       |   |          |
| 1.0.B              | 2.0.A | Recast of BRS.  | 20200223 |
| 2.0.A              | 2.0.B | <ul style="list-style-type: none"> <li>• Harmonised the introduction with other ebIX® BRSs.</li> <li>• Update of roles to be in line with the ebIX®, EFET and ENTSO-E Harmonised Electricity Market Role Model version 2022-01.</li> <li>• Hiding attributes from the root class in Appendix A, to make the class.</li> <li>• Correction of spelling errors.</li> </ul> | 20230823 |
| 2.0.B              | 2.0.C | Since ebIX® is closing down from the end of 2023, the link to the ebIX® secretary has been removed.   | 20231212 |

# 1 Business Requirements View: Rearrange Accounting Points between grids

## 1.1 Business Domain View: Rearrange Accounting Points between grids (Business Process UseCase)

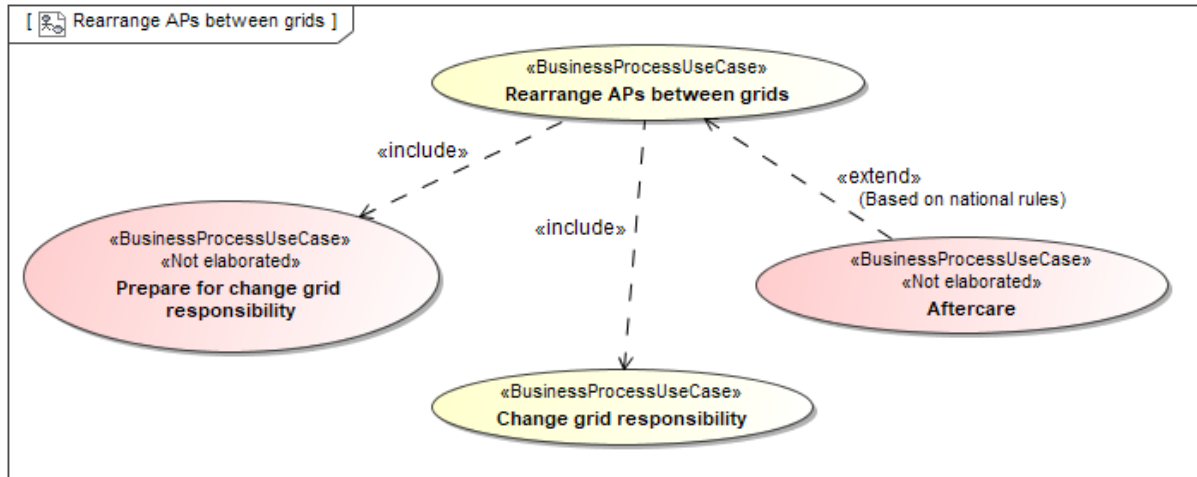


Figure 1 UseCase diagram: Rearrange Accounting Points between grids

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 Accounting 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 Accounting Points between grids |   |
|--|---|
| definition   | In this process, Accounting Point(s) are moved from the responsibility of one Grid Company to another. As a consequence, the Accounting Point(s) are moved from one Metering Grid Area, Calorific Value Area or Aggregated Reception Station to another. In other words, the process concerns a group of Accounting Points that will belong to the same new Metering Grid Area, Calorific Value Area or Aggregated Reception Station. |
| beginsWhen   | When there is a need to move one or more Accounting Point(s) from one Grid Company to the other.  |
| preCondition   | There is a wish to rearrange Accounting Point(s) between Grid Companies for this or these Accounting Point(s).  |

|               |  |
|---------------|--|
| endsWhen      | When the Accounting Point(s) in question have been moved to the New Grid Company, all Affected Parties have been informed of the rearrangement and Accounting Point characteristics are aligned with the Linked Parties. |
| postCondition | The Accounting Point(s) have been rearranged, all Affected Parties have been informed and Accounting Point characteristics are aligned with the Linked Parties.  |
| exceptions    | The process of rearranging Accounting Point(s) has stopped for some reason.  |
| actions       | See 1.1.2.   |

### 1.1.2 Business process

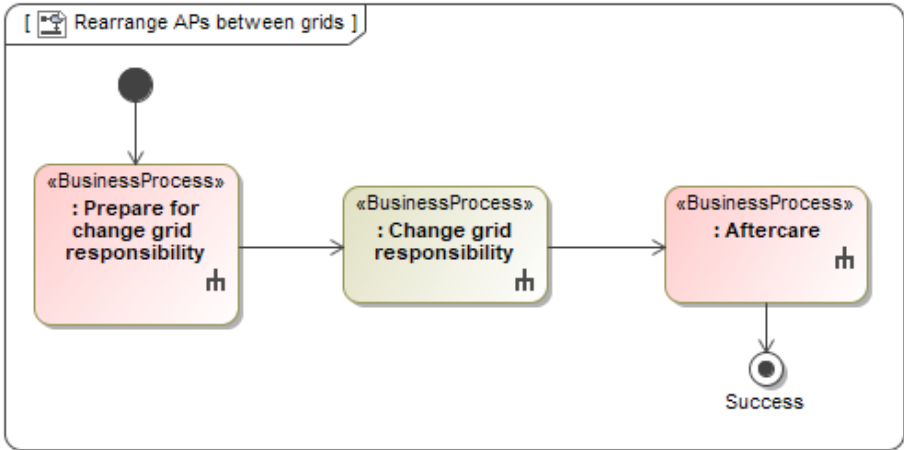


Figure 2 Business Process: Rearrange Accounting Points between grids

### 1.1.3 Prepare for change grid responsibility (Business Process UseCase)

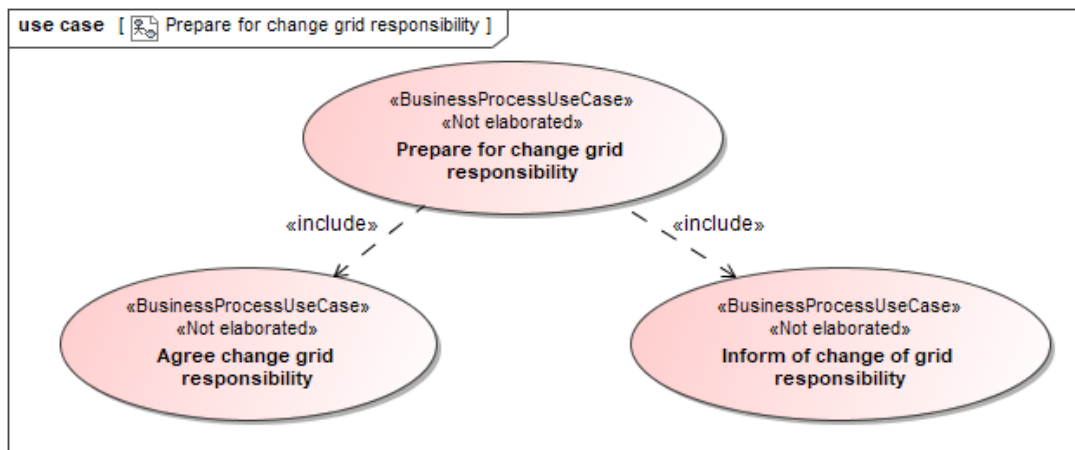


Figure 3 UseCase diagram: Prepare for change grid responsibility

#### 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 Companies agree to change grid responsibility for a set of Accounting 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 Company for one or more Accounting Point(s) intends to move Accounting Points to another Grid Company, and possibly Metering Grid Area, Calorific Value Area or Aggregated Reception Station to another.  |
| preCondition  | There is a wish from one or both involved Grid Companies to change grid responsibility.   |
| endsWhen  | When the Old and New Grid Company have agreed to change grid responsibility for a set of Accounting Points and the Old and New Grid Company have informed their respective Metering Point Administrator(s) about the intended change of grid responsibility.  |
| postCondition   | The preparatory work for change grid responsibility is accepted by the Old and the New Grid Company and the respective Metering Point Administrators, and the process “Change grid responsibility” can start.   |
| exceptions  | The change of grid responsibility is rejected by one or more of the involved Parties and the rearrangement of the Accounting Point(s) has been cancelled.   |
| 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.

