



Business Requirements for Administration of consent

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A. About this document

This document is a business requirements specification for the process of administration of consents for third party access to energy related data and measured data, within the structuring process of the European energy market.

The main UseCase covered by this BRS is limited to data related to an Accounting Point.

The administration of Customer consent related to Accounting Point information is a process where the Customer can give, withdraw and maintain access to information of his Accounting Point for third parties, such as Energy Service Companies (ESCO) or Flexibility Service Providers (FSP), but also to other Suppliers in a prospecting phase. The GDPR enforces explicit Customer consent before exchanging privacy related data from the Customer to parties that do not have access to data by other legal reasons.

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® Business Group (EBG) 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).

A.1. 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 EBG, see www.ebix.org. For comments to the document please contact the secretary@ebix.org.

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 Accounting Point characteristics (www.ebix.org)
- [6] Recommended Identification Schemes for the European Energy Market (www.ebix.org)
- [7] ebIX® code lists (www.ebix.org)
- [8] ebIX® BRS for Customer Move (www.ebix.org)

A.3. Main changes since last version

Old	New	Clarification	Date
1.0.A			
	Approved by ebIX® Forum.	First published version.	20190327
1.1.A			
	Approved by ebIX® Forum.	Addition of clarifications based on comments from Elering.	20190905
1.1.B			
	Approved by ebIX® Forum.	Correction of text in the precondition in chapter 1.1.3.2.2.1.	20190911

1 Business Requirements View: Administer consent

1.1 Business Domain View: Administer Customer consent for Accounting Point related information

1.1.1 Basic principles and definitions

For the administration of Customer consent for Accounting Point related information:

- The Customer of an energy product is a “legal entity”, being a natural person or an organisation and is identified by a unique ID;
- There is a unique association (link) between one Customer and one Accounting Point;
- The consent is given for the unique combination of one Customer and one Accounting Point;
- The primary aim of this UseCase is consent given by a natural person;
- The unique linking of the Customer to an Accounting Point is handled as a part of the Move In process (see [8]). The link is assumed to be registered in the Metering Point Administration;
- The processes request-, give and withdraw consent apply to one Accounting Point;
- Update of a consent is done by first withdrawing the current consent and thereafter giving a new consent;
- In an interaction it may be possible to indicate all Accounting Points the Customer is linked to in the Metering Point administration. When a request is confirmed or rejected, an ebIX® principle is that it must be for all Accounting Points in the request. In a rejection, the rejected Accounting Points may be listed for information;
- In this Use Case the term “Specific Party” is used for a party in a certain role in the market, such as an Energy Supplier, an Energy Service Company (ESCO) or a Flexibility Service Provider (FSP), which is the subject of the consent from a Customer, i.e. the actual recipient of the intended customer-data for which the Customer has given its consent;
- In this UseCase we only specify the consent for situations where the Customer is linked to the Accounting Point;
- It is assumed that all consents for an Accounting Point are ended when the Customer moves out of this Accounting Point. It is advised that the Metering Point Administrator notifies the move out to the Consent Administrator.
- The process where a Customer gives someone else consent to act on behalf of the Customer is seen as a power of attorney, hence not a part of this BRS.
- This BRS covers all cases of giving explicit consent. This means that implicit consent to use the Customers data as a consequence of a contractual agreement, such as when changing supplier, is not supposed to be part of this BRS. The implicit consent may be defined in national legislation or in a contract. In case of contractual agreements, the consent is not explicitly registered in the consent administration.
- We assume there is a “my page” functionality where the Customer can consult its consents, such as getting a list of active consents.

1.1.2 Introducing the Consent Administrator

The Consent Administrator in this context is:

A party responsible for keeping a register of consents, given for a specified period for a certain set of data for an Accounting Point by the Customer to a Specific Party. The Consent Administrator makes this information available on request for entitled parties in the sector.

The Consent Administrator must be contacted by all roles in a market that need to distribute customer data to parties that do not have a regulated right for the data. Therefore, we recommend that there is only one Consent Administrator for a Metering Grid Area or even better for a country.

1.1.3 Administer Customer consent for Accounting Point related information (Business Process UseCase)

The GDPR requires that natural persons give explicit consent to Specific Parties to use their personal data. Most of the data of the processes around the Accounting Point of that natural person is regarded as personal data¹. Therefore, it is vital that the right natural person is linked to the right Accounting Point. Identification of that natural person may be required to make a good link, where potentially the identification service of a market-external identity provider may be used.

For this UseCase it is assumed that the unique link of a natural person to an Accounting Point is done in the Move-in process (see [8]).

The identification of the Customer is here assumed to be done by the unique ID of that Customer. If a unique ID of the Customer is not available in a market, an extra ID may be given for the unique link between the Customer and the Accounting Point that can be used for this purpose.

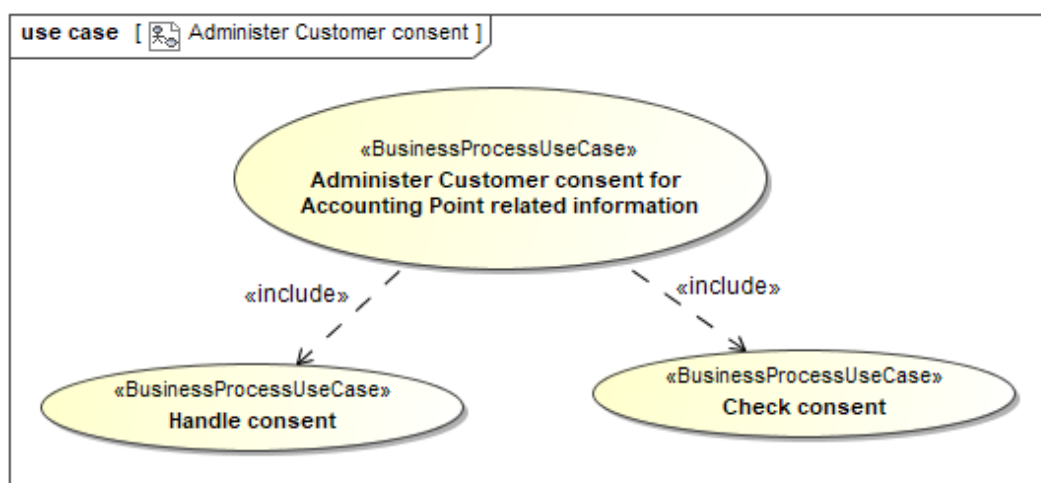


Figure 1 UseCase diagram: Administer Customer consent for Accounting Point related information

1.1.3.1 Description

UseCase description: Administer Customer consent for Accounting Point related information	
definition	<p>In this process, the Customer handles its consent to a Specific Party to use a specific dataset, for a specific period in the consent administration.</p> <p>Further, data provider(s) can check the Customer's consent to the recipient of the data (the Specific Party) in the consent administration before distribution of customer data.</p>
beginsWhen	When there is a need to access customer-data by a Specific Party and the Customer intends to give consent to that Specific Party for that access.

¹ See the ebIX GDPR classification of ebIX entities at www.ebix.org.

preCondition	<p>A Specific Party wants access to customer-data for which a Customer consent is needed.</p> <p>The Customer is willing to give his consent for data access to that Specific Party.</p>
endsWhen	<p>When all the consents for the Customer in the consent administration either have expired or have been withdrawn.</p>
postCondition	<p>All consents for the Customer in the consent administration have expired, have been withdrawn or the Customer has moved out of the Accounting Point².</p>
exceptions	<p>None</p>
actions	<p>Not relevant at this level.</p>

² If a person being a Customer dies, we assume she/he will be moved out of the Accounting Point.

1.1.3.2 Handle consent (Business Process UseCase)

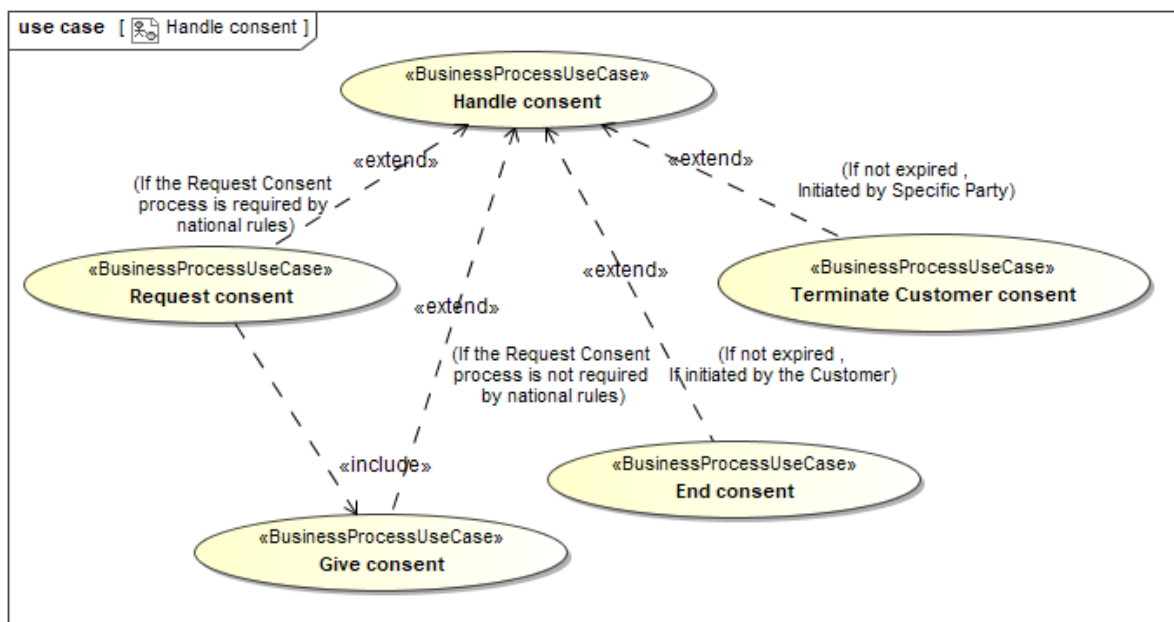


Figure 2 UseCase diagram: Handle consent

1.1.3.2.1 Description

UseCase description: Handle consent	
definition	<p>In this process, the Customer gives or optionally withdraws its consent to a Specific Party to use a specific dataset regarding the Accounting Point, for a specific period. The consent is administered in the consent administration.</p> <p>Based on national rules, the Specific Party may (have to) request the consent to the Consent Administrator, before the Customer can give the consent.</p> <p>Additionally, the Specific Party may (have to) notify the termination of the consent when his contract with the Customer ends.</p>
beginsWhen	When there is a need to access customer data by a Specific Party.
preCondition	<p>A Specific Party wants access to data related to the Accounting Point of a Customer.</p> <p>The Customer is in principle willing to give consent to the Specific Party.</p>
endsWhen	When the Customer has withdrawn the consent to data related to its Accounting Point, or the consent of the Customer has expired, or the Customer moved out of the Accounting Point, or the Specific Party has terminated the consent.
postCondition	The consent from the Customer for the Accounting Point in the consent administration is ended (either withdrawn, expired, terminated or the Customer has moved out).
exceptions	None

actions	Not valid at this level.
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1.1.3.2.2 Request consent (Business Process UseCase)

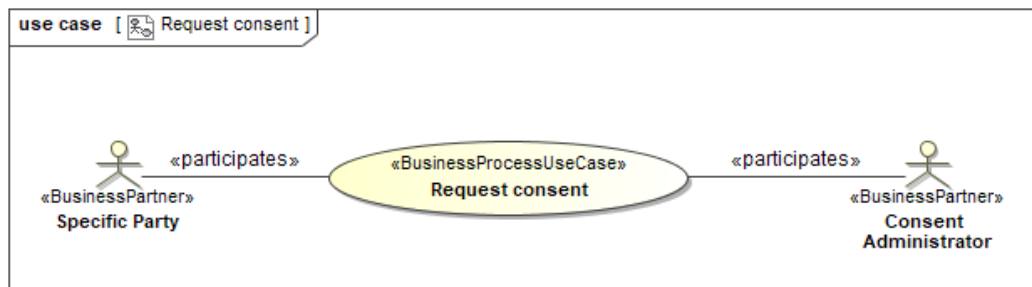


Figure 3 UseCase diagram: Request consent

1.1.3.2.2.1 Description

UseCase description: Request consent	
definition	In this process, the Specific Party requests a consent to use the specified dataset of the Accounting Point for a specific purpose and period, by sending a request to the Consent Administrator and the Consent Administrator confirms it.
beginsWhen	When the Specific Party wants a consent for an Accounting Point from the Customer.
preCondition	<p>The Specific Party needs a consent from a Customer and the Customer has agreed that the Specific Party can request a consent.</p> <p>The Specific Party is known by the Consent Administrator.</p> <p>There is a national rule that the consent is or may be requested by the Specific Party via the consent administration before the Customer accepts the consent in the consent administration.</p>
endsWhen	When the request for Customer consent has been confirmed by the Consent Administrator.
postCondition	The request for Customer consent is accepted in the consent administration.
exceptions	The request for Customer consent has been rejected.
actions	See 1.1.3.2.2.2

1.1.3.2.2.2 Business process

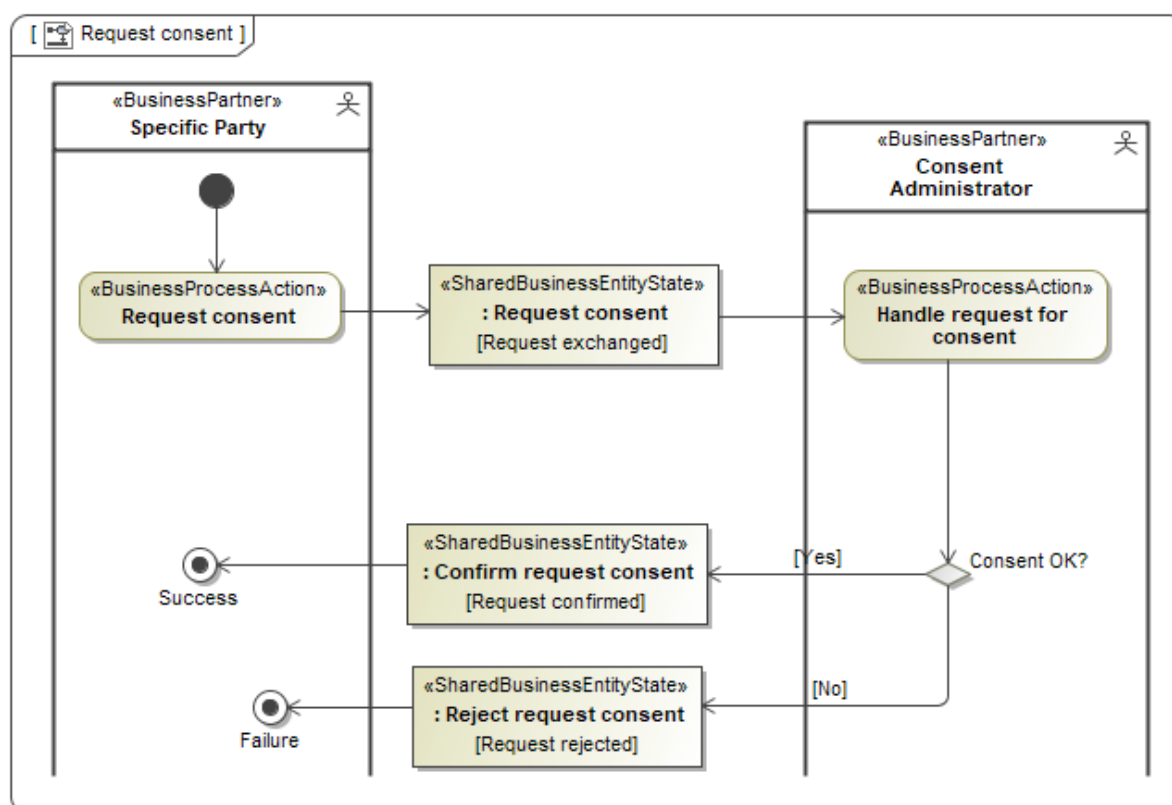


Figure 4 Business Process: Request consent

1.1.3.2.3 Give consent (Business Process UseCase)

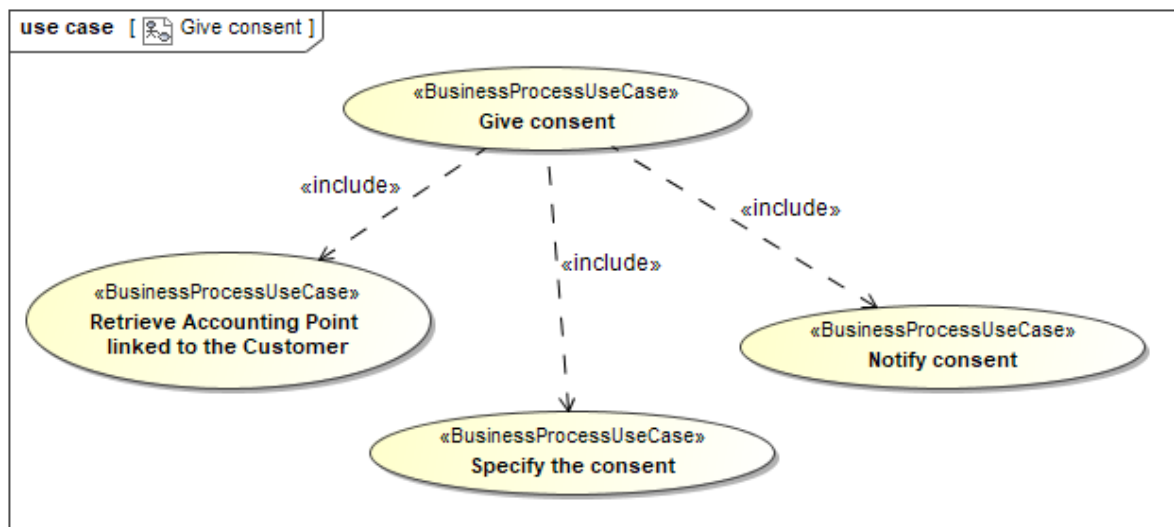


Figure 5 UseCase diagram: Give consent

1.1.3.2.3.1 Description

UseCase description: Give consent	
definition	<p>In this process, the Customer identifies itself³ for the Consent Administrator and gives its consent to a Specific Party to use a specified dataset of the Accounting Point for a specified period.</p> <p>The Specific Party will be notified that the consent is given to him by the Customer.</p>
beginsWhen	When there is a need for the Customer to give consent to a Specific Party to access the dataset of the Accounting Point.
preCondition	<p>The Customer wants to give consent to a Specific Party for access to a specified dataset of the Accounting Point.</p> <p>The link between the Customer and the Accounting Point is defined.</p>
endsWhen	When the Customer consent has been registered by the Consent Administrator for the Specific Party for a given dataset of the Accounting Point and specified period, and the Specific Party is notified.
postCondition	Customer consent for the Specific Party to use the dataset of the Accounting Point for a specified period, is ready for use in the consent administration. The Specific Party is informed.

