



Business Requirements for change of Shipper

Status: Approved by ebIX® Forum
Version: 4.0
Revision: C
Date: December 2023

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A. About this document

This document is a Business Requirements Specification (BRS) for Change of Shipper process 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 [2].

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).

A.1.2. ebIX® Documents

- [4] Introduction to ebIX® Business Requirements and Business Information Models (www.ebix.org);
- [5] Recommended Identification Schemes for the European Energy Market (www.ebix.org);
- [6] ebIX® code lists (www.ebix.org);
- [7] ebIX® Business Requirements for measure for determine meter read (www.ebix.org);

[8] ebIX® Business Requirements for Alignment of Accounting Point Characteristics (www.ebix.org).

A.2. Main changes since last version

Old	New	Clarification	Date
Version 4.0			
3r2C	4.0.A	Recast of BRS	20190502
Version 4.0.A			
4.0.A	4.0.B	<ul style="list-style-type: none"> • Harmonised the introduction with other ebIX® BRSs. • Moved Reference to requesting Transaction ID to Async Additions. • Update of roles to be in line with the ebIX®, EFET and ENTSO-E Harmonised Electricity Market Role Model version 2022-01. • Hiding attributes from the root class in Appendix A, to make the class diagrams more readable. • Correction of spelling errors. 	20230815
4.0.B	4.0.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: Shipper

1.1. Change of Shipper (Business Process UseCase)

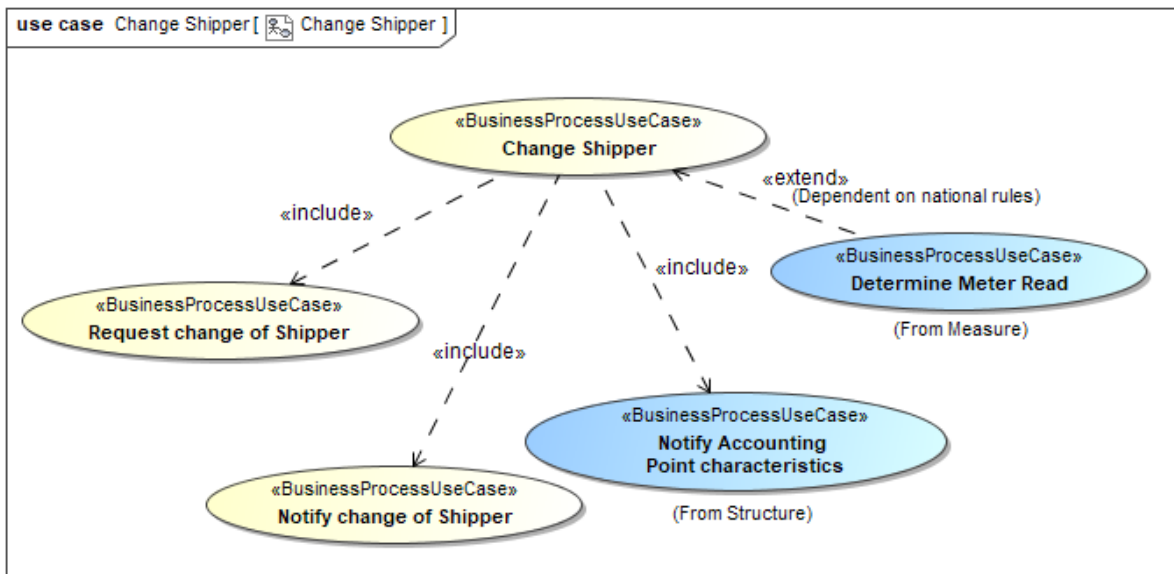


Figure 1 UseCase diagram: Change of Shipper

1.1.1. Description

UseCase description: Change of Shipper	
definition	This is the process where a New Shipper will be registered in the Metering Point administration at the request of the Energy Supplier for the Accounting Point. The Metering Point Administrator confirms the request, makes all necessary updates for the change and informs Affected Parties, including distribution of master data for alignment. Depending on national rules or needs of the involved parties, meter reads for the change of Shipper may have been determined and communicated.
beginsWhen	When the Energy Supplier decides to change the Shipper for the Accounting Point.
preCondition	The Energy Supplier supplies the Accounting Point. The New Shipper is authorised.
endsWhen	When the change of Shipper is confirmed, and all Affected Parties have been notified, Linked Parties have received master data and if applicable meter reads have been determined and communicated.
postCondition	The New Shipper is linked to the Accounting Point and all Affected Parties have been informed and Linked Parties have aligned master data.

	Depending on rules or needs the Affected Parties may have received meter reads for the change of Shipper.
exceptions	The request is rejected by the Metering Point Administrator. The change of Shipper may at a national level be handled by other roles than the Energy Supplier, such as the Shipper itself or the Party Connected to the Grid.
actions	See 1.1.2