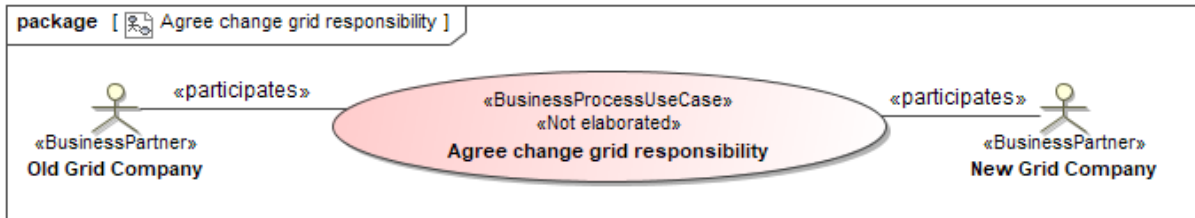


Figure 4 UseCase diagram: Agree change grid responsibility

### 1.1.3.3 Description

|   |   |
|---|---|
| UseCase description: Agree change grid responsibility |   |
| definition  | This is a preparation process where the Old and New Grid Companies agree to change grid responsibility for a set of Accounting Points.<br><br>The process is expected to be a manual process, not handled by standardised message exchange. |
| beginsWhen  | When the responsible Grid Company for one or more Accounting Point(s) intends to move Accounting Points to another Grid Company, and possibly Metering Grid Area, Calorific Value Area or Aggregated Reception Station to another.          |
| preCondition  | There is a wish from one or both involved Grid Companies to change grid responsibility.   |
| endsWhen  | When the Old and New Grid Company have agreed to change grid responsibility for a set of Accounting Points.   |
| postCondition   | Both the Old and New Grid Companies have agreed to change grid responsibility for a set of Accounting Points.   |
| exceptions  | The change of grid responsibility is rejected, and the rearrangement of the Accounting Point(s) has been cancelled.   |
| 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.

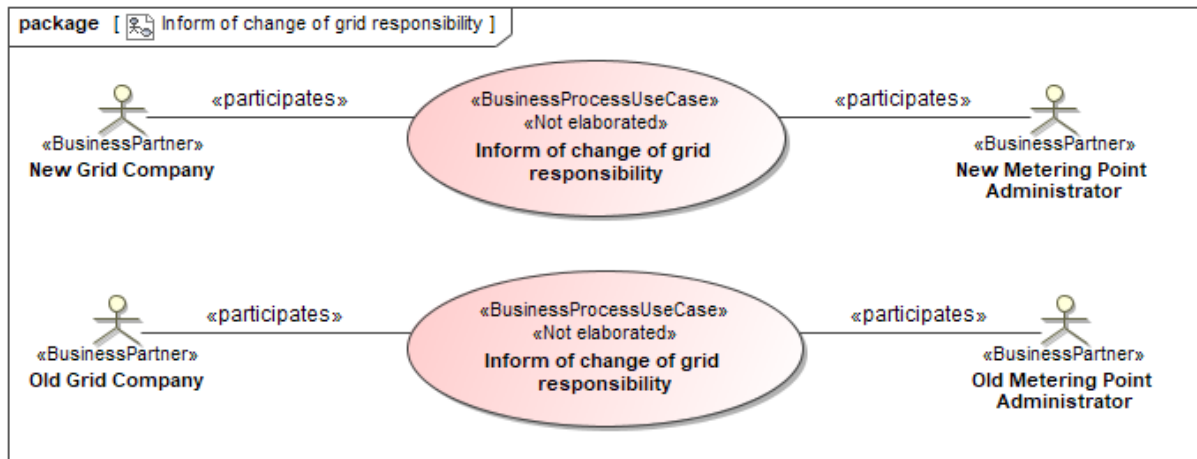


Figure 5 UseCase diagram: Inform of change of grid responsibility

### 1.1.3.5 Description

| UseCase description: Inform of change of grid responsibility |  |
|--|--|
| definition   | This is part of a preparation process where the Old and New Grid Companies inform their respective Metering Point Administrator(s).<br><br>The process is expected to be a manual process, not handled by standardised message exchange. |
| beginsWhen   | When the responsible Grid Companies have agreed to change grid responsibility for one or more Accounting Point(s).   |
| preCondition   | The responsible Grid Companies have agreed to change grid responsibility for one or more Accounting Point(s).  |
| endsWhen   | When the Old and New Grid Company have informed their respective Metering Point Administrator(s) about the change of grid responsibility.  |
| postCondition  | The respective Metering Point Administrators are informed about the change of grid responsibility of the set of Accounting Points.   |
| exceptions   | None   |
| actions  | The actions of this UseCase will not be elaborated by ebIX®.   |

### 1.1.4 Change grid responsibility (Business Process UseCase)

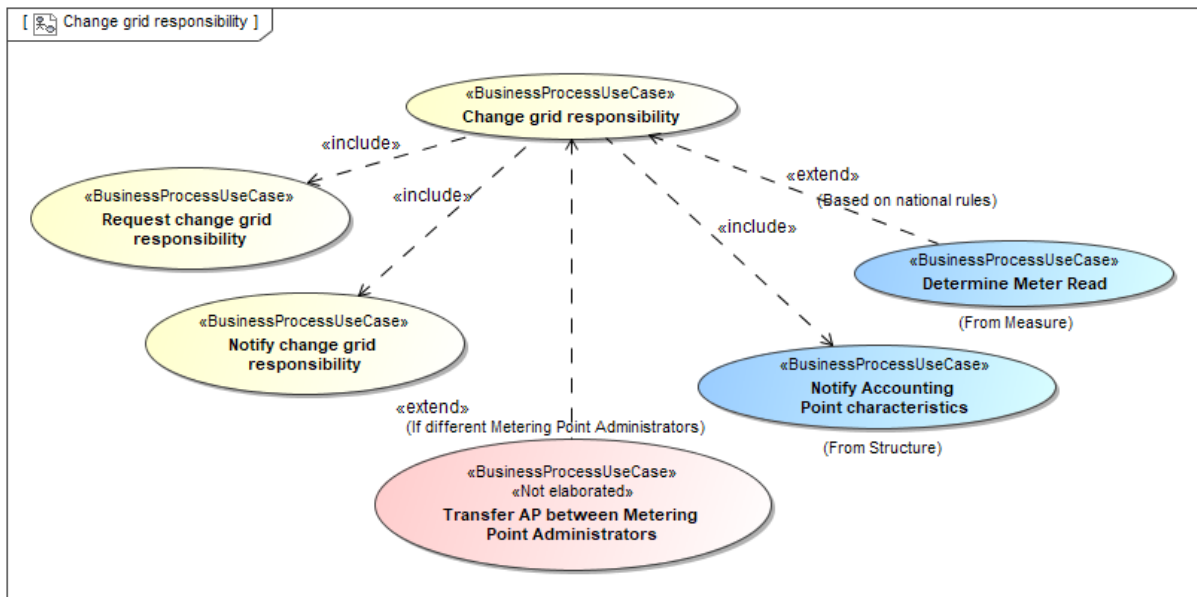


Figure 6 UseCase diagram: Change grid responsibility

#### 1.1.4.1 Description

| UseCase description: Change grid responsibility |   |
|---|---|
| definition                                      | <p>This is the process where the Old Grid Company for one or more Accounting Points requests change of Grid Company (GAP) with the Metering Point Administrator(s).</p> <ul style="list-style-type: none"> <li>• Associated for electricity: New Metering Grid Area.</li> <li>• Associated for gas: possible new Calorific Value Area (CVA) or Aggregated Reception Station (ARS).</li> </ul> <p>After acceptance, the Metering Point Administrator(s) make(s) all necessary updates for the change, including informing all Affected Parties about the Change of grid responsibility with possibly associated Metering Grid Areas, CVA or ARS. After the change of grid responsibility, the distribution of Accounting Point characteristics for alignment to Linked Parties.</p> <p>The Affected Parties will verify the notification from the Metering Point Administrator and prepare for change.</p> |
| beginsWhen                                      | When for one or more Accounting Point(s) the responsible Grid Company is to be changed to another Grid Company.   |
| preCondition                                    | The Old Grid Company is authorised by the New Grid Company to request change of grid responsibility for this or these Accounting Point(s).  |

