Business Requirements

for

Administration

of

consent

C O N T E N T

A. About this document

This document is a Business Requirements Specification (BRS) for Administration of consents for third party access to energy related data and measured data, within the structuring process of the European energy market.

Currently, this document deals with administration of consents in the energy sector only. However, we see similarities with other sectors and expect that a harmonisation with other sectors may be inevitable.

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].

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" [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 (www.ebix.org);

[8] ebIX® Business Requirements for alignment of Accounting Point characteristics (www.ebix.org);

[9] ebIX® BRS for Customer Move (www.ebix.org).

A.2.   Main changes since last version

Old	New	Clarification	Date
		1.0	
	1.0.A	First published version.	20190327
		1.1	
1.0.A	1.1.A	Addition of clarifications based on comments from Elering.	20190905
1.1.A	1.1.B	Correction of text in the precondition in chapter 1.1.3.2.2.1.	20190911
1.1.B	1.1.C	• Harmonised the introduction with other ebIX® BRSs. • Correction of spelling errors and addition of clarifying text.	20201009
1.1.C	1.2.A	• Correction of sequence of attributes in class diagrams • spelling errors and addition of clarifying text • Update of roles to be in line with the ebIX®, EFET and ENTSO-E Harmonised Electricity Market Role Model version 2022-01. • Introduction of the role Data Provider as the party that needs to check consents. The Data Provider replaces the Entitled Role for Checking Consent. • The Metered Data Responsible is removed as a role that needs to check consent.	20221116
1.2.A	1.2.B	• Correction of spelling errors.	20230815
1.2.B	1.2.C	• Correction of spelling errors.	20231002

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 document 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 [9]). 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 document 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), a Flexibility Settlement Responsible, a Flexibility Service Provider (FSP) etc., 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.
- We use the role Data Provider for a party who needs to check consent before he can distribute data to a Specific Party. Examples of Data Providers are Metering Point Administrator, Metered Data Administrator, Flexibility Register Administrator, Flexibility Settlement Responsible etc.
- In this document 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, for a purpose and a specified period, for a certain set of data for an Accounting Point or a Resource given to a Specific Party by the Customer for that Accounting Point or the Resource. The Consent Administrator makes this information available on request from Data Providers 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 data[1]. 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.
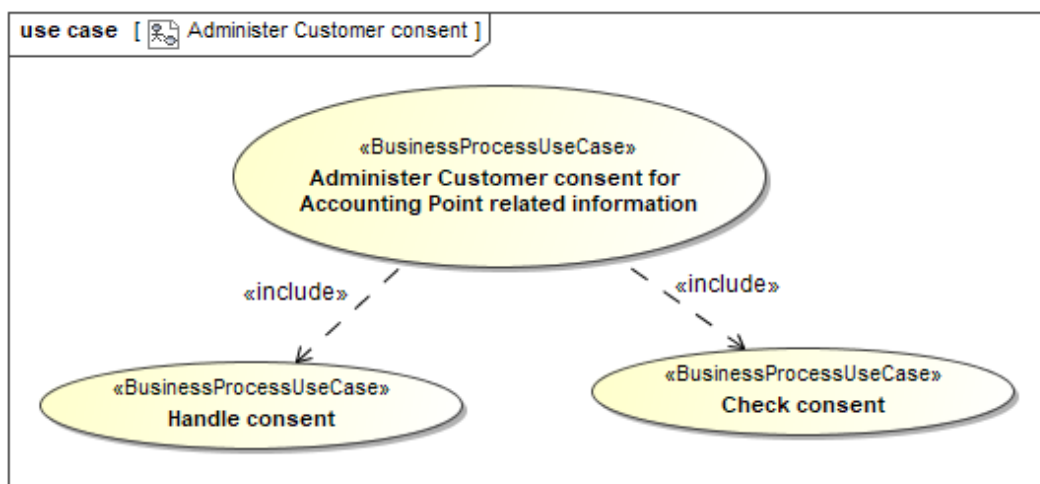
Figure 1 UseCase diagram: Administer Customer consent for Accounting Point related information

1.1.3.1 Description

UseCase description: Administer Customer consent for Accounting Point related information	
definition	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.

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. |
| 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. |

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

preCondition	A Specific Party wants access to customer-data for which a Customer consent is needed.
	The Customer is willing to give his consent for data access to that Specific Party.
endsWhen	When all the consents for the Customer in the consent administration either have expired or have been withdrawn.
postCondition	All consents for the Customer in the consent administration have expired, have been withdrawn or the Customer has moved out of the Accounting Point[2].
exceptions	None
actions	Not relevant at this level.

[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)
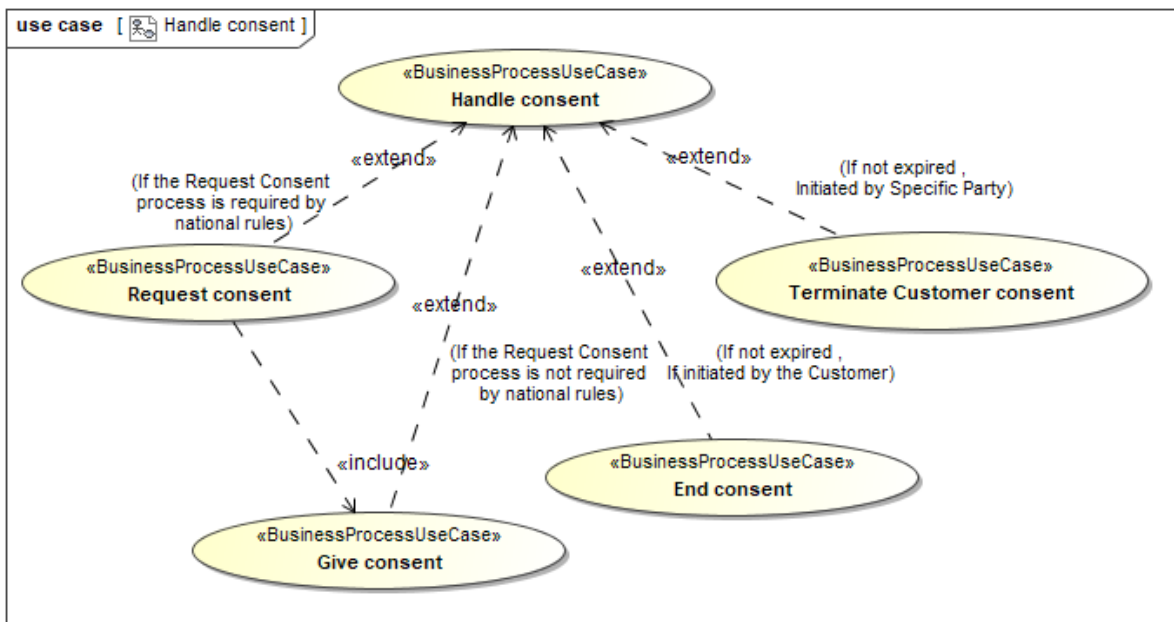
Figure 2 UseCase diagram: Handle consent

1.1.3.2.1 Description

UseCase description: Handle consent	
definition	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. Based on national rules, the Specific Party may (have to) request the consent to the Consent Administrator, before the Customer can give the consent. Additionally, the Specific Party may (have to) notify the termination of the consent when his contract with the Customer ends.
beginsWhen	When there is a need to access customer data by a Specific Party.
preCondition	A Specific Party wants access to data related to the Accounting Point of a Customer. The Customer is in principle willing to give consent to the Specific Party.
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.

1.1.3.2.2   Request consent (Business Process UseCase)
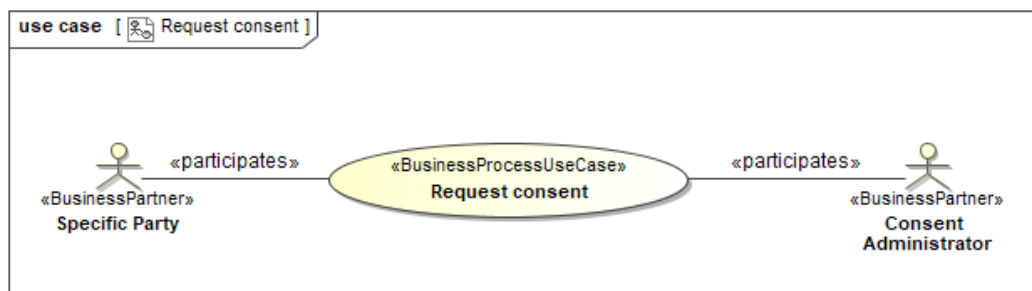
Figure 3 UseCase diagram: Request consent