1.1.2. Business Process

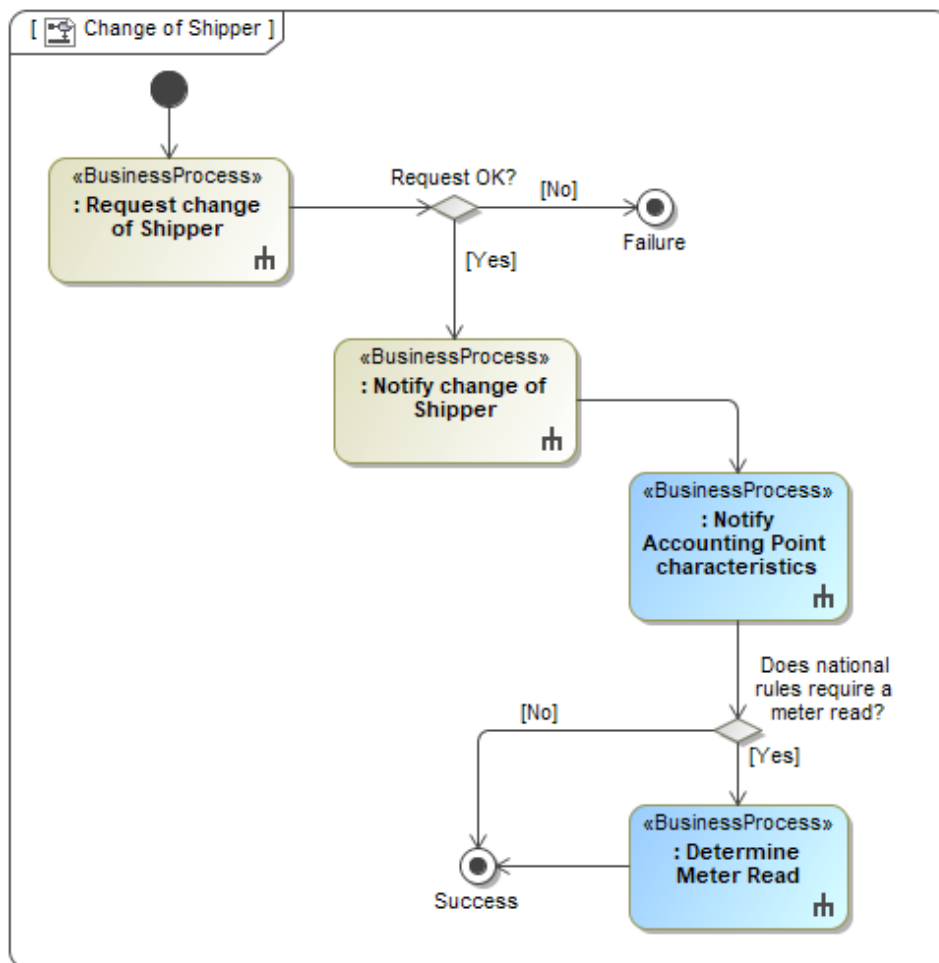


Figure 2 Business Process: change of Shipper

1.1.3. Request change of Shipper

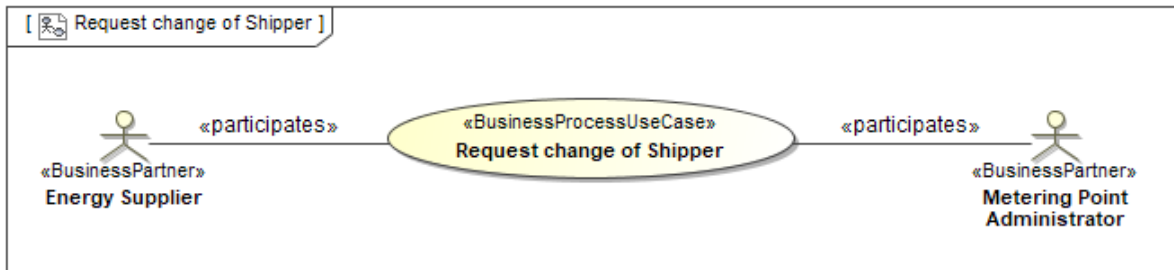


Figure 3 UseCase diagram: Request change of Shipper

1.1.3.1. Description

UseCase description: Request change of Shipper	
definition	In this process, the Energy Supplier requests a change of Shipper for an Accounting Point and the Metering Point Administrator confirms it.
beginsWhen	When the Energy Supplier decides to change the Shipper for an Accounting Point and sends a request to the Metering Point Administrator.
preCondition	The Energy Supplier is linked to the Accounting Point. The New Shipper is authorised.
endsWhen	When the Request change of Shipper is confirmed.
postCondition	The Request change of Shipper has been administered by the Metering Point Administrator and confirmed to the Energy Supplier.
exceptions	The request for change of Shipper is rejected by the Metering Point Administrator. The change of Shipper may at a national level be handled by other roles than the Energy Supplier, such as the Shipper itself or the Party Connected to the Grid.
actions	See 1.1.3.2