|                      |  |
|----------------------|--|
|                      | <p>The Old and the New Grid Company have informed the Old and the New Metering Point Administrators about the change of grid responsibility.</p> <p>All involved Accounting Points should be aligned between the Old and the New Metering Point Administrators before the process is run, to avoid rejections because of invalid Accounting Points.</p>  |
| <p>endsWhen</p>      | <p>When the following are fulfilled:</p> <ul style="list-style-type: none"> <li>• The responsibility for one or more Accounting Point(s) has been changed from one Grid Company to the other and possibly change of Metering Grid Area, Calorific Value Area or Aggregated Reception Station the Metering Point administration(s).</li> <li>• The Old Grid Company has received a confirmation from the (Old) Metering Point Administrator.</li> <li>• The New Grid Company and other Affected Parties have received a notification from the (Old) Metering Point Administrator.</li> <li>• All Affected Parties, including the New Grid Company have received updated master data from the (New) Metering Point Administrator.</li> <li>• Based on national rules meter reads may have been determined for the Accounting Points involved.</li> </ul> |
| <p>postCondition</p> | <p>The change of grid responsibility is confirmed to the Old and New Grid Company, all Affected Parties have been informed and the updated Accounting Point characteristics for the Accounting Point(s) are received by all Linked Parties and possibly meter reads have been determined for the Accounting Points.</p> <p><b>Note that the Accounting Point ID should not be changed because of a rearrange of Accounting Points between grids.</b></p>   |

|                         |  |
|-------------------------|--|
| exceptions <sup>1</sup> | If the Accounting Points are transferred between different Metering Point Administrators, the Accounting Point characteristics must be transferred. The request to rearrange Accounting Point(s) between Grid Companies was rejected by the Metering Point Administrator(s). |
| actions                 | See 1.1.4.2  |

---

<sup>1</sup> Note:

- a) A Request rearrange APs between grids may be cancelled for reasons dependent on national rules.
- b) There may be changes to other parties not directly linked to the AP, such as the Metered Data Aggregator who is linked to the Metering Grid Area.
- c) 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.
- d) Dual billing period possible for integrated bills for Energy Suppliers. Can the Energy Suppliers handle two sets of data (including VAT) from two grids?
- e) Rerouting requests (as for historical data) and running processes or requests/processes that were not yet finished may need attention.
- f) If the New and the Old Metering Grid Areas are handled by different Metering Point Administrators (Metering point Administrator), all Accounting Point characteristics must be moved from the Old Metering point Administrator to the New Metering point Administrator.
- g) The laps time for this process may be longer than for other processes, based on national rules.