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	The Specific Party needs a consent from a Customer and the Customer has agreed that the Specific Party can request a consent. The Specific Party is known by the Consent Administrator. 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.
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
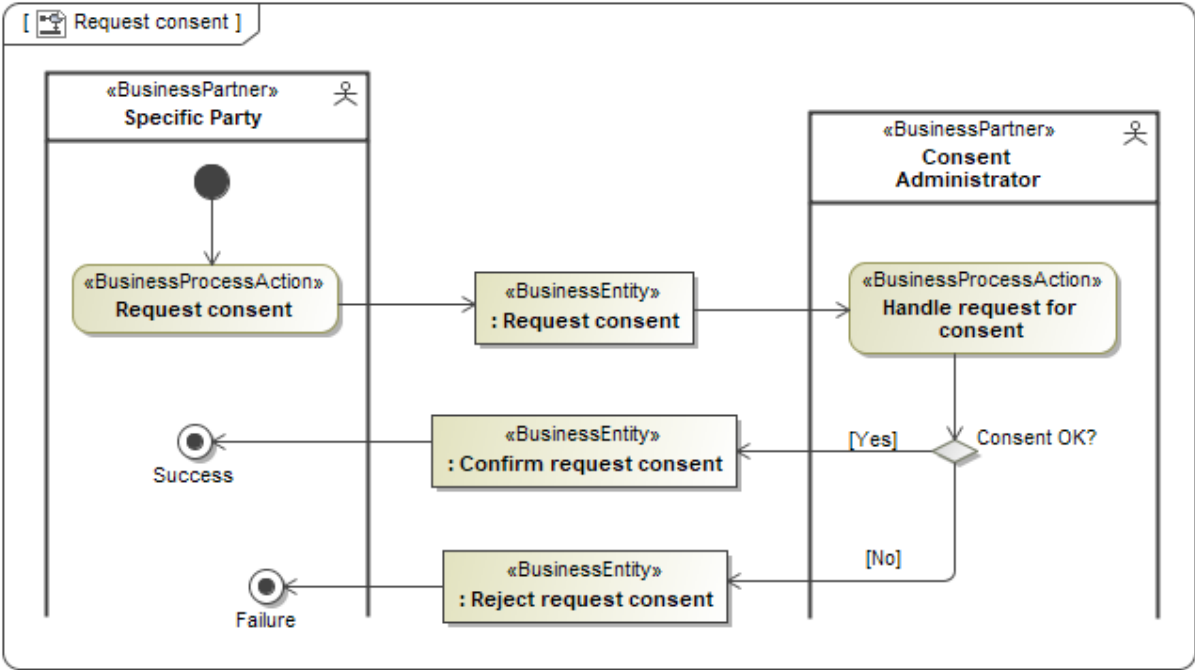
Figure 4 Business Process: Request consent

1.1.3.2.3   Give consent (Business Process UseCase)
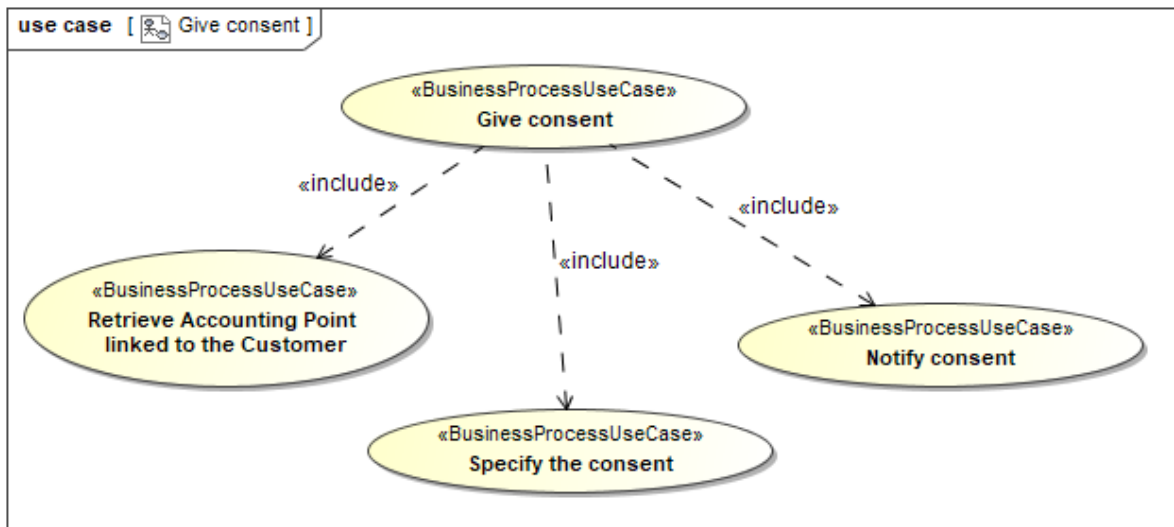
Figure 5 UseCase diagram: Give consent

1.1.3.2.3.1   Description

UseCase description: Give consent	
definition	In this process, the Customer identifies itself[3] 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. The Specific Party will be notified that the consent is given to him by the Customer.
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	The Customer wants to give consent to a Specific Party for access to a specified dataset of the Accounting Point. The link between the Customer and the Accounting Point is defined.
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.

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[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
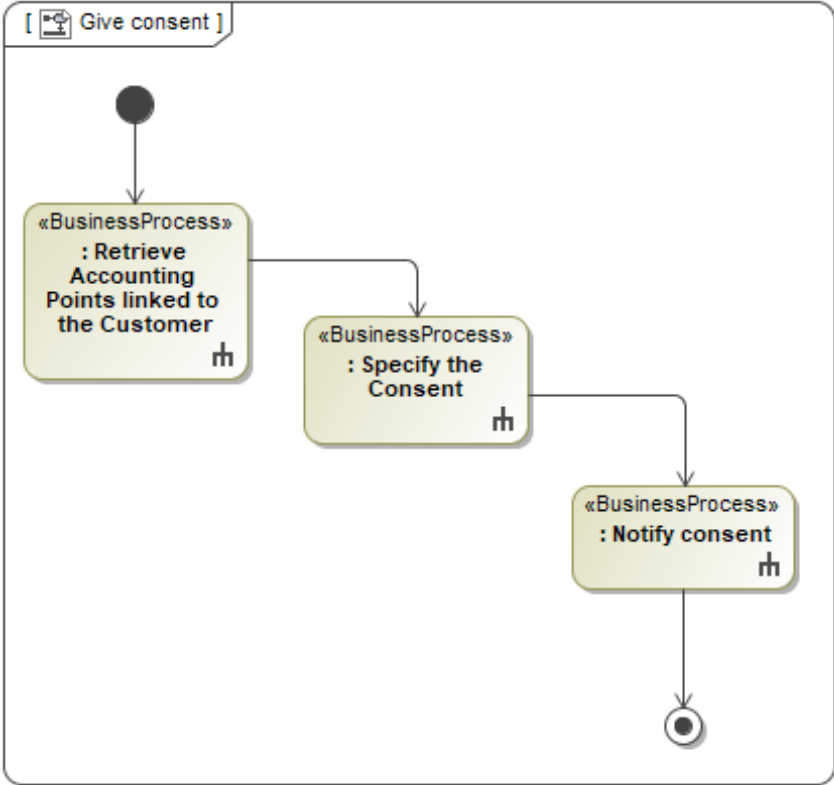
Figure 6 Business Process: Give consent

1.1.3.2.3.3   Retrieve Accounting Point linked to the Customer (Business Process UseCase)
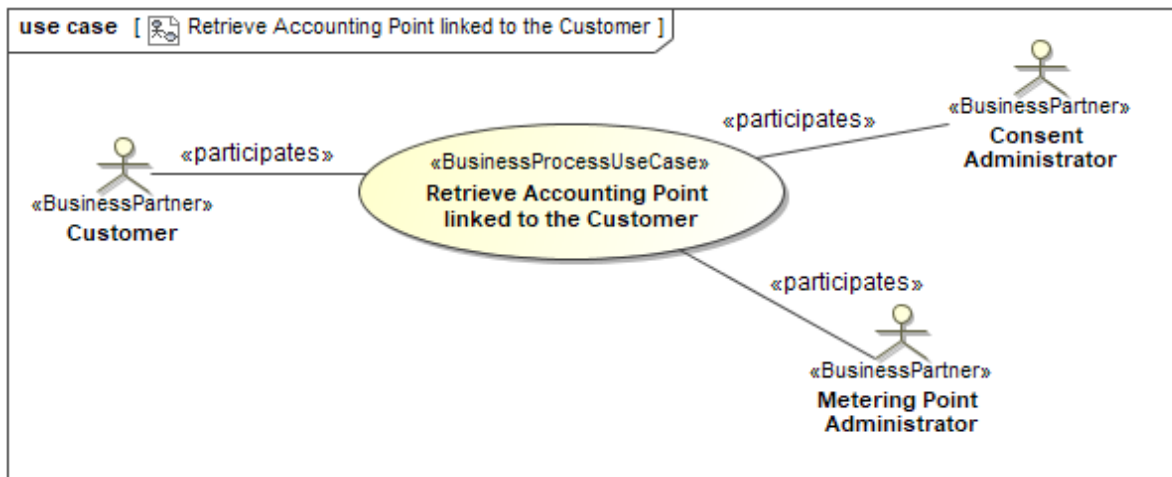
<p style="text-align:center">**Figure 7** UseCase diagram: Retrieve Accounting Point linked to the Customer</p>

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

1.1.3.2.3.3.2 Business process

Figure 8 Business Process: Identify the Customer

1.1.3.2.3.4   Specify the consent (Business Process UseCase)
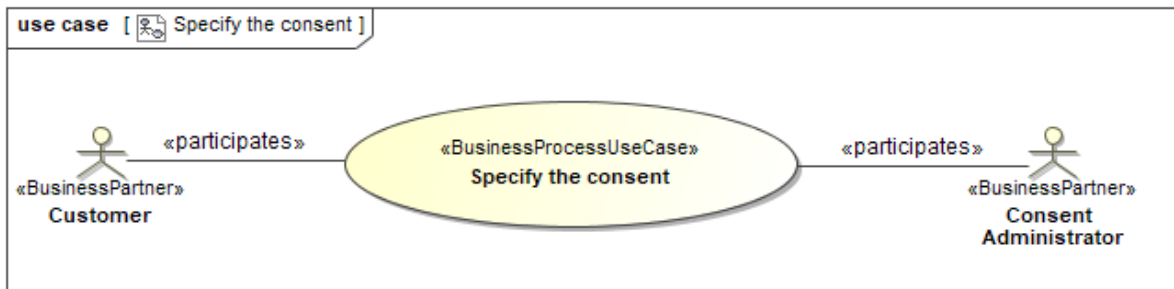
Figure 9 UseCase diagram: Specify the consent