1.1.3.2. Business Process

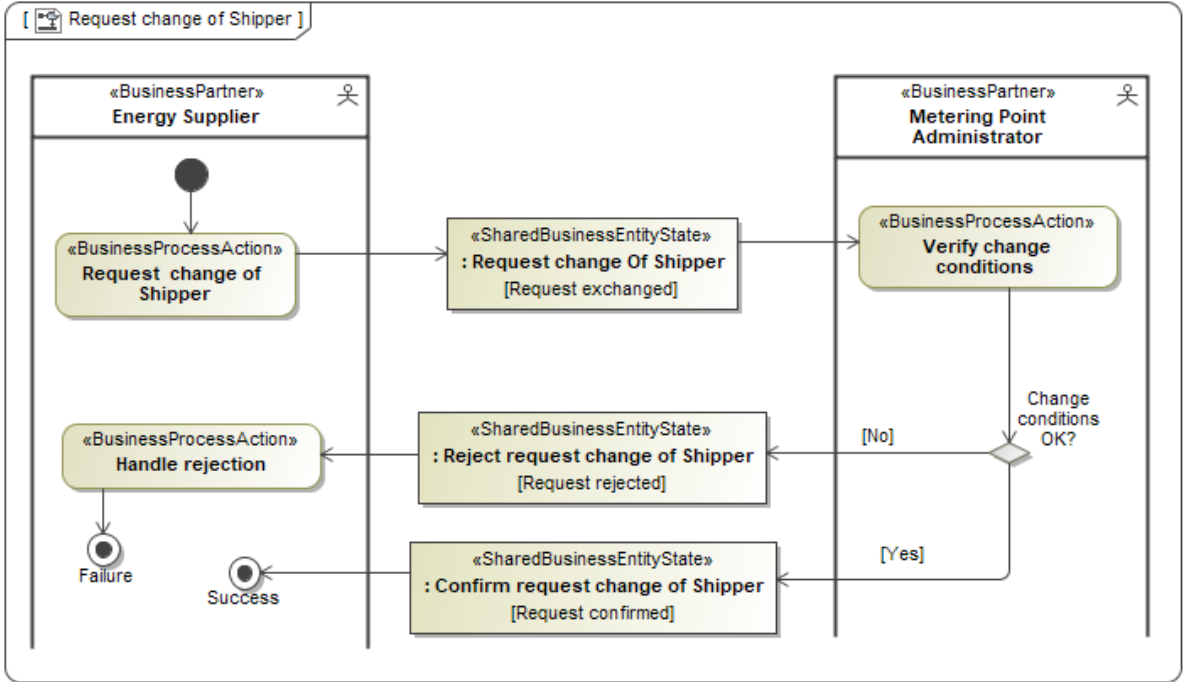


Figure 4 Business process: Request change of Shipper

1.1.4. Notify change of Shipper (Business Process UseCase)

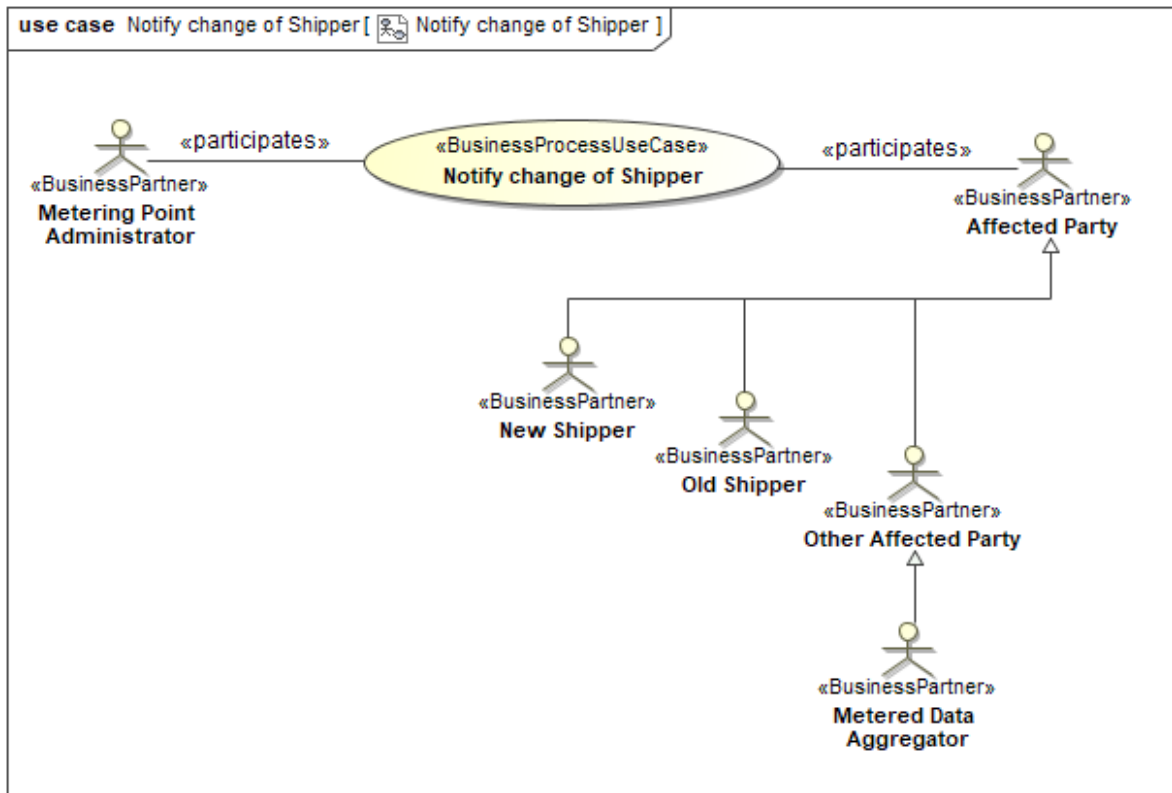


Figure 5 UseCase diagram: Notify change of Shipper

1.1.4.1. Description

UseCase description: Notify change of Shipper	
definition	The Metering Point Administrator notifies the Affected Parties, i.e. New and the Old Shipper and Other Affected Parties about the change of Shipper for the specified Accounting Point.
beginsWhen	When the Metering Point Administrator has confirmed the change of Shipper, to be defined by national rules
preCondition	The Metering Point Administrator has confirmed the Request change of Shipper.
endsWhen	When the New and the Old Shipper and Other Affected Parties have received the notification.
postCondition	The change of Shipper has been notified to the New and the Old Shipper and the Other Affected Parties.
exceptions	None.
actions	See 1.1.4.2

1.1.4.2. Business Process

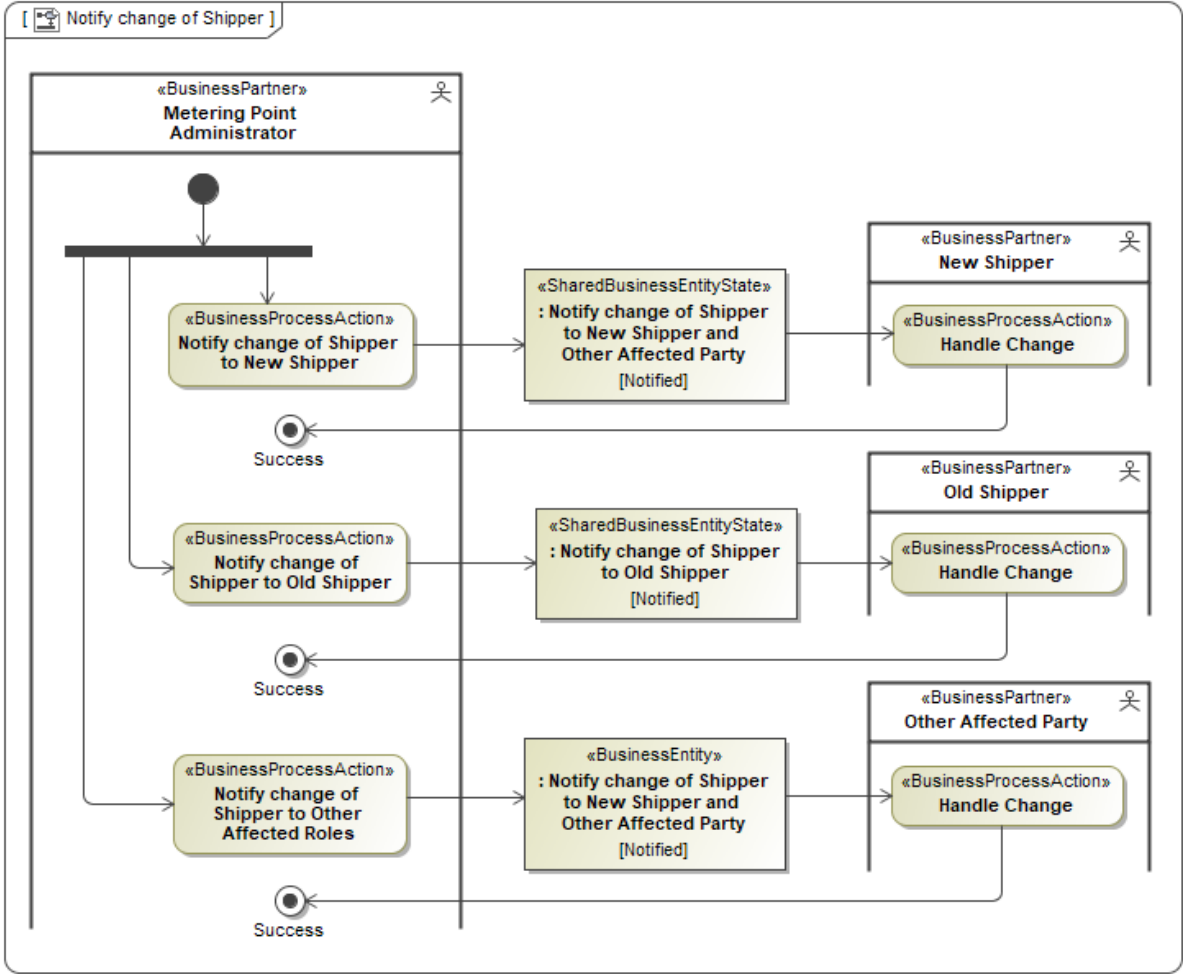


Figure 6 Business process: Notify change of Shipper

1.1.5. Notify Accounting Point Characteristics

In order for all Linked Parties to operate properly they will be notified with Accounting Point characteristics. *Notify Accounting Point Characteristics* is documented in a separate BRS, see 0. In this BRS (BRS for alignment of Accounting Point characteristics), the Linked Parties are specified.