1.1.4.2 Business process

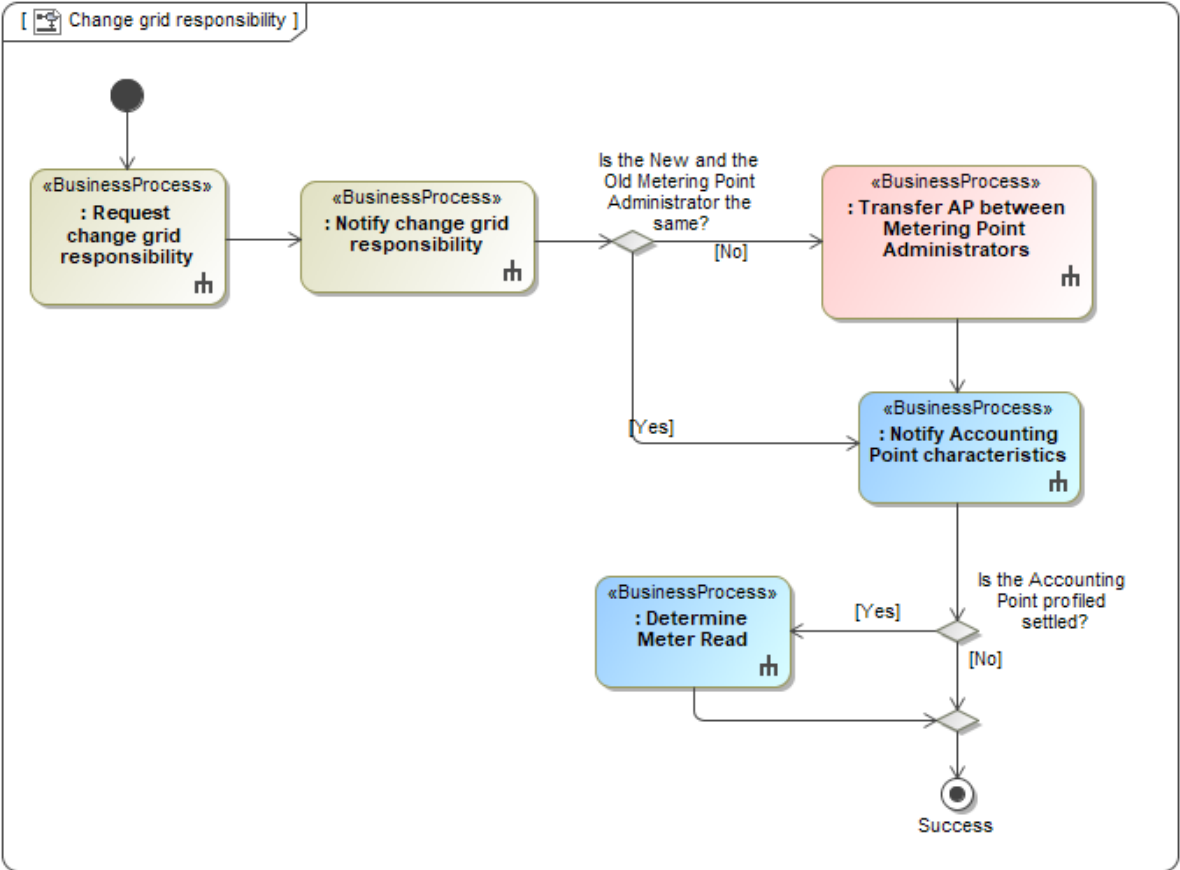


Figure 7 Business Process: Change grid responsibility

### 1.1.4.3 Request change grid responsibility

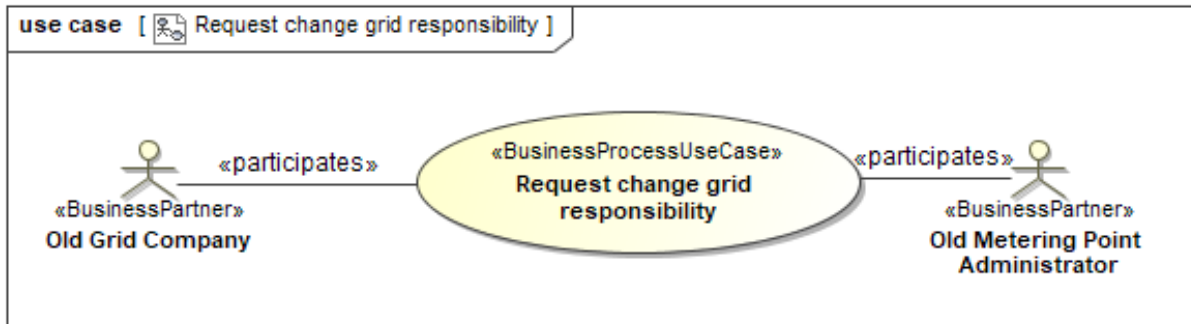


Figure 8 UseCase diagram: Request change grid responsibility

#### 1.1.4.3.1 Description

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

1.1.4.3.2 Business process

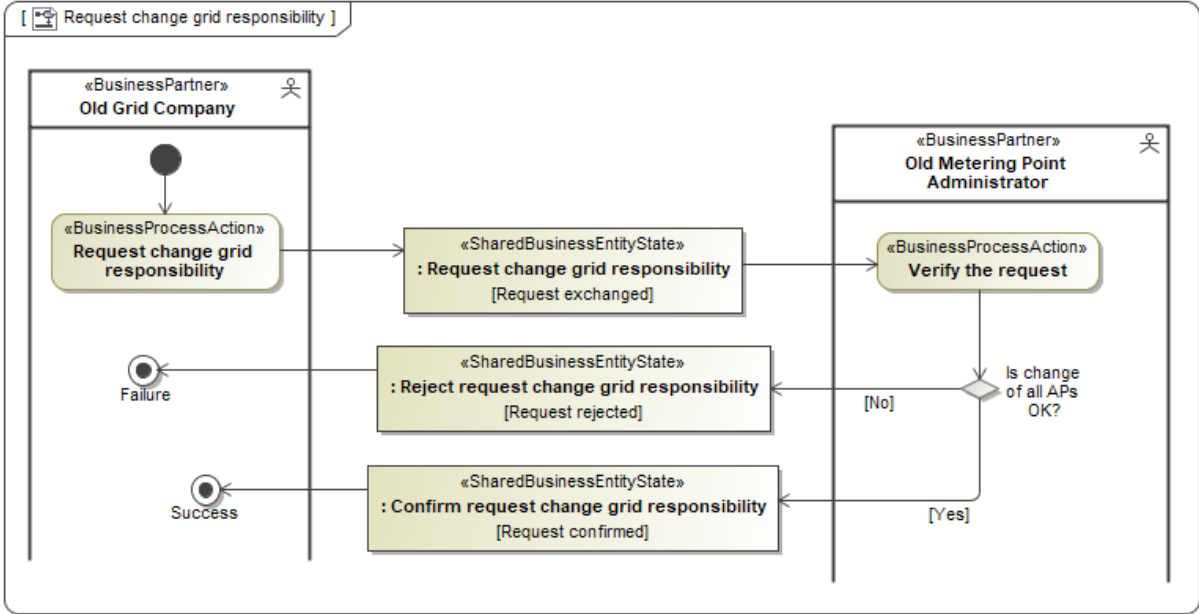


Figure 9 Business Process: Request change grid responsibility

### 1.1.4.4 Notify change grid responsibility

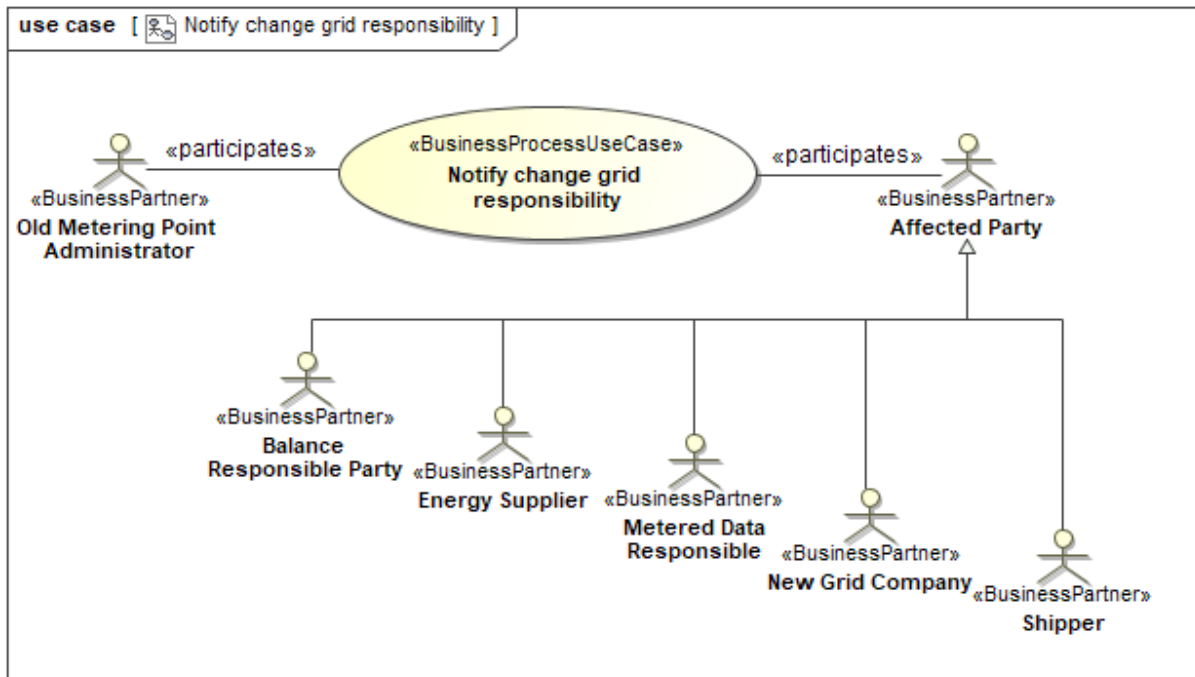


Figure 10 UseCase diagram: Notify change grid responsibility

#### 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 Parties, i.e. the Energy Supplier, the Metered Data Responsible, the New Grid Company and the Balance Responsible Party or Transport Capacity Responsible Party, of the change of grid responsibility for the Accounting 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 Parties are notified.   |
| postCondition  | The change of grid responsibility is notified to all Affected Parties.  |
| exceptions   | The Old and New Metering Point Administrator may be different.<br><br>Based on national rules (e.g. dependent on deregulation of metering market), the change of grid responsibility may have effect on Consented Parties.  |
| actions  | See 1.1.4.4.2   |