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	The Customer wants to give consent to a Specific Party to access a specified dataset of the Accounting Point, for a specified period. The Customer and the Accounting Point have been identified. The Specific Party is known at the Consent Administrator. Based on national rules there is a requested consent.
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	The Customer has specified the Specific Party to use a specified dataset of the Accounting Point for a specified period. A Consent ID has been issued by the Consent Administrator.
exceptions	None
actions	See 1.1.3.2.3.4.2

1.1.3.2.3.4.2 Business process
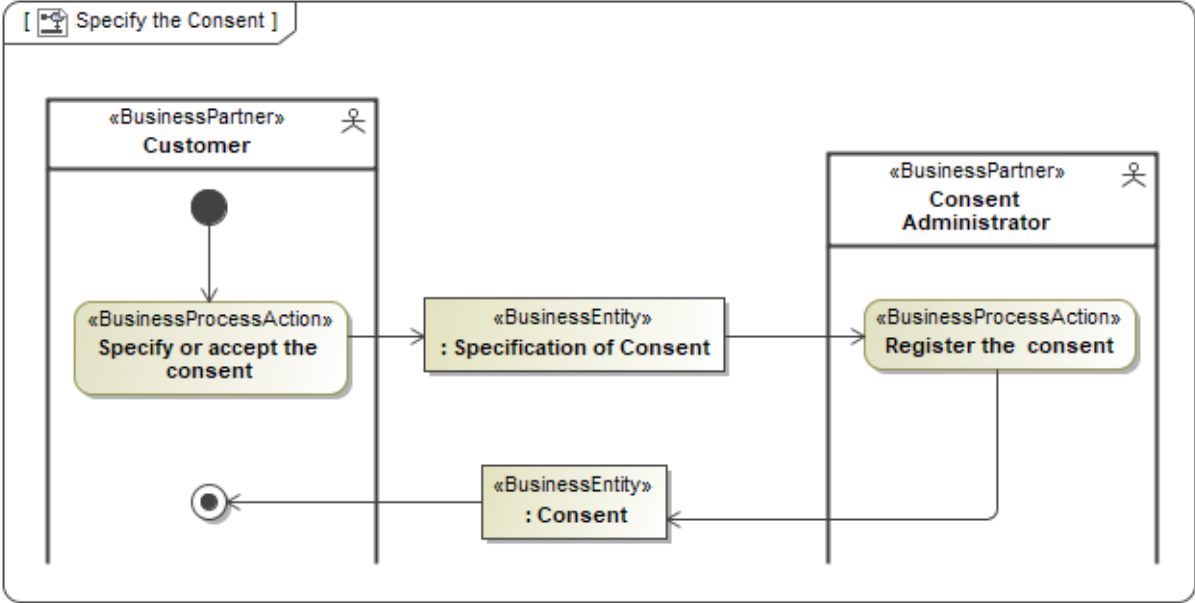
Figure 10 Business Process: Specify the consent

1.1.3.2.3.5   Notify consent (Business Process UseCase)
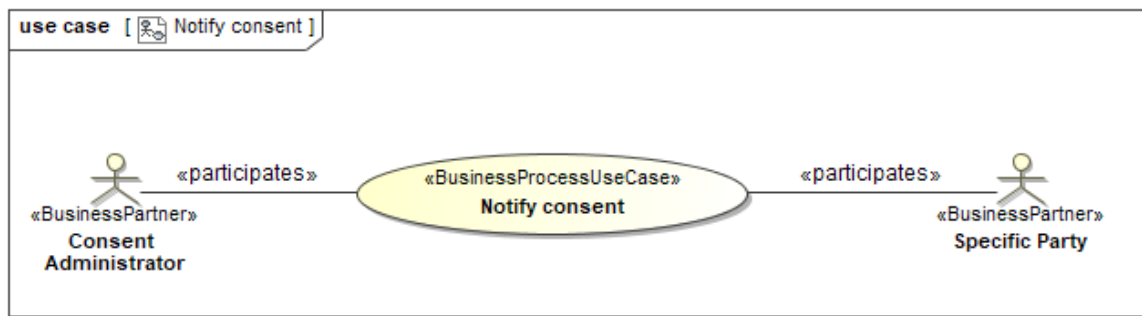
Figure 11 UseCase diagram: Notify consent

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
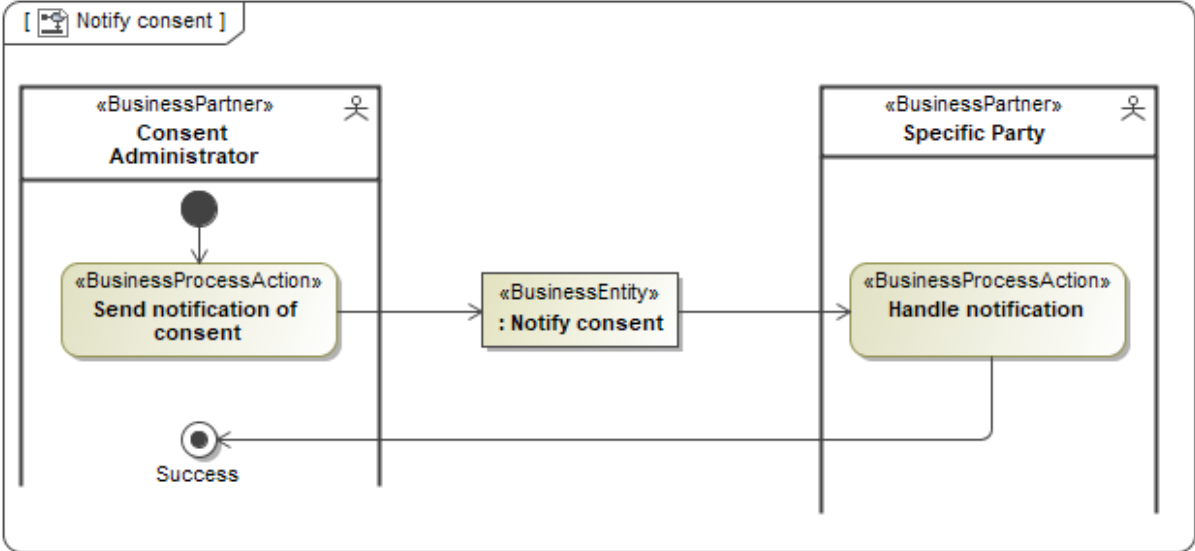
Figure 12 Business Process: Notify consent

1.1.3.2.4   End consent (Business Process UseCase)
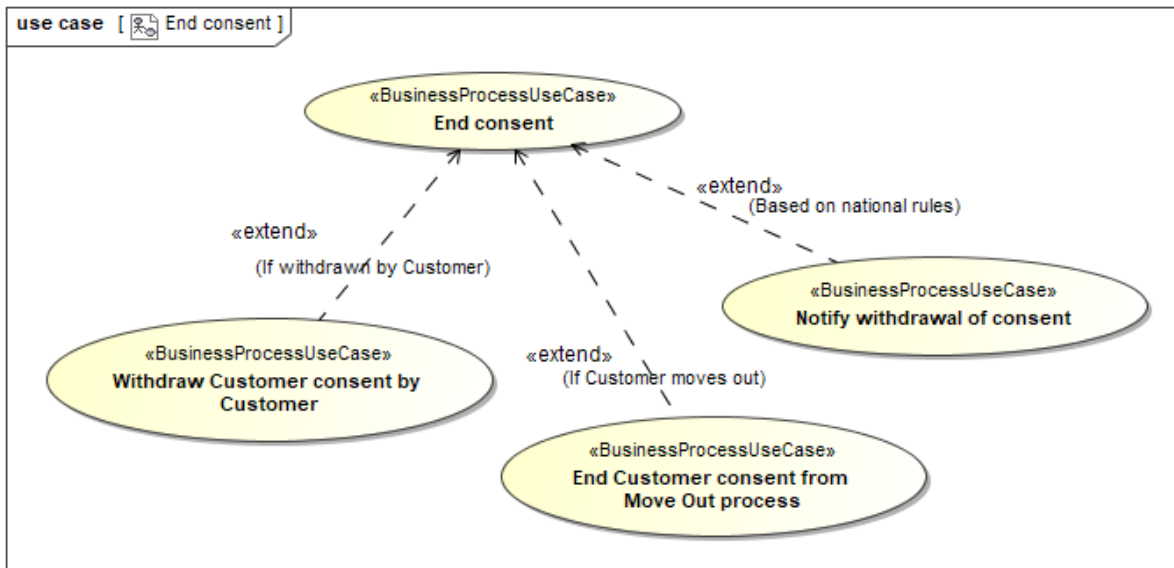
Figure 13 UseCase diagram: End consent

1.1.3.2.4.1   Description

UseCase description: End consent	
definition	In this process, the Customer consent for an Accounting Point is ended. The end may be triggered by: 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
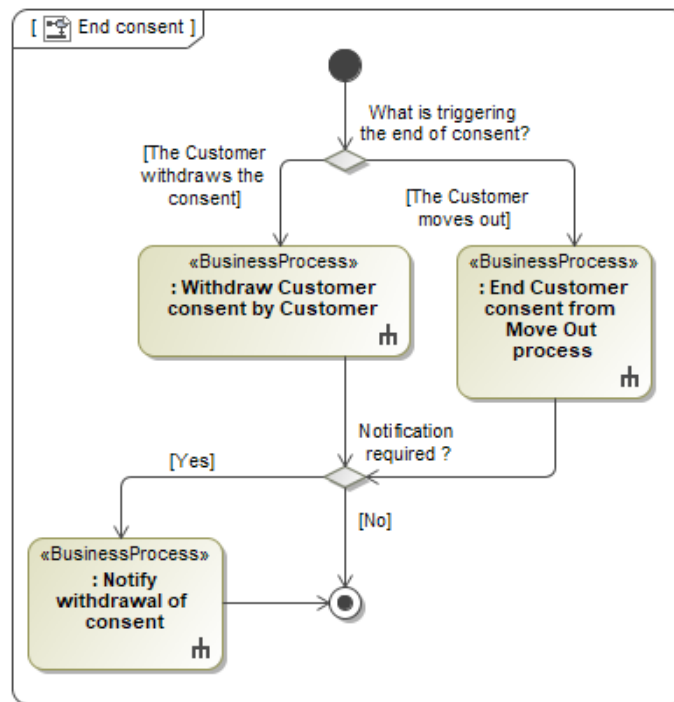
Figure 14 Business Process: End consent