³ Potentially the Consent Administrator will use an external Identity Provider.

exceptions	None
actions	See 1.1.3.2.3.2

1.1.3.2.3.2 Business process

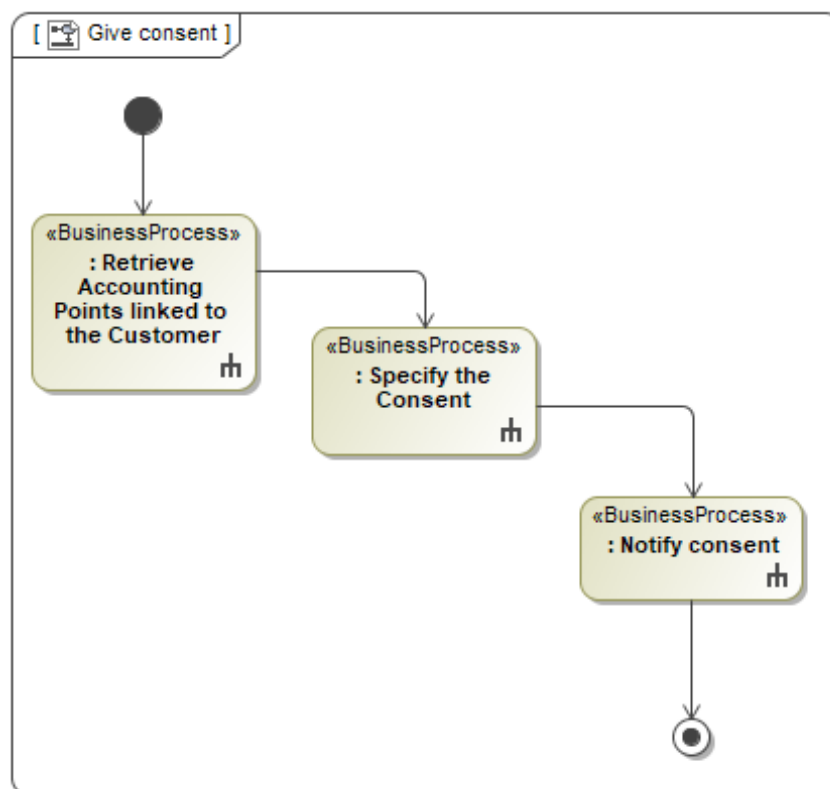


Figure 6 Business Process: Give consent

1.1.3.2.3.3 Retrieve Accounting Point linked to the Customer (Business Process UseCase)

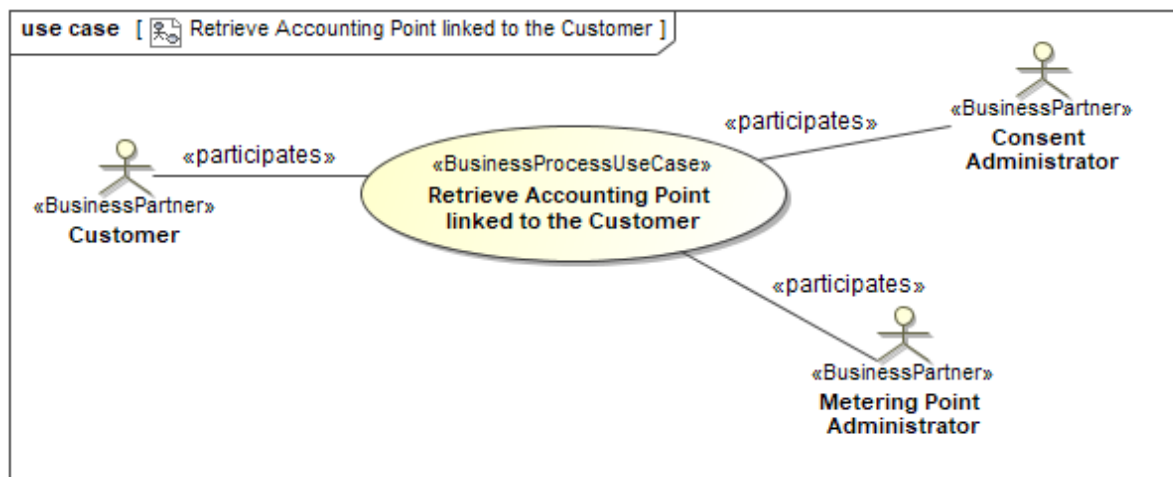


Figure 7 UseCase diagram: Retrieve Accounting Point linked to the Customer

1.1.3.2.3.3.1 Description

UseCase description: Retrieve Accounting Point linked to the Customer	
definition	In this process, the Consent Administrator identifies the Customer and its Accounting Point(s).
beginsWhen	The Customer wants to register, end or change a consent for the Accounting Point in the consent administration.
preCondition	The Customer is uniquely linked to the Accounting Point(s).
endsWhen	The identifications of the Customer and the Accounting Point(s) have been positively validated.
postCondition	The Customer and the Accounting Point(s) are identified.
exceptions	The Customer and/or its Accounting point(s) cannot be (uniquely) identified.
actions	See 1.1.3.2.3.3.2

1.1.3.2.3.2 Business process

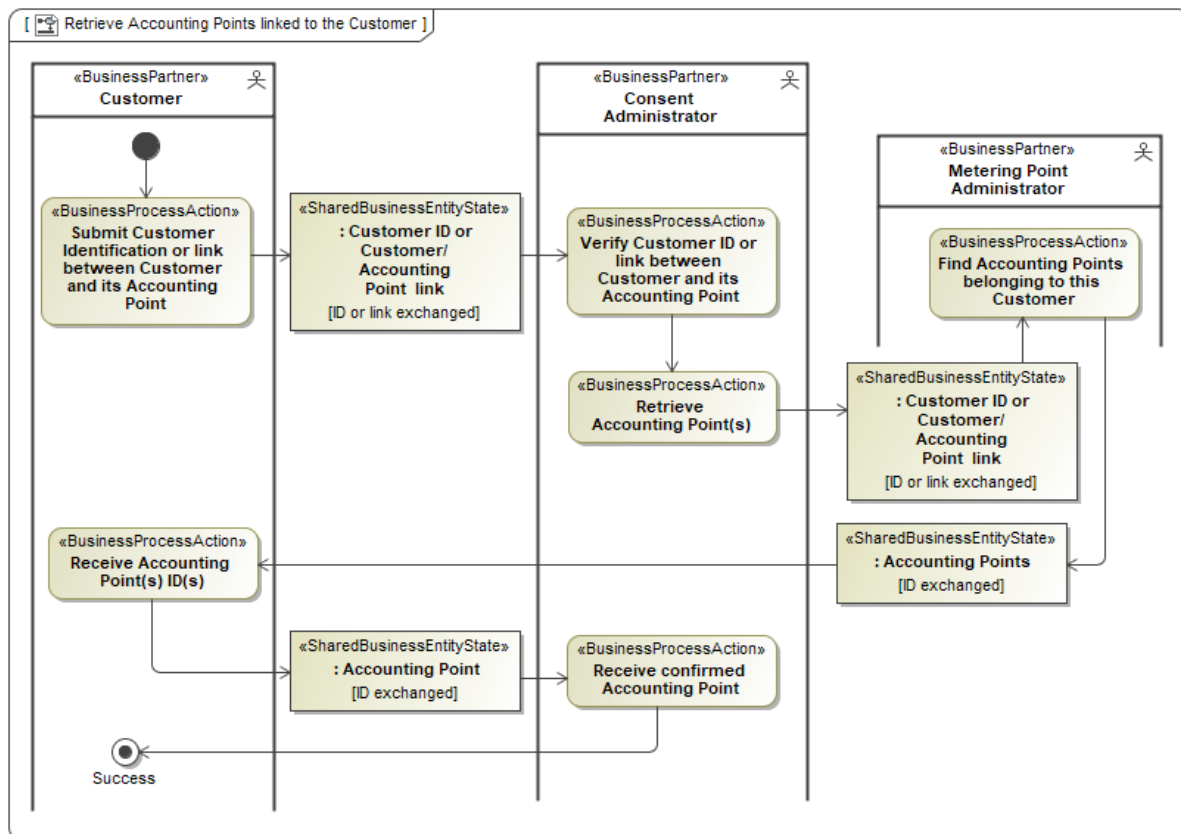


Figure 8 Business Process: Identify the Customer

1.1.3.2.3.4 Specify the consent (Business Process UseCase)

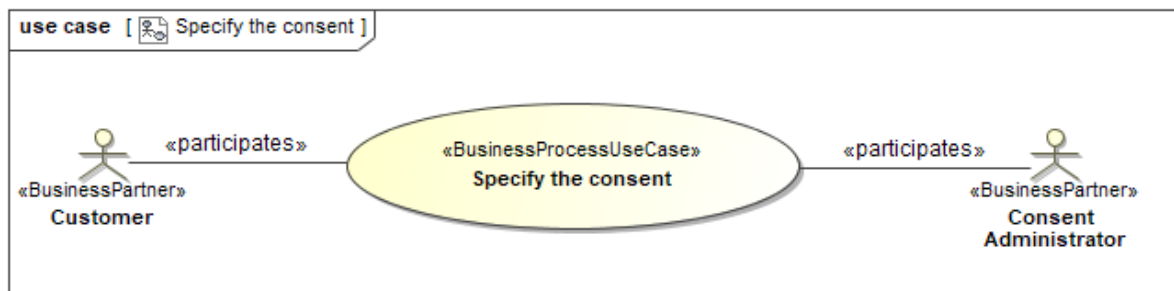


Figure 9 UseCase diagram: Specify the consent

1.1.3.2.3.4.1 Description

UseCase description: Specify the consent	
definition	In this process, the Customer is giving its consent to the Specific Party to use the specified dataset of the Accounting Point for a specified period, potentially based on the requested consent for that data set, and the Consent Administrator returns the Consent ID.
beginsWhen	When the Customer and the Accounting Point have been identified and the Customer wants to give a consent to the Specific Party.
preCondition	<p>The Customer wants to give consent to a Specific Party to access a specified dataset of the Accounting Point, for a specified period.</p> <p>The Customer and the Accounting Point have been identified.</p> <p>The Specific Party is known at the Consent Administrator.</p> <p>Based on national rules there is a requested consent.</p>
endsWhen	When the Customer has specified the Specific Party to use a specified dataset of the Accounting Point for a specified period, and the Customer has retrieved the Consent ID from the Consent Administrator.
postCondition	<p>The Customer has specified the Specific Party to use a specified dataset of the Accounting Point for a specified period.</p> <p>A Consent ID has been issued by the Consent Administrator.</p>
exceptions	None
actions	See 1.1.3.2.3.4.2

1.1.3.2.3.4.2 Business process

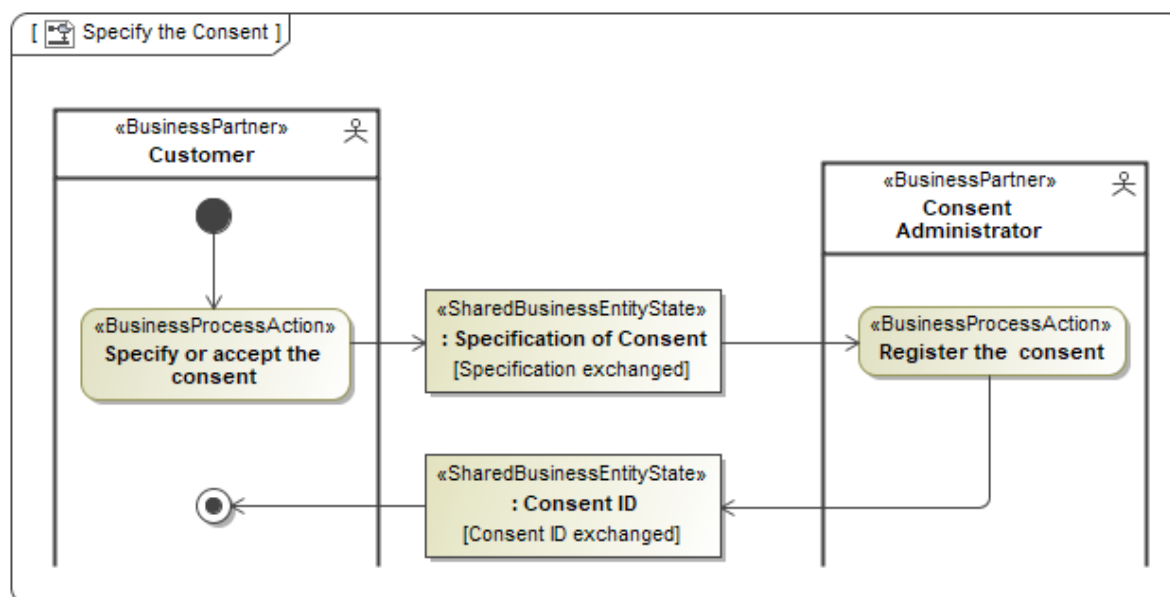


Figure 10 Business Process: Specify the consent

1.1.3.2.3.5 Notify consent (Business Process UseCase)

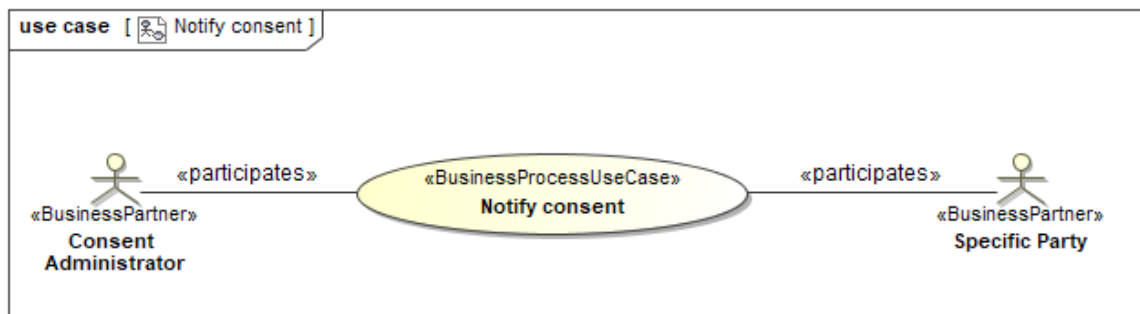


Figure 11 UseCase diagram: Notify consent

1.1.3.2.3.5.1 Description

UseCase description: Notify consent	
definition	In this process, the Consent Administrator notifies the Specific Party of a consent granted to the Specific Party for a specified dataset of the Accounting Point and for a specified period.
beginsWhen	When the Customer linked to the intended Accounting Point has given its consent to the Specific Party.
preCondition	The Customer has given its consent to the Specific Party for the usage of the specified dataset of Customer's Accounting Point for the specified period.
endsWhen	When the Specific Party has received the notification of the consent for the given Accounting Point.
postCondition	The Specific Party is notified that consent has been given to him by the Customer for usage of specific data of a given Accounting Point and period.
exceptions	None
actions	See 1.1.3.2.3.5.2