1.1.4.4.2 Business Process

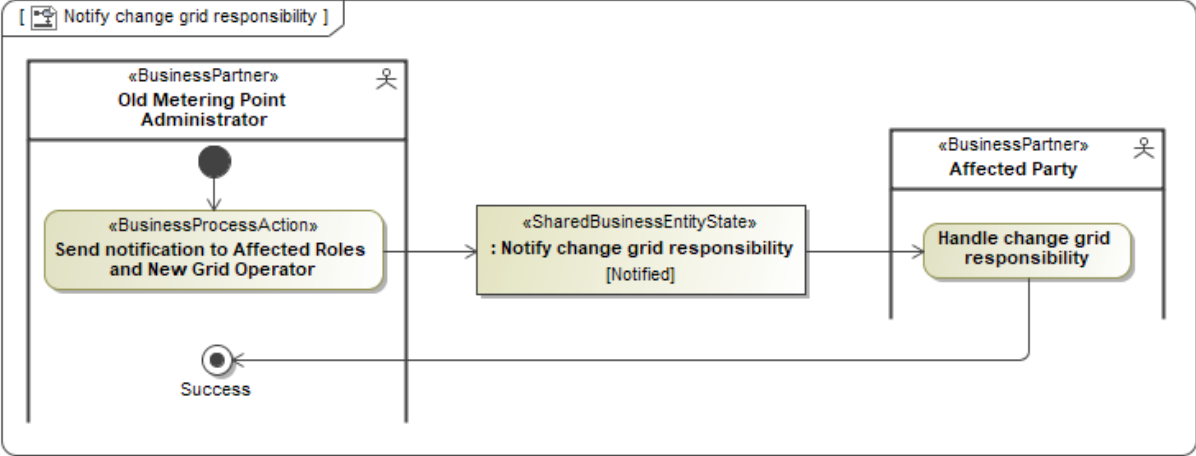


Figure 11 Process: Notify change grid responsibility

### 1.1.4.5 Transfer Accounting Point(s) between Metering Point Administrators

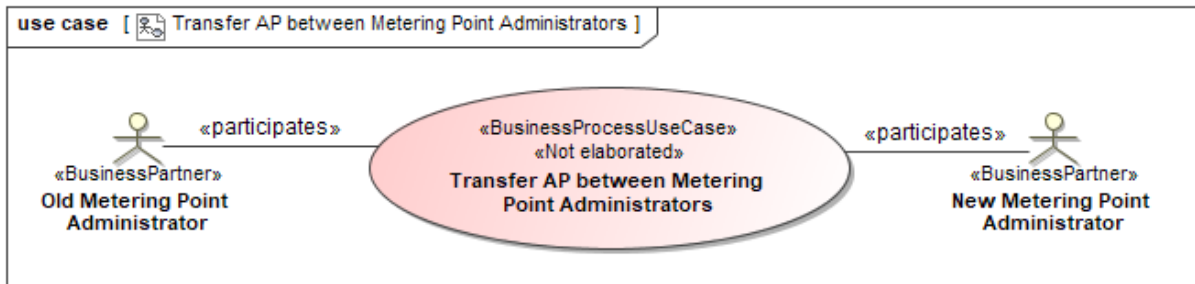


Figure 12 UseCase diagram: Transfer Accounting Point(s) between Metering Point Administrators

#### 1.1.4.5.1 Description

|   |  |
|---|--|
| UseCase description: Transfer Accounting Point(s) between Metering Point Administrators |  |
| definition  | In this process, the Old Metering Point Administrator will transfer the Accounting Point(s) concerned 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 Parties.   |
| preCondition  | The Old and New Metering Point Administrator are different and the change of Grid Company for the indicated Accounting Points was confirmed.   |
| endsWhen  | The Accounting Points have been transferred from the Old to the New Metering Point administration.   |
| postCondition   | <ul style="list-style-type: none"> <li>The Accounting Points have been deactivated in the Old Metering Point Administrator’s Metering Point administration.</li> <li>The Accounting Points have been activated in the New Metering Point Administrator’s Metering Point administration.</li> </ul> |
| exceptions  | None   |
| actions   | Not elaborated.  |

#### **1.1.4.6 Notify Accounting Point Characteristics**

In order for all Linked Parties, linked to the changed Accounting Points, to operate properly they will be notified with Accounting Point characteristics. Notify Accounting Point Characteristics is documented in a separate BRS, see [8]. In this BRS (BRS for alignment of Accounting Point characteristics), the Linked Parties are specified.

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 [7].

### 1.1.5 Aftercare (Business Process UseCase)

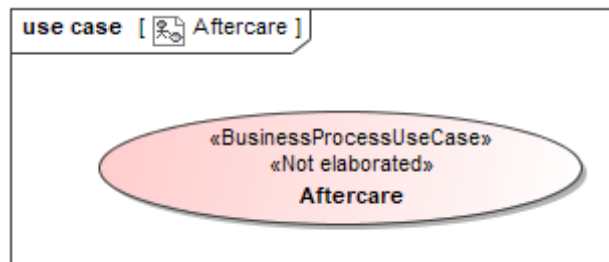


Figure 13 UseCase diagram: Aftercare

#### 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 Parties, 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 Accounting Points between grids

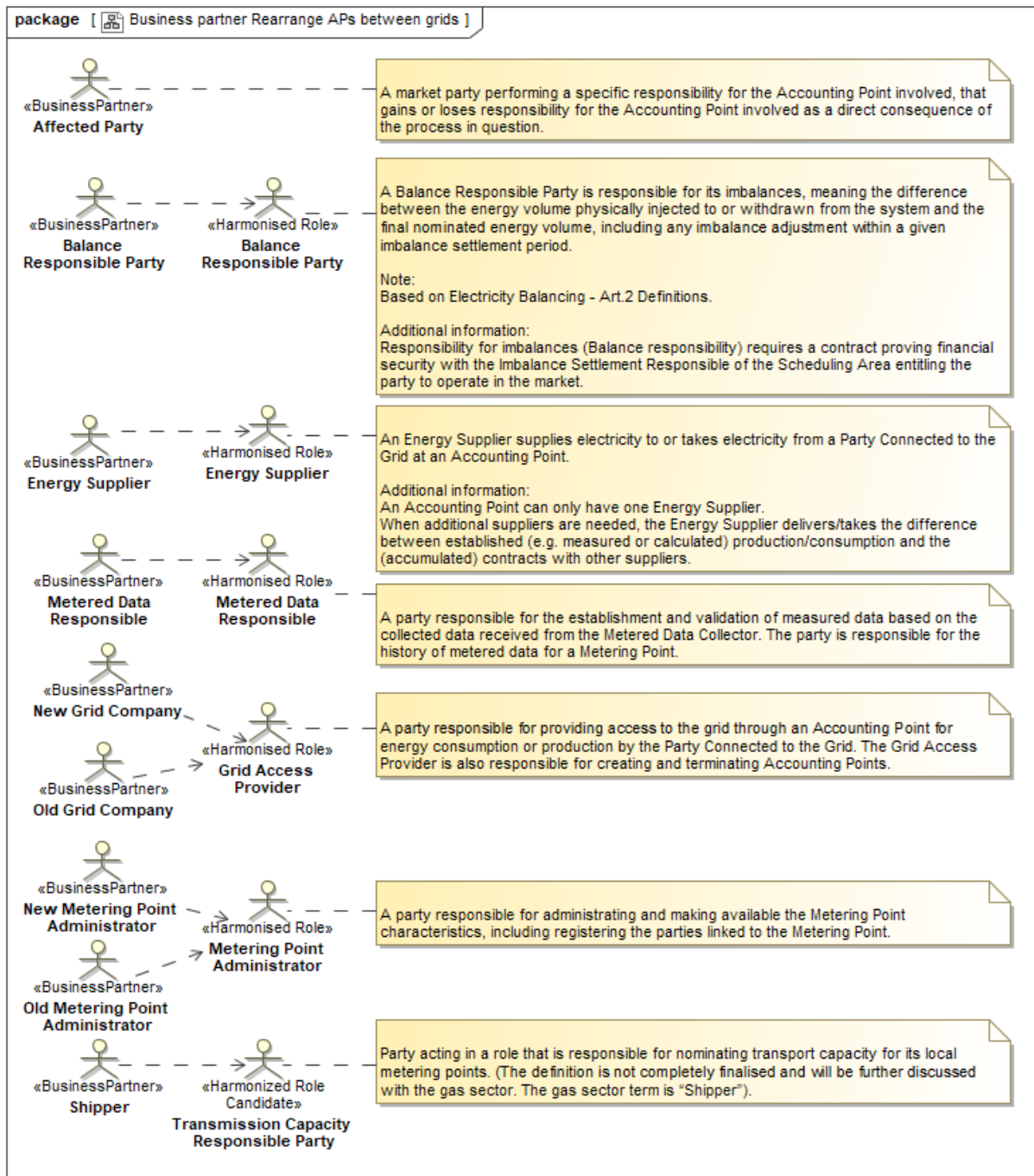


Figure 14 Business partners related to rearrange Accounting Points between grids

### 1.3 Business Entity View

A general introduction to the Business Entity View can be found in the Introduction to ebIX® Business Requirements and Business Information Models ( [4].