1.1.6. Determine Meter Read

Optionally there may be a need for the Energy Supplier and/or Shippers or based on national rules to determine a meter read for the change of Shipper. The Process Area Determine Meter Read is documented in the ebIX® model Measure [8].

1.2. Business Partner View

1.2.1. Business Partner: Change of Shipper

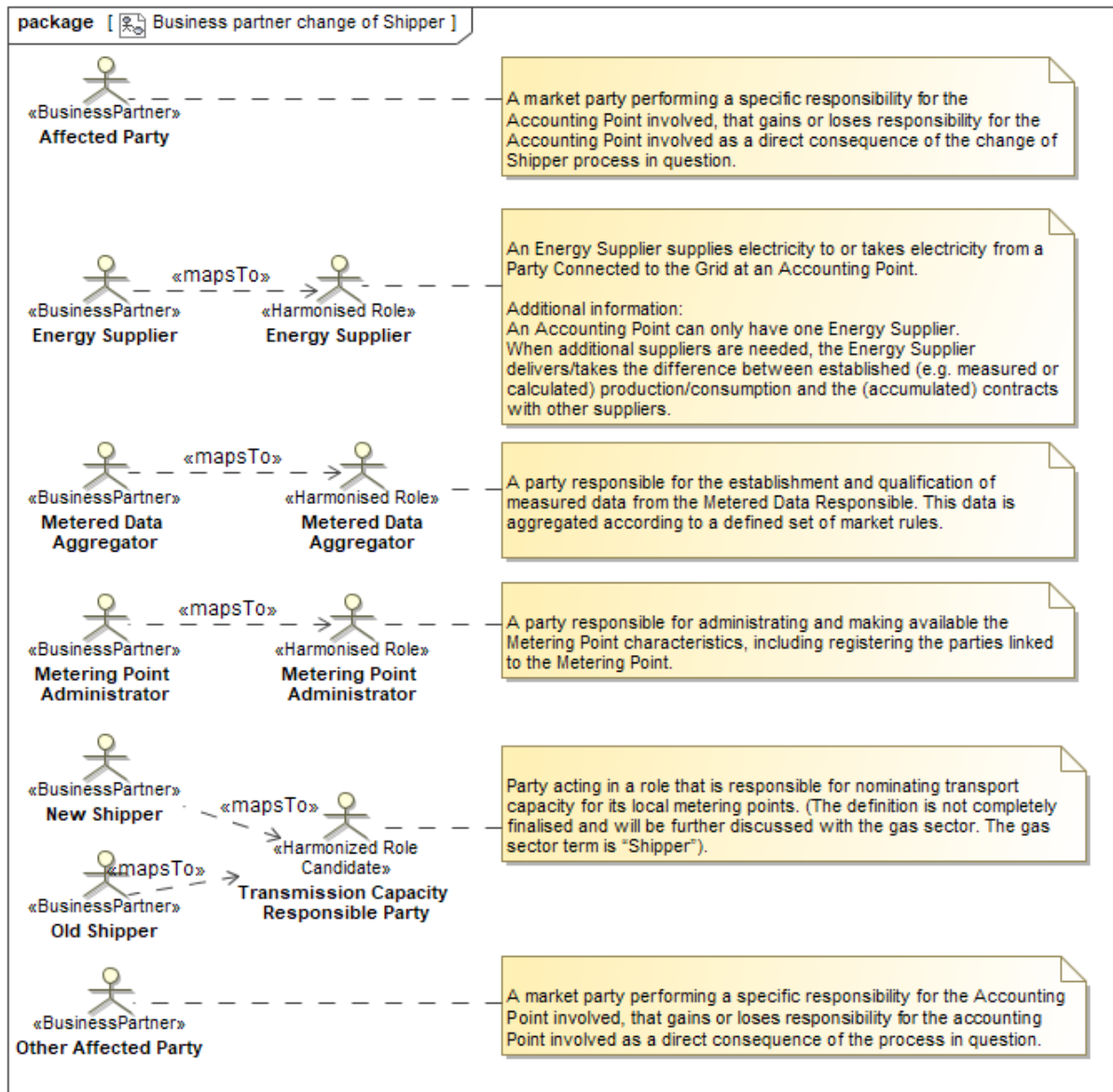


Figure 7 Business Partners: Change of Shipper

1.3. Business Entity View

1.3.1. Short introduction

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), [4].

1.3.2. Request change of Shipper (Class Diagram)

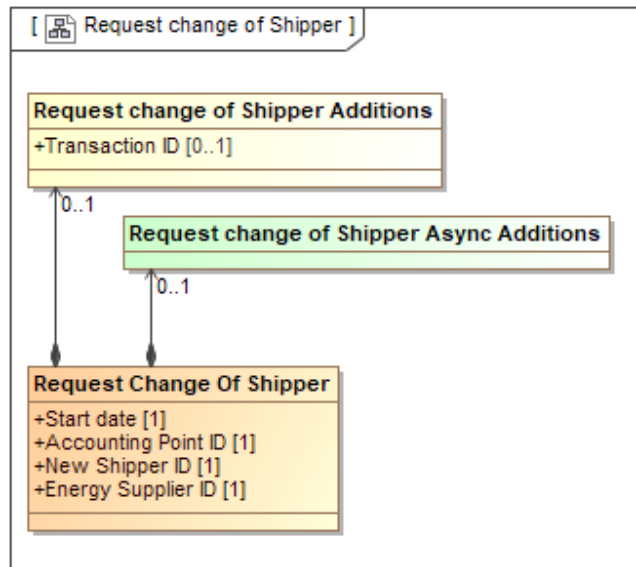


Figure 8 Class diagram: Request change of Shipper

1.3.2.1. Element definitions: Request change of Shipper

«Business entity» Request change of Shipper	The information set sent by an Energy Supplier to the Metering Point Administrator when requesting a change of Shipper for an Accounting Point.
Start date	The requested date for of the New Shipper to take over the transport capacity responsibility for this Accounting Point.
Accounting Point ID	The unique identification of the Accounting Point the change of Shipper is intended for.
New Shipper	The unique identification of the requested New Shipper.
Energy Supplier ID	The unique identification of the requesting Energy Supplier.
Request change of Shipper Additions	Additional information, related to change of Shipper, to be agreed on a national level.
Transaction ID	The unique identification of this set of information given by the requesting Energy Supplier.
Request change of Shipper Async Additions	Additional information, related to change of Shipper, needed when using asynchronous communication, however not used in this notification.