1.1.3.2.4.3   Withdraw Customer consent by Customer (Business Process UseCase)
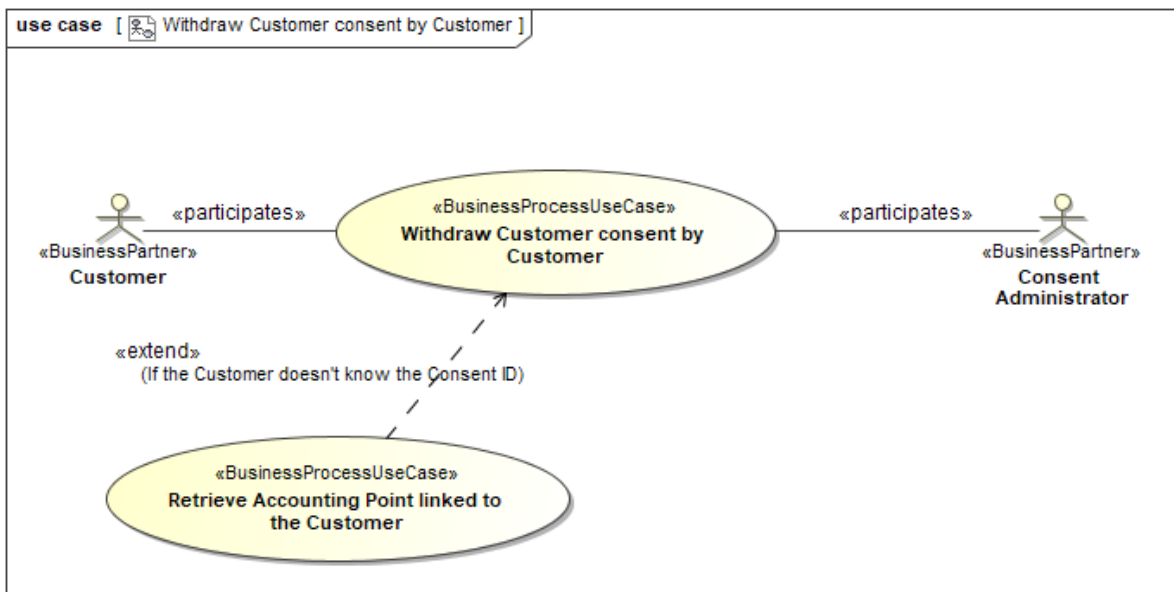
Figure 15 UseCase diagram: Withdraw Customer consent by Customer

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
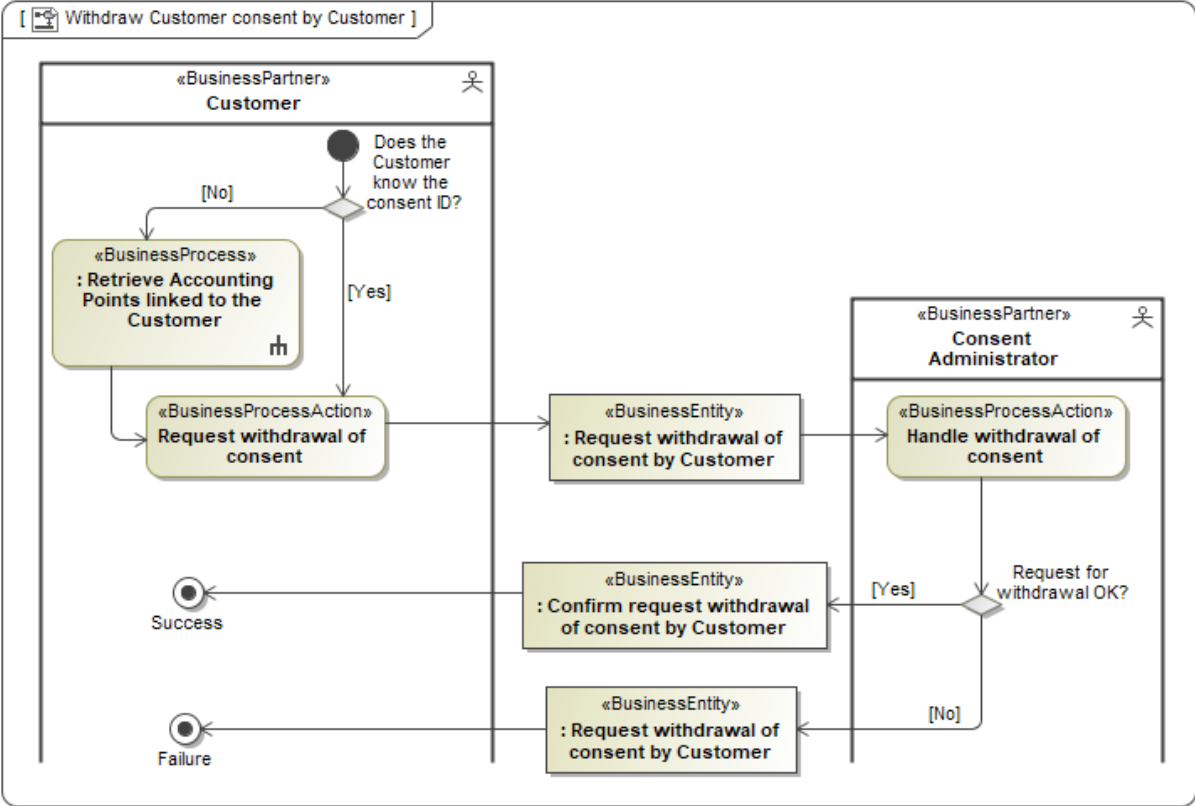
Figure 16 Business Process: Withdraw Customer consent by Customer

1.1.3.2.4.4 *End Customer consent from Move Out process (Business Process UseCase)*
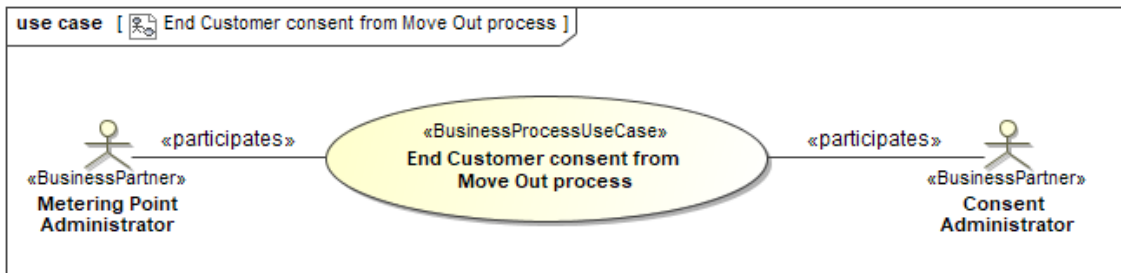
Figure 17 UseCase diagram: End Customer consent from Move Out process

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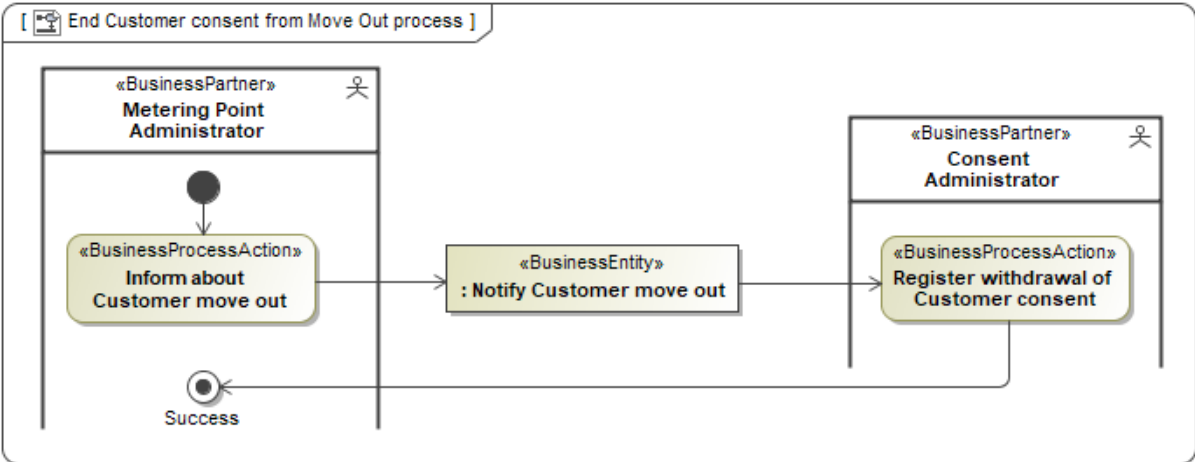
Figure 18 Business Process: End Customer consent from Move Out process