### 1.3.1 Request change grid responsibility (Class Diagram)

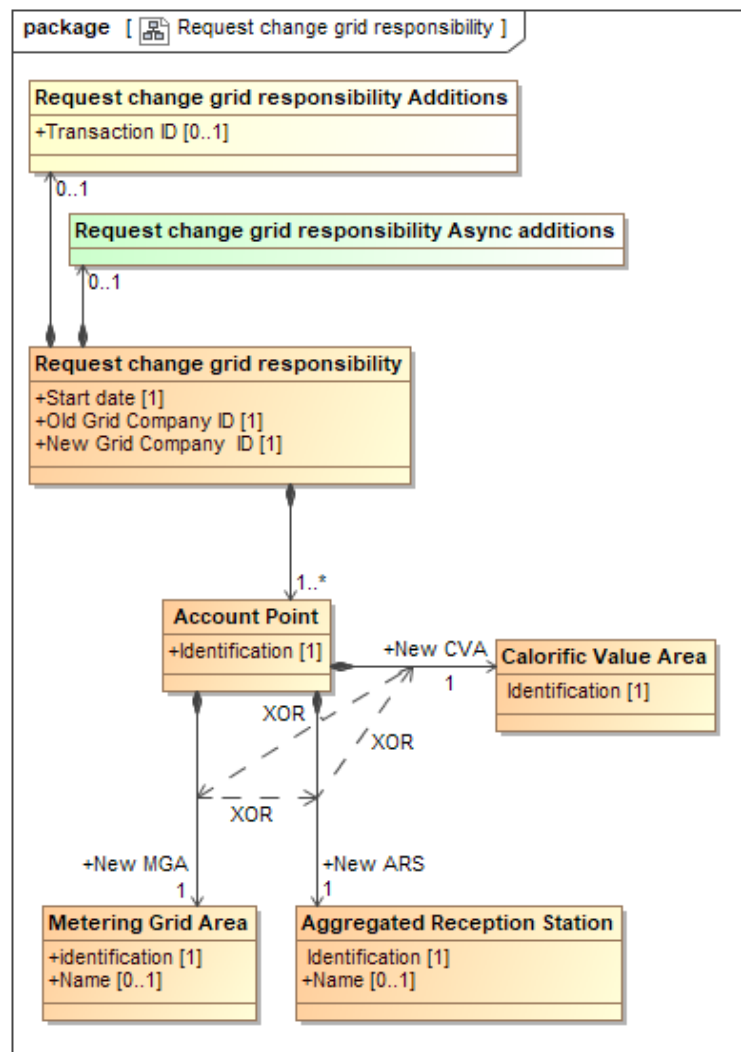


Figure 15 Request change grid responsibility

#### 1.3.1.1 Element definitions: Request change grid responsibility

| Class/attribute   | Sector <sup>2</sup> | Description  |
|---|---------------------|--|
| «Business entity»<br>Request change grid responsibility | Elec, Gas           | The information set to be sent from an Old Grid Company to the Metering Point Administrator when requesting change of grid responsibility for one or more Accounting Point(s). |
| Start date  | Elec, Gas           | The requested date for change of grid responsibility.  |

<sup>2</sup> It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

| Class/attribute                                    | Sector <sup>2</sup> | Description  |
|--|---------------------|--|
| Old Grid Company ID                                | Elec, Gas           | The unique identification of the Old Grid Company, who, till the change of grid responsibility, is responsible for providing access to the grid for the indicated Accounting Points.   |
| New Grid Company ID                                | Elec, Gas           | The unique identification of the New Grid Company, who, from the change of grid responsibility, will be responsible for providing access to the grid through the indicated Accounting Points.  |
| «Business entity»<br>Accounting Point              | Elec, Gas           | An entity where energy products are measured or computed.  |
| Identification                                     |                     | The unique identification of the Accounting Point, the change of grid is requested for.  |
| «Business entity»<br>Metering Grid Area            | Elec, Gas           | The New Metering Grid Area that this Accounting Point is moved to.   |
| Identification                                     | Elec, Gas           | The unique identification of the new Metering Grid Area to which this Accounting Point will belong after the change of grid.   |
| «Business entity»<br>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.<br><b>Dependency:</b> <ul style="list-style-type: none"> <li>Use either Aggregated Reception Station or Calorific Value Area.</li> </ul> |
| Identification                                     | Gas                 | The unique identification of the new Aggregated Reception Station to which this Accounting Point will belong after the change of grid.   |
| «Business entity»<br>Calorific Value Area          | Gas                 | A Calorific Value Area is a predefined set of Accounting points for which the same established calorific value is applied.   |
| Identification                                     | Gas                 | The unique identification of the new Calorific Value Area to which this Accounting Point will belong after the change of grid.   |
| 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.  |



### 1.3.2 Confirm request change grid responsibility (Class Diagram)

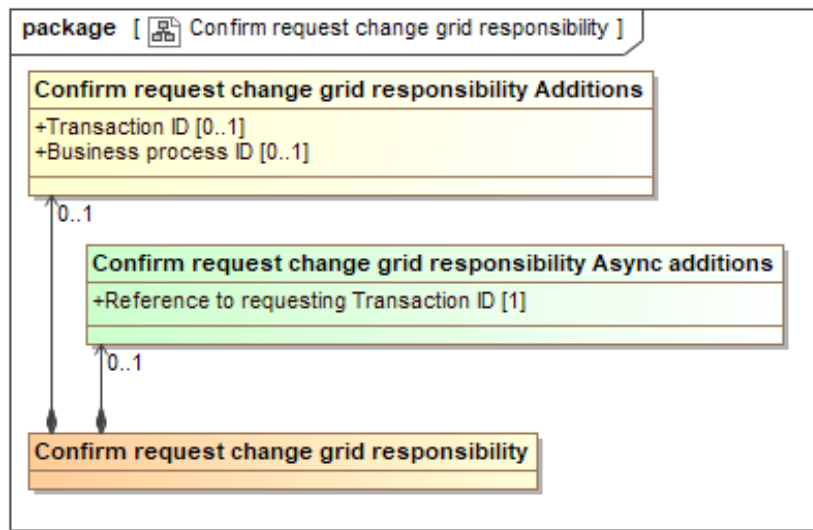


Figure 16 Confirm request change grid responsibility

#### 1.3.2.1 Element definitions: Confirm request change grid responsibility

| Class/attribute   | Sector <sup>3</sup> | Description   |
|---|---------------------|---|
| «Business entity»<br>Confirm request change grid responsibility | Elec, gas           | The information set to be sent from the Metering Point Administrator to the Old Grid Company when confirming a request for change of grid responsibility.<br><b>Note:</b> 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.  |
| 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.   |
| Reference to requesting Transaction ID                          | Elec, gas           | The Transaction ID from the request.  |