1.1.3.2.3.5.2 Business process

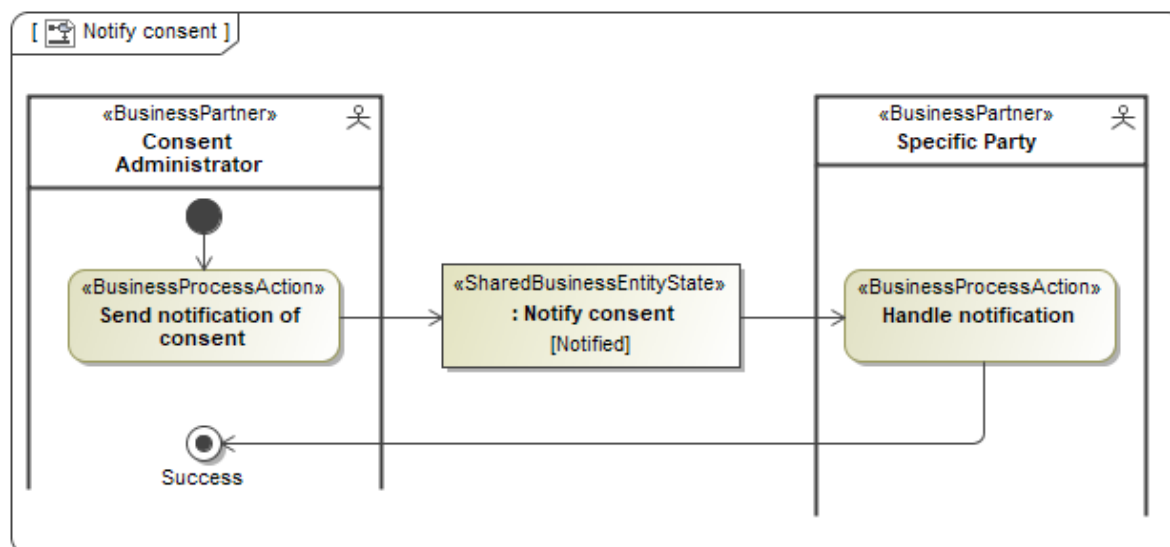


Figure 12 Business Process: Notify consent

1.1.3.2.4 End consent (Business Process UseCase)

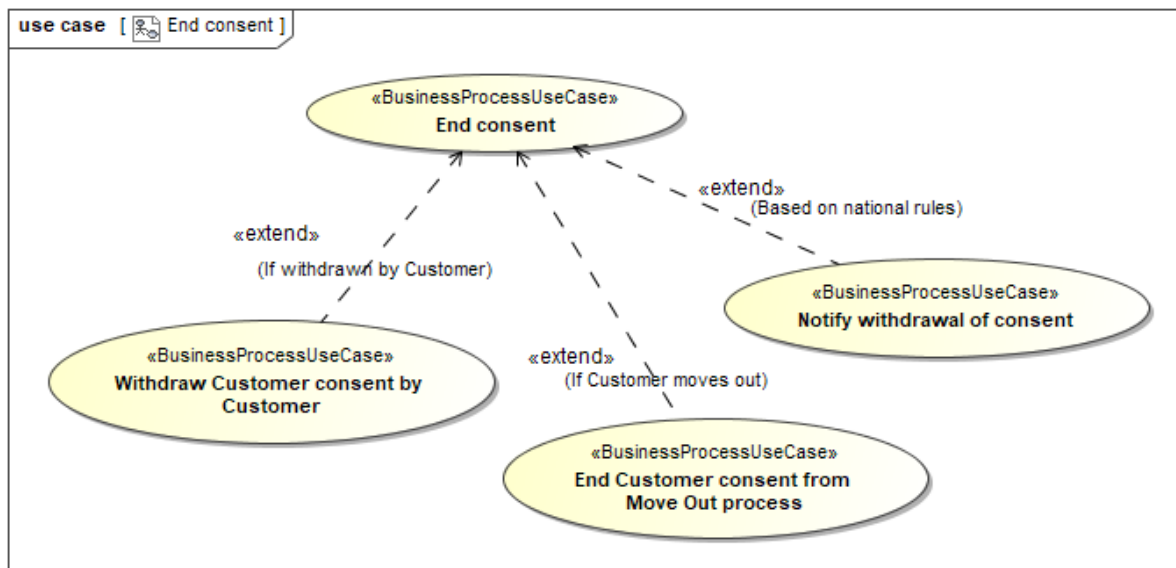


Figure 13 UseCase diagram: End consent

1.1.3.2.4.1 Description

UseCase description: End consent	
definition	<p>In this process, the Customer consent for an Accounting Point is ended. The end may be triggered by:</p> <ol style="list-style-type: none"> 1. The Customer withdraws the consent directly in the consent administration. The Customer identifies itself and/or the link to the Accounting Point in order to end, from a specified date, its consent to a Specific Party to use a specific dataset of the Accounting Point for a specific period. Depending on national rules, the Specific Party will be notified by the Consent Administrator that the Customer has ended its consent. 2. The Metering Point Administrator informs the Consent Administrator of a Customer moving out of the Accounting Point. In this case the Consent Administrator must end all consents given for the Accounting Point from the move out date. Depending on national rules, the Specific Party(ies) will be notified by the Consent Administrator that the Customer has ended its consent(s). 3. When the Specific Party is withdrawn from the market.
beginsWhen	When the Customer wants to end its consent for access to the specific dataset of the Accounting Point for a specific period by the Specific Party, or the Customer moves out.
preCondition	The Customer has given consent to the Specific Party for access to the specific dataset of the Accounting Point for a specific period.

endsWhen	When consent for access to the specific dataset of the Accounting Point for a specific period, for the Specific Party has ended. And, dependent on national rules, the Specific Party has been notified.
postCondition	The Customer consent for the Specific Party(ies) for a specific dataset of the Accounting Point for a specific period is ended and depending on national rules the Specific Party is or Specific Parties are informed.
exceptions	None
actions	See 1.1.3.2.4.2

1.1.3.2.4.2 Business process

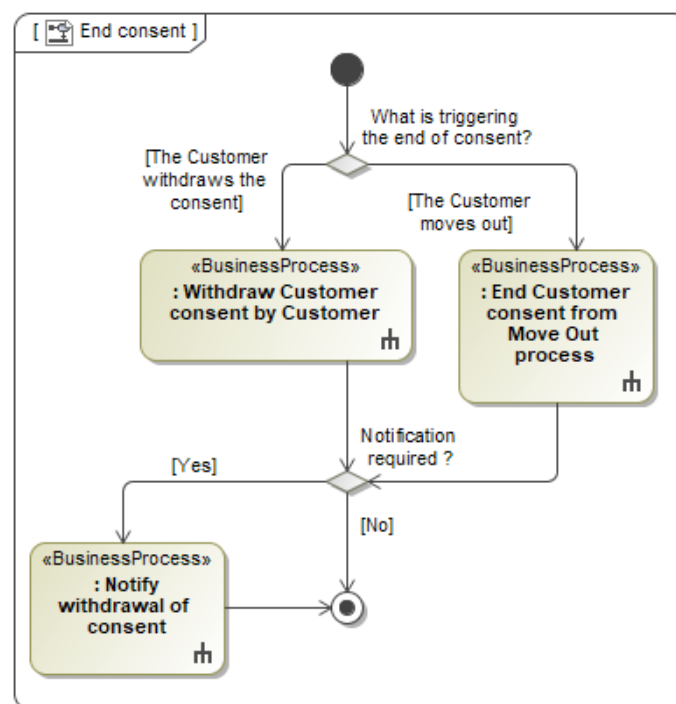


Figure 14 Business Process: End consent

1.1.3.2.4.3 Withdraw Customer consent by Customer (Business Process UseCase)

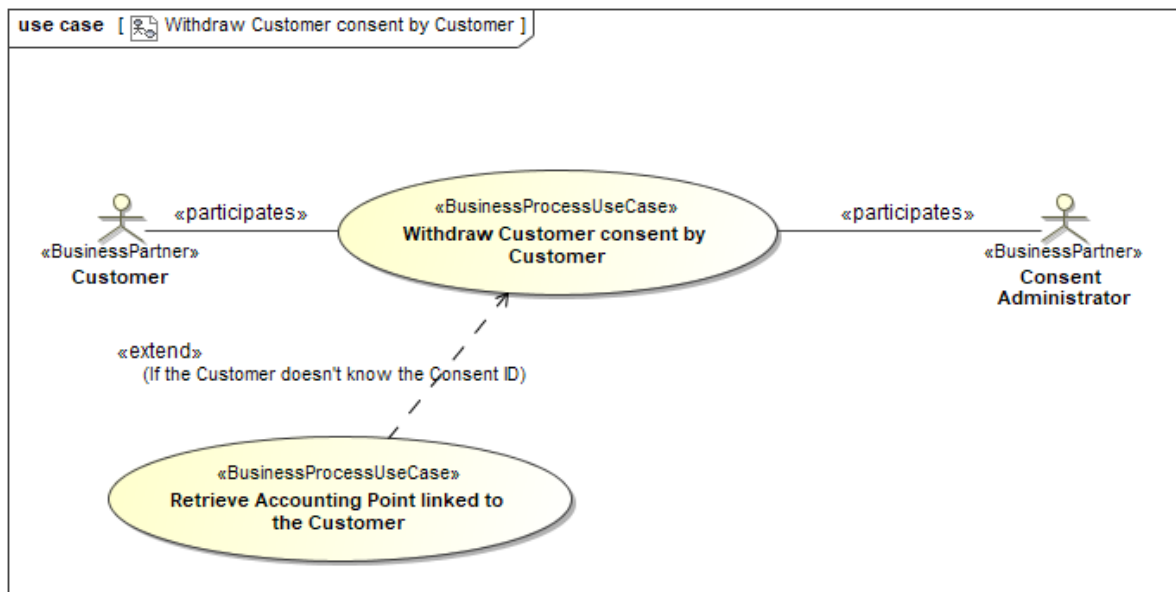


Figure 15 UseCase diagram: Withdraw Customer consent by Customer

1.1.3.2.4.3.1 Description

UseCase description: Withdraw Customer consent by Customer	
definition	In this process, the Customer withdraws its consent (identified with a Consent ID) for a Specific Party for the Accounting Point.
beginsWhen	When the Customer wants to withdraw the consent with a specific Consent ID for a Specific Party for the Accounting Point.
preCondition	The Customer wants to withdraw an identified consent linked to the Accounting Point for a Specific Party. The Customer and its Accounting Point have been identified.
endsWhen	When the Consent Administrator has confirmed the Customer of the withdrawal of the identified consent.
postCondition	The identified consent for the Accounting Point and for the Specific Party has been withdrawn by the Customer.
exceptions	None
actions	See 1.1.3.2.4.3.3

1.1.3.2.4.3.2 Retrieve Accounting Point linked to the Customer (Business Process UseCase)

This UseCase is described in chapter 1.1.3.2.3.3, Retrieve Accounting Point linked to the Customer (Business Process UseCase).

1.1.3.2.4.3.3 Business process

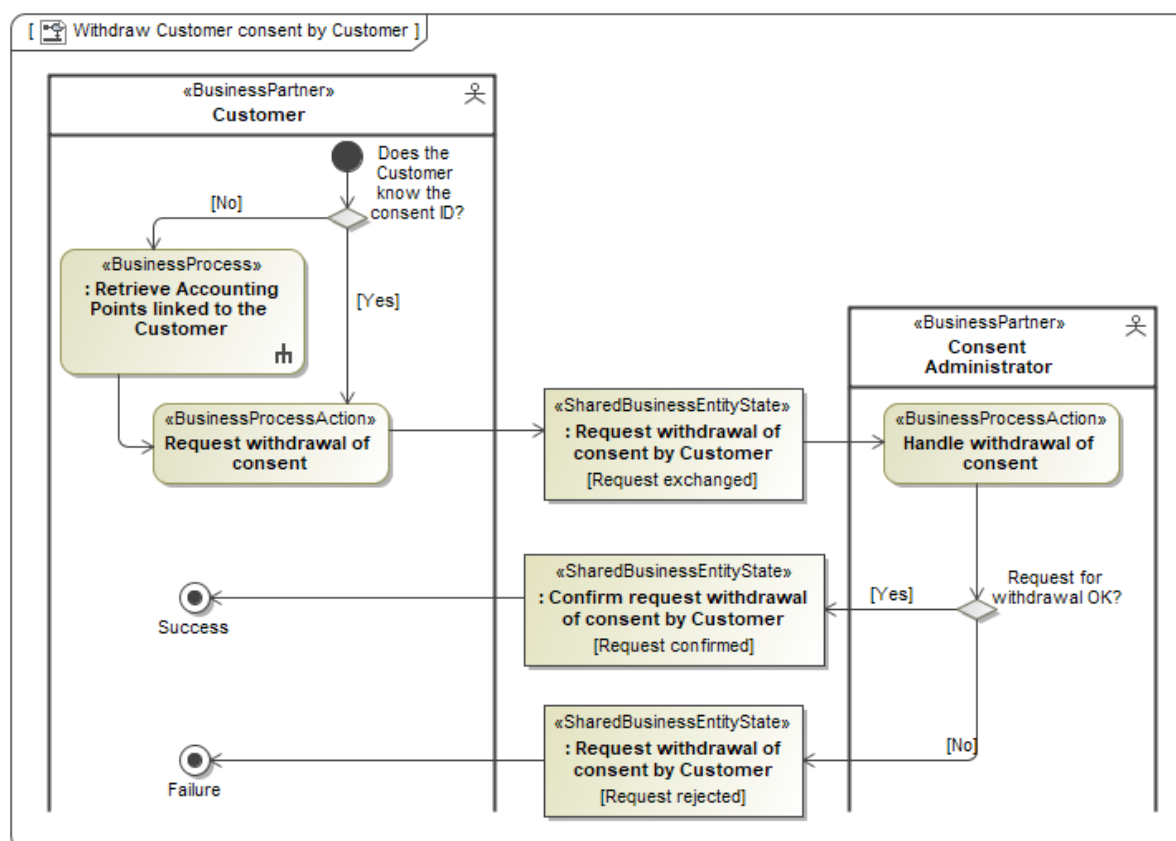


Figure 16 Business Process: Withdraw Customer consent by Customer

1.1.3.2.4.4 End Customer consent from Move Out process (Business Process UseCase)

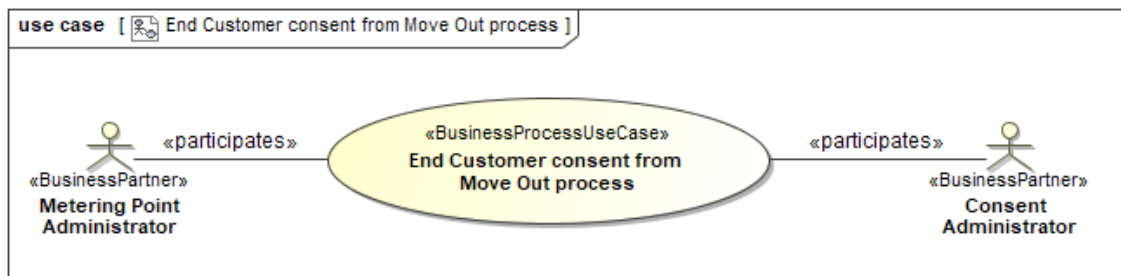


Figure 17 UseCase diagram: End Customer consent from Move Out process

1.1.3.2.4.4.1 Description

UseCase description: End Customer consent from Move Out process	
definition	In this process, the Metering Point Administrator informs the Consent Administrator that a Customer moves out of its Accounting Point and the Consent Administrator ends all consents for the Accounting Point from the move out date.
beginsWhen	When the Metering Point Administrator has been informed that the Customer moves out at a specific date.
preCondition	The Customer has started a move out process.
endsWhen	When the Consent Administrator has ended all consent(s) for the moving Customer and the Accounting Point.
postCondition	All consent(s) for the Accounting Point has/have been ended.
exceptions	None
actions	See 1.1.3.2.4.4.2

1.1.3.2.4.4.2 Business process

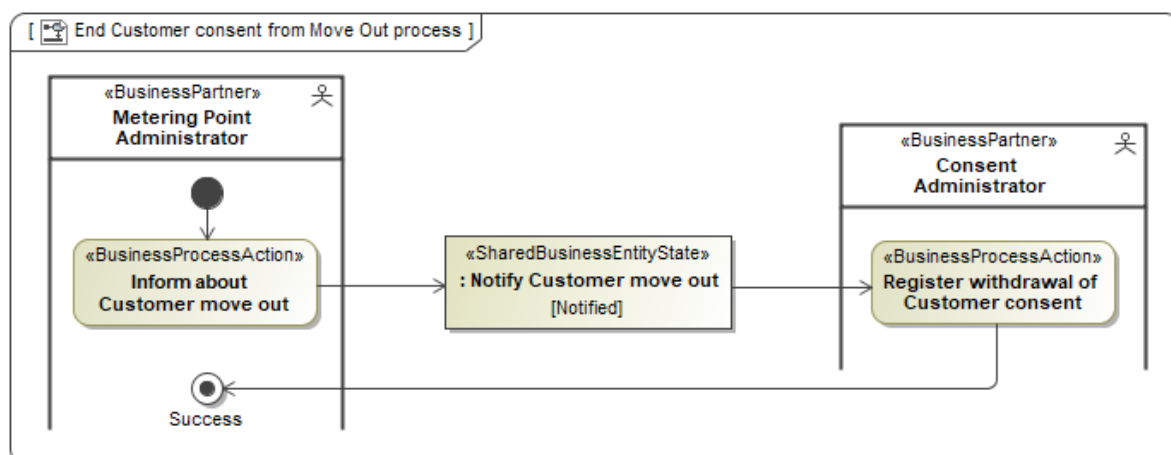


Figure 18 Business Process: End Customer consent from Move Out process

1.1.3.2.4.5 Notify withdrawal of consent (Business Process UseCase)

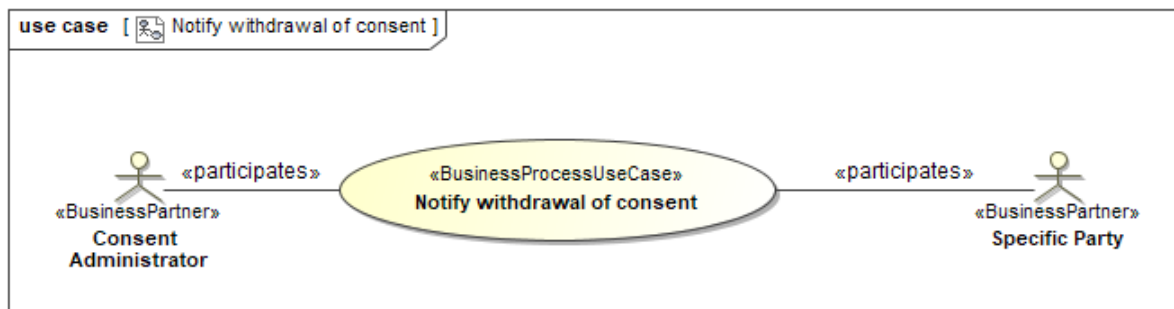


Figure 19 UseCase diagram: Notify withdrawal of consent

1.1.3.2.4.5.1 Description

UseCase description: Notify withdrawal of consent	
definition	In this process, the Consent Administrator notifies the Specific Party of the withdrawal of a consent.
beginsWhen	When the Customer has withdrawn its consent for a specific Consent ID.
preCondition	The Customer has withdrawn a valid identified consent at the Consent Administrator.
endsWhen	When the notification of the withdrawal of the consent has been received by the Specific Party.
postCondition	The Specific Party has been informed of the withdrawal of the consent from the Customer.
exceptions	None
actions	See 1.1.3.2.4.5.2