1.1.3.2.4.5   Notify withdrawal of consent (Business Process UseCase)
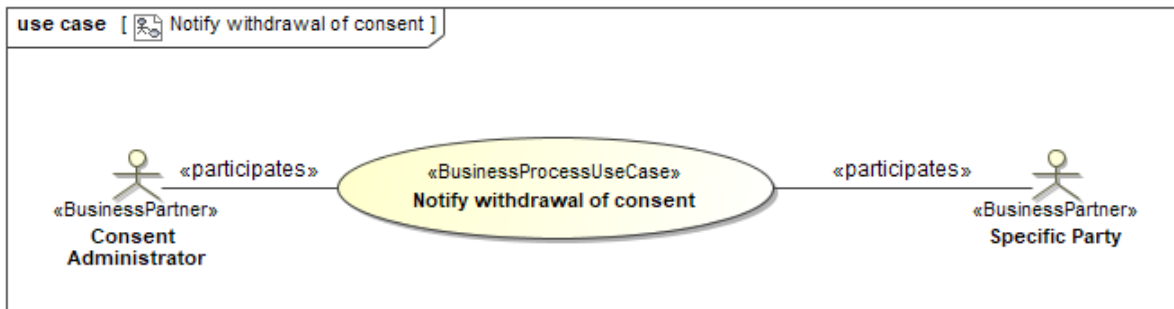
Figure 19 UseCase diagram: Notify withdrawal of consent

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
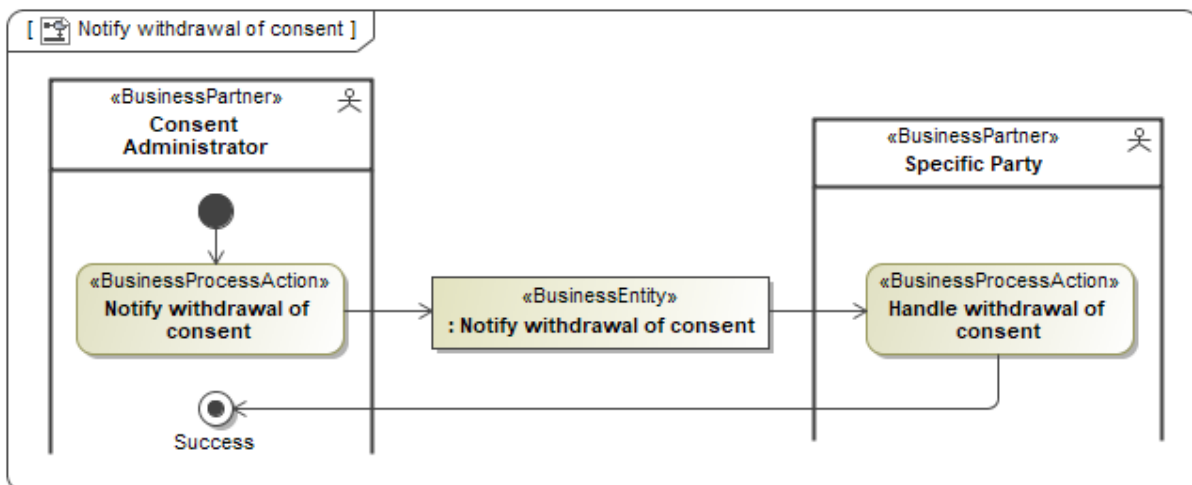
Figure 20 Business Process: Notify termination of consent

1.1.3.2.5   Terminate Customer consent (Business Process UseCase)
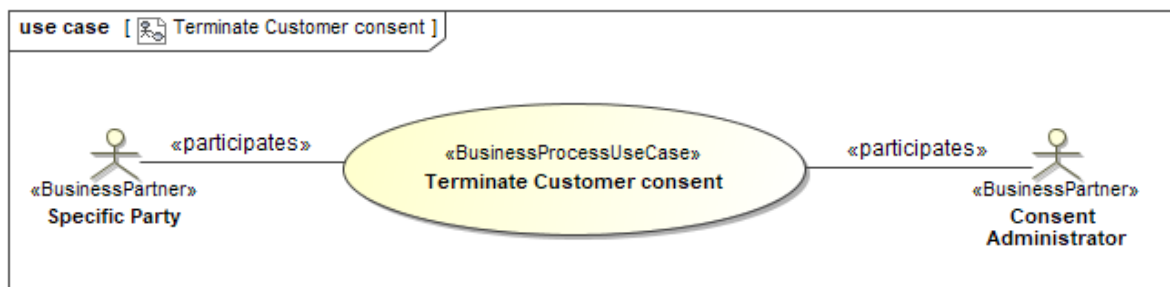
Figure 21 UseCase diagram: Terminate Customer consent

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	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. 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.
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
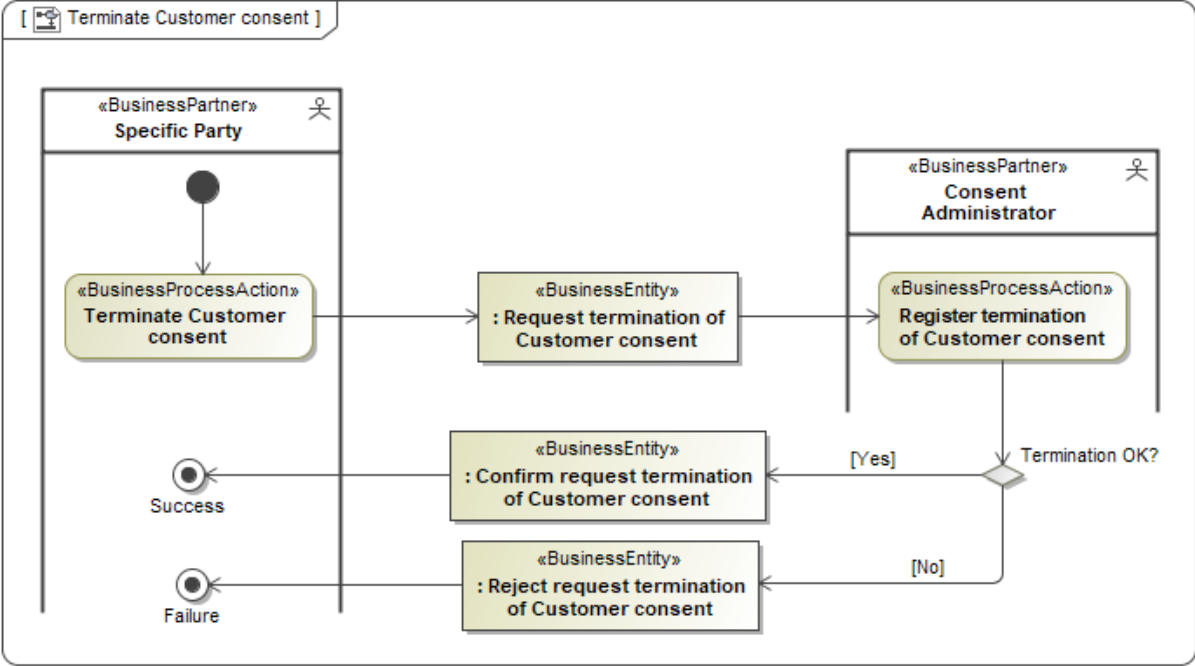
Figure 22 Business Process: Terminate Customer consent

1.1.3.3   Check consent (Business Process UseCase)
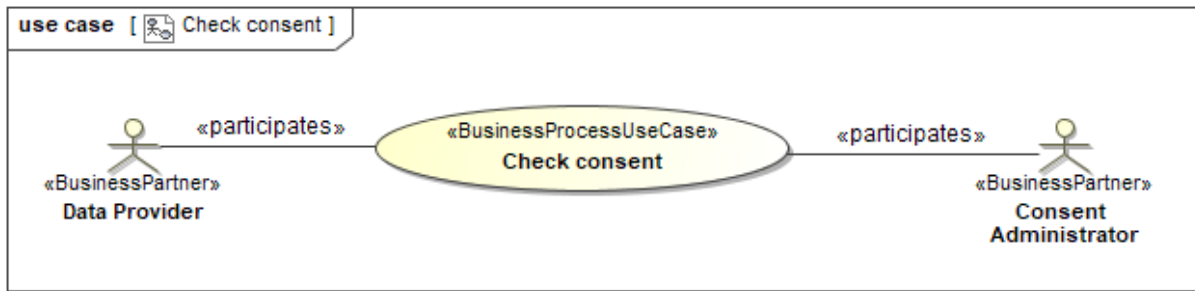
Figure 23 UseCase diagram: Check consent

1.1.3.3.1   Description

UseCase description: Check consent	
definition	In this process, a Data Provider, 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 Data Provider has a need to check a consent for data access of the Customer's Accounting Point to a Specific Party.
preCondition	The Data Provider has received a request for data from a Specific Party for an Accounting Point.

The Data Provider is known at the Consent Administrator. |
endsWhen	When the Data Provider has received information related to the Customers consent.
postCondition	The Data Provider 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

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[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 Data Provider to verify that there is a valid consent.