1.3.3. Confirm request change of Shipper (Class Diagram)

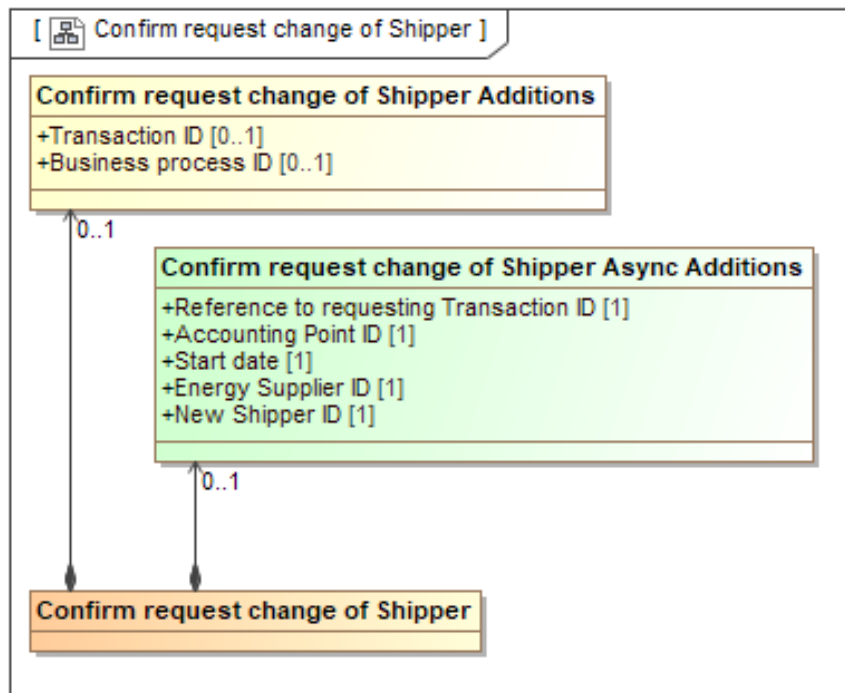


Figure 9 Class diagram: Confirm request change of Shipper

1.3.3.1. Element definitions: Confirm request change of Shipper

«Business entity» Confirm request change of Shipper	The information set sent by the Metering Point Administrator to the requesting Energy Supplier to confirm the requested change of Shipper.
Confirm request change of Shipper Additions	Information related to confirmation of change of Shipper, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the Metering Point Administrator.
Business process ID	The unique identification, given by the Metering Point Administrator, of this requested change of Shipper process that this response is a part of.
Confirm request change of Shipper Async Additions	Information related to the confirmation of change of Shipper, needed when using an asynchronous communication.
Reference to requesting Transaction ID	The Transaction ID from the request given by the requesting Energy Supplier.
Accounting Point ID	The unique identification of the Accounting Point this change of Shipper is confirmed for.
Start date	The confirmed date for the New Shipper to take over the transport capacity responsibility for this Accounting Point.
Energy Supplier ID	The unique identification of the requesting Energy Supplier.
New Shipper ID	The unique identification of the confirmed New Shipper.