<sup>3</sup> It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

### 1.3.3 Reject request change grid responsibility (Class Diagram)

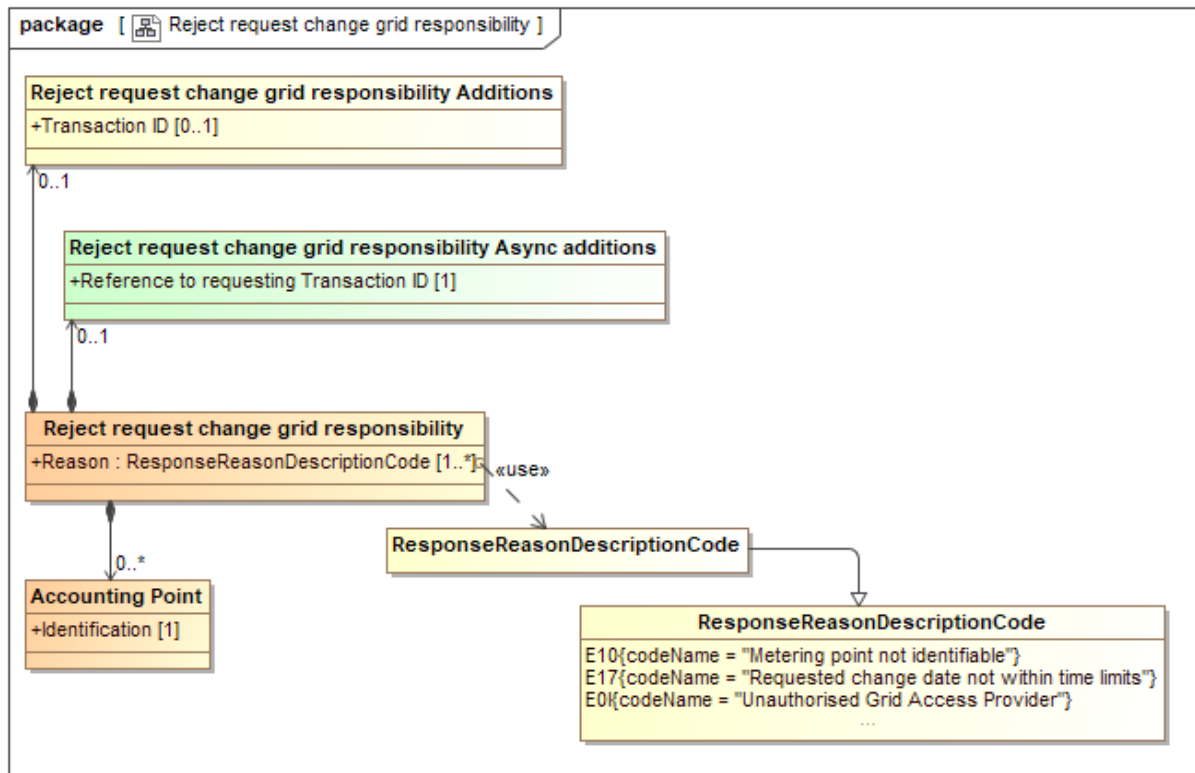


Figure 17 Reject request change grid responsibility

#### 1.3.3.1 Element definitions: Reject request change grid responsibility

| Class/attribute  | Sector <sup>4</sup> | Description  |
|--|---------------------|--|
| «Business entity»<br>Reject request change grid responsibility | Elec, gas           | The information set sent from the Metering Point Administrator to the Old Grid Company 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»<br>Accounting Point                          | Elec, gas           | An entity where energy products are measured or computed.  |
| Identification   | Elec, gas           | The unique identification of an Accounting Point the Request change grid responsibility was rejected for.  |

<sup>4</sup> It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

| Class/attribute   | Sector <sup>4</sup> | Description  |
|---|---------------------|--|
| 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.                              |
| 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. |
| Reference to requesting Transaction ID                    | Elec, gas           | The Transaction ID from the request, where this is the response for, given by the Initiator.                                 |

### 1.3.4 Notify change grid responsibility (Class Diagram)

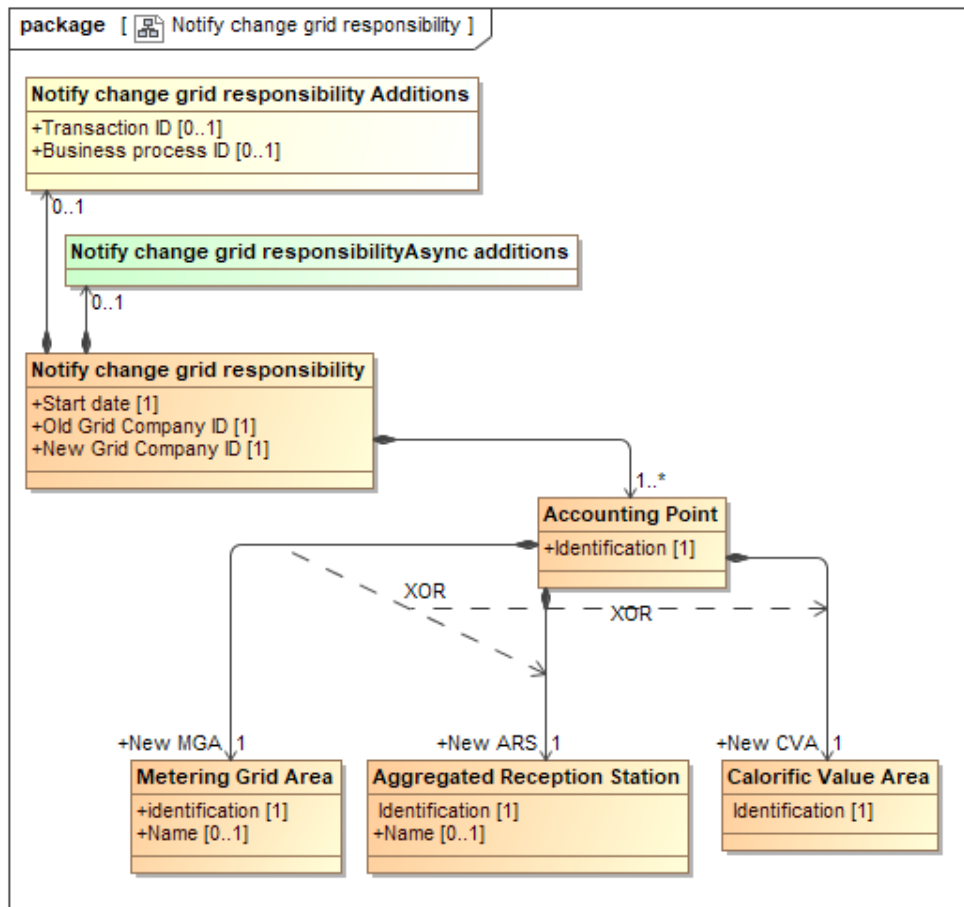


Figure 18 Notify change grid responsibility

#### 1.3.4.1 Element definitions: Notify change grid responsibility

| Class/attribute  | Sector <sup>5</sup> | Description   |
|--|---------------------|---|
| «Business entity»<br>Notify change grid responsibility | Elec, gas           | The information set to be sent from the Metering Point Administrator to the Affected Parties when notifying change of grid responsibility.        |
| Old Grid Company ID                                    | Elec, gas           | The unique identification of the Old Grid Company, who transfers responsibility for providing access to the grid through these Accounting Points. |
| New Grid Company ID                                    | Elec, gas           | The unique identification of the New Grid Company, who will become responsible for providing access to the grid through these Accounting Points.  |
| Start Date   | Elec, gas           | The date when the change of grid becomes effective.   |

<sup>5</sup> It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

|   |           |   |
|---|-----------|---|
| «Business entity»<br>Accounting Point             | Elec, gas | An entity where energy products are measured or computed.   |
| Identification                                    | Elec, gas | The unique identification of the Accounting Point the change of grid responsibility at the start date is notified for.  |
| «Business entity»<br>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 Accounting Points) and network losses. |
| Identification                                    | Elec      | The unique identification of the new Metering Grid Area to which this Accounting Point will belong to from the start date.  |
| «Business entity»<br>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.<br><br>Dependency: Use either Aggregated Reception Station or Calorific Value Area.   |
| Identification                                    | Gas       | The unique identification of the Aggregated Reception Station to which this Accounting Point will belong to from the start date.  |
| «Business entity»<br>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 Accounting Point will belong to from the start date.  |
| 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.   |

## Appendix A. Header and Context information for the class diagrams

### A.1. Header and Context Information attributes definitions

| Class/attribute                 | Sector <sup>6</sup> | Description   |
|---------------------------------|---------------------|---|
| Header and Context Information  |                     | The set of information specifying the information to be added to this payload to enable the exchange as a document.                             |
| Document Type                   |                     | A code representing the document type used for the exchange of this set of information.   |
| Business Reason                 |                     | A code representing the business reason for the exchange of this set of information.  |
| Ancillary Business Process Role |                     | A code representing the market role taking part in this exchange together with the Responsible Role, responsible for the process/this exchange. |