1.1.3.3.2   Business process
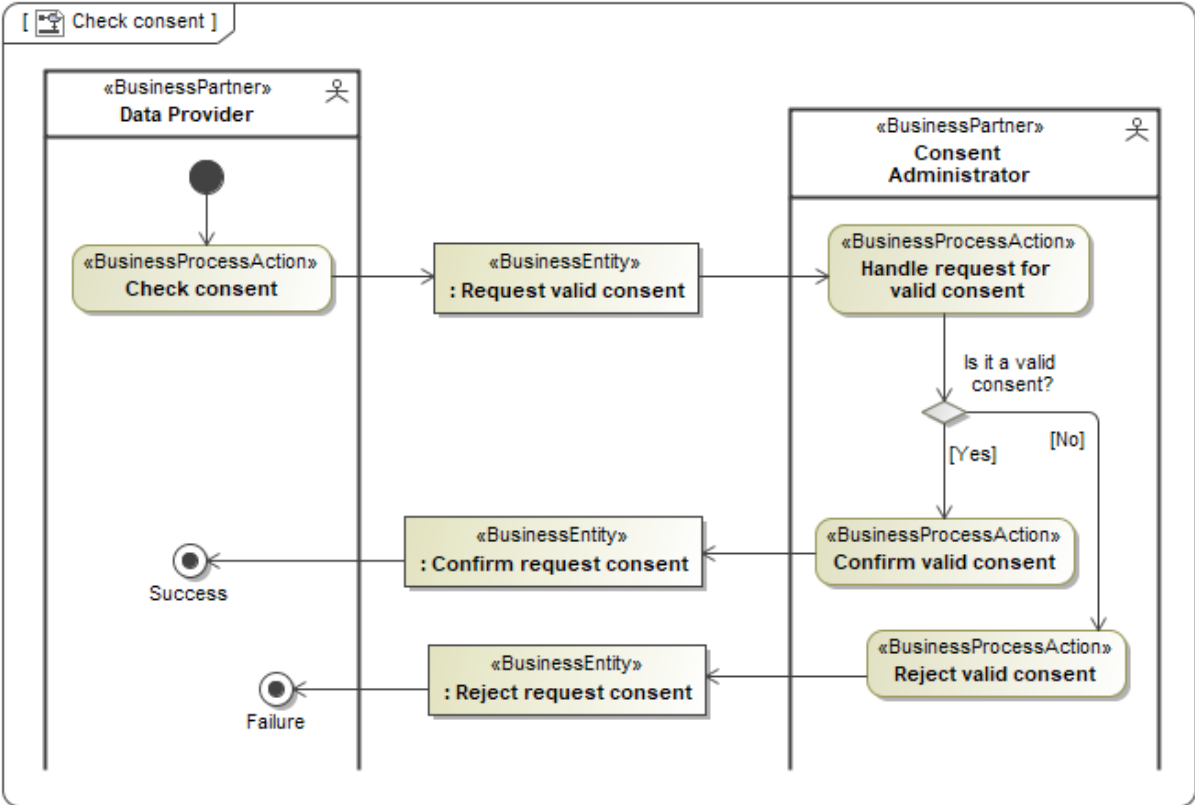
Figure 24 Business Process: Check consent

1.2   Business Partner View

1.2.1   Business partners related to Administer Customer consent for Accounting Point related information
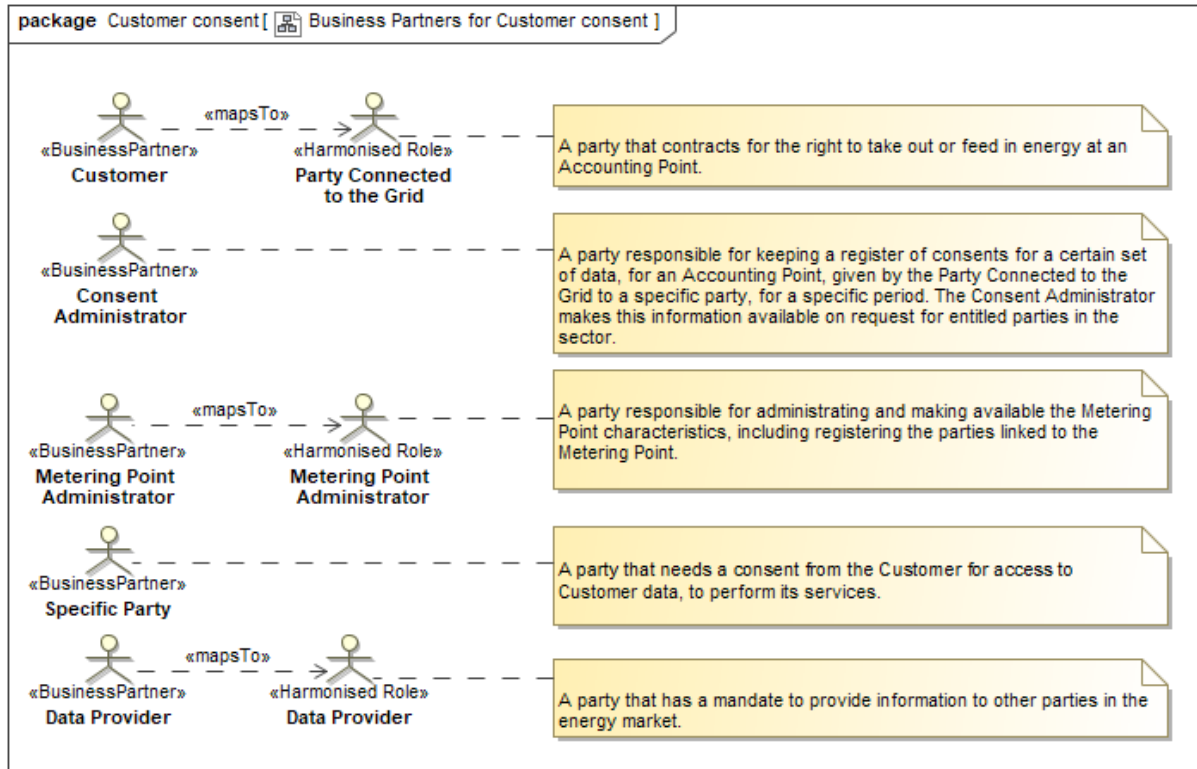
Figure 25 Business partners related to Administrate Customer consent

1.3   Business Data View

A general introduction to the Business Data View can be found in the Introduction to ebIX® Business Requirements and Business Information Models (www.ebix.org) [4].

1.3.1   Request consent (Class Diagram)
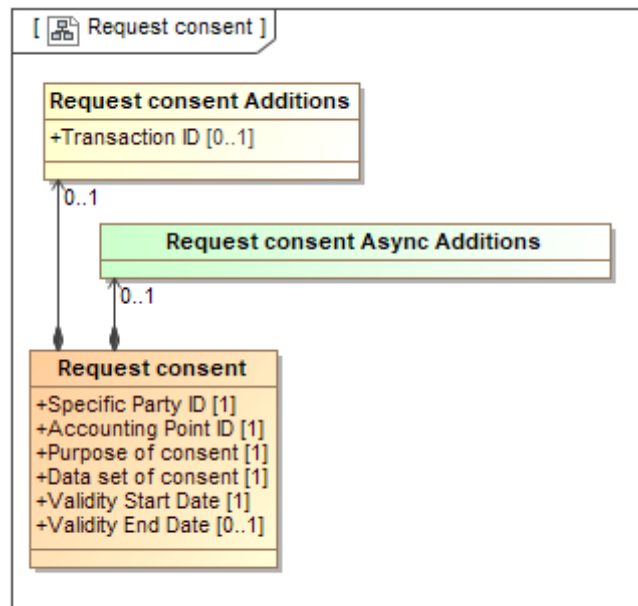
Figure 26 Request consent

1.3.1.1   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.

1.3.2   Confirm request consent (Class Diagram)
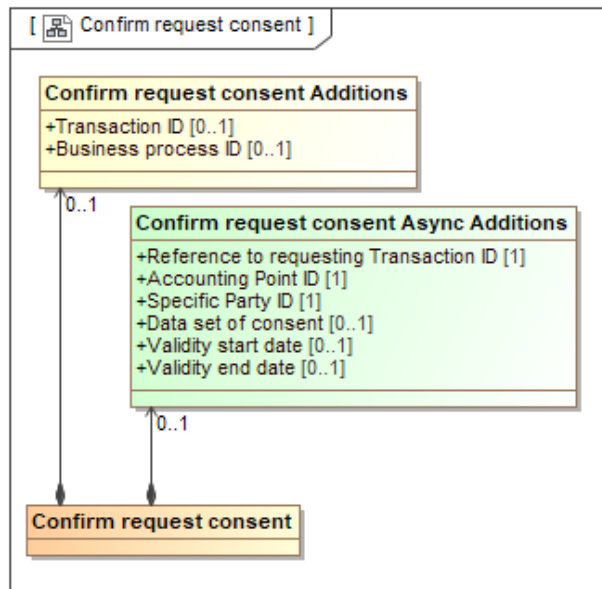
Figure 27 Confirm request consent

1.3.2.1   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.
Reference to requesting Transaction ID		The Transaction ID from the request.
Accounting Point ID		The unique identification of the Accounting Point the request consent was aimed for.
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.
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.

---

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

Class/attribute	Sector[6]	Description
Validity end date		The confirmed end date for the consent.
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.
Business process ID		The unique identification of this instance of the "Request consent process" that this transaction is a part of.