1.3.4. Reject request change of Shipper (Class Diagram)

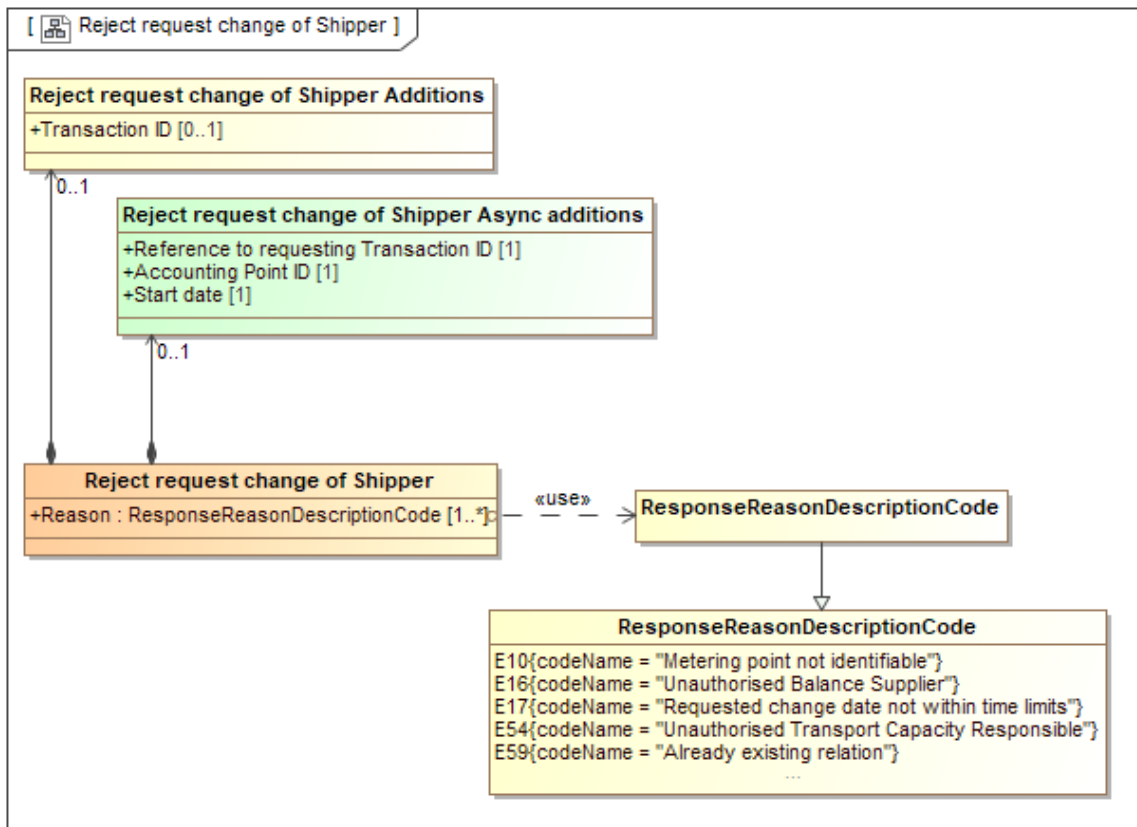


Figure 10 Class diagram: Reject request change of Shipper

1.3.4.1. Element definitions: Reject request change of Shipper

«Business entity» Reject request change of Shipper	The information set sent by the Metering Point Administrator to the requesting Energy Supplier to reject the requested change of Shipper.
Reason	A code specifying the reason for the rejection of the requested change of Shipper.
Reject request change of Shipper Async Additions	Additional information, related to the change of Shipper, needed when using asynchronous communication.
Reference to requesting Transaction ID	The Transaction ID from the request given by the requesting Energy Supplier.
Accounting Point ID	The unique identification of the Accounting Point this change of Shipper is rejected for.
Start date	The requested date for the change of Shipper that is rejected.
Reject request change of Shipper Additions	Information related to rejection of change of Shipper, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the Metering Point Administrator.

1.3.5. Notify change of Shipper to New Shipper and Other Affected Party (Class Diagram)

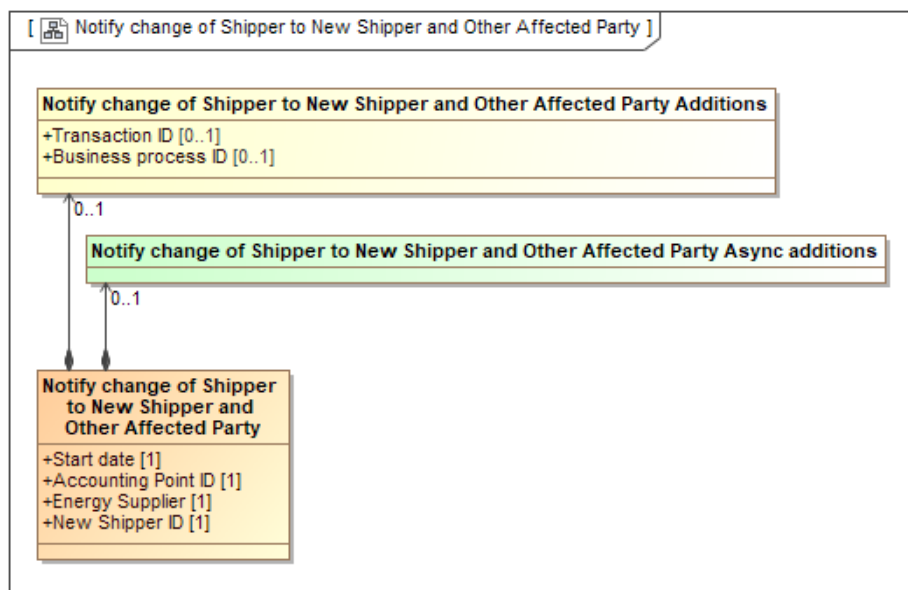


Figure 11 Class diagram: Notify change of Shipper to New Shipper and Other Affected Party

1.3.5.1. Element definitions: Notify change of Shipper to New Shipper and Other Affected Party

«Business entity» Notify change of Shipper to New Shipper and Other Affected Party	The information set sent by the Metering Point Administrator to of the New Shipper and Other Affected Party to notify this change of Shipper.
Start date	The date for the New Shipper to take over the transport capacity responsibility for this Accounting Point.
Accounting Point ID	The unique identification of the Accounting Point this change of Shipper is notified for.
Energy Supplier ID	The unique identification of the Energy Supplier that is responsible for supplying the Accounting Point
New Shipper ID	The unique identification of the New Shipper that takes over the balance responsibility for this Accounting Point.
Notify change of Shipper to New Shipper and Other Affected Party Additions	Additional information, related to the notification of change of Shipper, to New Shipper and Other Affected Party, to be agreed on a national level.
Transaction ID	The unique identification of this set of information given by the Metering Point Administrator.
Business process ID	The unique identification, given by the Metering Point Administrator, of this change of Shipper process that this notification is a part of.

Notify change of Shipper to New Shipper and Other Affected Party Async Additions	Additional information, related to the change of Shipper, to the New Shipper and Other Affected Party, when using asynchronous communication, however not used in this notification.
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1.3.6. Notify change of Shipper to Old Shipper (Class Diagram)

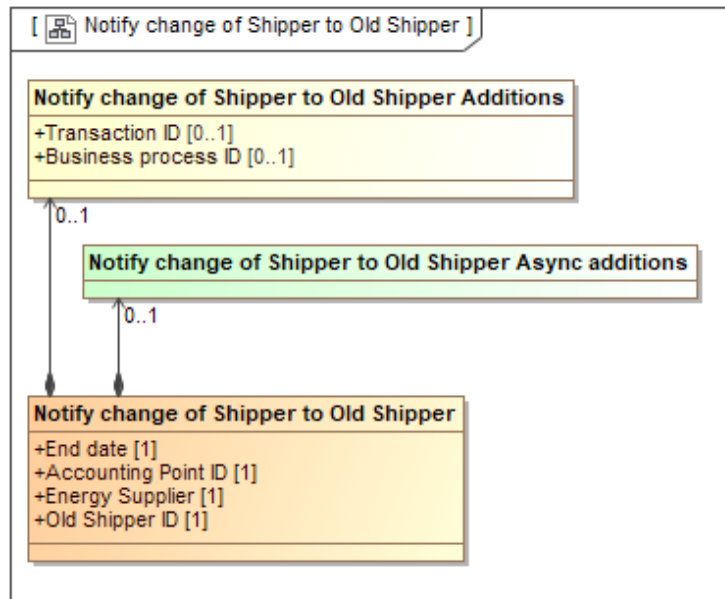


Figure 12 Class diagram: Notify change of Shipper to Old Shipper

1.3.6.1. Element definitions: Notify change of Shipper to Old Shipper

«Business entity» Notify change of Shipper to Old Shipper	The information set to be exchanged when notifying change of Shipper, sent by the Metering Point Administrator to the Old Shipper to, notify his end of transport capacity responsibility by this change of Shipper.
End date	The date from when the Old Shipper no longer has the transport capacity responsibility for this Accounting Point.
Accounting Point ID	The unique identification of the Accounting Point this change of Shipper is notified for.
Energy Supplier ID	The unique identification of the Energy Supplier that is responsible for supplying the Accounting Point
Old Shipper ID	The unique identification of the Old Shipper that is responsible for transport capacity for the Accounting Point until the date for which this change of Shipper takes place.
Notify change of Shipper to Old Shipper Additions	Additional information, related to the notification of change of Shipper, to Old Shipper, to be agreed on a national level.
Transaction ID	The unique identification of this set of information given by the Metering Point Administrator.
Business process ID	The unique identification, given by the Metering Point Administrator, of this change of Shipper process that this notification is part of.
Notify change of Shipper to Old Shipper Async Additions	Additional information, related to the change of Shipper, to the Old Shipper, when using asynchronous communication, however not used in this notification.