### A.2. Request change grid responsibility

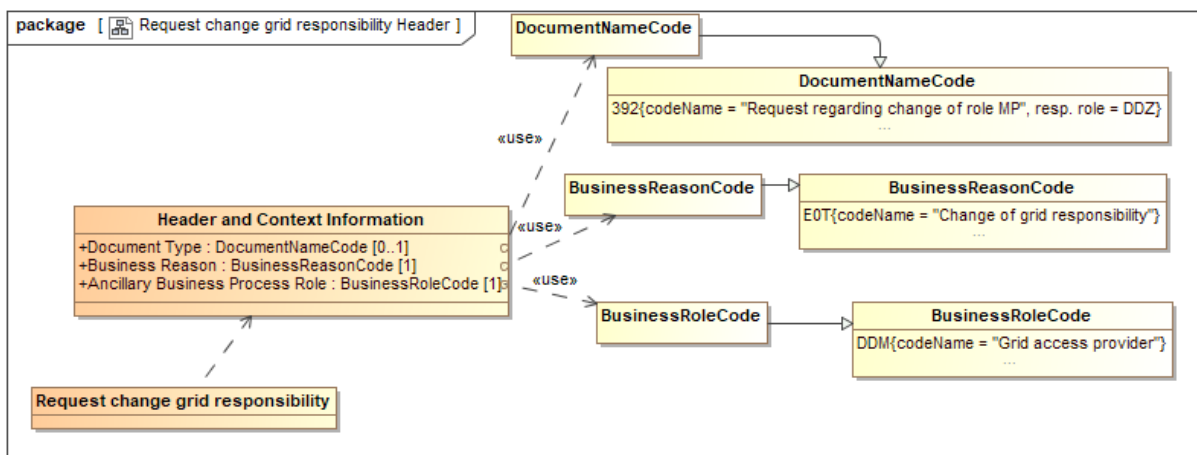


Figure 1 Class diagram: Header and Context information for request for change of grid responsibility

<sup>6</sup> It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

### A.3. Confirm request change grid responsibility

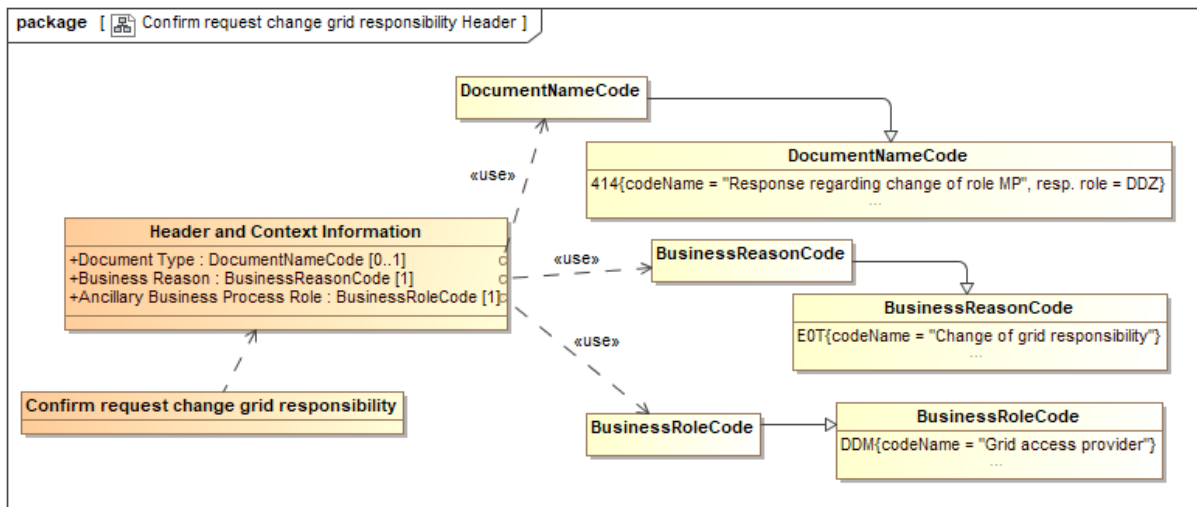


Figure 2 Class diagram: Header and Context information for confirmation of request for change of grid responsibility

### A.4. Reject request change grid responsibility

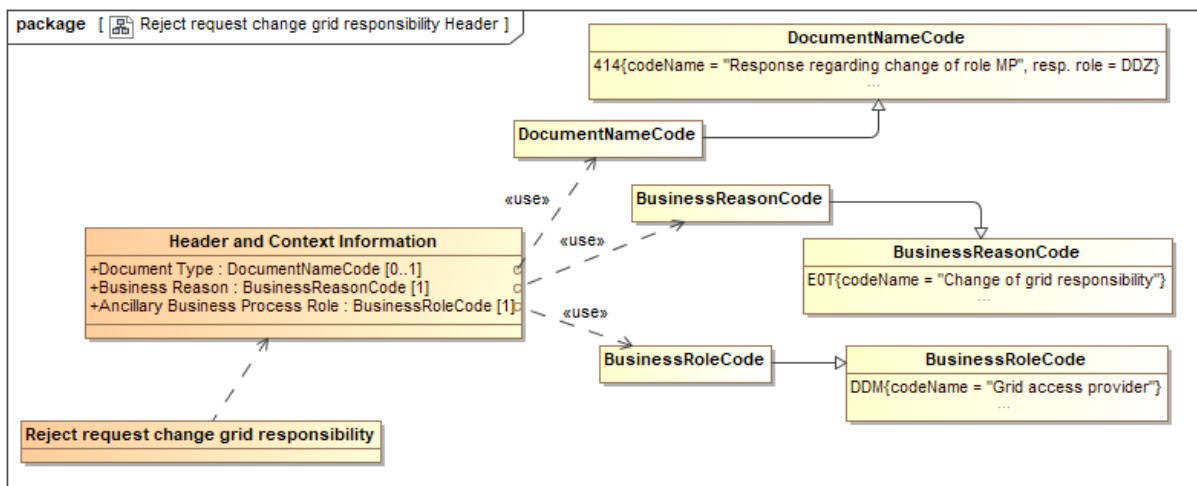


Figure 3 Class diagram: Header and Context for reject request of change of grid responsibility

### A.5. Notify change of grid responsibility

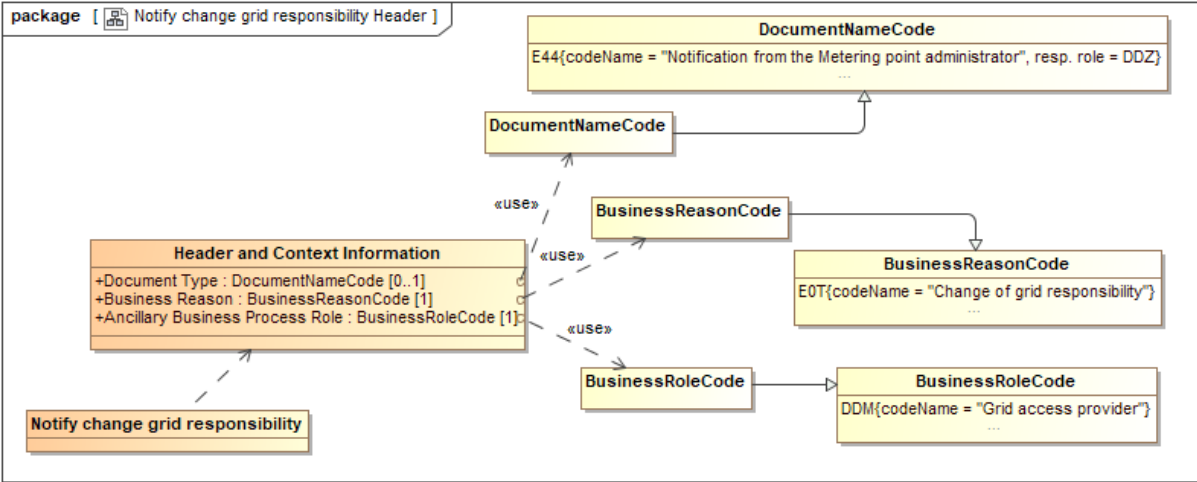


Figure 4 Class diagram: Header and Context information for notification of change of grid responsibility