1.1.3.2.4.5.2 Business process

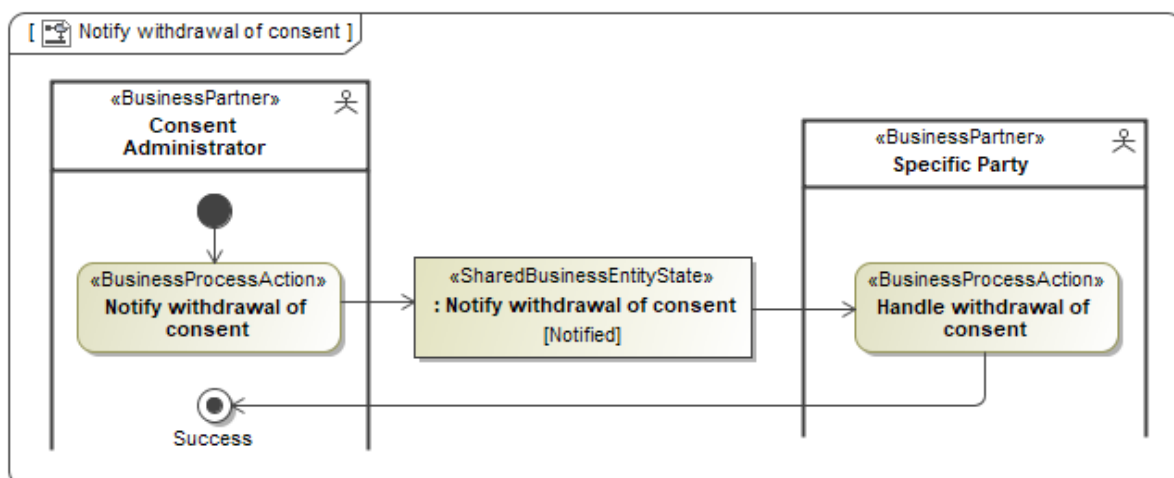


Figure 20 Business Process: Notify termination of consent

1.1.3.2.5 Terminate Customer consent (Business Process UseCase)

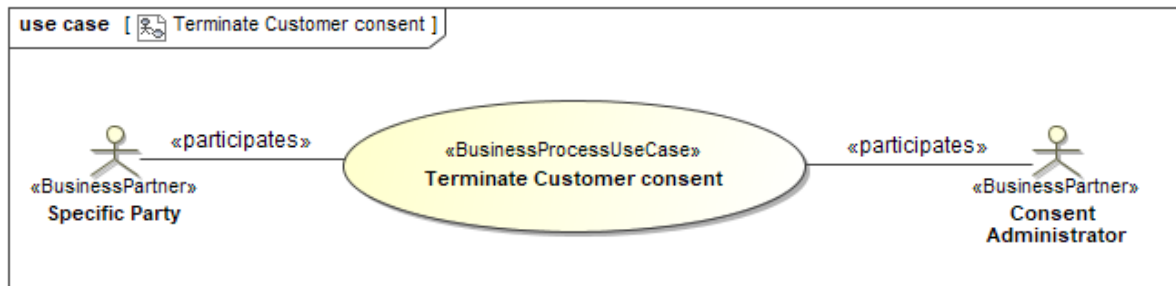


Figure 21 UseCase diagram: Terminate Customer consent

1.1.3.2.5.1 Description

UseCase description: Terminate Customer consent	
definition	In this process, based on national rules, the Specific Party terminates, from a specified date, the identified consent.
beginsWhen	When, based on national rules, the Specific Party wants/needs to terminate the consent from the Customer and the Accounting Point at a specified date.
preCondition	<p>The Customer has given consent in the consent administration to the Specific Party for access to the specific dataset of the Accounting Point for a specific period.</p> <p>There is a national rule that the Specific Party may (have to) inform the consent Administrator of the termination when its contract with the Customer changed or ended.</p>
endsWhen	When the Specific Party has received a confirmation of termination of Consent from the Consent Administrator related to the identified Customer consent.
postCondition	The identified Customer consent for the Accounting Point to the Specific Party is terminated.
exceptions	The request for termination of Consent is rejected by the Consent Administrator.
actions	See 1.1.3.2.5.2

1.1.3.2.5.2 Business process

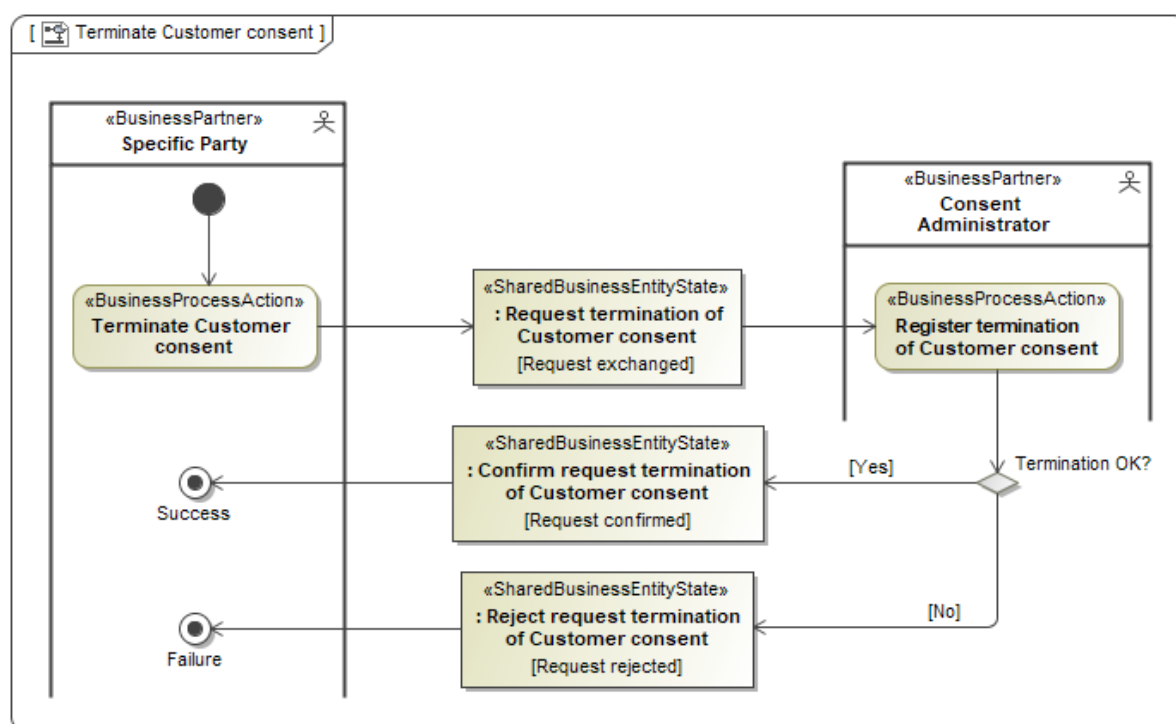


Figure 22 Business Process: Terminate Customer consent

1.1.3.3 Check consent (Business Process UseCase)

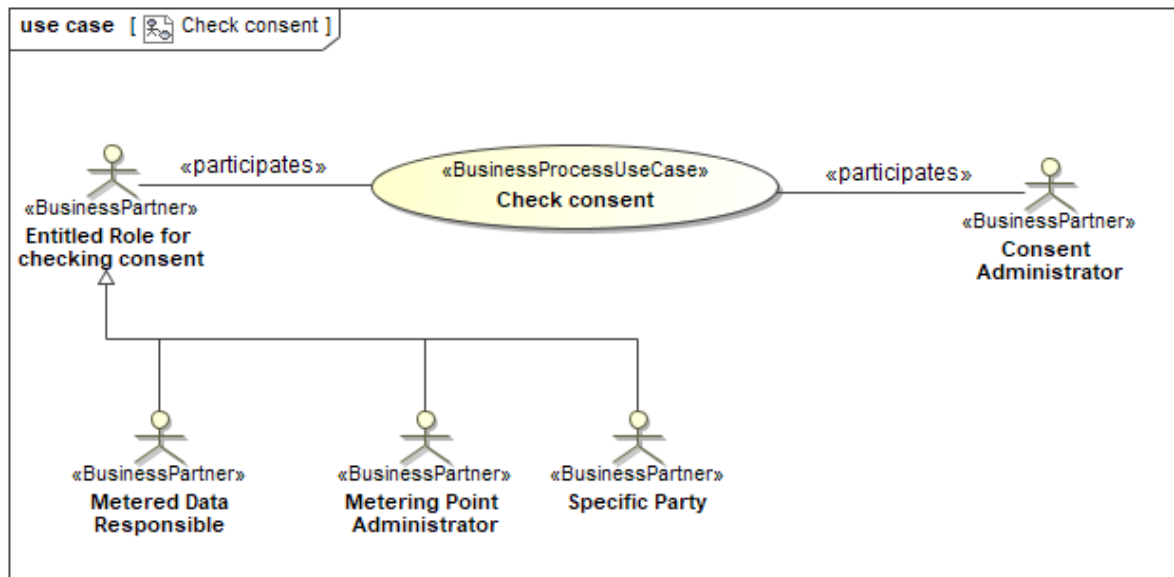


Figure 23 UseCase diagram: Check consent

1.1.3.3.1 Description

UseCase description: Check consent	
definition	In this process, the Entitled Role, before giving out a specific data set, checks with the Consent Administrator whether a Customer has given its consent to let a Specific Party retrieve data ⁴ from the Accounting Point for a specified date or period.
beginsWhen	When the Entitled Role has a need to check a consent for data access of the Customer's Accounting Point to a Specific Party.
preCondition	The Entitled Role has received a request for data from a Specific Party for an Accounting Point. The Entitled Role is known at the Consent Administrator.
endsWhen	When the Entitled Role has received information related to the Customers consent.
postCondition	The Entitled Role knows the Specific Party is consented to the specific dataset from the Accounting Point.
exceptions	The request is rejected
actions	See 1.1.3.3.2

⁴ In this process it is chosen not to specify the data set in the request, but to get relevant data sets back in the response. In this way it is up to the Entitled Role to verify that there is a valid consent.

1.1.3.3.2 Business process

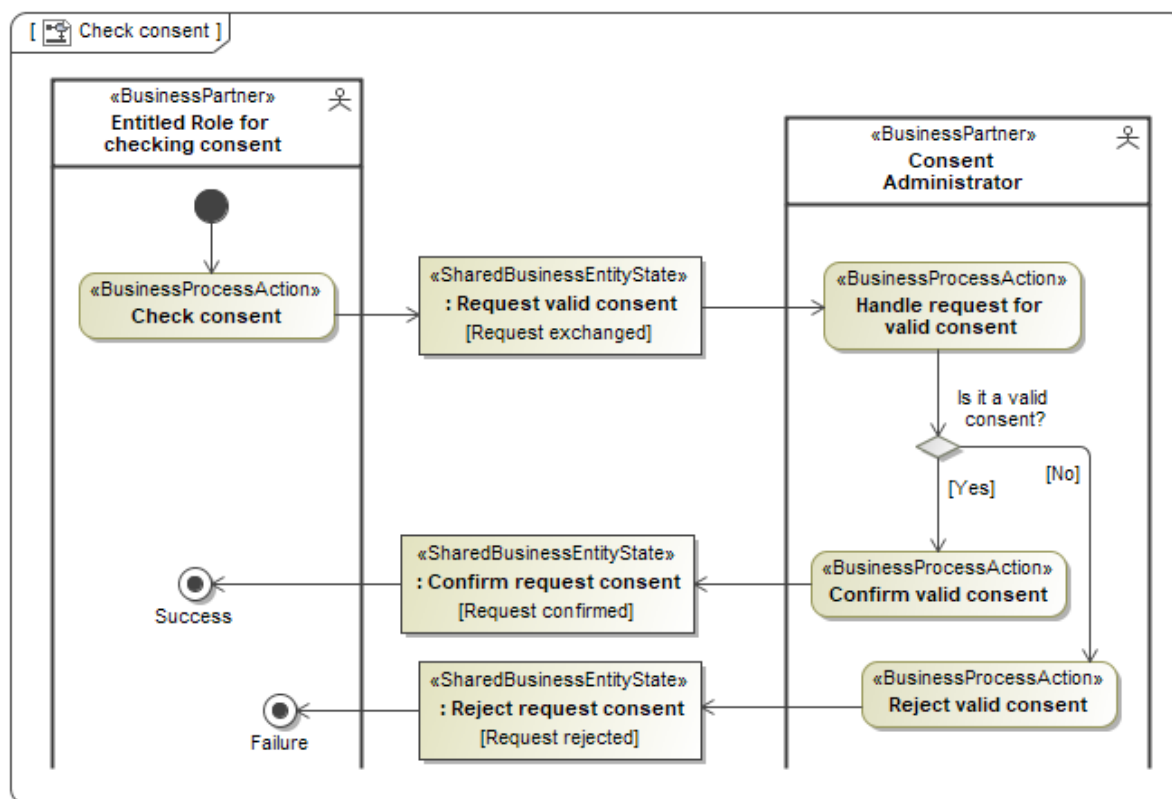


Figure 24 Business Process: Check consent

1.1.5 Business Partner View

1.1.5.1 Business partners related to Administer Customer consent for Accounting Point related information

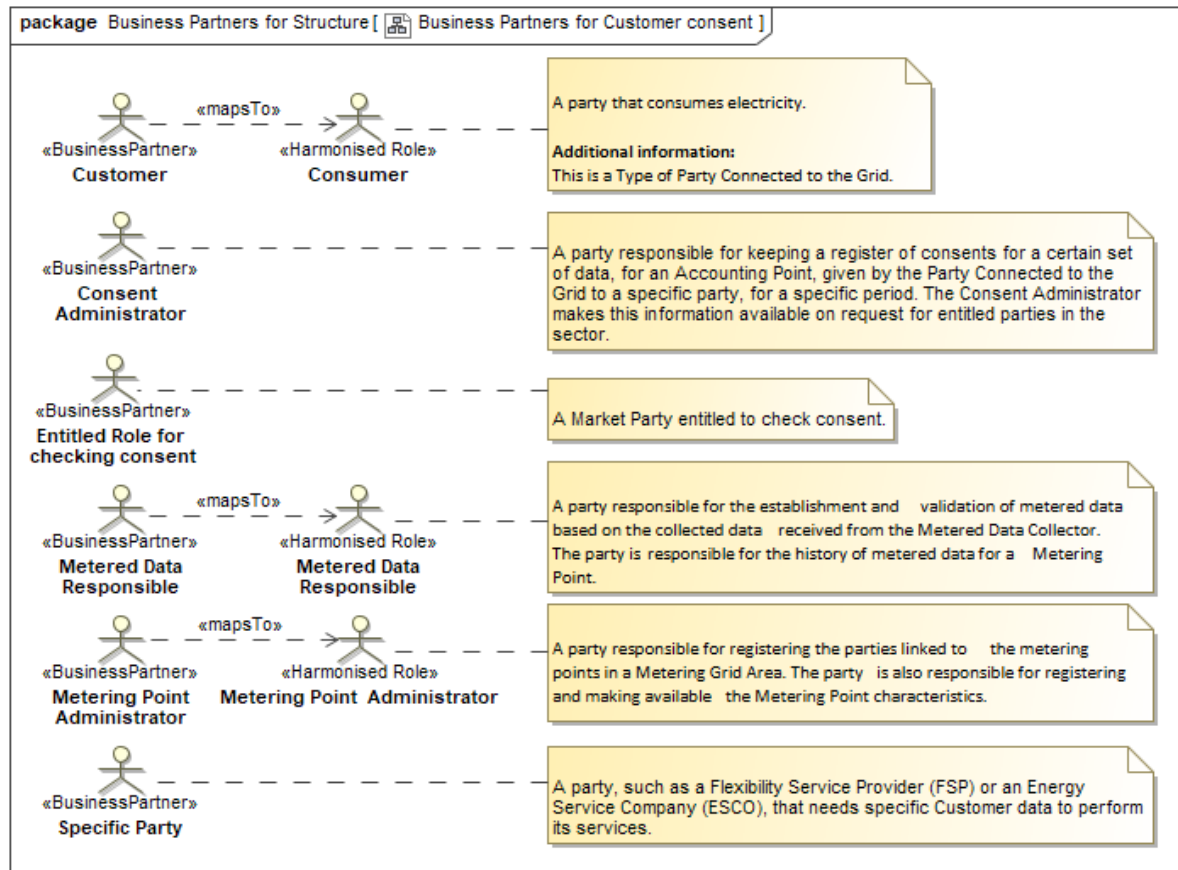


Figure 25 Business partners related to Administrate Customer consent

1.1.6 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].

1.1.6.1 Request consent (Class Diagram)

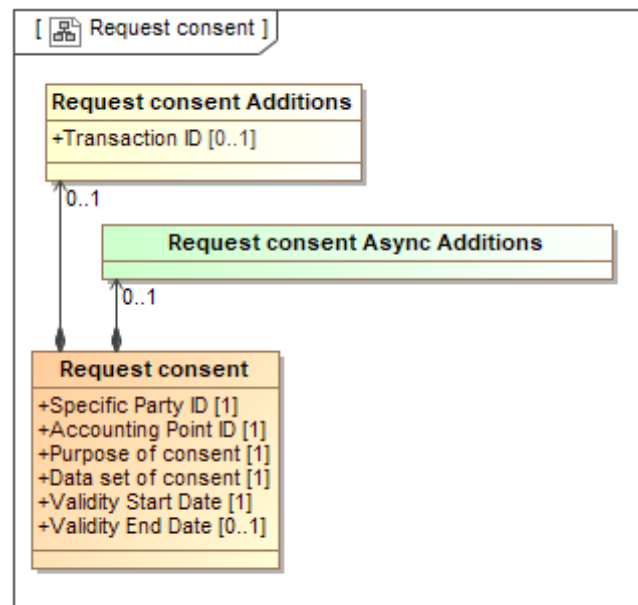


Figure 26 Request consent

1.1.6.1.1 Element definitions: Request consent

Class/attribute	Sector ⁵	Description
«Business entity» Request consent	Elec, Gas	The information set to be exchanged by a Specific Party when requesting consent for one Accounting Point at the Consent Administrator.
Specific Party ID		The unique identification of the Specific Party requesting consent for the specified dataset in the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the request consent is aimed for.
Purpose of consent		The description of the purpose the requested dataset will be used for as agreed between the Customer and the Specific Party.
Dataset of consent		Specification of the dataset of this Accounting Point the consent is given for.
Validity start date		The date the consent is requested to start.
Validity end date		The date the consent is requested to end.
Request consent Async Additions		Additional information, related to “Request consent”, needed when using asynchronous communication, however not used in this request.