Appendix A. Header and Context information for the class diagrams

A.1. Header and Context Information attributes definitions

Class/attribute	Sector ¹	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 of Shipper

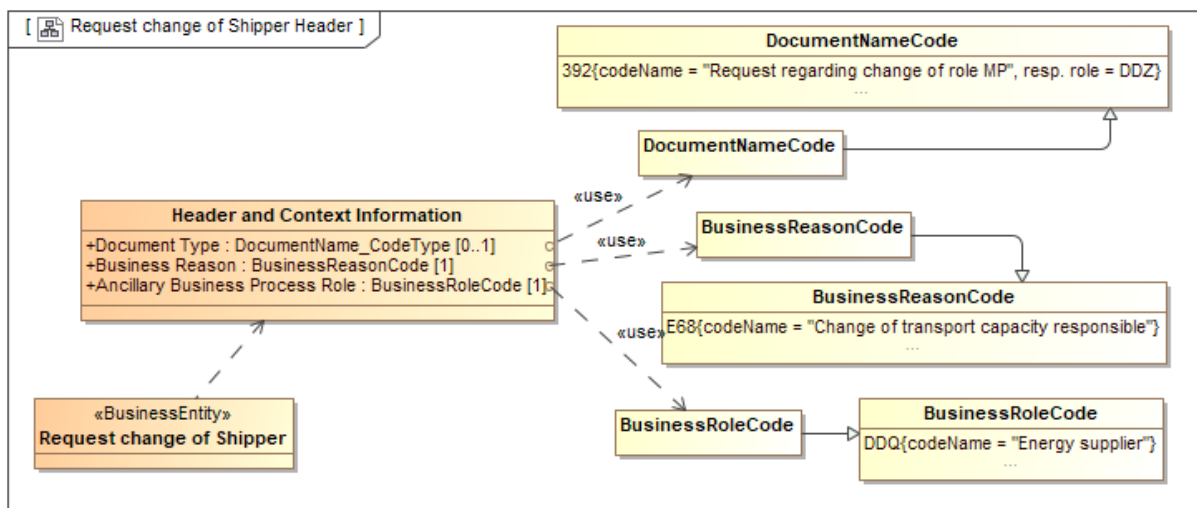


Figure 13 Class diagram: Header and Context Information: Request change of Shipper

¹ It is assumed that Metering Points are uniquely dedicated to either electricity or to gas.

A.3. Confirm request change of Shipper

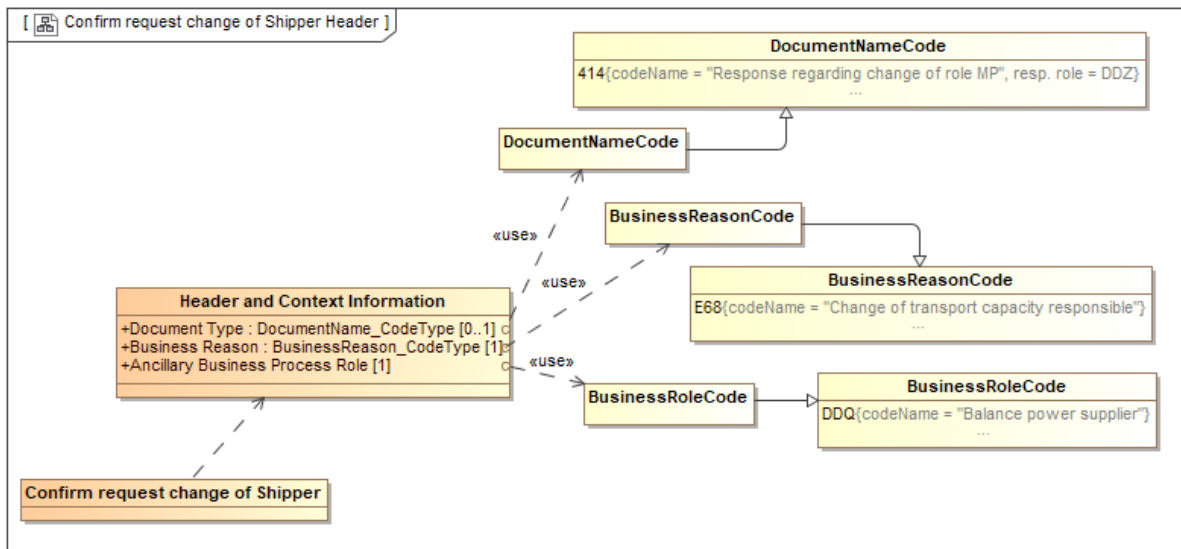


Figure 14 Class diagram: Header and Context Information: Confirm request change of Shipper