1.3.3   Reject request consent (Class Diagram)
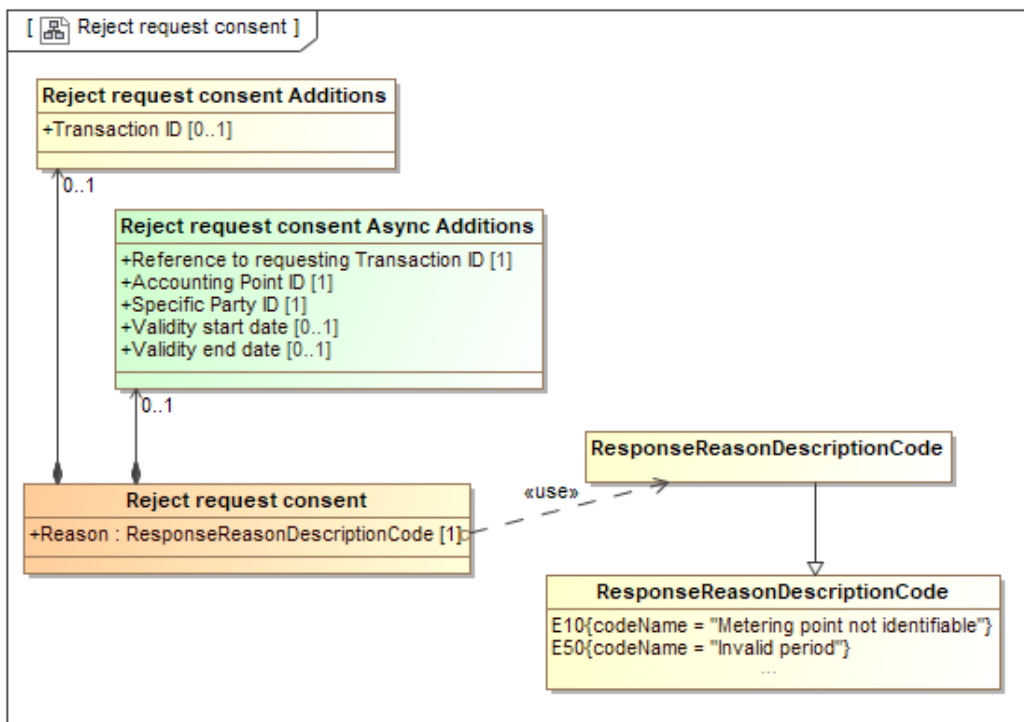
Figure 28 Reject request consent

1.3.3.1   Element definitions: Reject request 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.
Reference to requesting Transaction ID		The Transaction ID from the request given by the requesting party.
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.

---

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

Class/attribute	Sector[7]	Description
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.

1.3.4   Customer ID or Customer/AP link (Class Diagram)
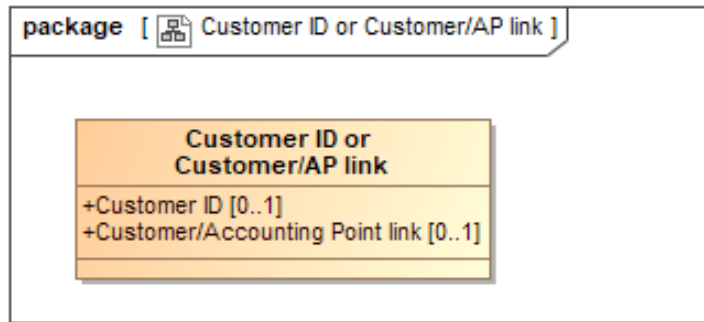
Figure 29 Customer ID or Customer/AP link

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

1.3.4.1   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.

1.3.5   Accounting Points (Class Diagram)

package [🔲 Accounting Points]

Accounting Points

1..*

Accounting Point
+Identification [1]

0..*   0..1

Consent ID
+Consent ID [1]

Accounting Point Address
+City Name [0..1]
+Street Name [0..1]
+Building Number [0..1]
+Postcode [0..1]
+Room Identification [0..1]
+Floor Identification [0..1]
+Country [0..1]
+Address Language [0..1]

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.

1.3.5.1   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.

---

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

Class/attribute	Sector[9]	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.
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.
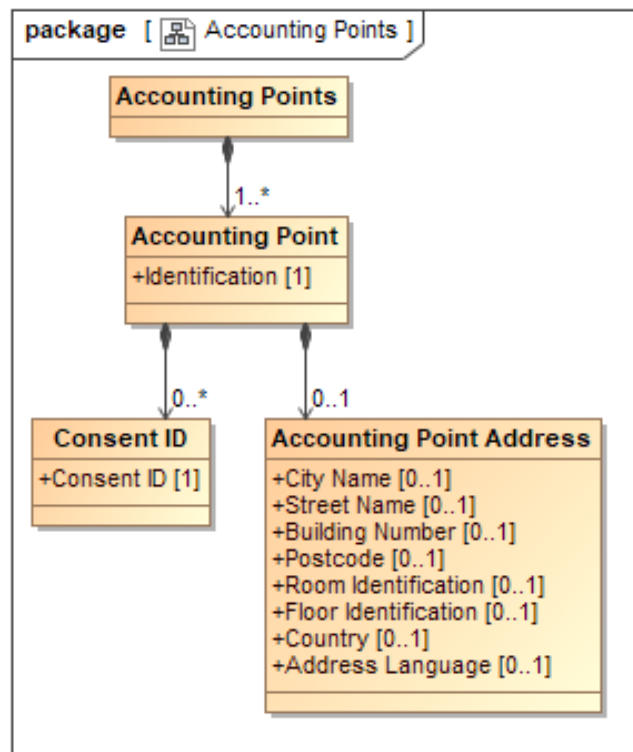
1.3.6   Accounting Point (Class Diagram)

Figure 31 Accounting Point

Note that this information flow is expected to be an 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.

1.3.6.1   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.

1.3.7   Specification of Consent (Class Diagram)

Figure 32 Specification of Consent
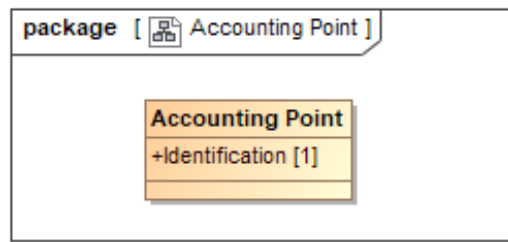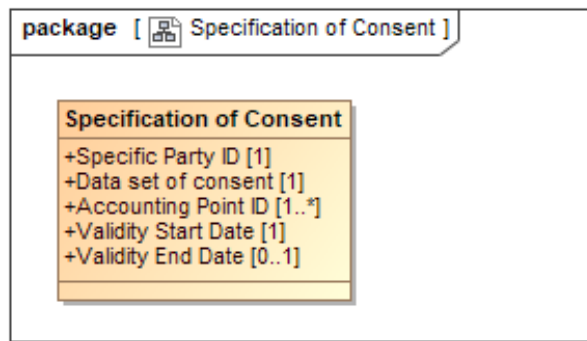
Note that this information flow is expected to be submitted in an interactive conversation between the Customer and the consent administration, hence there are no "Specification of Consent Async" nor "Specification of Consent Async Additions" classes.

1.3.7.1   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.

1.3.8   Consent (Class Diagram)
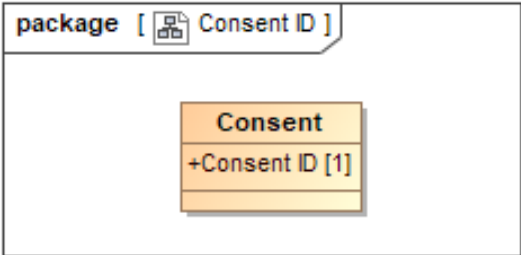
Figure 33 Consent

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

1.3.8.1   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.
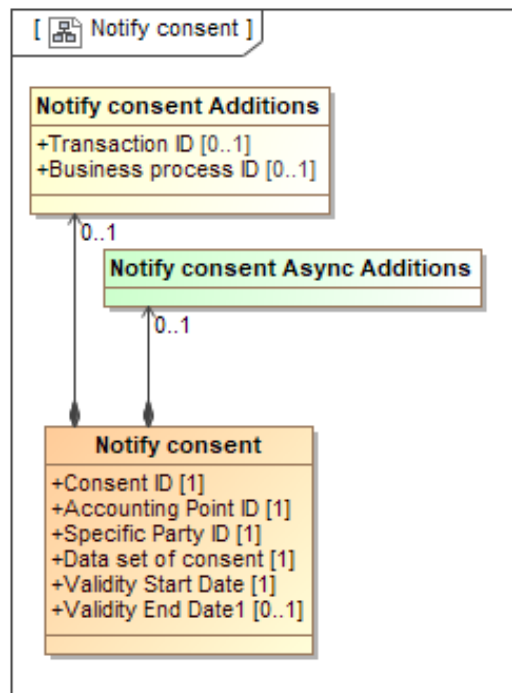
1.3.9   Notify consent (Class Diagram)

Figure 34 Notify consent

1.3.9.1   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.

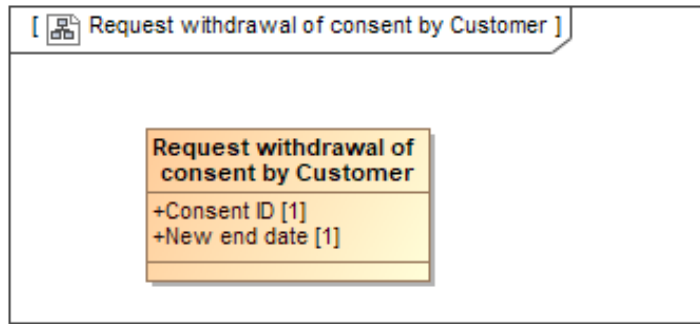## 1.3.10   Request withdrawal of consent by Customer

Figure 35 Request withdrawal of consent by Customer

Note that this information flow is expected to be an 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.

1.3.10.1   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.

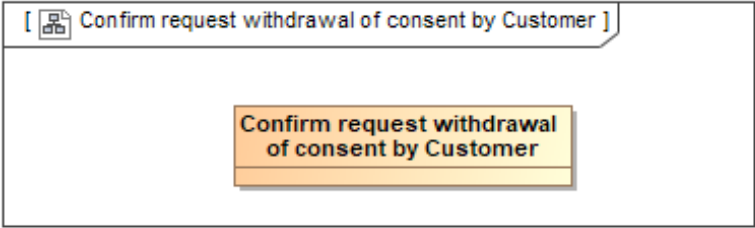### 1.3.11   Confirm request withdrawal of consent by Customer

Figure 36 Confirm request withdrawal of consent by Customer

Note that this information flow is expected to be an 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.

1.3.11.1   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.