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

Class/attribute	Sector ⁵	Description
Request consent Additions		Additional information related to “Request consent” to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the requesting party.

1.1.6.2 Confirm request consent (Class Diagram)

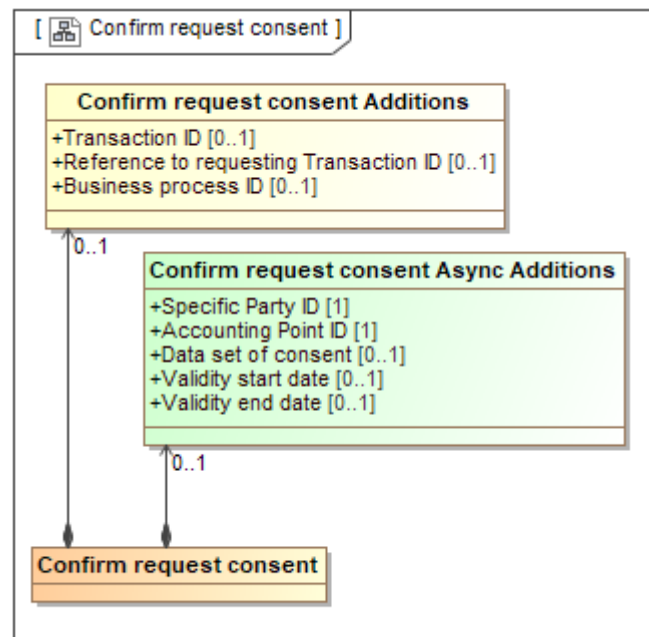


Figure 27 Confirm request consent

1.1.6.2.1 Element definition: Confirm request consent

Class/attribute	Sector ⁶	Description
«Business entity» Confirm request consent	Elec, Gas	The information set to be exchanged when confirming request for consent from a Specific Party.
Confirm request consent Async Additions		Additional information, related to “Confirm request consent”, needed when using asynchronous communication.
Specific Party ID		The unique identification of the Specific Party that requested a consent from the Customer for the specific dataset of the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the request consent was aimed for.
Dataset of consent		Specification of the dataset of this Accounting Point the consent was requested for.
Validity start date		The confirmed start date for the consent.
Validity end date		The confirmed end date for the consent.

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

Class/attribute	Sector ⁶	Description
Confirm request consent Additions		Additional information related to “Confirm request consent” to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.
Reference to requesting Transaction ID		The Transaction ID from the request.
Business process ID		The unique identification of this instance of the “Request consent process” that this transaction is a part of.

1.1.6.3 Reject request consent (Class Diagram)

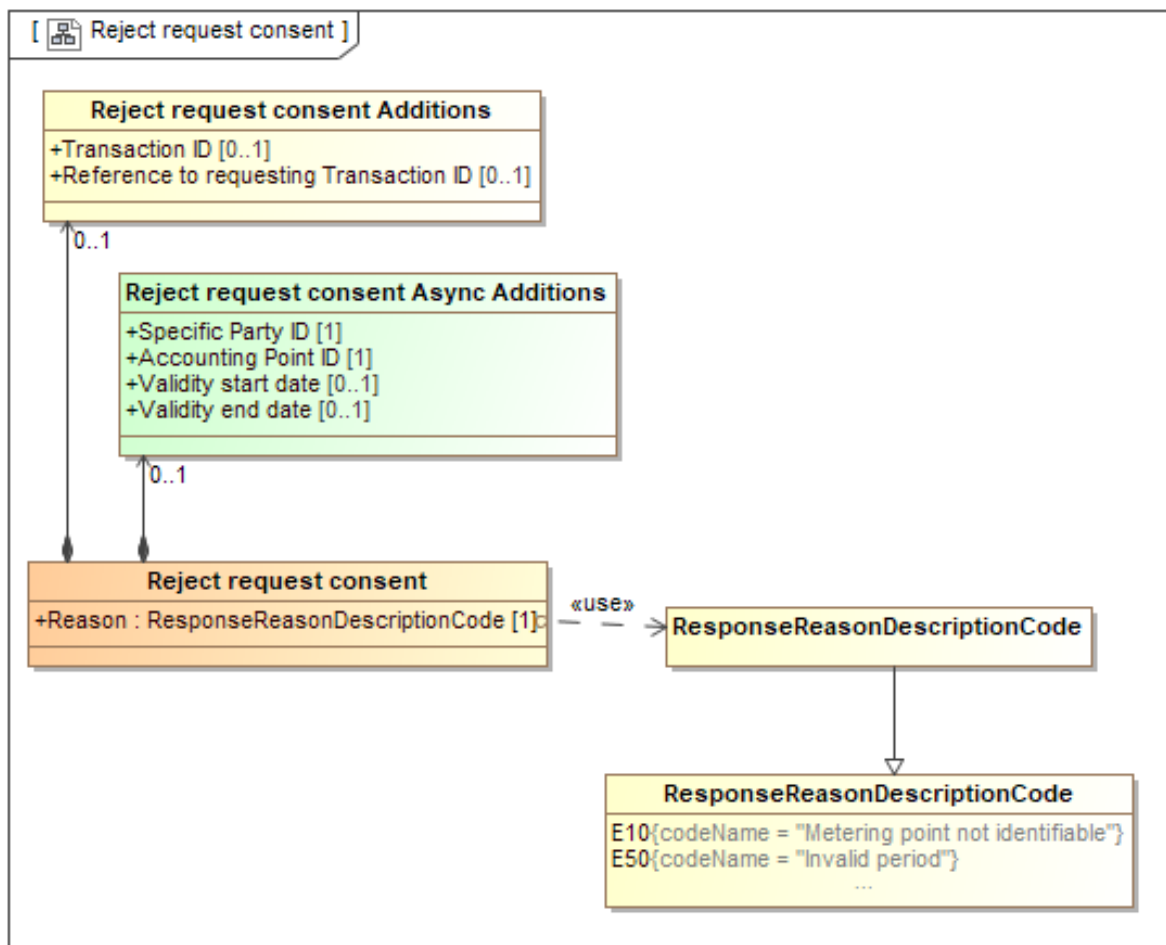


Figure 28 Reject request consent

1.1.6.3.1 Element definitions: Reject consent

Class/attribute	Sector ⁷	Description
«Business entity» Reject request consent	Elec, Gas	The information set to be exchanged when rejecting this "Request consent".
Reason		A code specifying the reason for the rejection of the "Request consent".
Reject request consent Async Additions		Additional information, related to the "Reject request consent", needed when using asynchronous communication.

⁷ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ⁷	Description
Specific Party ID		The unique identification of the Specific Party that requested a consent from the Customer for the specific dataset of the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the request consent was aimed for.
Validity start date		The requested start date for the consent.
Validity end date		The requested end date for the consent.
Reject request consent Additions		Information related to rejection of “Request consent”, to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the rejection.
Reference to requesting Transaction ID		The Transaction ID from the request given by the requesting party.

1.1.6.4 Customer ID or Customer/AP link (Class Diagram)

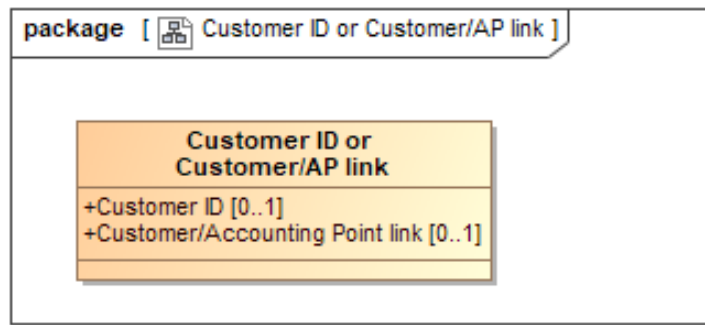


Figure 29 Customer ID or Customer/AP link

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no "... Async" nor "... Async Additions" classes.

1.1.6.4.1 Element definitions: Customer ID or Customer/AP link

Class/attribute	Sector ⁸	Description
«Business entity» Customer ID or Customer/AP link	Elec, Gas	The information set to be exchanged when exchanging Customer ID or Customer/Accounting Point link.
Customer ID		The unique identification of the Customer.
Customer/Accounting Point link		An unique link identifying the Customer link to its Accounting Point.

⁸ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.5 Accounting Points (Class Diagram)

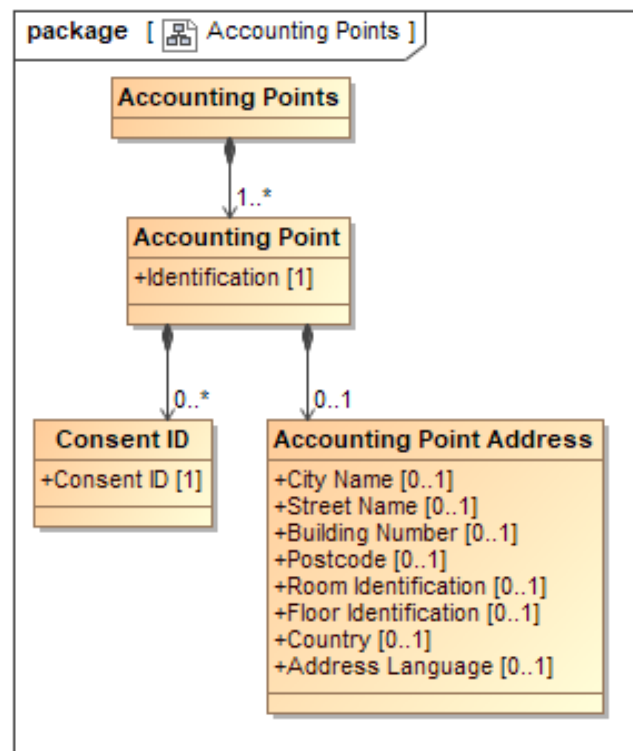


Figure 30 Accounting Points

Note that this information flow is expected to be submitted in an interactive conversation between the Metering Point Administrator and the Customer, hence there are no Accounting Points Additions nor Accounting Points Async Additions classes.

1.1.6.5.1 Element definitions: Accounting Points

Class/attribute	Sector ⁹	Description
«Business entity» Accounting Points	Elec, Gas	Information needed for a Customer to identify the Consents IDs the Customer is responsible for.
«Business entity» Accounting Point	Elec, Gas	An entity where energy products are measured or computed, under balance responsibility where Energy Supplier change can take place and for which commercial business processes are defined.
Accounting Point ID		The unique identification of the Accounting Point that is identified by the Metering Pointy Administrator to be linked to the Customer.
«Business entity» Consent	Elec, Gas	The specification of the content of a Consent

⁹ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ⁹	Description
Consent ID		The unique ID for this specific consent from one Customer, for one Specific Party and one Accounting Point.
Accounting Point Address		The address of the Accounting Point. May be repeated if more than one language is used nationally.
City Name		The name, expressed as text, of the city, town or village of this address.
Street Name		The name, expressed as text, of this street or thoroughfare of this address.
Building Number		The number, expressed as text, of the building or house on this street at this address. ¹⁰
Postcode		The code specifying the postcode of this address.
Room Identification		The identification, expressed as text, of the room, suite, office or apartment as part of this address.
Floor Identification		The identification by name or number, expressed as text, of the floor in the building as part of this address.
Country		The unique identifier of the country for this address (Reference ISO 3166 and UN/ECE Rec 3).
Address language		The language in which the address is specified, using ISO 639-1 two-digit language code

¹⁰ The Building Number may include a “Building Number Extension”, such as one or more character making the address unique.

1.1.6.6 Accounting Point (Class Diagram)

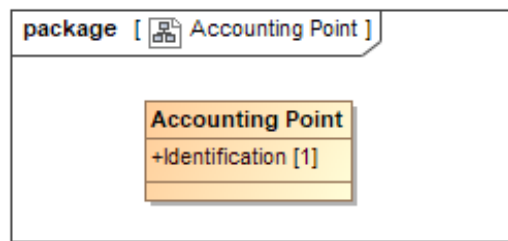


Figure 31 Accounting Point

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no Accounting Point Additions nor Accounting Point Async Additions classes.

1.1.6.6.1 Element definitions: Accounting Point

Class/attribute	Sector ¹¹	Description
«Business entity» Accounting Point	Elec, Gas	An entity where energy products are measured or computed, under balance responsibility where Energy Supplier change can take place and for which commercial business processes are defined.
Accounting Point ID		The unique identification of the Accounting Point that is identified by the Customer.

¹¹ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.7 Specification of Consent (Class Diagram)

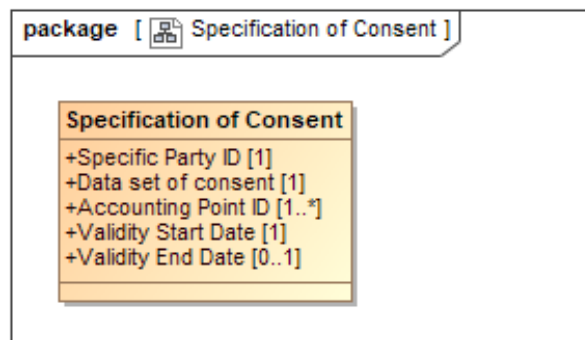


Figure 32 Specification of Consent

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no “Specification of Consent Async” nor “Specification of Consent Async Additions” classes.

1.1.6.7.1 Element definitions: Specification of Consent

Class/attribute	Sector ¹²	Description
«Business entity» Specification of Consent	Elec, Gas	The specification of the content of a Consent
Specific Party ID		The unique identification of the Specific Party that is given the consent for the specified dataset in the Accounting Point.
Data set of consent		Specification of the dataset of this Accounting Point the consent is given for.
Accounting Point ID		The unique identification of the Accounting Point the Customer specifies this consent for.
Validity start date		The date the consent will start.
Validity end date		The date the consent will end.

¹² It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.8 Consent (Class Diagram)

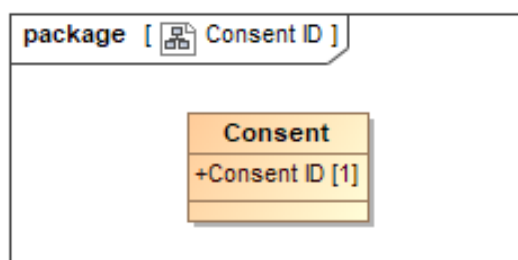


Figure 33 Consent

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no “Consent Async” nor “Consent Async Additions” classes.

1.1.6.8.1 Element definitions: Consent ID

Class/attribute	Sector ¹³	Description
«Business entity» Consent	Elec, Gas	The specification of the content of a Consent
Consent ID		The unique ID for this specific consent from one Customer, for one Specific Party and one Accounting Point.

¹³ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.9 Notify consent (Class Diagram)

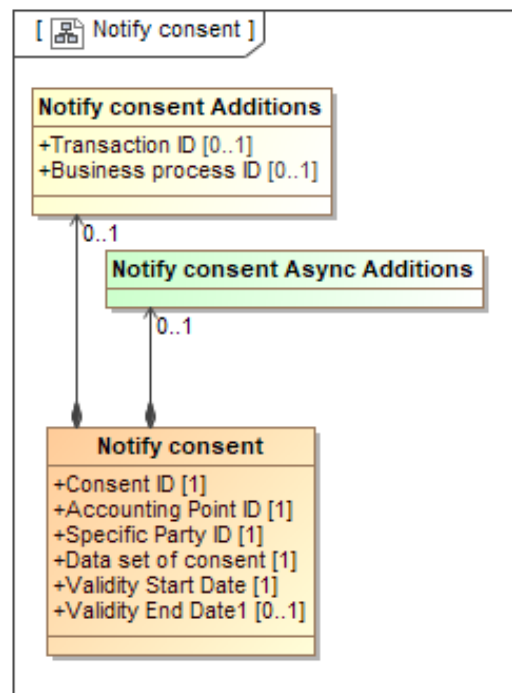


Figure 34 Notify consent

1.1.6.9.1 Element definitions: Notify consent

Class/attribute	Sector ¹⁴	Description
«Business entity» Notify consent	Elec, Gas	The information set to be exchanged when notifying a consent from the Consent Administrator to the Specific Party.
Consent ID		The unique ID for this specific consent from one Customer, for one Specific Party and one Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the consent is given for.
Specific Party ID		The unique identification of the Specific Party that has been given a consent for a specific dataset for a specific period in the specified Accounting Point.
Dataset of consent		Specification of the dataset of this Accounting Point the consent is given for.
Validity start date		The start date for the consent.
Validity end date		The end date for the consent.

¹⁴ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ¹⁴	Description
Notify consent Async Additions		Additional information, when notifying a consent from the Consent Administrator, needed when using asynchronous communication.
Notify consent Additions		Additional information, related to notification of a consent from the Consent Administrator, to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.
Business process ID		The unique identification of this instance of the “Request consent process” that this transaction is a part of.