A.4. Reject request change of Shipper

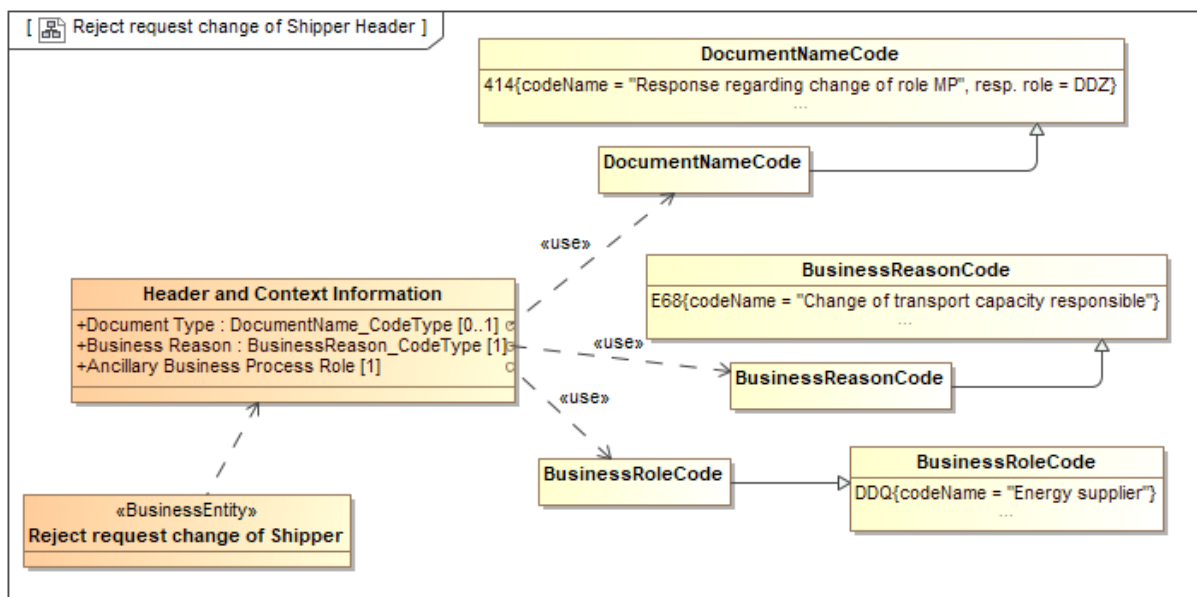


Figure 15 Class diagram: Header and Context Information: Reject request change of Shipper

A.5. Notify change of Shipper to New Shipper and Other Affected Party

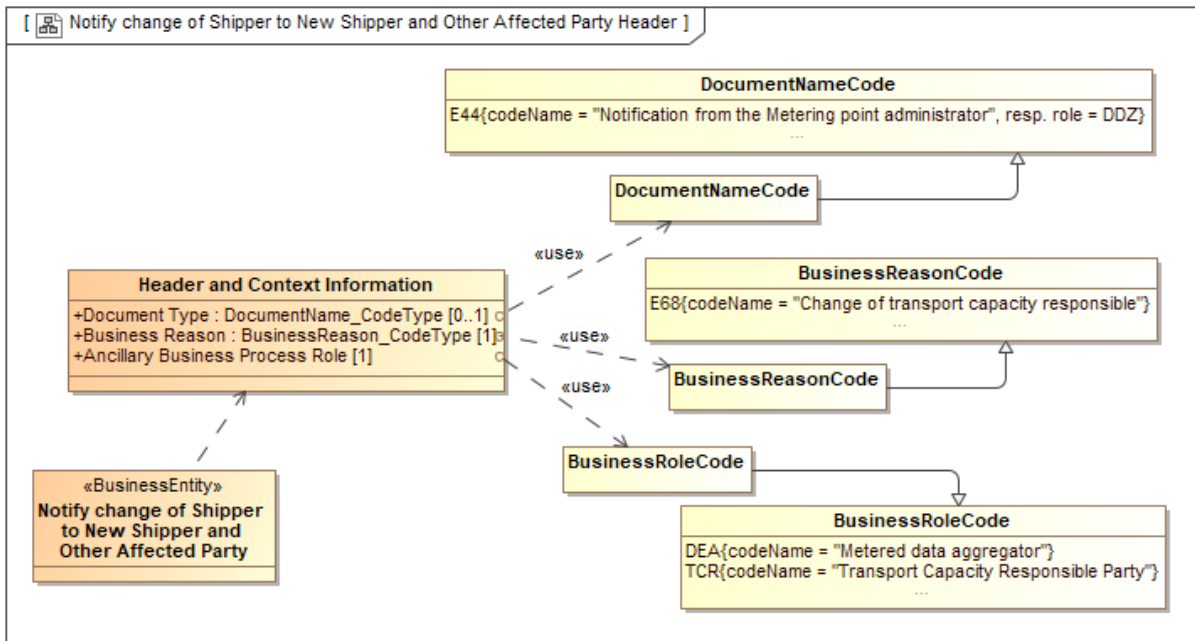


Figure 16 Class diagram: Header and Context Information: Notify change of Shipper to New Shipper and Other Affected Party

A.6. Notify change of Shipper to Old Shipper

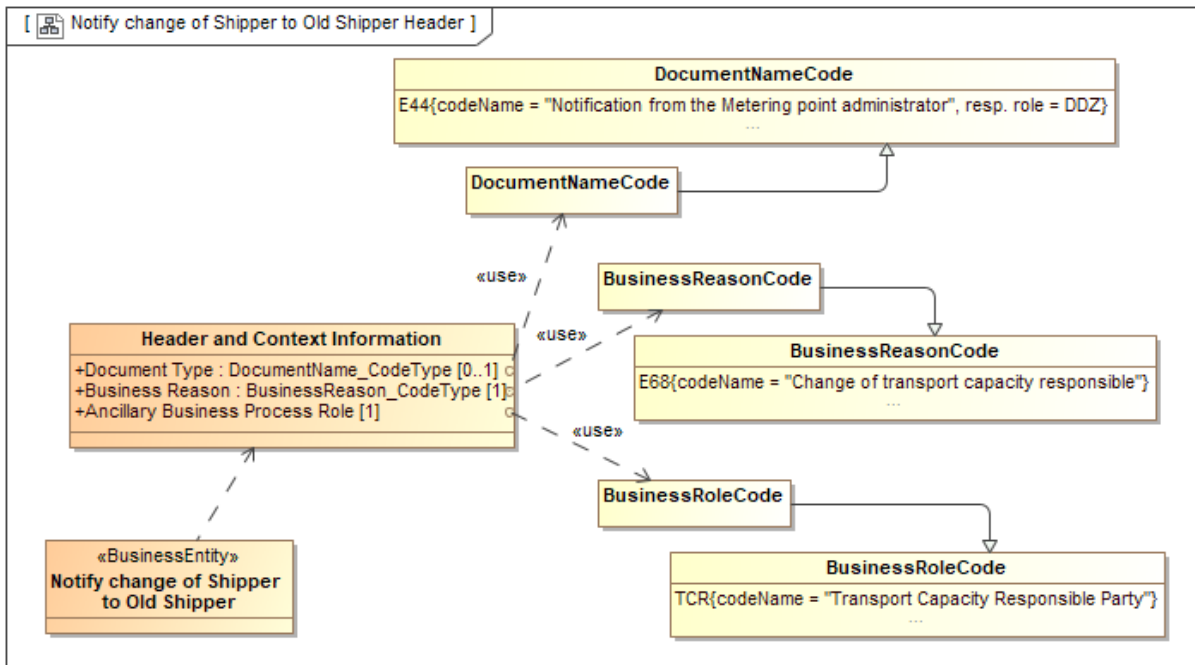


Figure 17 Class diagram: Header and Context Information: Notify change of Shipper to Old Shipper