1.1.6.10 Request withdrawal of consent by Customer

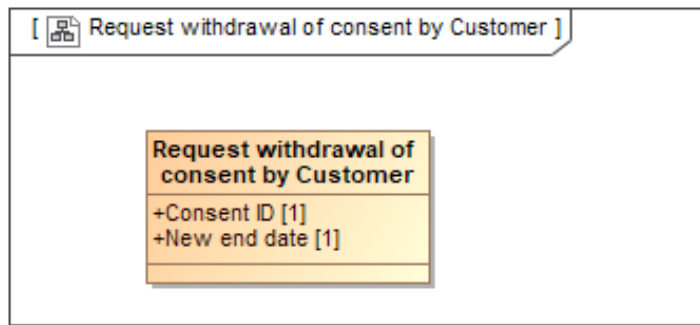


Figure 35 Request withdrawal of consent by Customer

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no “Request withdrawal of consent by Customer Async” nor “Request withdrawal of consent by Customer Async Additions” classes.

1.1.6.10.1 Element definitions: Request withdrawal of consent by Customer

Class/attribute	Sector ¹⁵	Description
«Business entity» Request withdrawal of consent by Customer	Elec, Gas	The information set to be exchanged from the Customer to the Consent Administrator when the Customer withdraws a consent.
Consent ID		The unique ID for the specific consent that is withdrawn by the Customer for one Specific Party and the Accounting Point.
New end date		The new date when the consent will end.

¹⁵ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.11 Confirm request withdrawal of consent by Customer

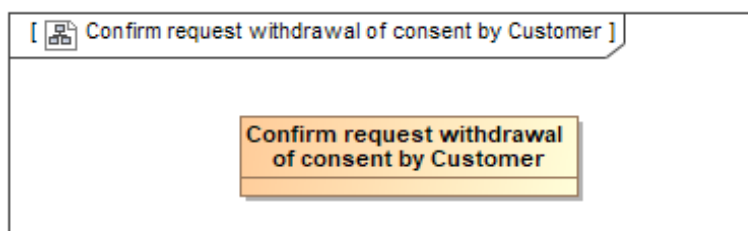


Figure 36 Confirm request withdrawal of consent by Customer

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no “Confirm request withdrawal of consent by Customer Async” nor “Confirm request withdrawal of consent by Customer Async Additions” classes.

1.1.6.11.1 Element definitions: Confirm request withdrawal of consent by Customer

Class/attribute	Sector ¹⁶	Description
«Business entity» Confirm request withdrawal of consent by Customer	Elec, Gas	The information set to be exchanged from the Consent Administrator to the Customer when confirming the withdrawal of a consent.

¹⁶ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.12 Reject request withdrawal of consent by Customer

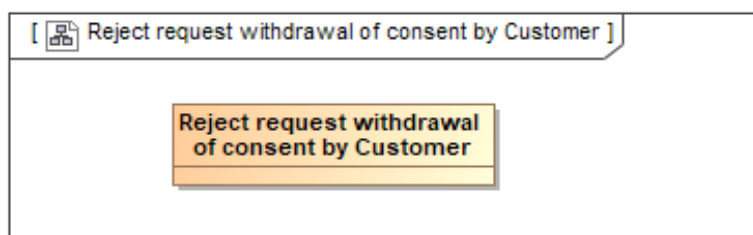


Figure 37 Reject request withdrawal of consent by Customer

Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no “Reject request withdrawal of consent by Customer Async” nor “Reject request withdrawal of consent by Customer Async Additions” classes.

1.1.6.12.1 Element definitions: Reject request withdrawal of consent by Customer

Class/attribute	Sector ¹⁷	Description
«Business entity» Reject request withdrawal of consent by Customer	Elec, Gas	The information set to be exchanged from the Consent Administrator to the Customer when rejecting the withdrawal of a consent.

¹⁷ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.13 Notify withdrawal of consent (Class Diagram)

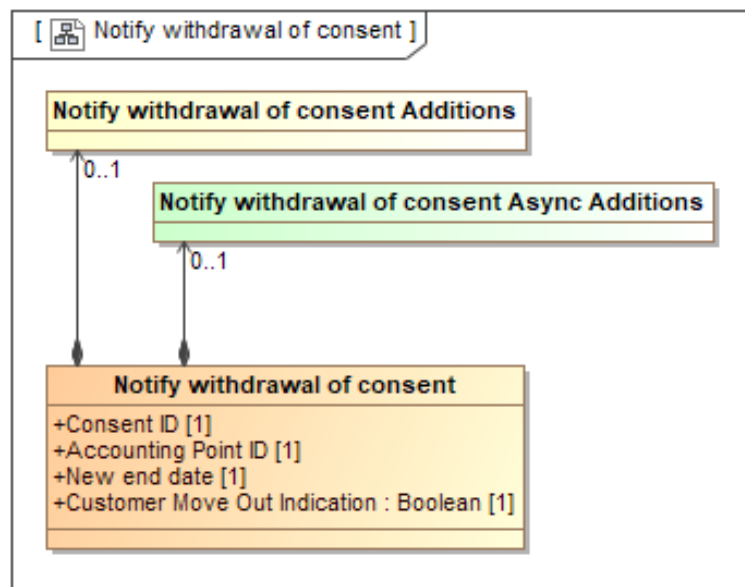


Figure 38 Notify withdrawal of consent

1.1.6.13.1 Element definitions: Notify withdrawal of consent

Class/attribute	Sector ¹⁸	Description
«Business entity» Notify withdrawal of consent	Elec, Gas	The information set to be exchanged when the Consent Administrator notifies withdrawal of consent to the Specific Party.
Consent ID		The unique ID for the specific consent that is withdrawn by the Customer for one Specific Party and the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point this consent is withdrawn for.
New end date		The new date when the consent will end.
Customer Move Out indication		An indication if the trigger of the end of consent is the Customer moving out of the Accounting Point.
Notify withdrawal of consent Async Additions		Additional information, when notifying withdrawal of consent from the Consent Administrator, needed when using asynchronous communication.
Notify withdrawal of consent Additions		Information related to the notification of withdrawal of consent, needed for technical reasons or to be agreed on a national level.

¹⁸ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

1.1.6.14 Notify Customer move out

Notify Customer move out is documented in the ebIX® BRS for Customer Move (www.ebix.org), see [8].

1.1.6.15 Request termination of Customer consent (Class Diagram)

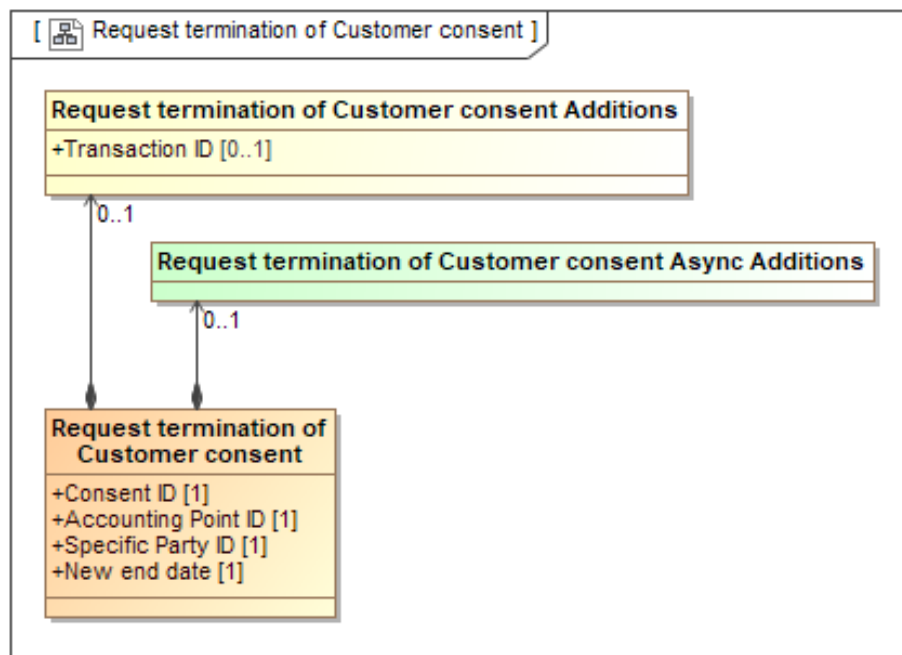


Figure 39 Request termination of Customer consent

1.1.6.15.1 Element definitions: Request termination of Customer consent

Class/attribute	Sector ¹⁹	Description
«Business entity» Request termination of Customer consent	Elec, Gas	The information set to be exchanged when the Specific Party requests termination of consent to the Consent Administrator.
Consent ID		The unique ID for a specific consent from one Customer, one Specific Party and the Accounting Point, issued by the Consent Administrator.
Accounting Point ID		The unique identification of the Accounting Point the consent is terminated for.
Specific Party ID		The unique identification of the Specific Party that requests termination for a consent for a specific dataset for a specific period in the specified Accounting Point.
New end date		The new date when the consent is requested to end.
Request termination of Customer consent Async Additions		Additional information, when requesting termination of consent from the Consent Administrator, needed when using asynchronous communication.

¹⁹ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ¹⁹	Description
Request termination of Customer consent Additions		Information related to the request for termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.

1.1.6.16 Confirm request termination of Customer consent (Class Diagram)

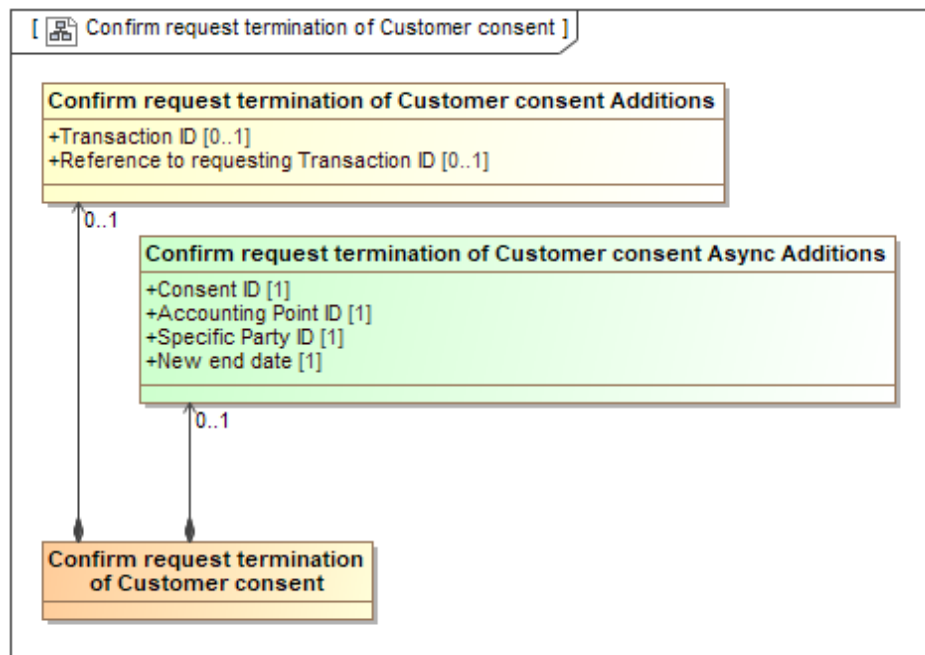


Figure 40 Confirm request termination of Customer consent

1.1.6.16.1 Element definitions: Confirm request termination of Customer consent

Class/attribute	Sector ²⁰	Description
«Business entity» Confirm request termination of Customer consent	Elec, Gas	The information set to be exchanged when the Specific Party confirms termination of consent to the Consent Administrator.
Confirm request termination of Customer consent Async Additions		Additional information, when confirming termination of consent from the Specific Party, needed when using asynchronous communication.
Consent ID		The unique ID for the specific consent from one Customer, one Specific Party and the Accounting Point, that is confirmed terminated.
Accounting Point ID		The unique identification of the Accounting Point the consent is terminated for.
Specific Party ID		The unique identification of the Specific Party that has requested termination of the consent for a specific dataset for a specific period in the specified Accounting Point.
New end date		The new date when the consent will end.

²⁰ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Confirm request termination of Customer consent Additions		Information related to the confirmation of termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.
Reference to requesting Transaction ID		The Transaction ID from the request.

1.1.6.17 Reject request termination of Customer consent (Class Diagram)

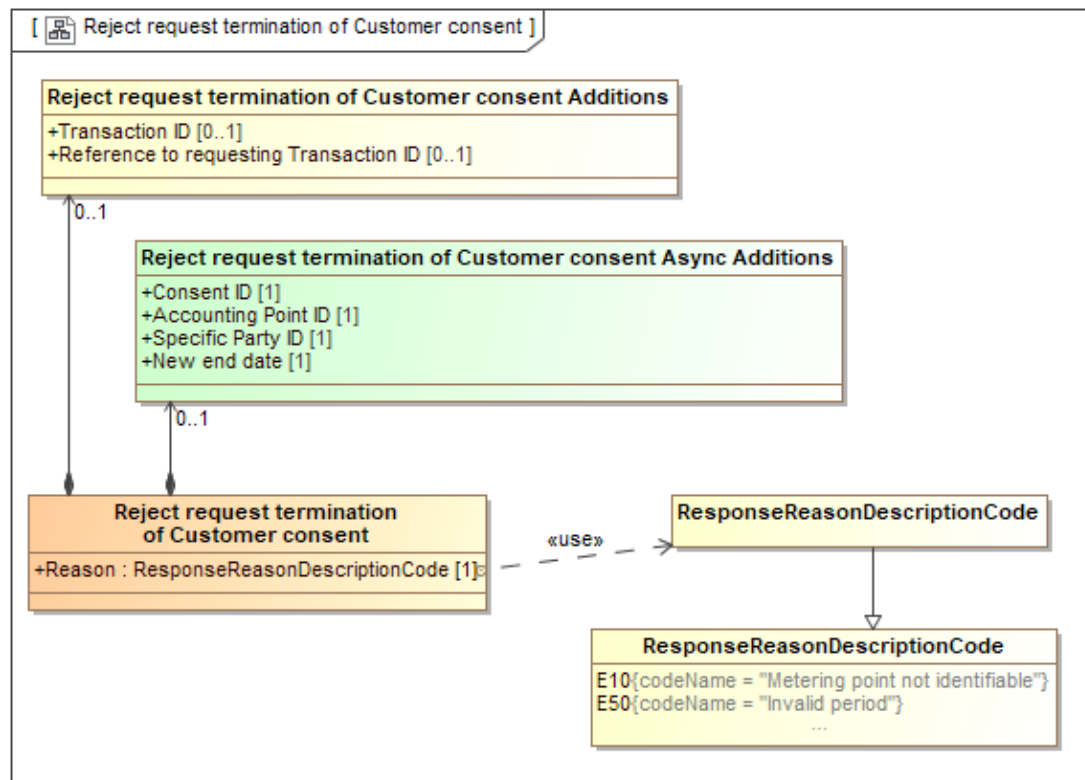


Figure 41 Reject request termination of Customer consent

1.1.6.17.1 Element definitions: Reject request termination of Customer consent

Class/attribute	Sector ²¹	Description
«Business entity» Reject request termination of Customer consent	Elec, Gas	The information set to be exchanged when the Consent Administrator rejects termination of consent to the Specific Party.
Reason		A code specifying the reason for the rejection of the “Request consent”.
Reject request termination of Customer consent Async Additions		Additional information, when rejecting termination of consent from the Specific Party, needed when using asynchronous communication.
Consent ID		The unique ID for a specific consent from one Customer, one Specific Party and one Accounting Point, that was requested to terminate.
Accounting Point ID		The unique identification of the Accounting Point that was requested to terminate.

²¹ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ²¹	Description
Specific Party ID		The unique identification of the Specific Party that had requested termination of the consent for a specific dataset for a specific period in the specified Accounting Point.
New end date		The date when the consent was requested to terminate.
Reject request termination of Customer consent Additions		Information related to the rejection of termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the Consent Administrator for the rejection of the requested termination.
Reference to requesting Transaction ID		The Transaction ID from the request.

1.1.6.18 Request valid consent (Class Diagram)

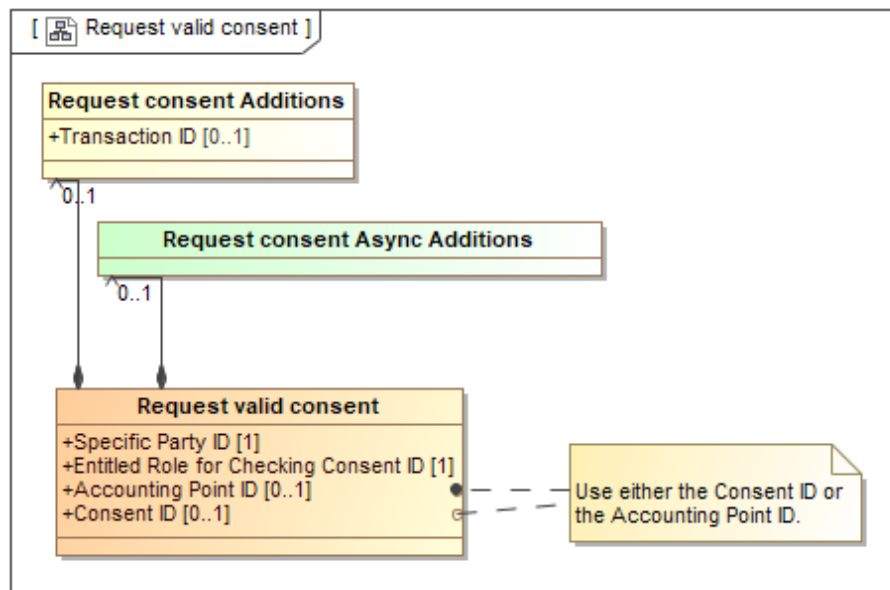


Figure 42 Request valid consent

1.1.6.18.1 Element definitions: Request valid consent

Class/attribute	Sector ²²	Description
«Business entity» Request valid consent	Elec, Gas	The information set to be exchanged by an Entitled Role when requesting if there is a valid consent to the Specific Party for the Accounting Point at the Consent Administrator.
Specific Party ID		The unique identification of the Specific Party that is checked for having a consent for the Accounting Point.
Entitled Role for Checking Consent ID		The unique identification of the Party that is checking whether the consent is given to the Specific Party in question for the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the validation of consent is aimed for.
Consent ID		The unique ID for a specific consent for one Customer, the Specific Party and the Accounting Point, as issued by the Consent administrator.
Notify termination of consent Async Additions		Additional information, when notifying termination of consent from the Consent Administrator, needed when using asynchronous communication.

²² It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ²²	Description
Notify termination of consent Additions		Information related to the notification of termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the request.

1.1.6.19 Confirm request valid consent (Class Diagram)

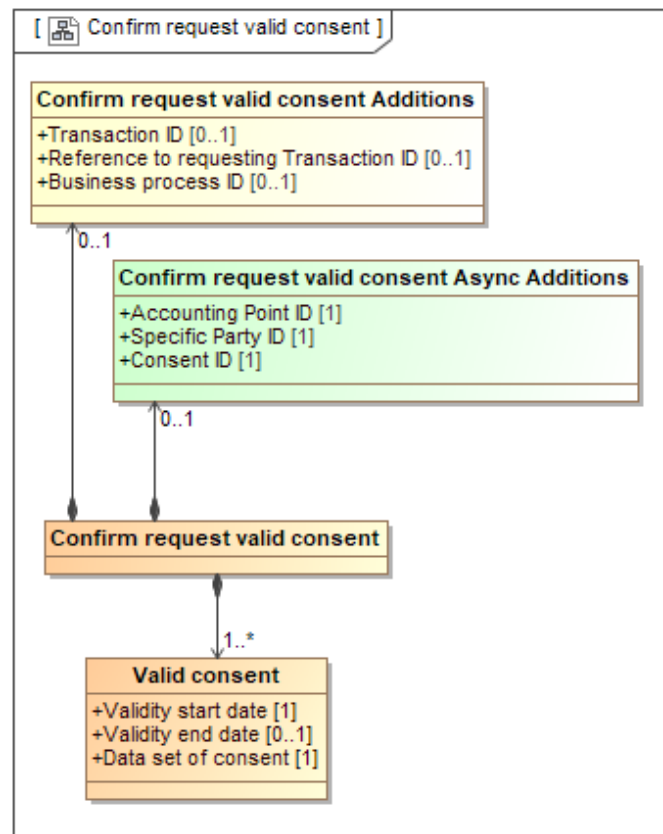


Figure 43 Confirm request valid consent

1.1.6.19.1 Element definitions: Confirm request valid consent

Class/attribute	Sector ²³	Description
«Business entity» Confirm request valid consent	Elec, Gas	The information set to be exchanged by the Consent Administrator to the Entitled Role when confirming a requesting for a valid consent for the Accounting Point at the Consent Administrator.
Valid consent	Elec, Gas	The data set and start date and optionally end date for a valid consent.
Validity start date		The start date for the consent for the use of the data set of the Accounting Point by the Specific Party.
Validity end date ²⁴		The end date for the consent for the use of the data set of the Accounting Point by the Specific Party.

²³ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

²⁴ The end date cannot be used unless there is a national process where the Entitled Role can subscribe for notifications of expiration, ending and termination of consents.

Class/attribute	Sector ²³	Description
Data set of consent		Specification of a dataset of this Accounting Point the consent is given for.
Notify termination of consent Async Additions		Additional information, when notifying termination of consent from the Consent Administrator, needed when using asynchronous communication.
Specific Party ID		The unique identification of the Specific Party that is having consent for the specified dataset of the Accounting Point.
Accounting Point ID		The unique identification of the Accounting Point the consent is given for.
Consent ID		The unique ID for the specific consent from one Customer for the Specific Party and the Accounting Point.
Notify termination of consent Additions		Information related to the notification of termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.
Reference to requesting Transaction ID		The Transaction ID from the request.
Business process ID		The unique identification of this instance of the “Request valid consent process” that this transaction is a part of.

1.1.6.20 Reject request valid consent (Class Diagram)

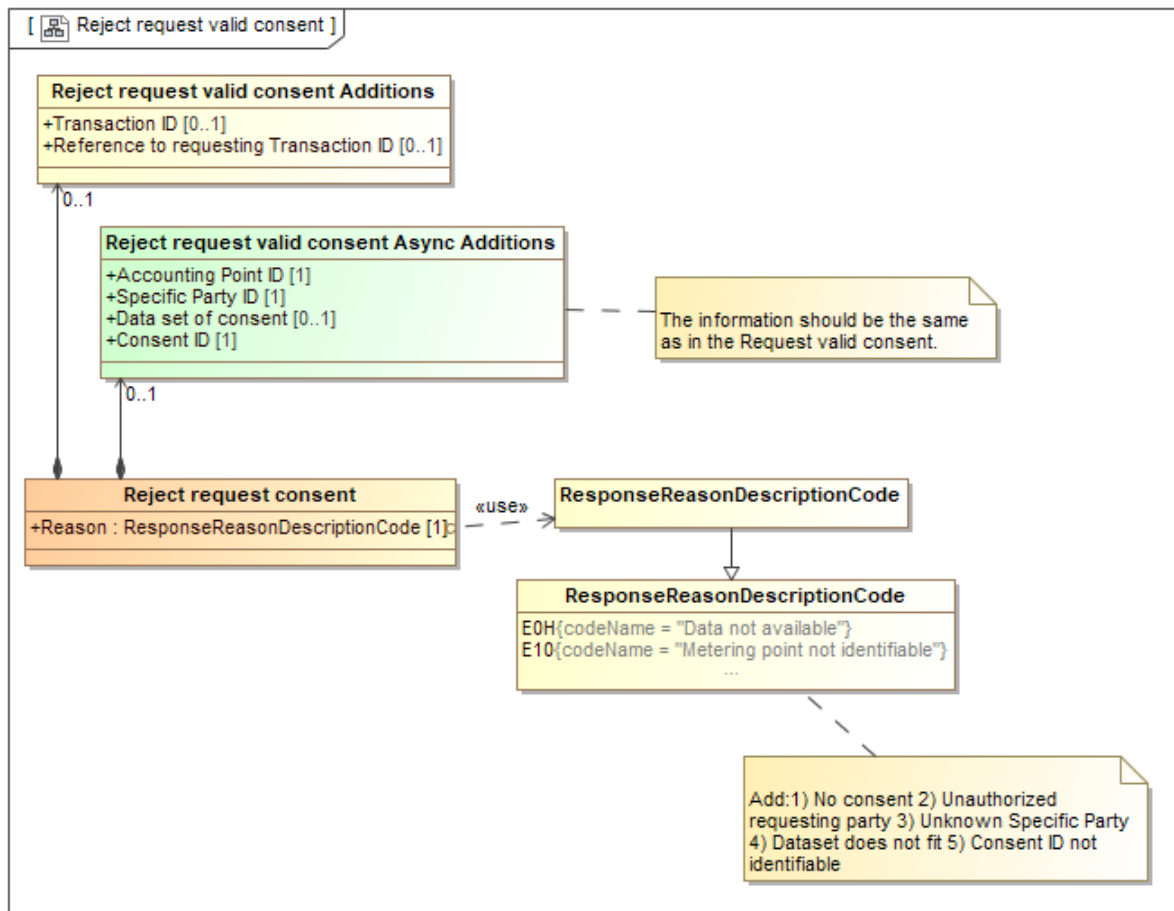


Figure 44 Reject request valid consent

1.1.6.20.1 Element definitions: Reject request valid consent

Class/attribute	Sector ²⁵	Description
«Business entity» Reject request valid consent	Elec, Gas	The information set to be exchanged by the Consent Administrator to the Entitled Role when confirming a requesting for a valid consent for one specific Accounting Point at the Consent Administrator.
Reason		A code specifying the reason for the rejection of the "Request valid consent".
Notify termination of consent Async Additions		Additional information, when notifying termination of consent from the Consent Administrator, needed when using asynchronous communication.
Accounting Point ID		The unique identification of the Accounting Point the request was aimed for.

²⁵ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

Class/attribute	Sector ²⁵	Description
Specific Party ID		The unique identification of the Specific Party that was requested to be checked for having consent for the specified dataset in the Accounting Point.
Data set of consent		Specification of the dataset of this Accounting Point that was asked to be checked for valid consent.
Consent ID		The unique ID, as given in the request, for the specific consent from one Customer for the Specific Party and the Accounting Point.
Notify termination of consent Additions		Information related to the notification of termination of consent, needed for technical reasons or to be agreed on a national level.
Transaction ID		The unique identification of this set of information given by the sender of the confirmation.
Reference to requesting Transaction ID		The Transaction ID from the request.

Appendix A. Header and Context information for the class diagrams

A.1. Header and Context Information attributes definitions

Class/attribute	Sector ²⁶	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 consent

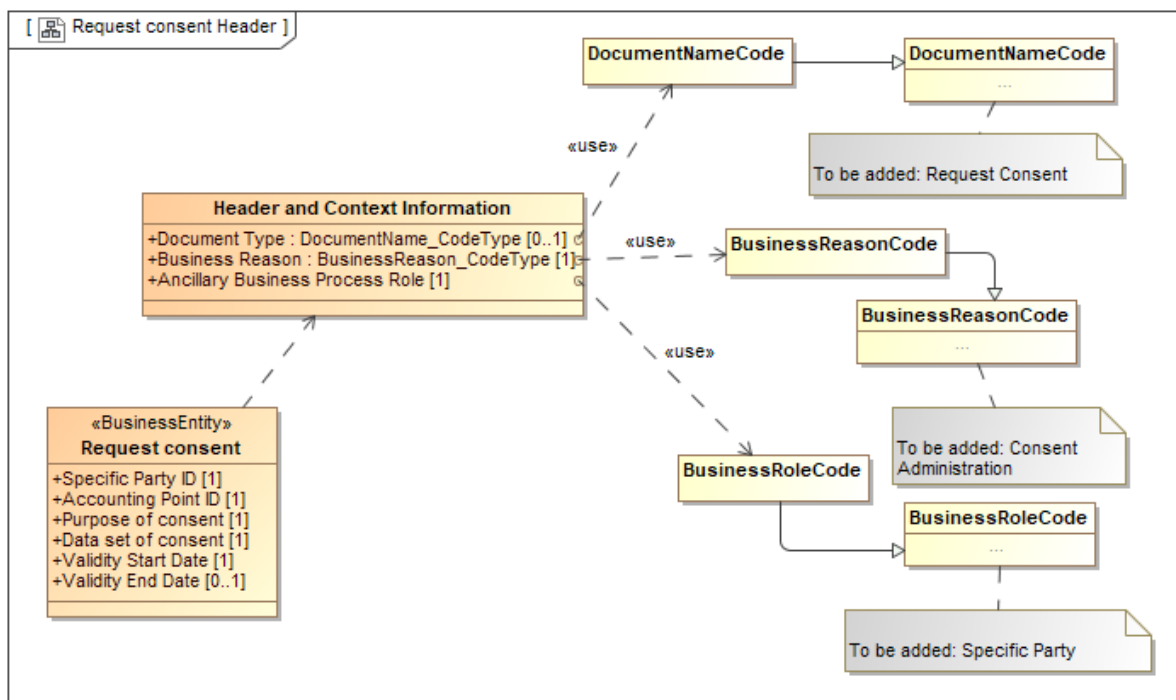


Figure 1 Class diagram: Header and Context Information Request consent

²⁶ It is assumed that Accounting Points are uniquely dedicated to either electricity or to gas.

A.3. Confirm request consent

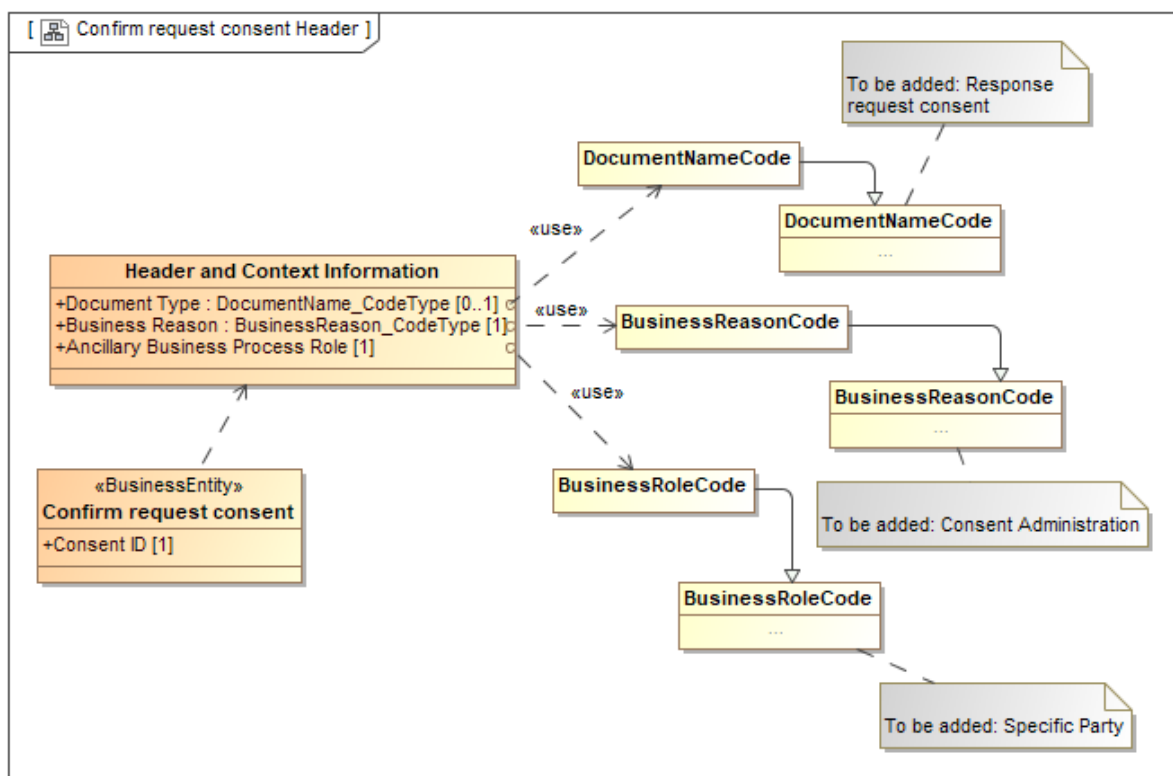


Figure 2 Class diagram: Header and Context Information Confirm request consent

A.4. Reject request consent

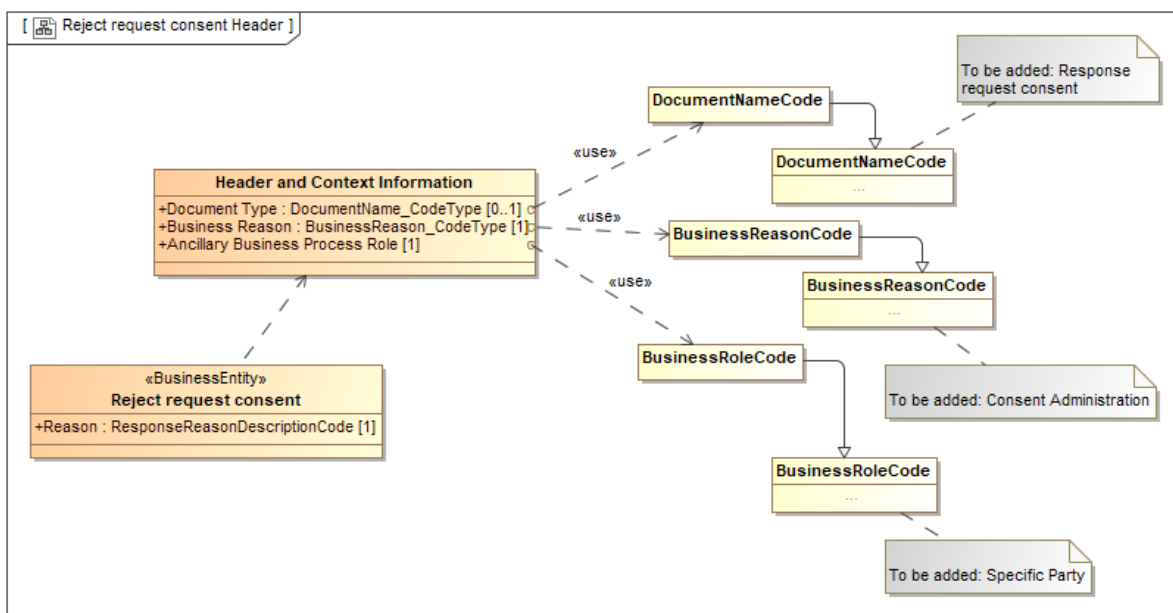


Figure 3 Class diagram: Header and Context Information Reject request consent

A.5. Notify consent

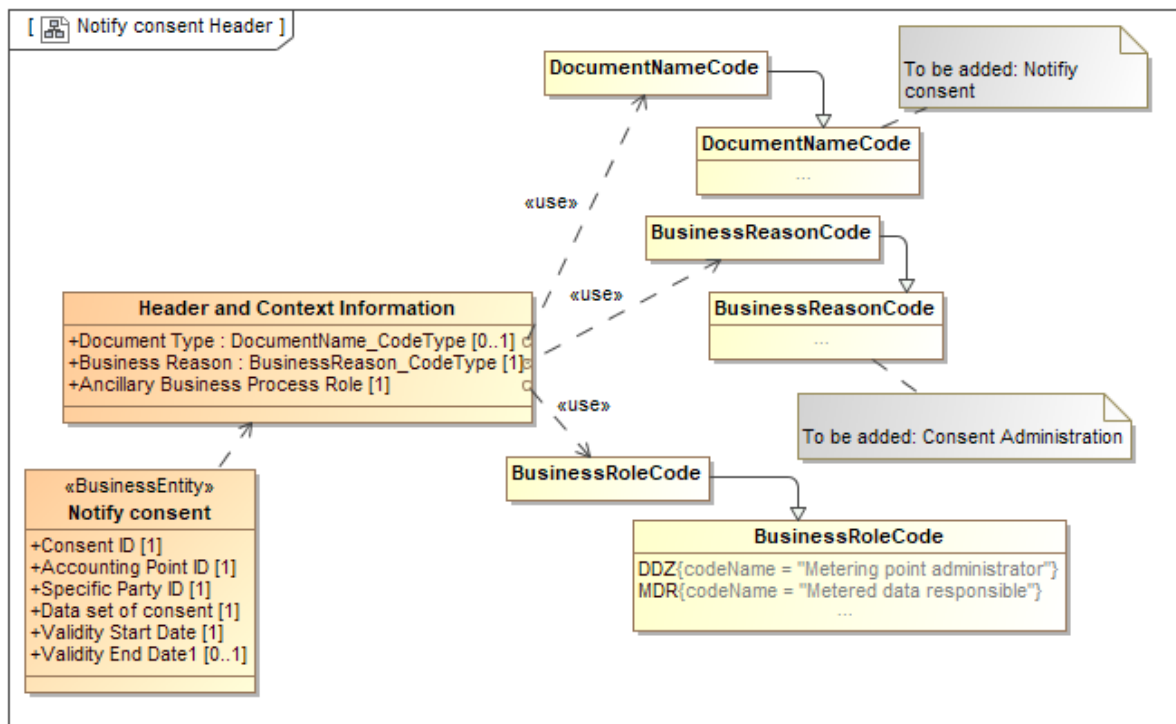


Figure 4 Class diagram: Header and Context Information Notify consent

A.6. Notify withdrawal of consent

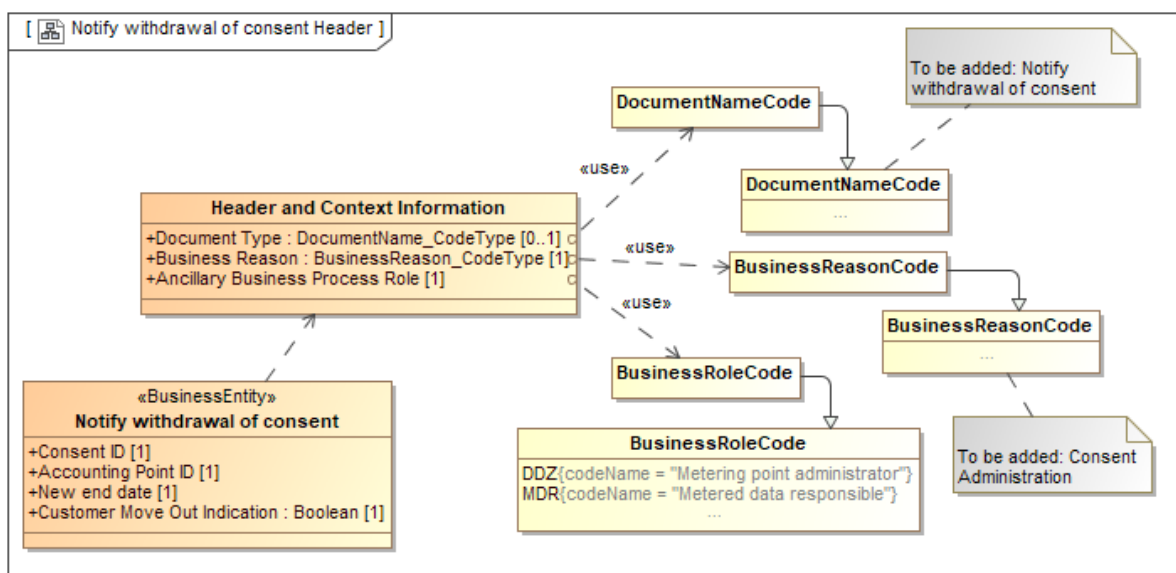


Figure 5 Class diagram: Header and Context Information Notify withdrawal of consent

A.7. Request termination of Customer consent

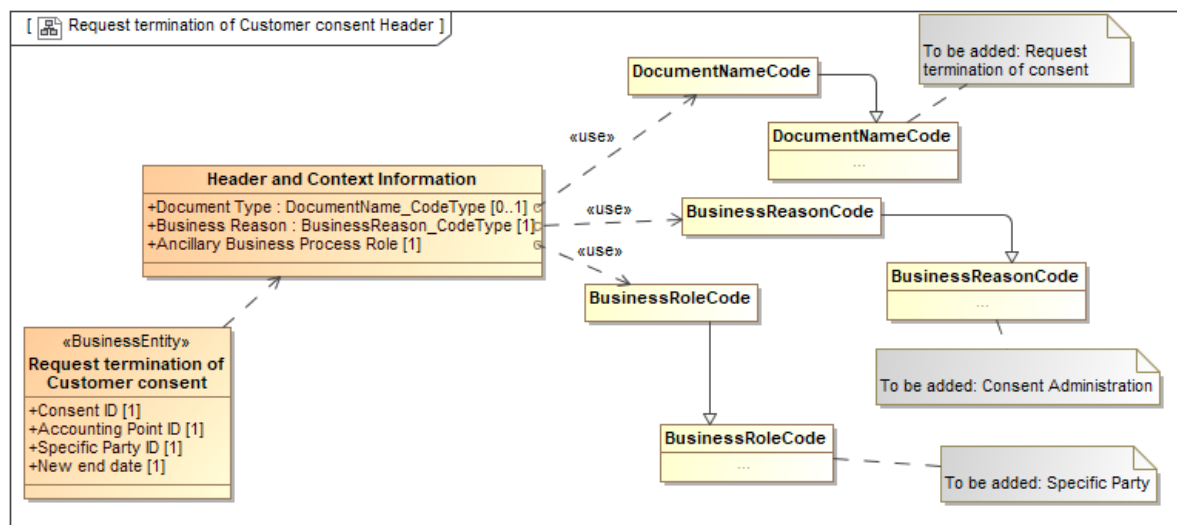


Figure 6 Class diagram: Header and Context Information Request termination of Customer consent

A.8. Confirm request termination of Customer consent

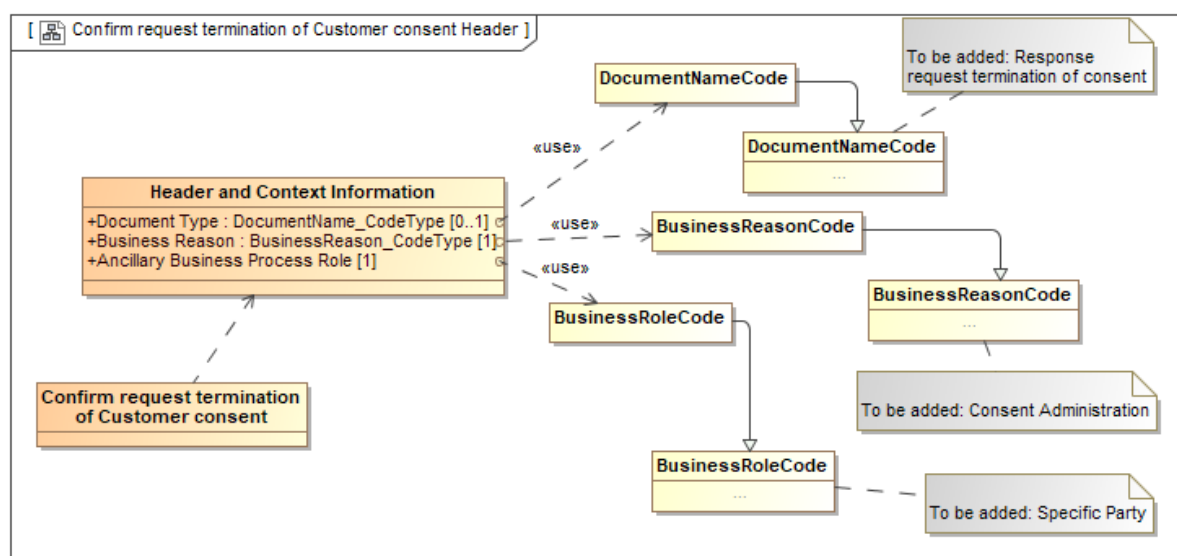


Figure 7 Class diagram: Header and Context Information Confirm request termination of Customer consent

A.9. Reject request termination of Customer consent

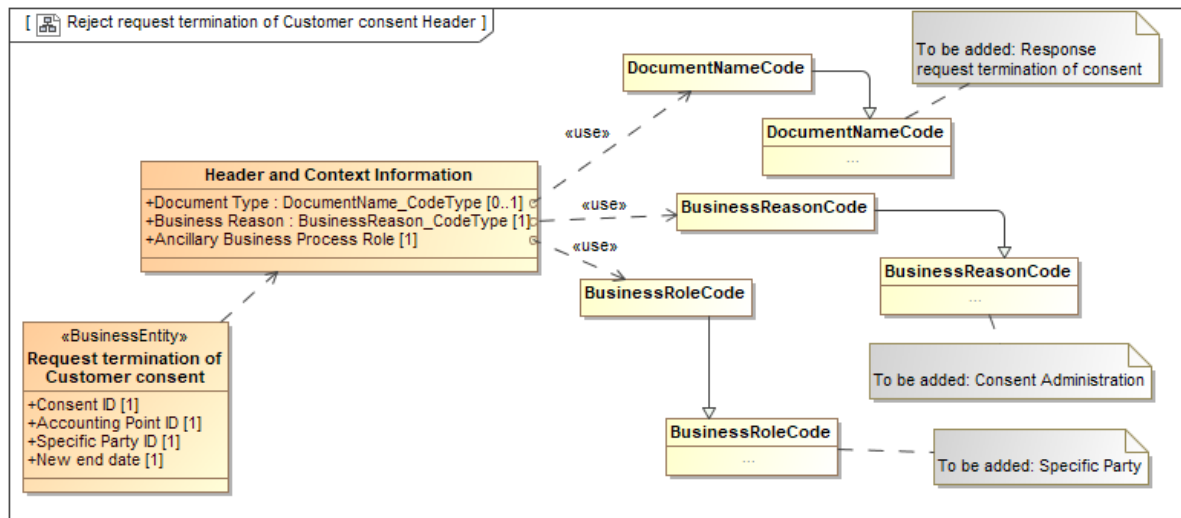


Figure 8 Class diagram: Header and Context Information Reject request termination of Customer consent

A.10. Request valid consent

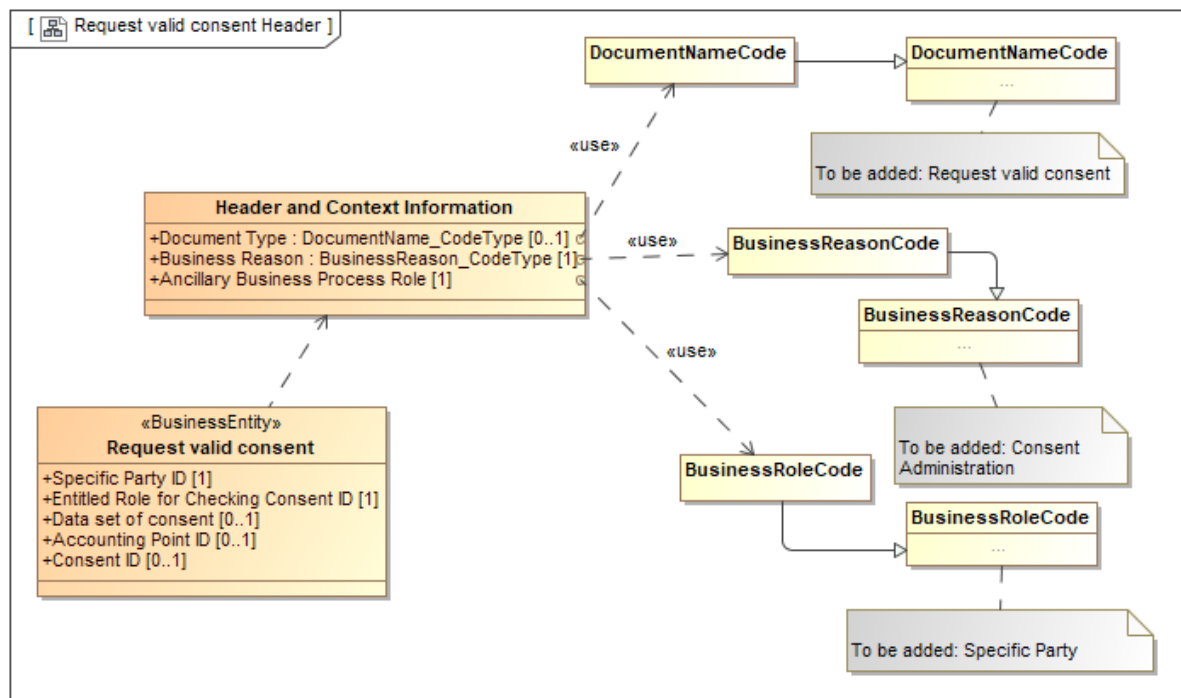


Figure 9 Class diagram: Header and Context Information Request valid consent

A.11. Confirm request valid consent

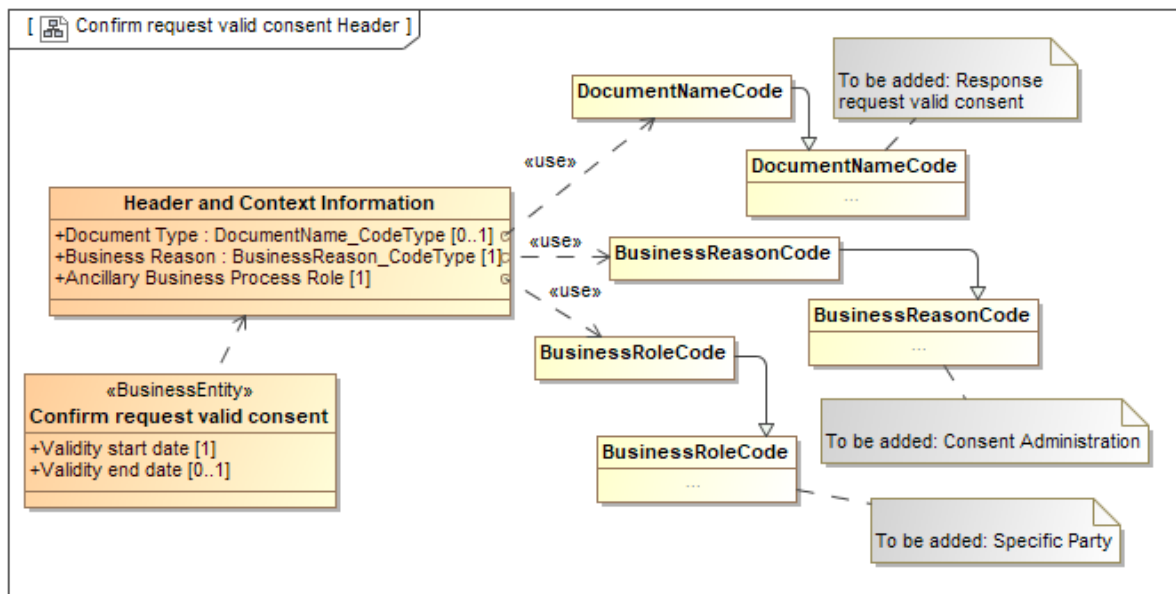


Figure 10 Class diagram: Header and Context Information Confirm request valid consent

A.12. Reject request valid consent

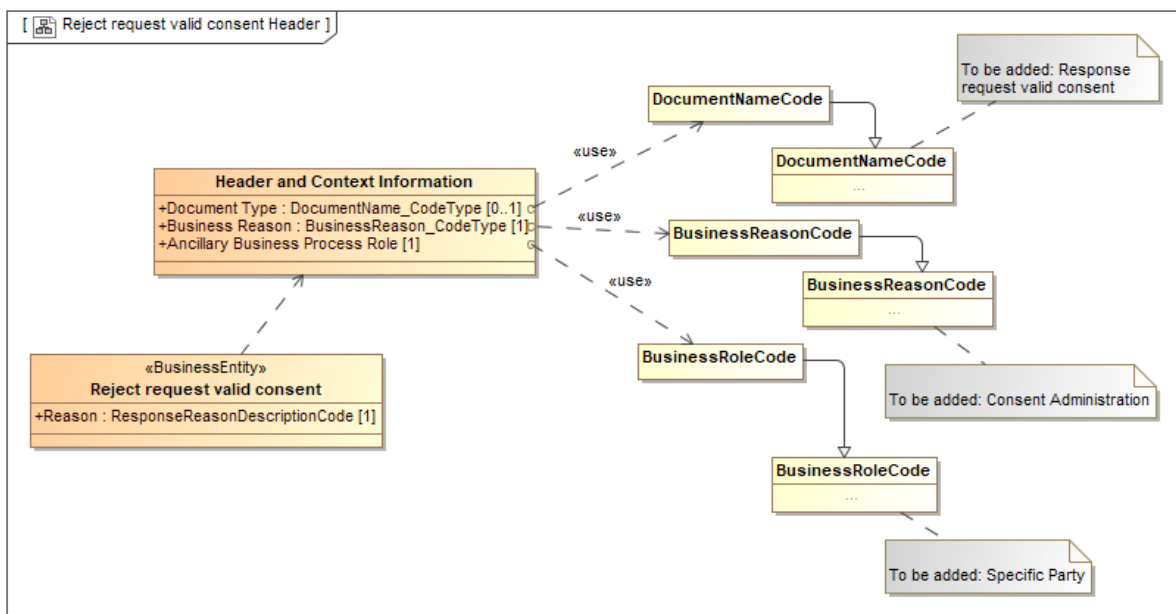


Figure 11 Class diagram: Header and Context Information Reject request valid consent