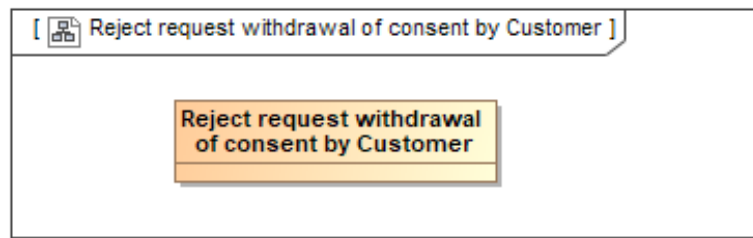### 1.3.12   Reject request withdrawal of consent by Customer

Figure 37 Reject request withdrawal of consent by Customer

Note that this information flow is expected to be an 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.

1.3.12.1   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.

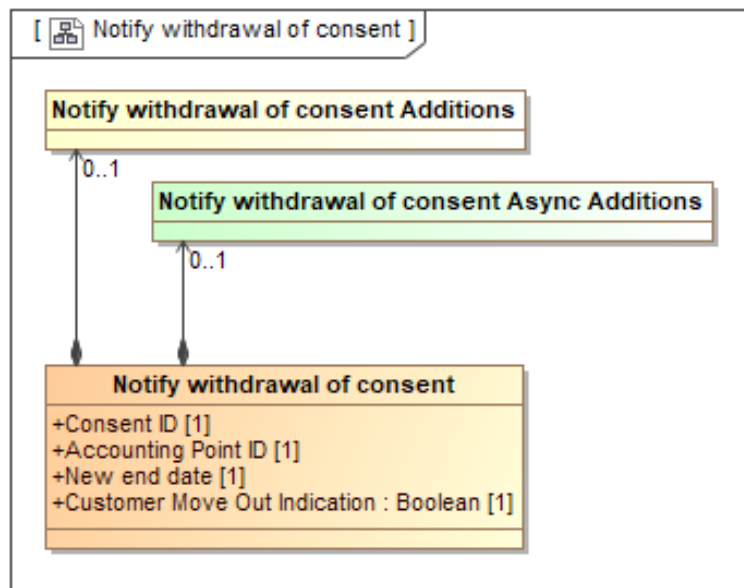## 1.3.13   Notify withdrawal of consent (Class Diagram)

Figure 38 Notify withdrawal of consent

1.3.13.1   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.

1.3.14 Notify Customer move out

Notify Customer move out is documented in the ebIX® BRS for Customer Move (www.ebix.org), see [9].

1.3.15   Request termination of Customer consent (Class Diagram)

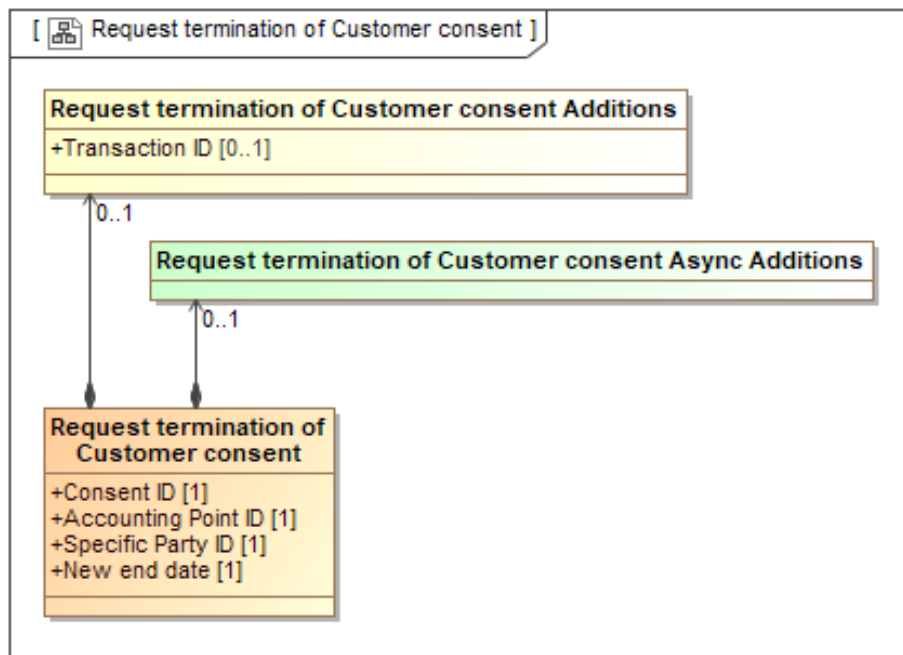**Figure 39** Request termination of Customer consent

1.3.15.1   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.

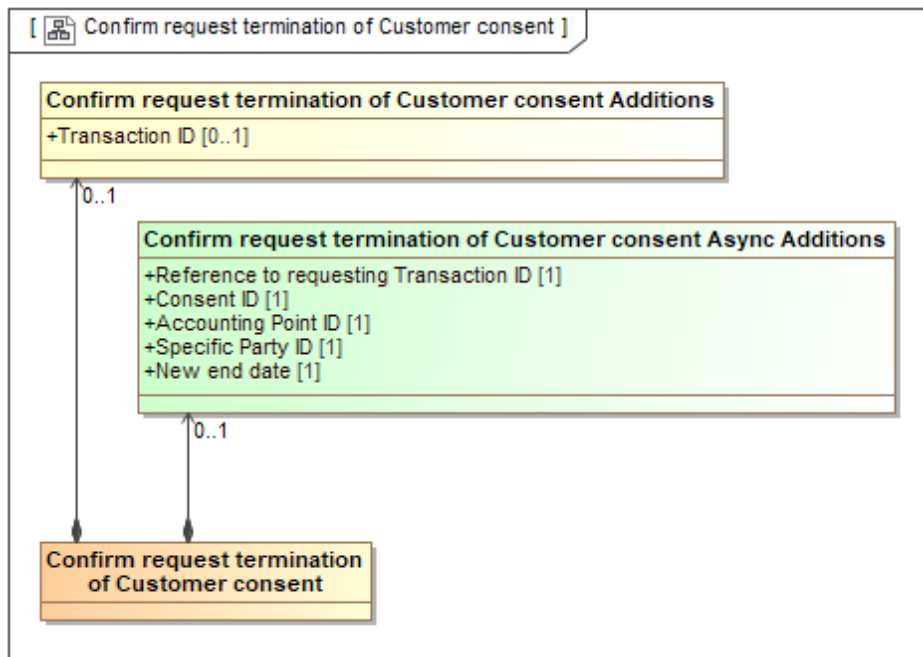### 1.3.16   Confirm request termination of Customer consent (Class Diagram)

Figure 40 Confirm request termination of Customer consent

1.3.16.1   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.
Reference to requesting Transaction ID		The Transaction ID from the request.
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.

---

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

Class/attribute	Sector[20]	Description
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.
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.

1.3.17   Reject request termination of Customer consent (Class Diagram)
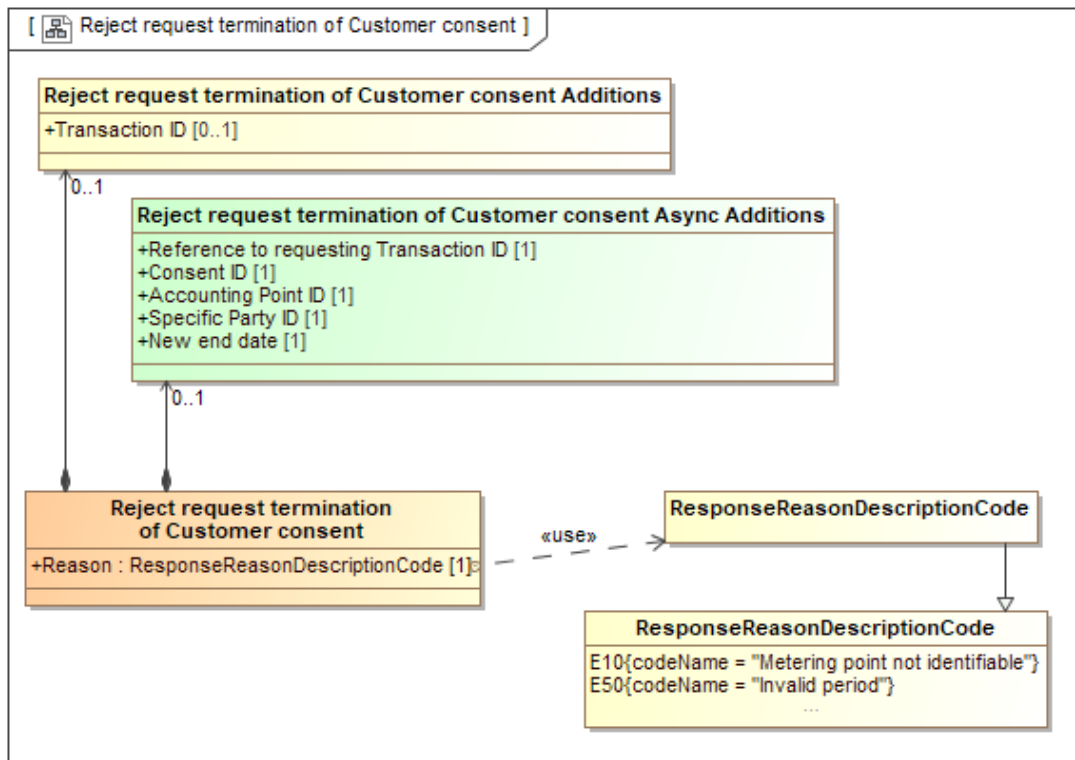

Figure 41 Reject request termination of Customer consent

1.3.17.1   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.
Reference to requesting Transaction ID		The Transaction ID from the request.
Consent ID		The unique ID for a specific consent from one Customer, one Specific Party and one Accounting Point, that was requested to terminate.

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

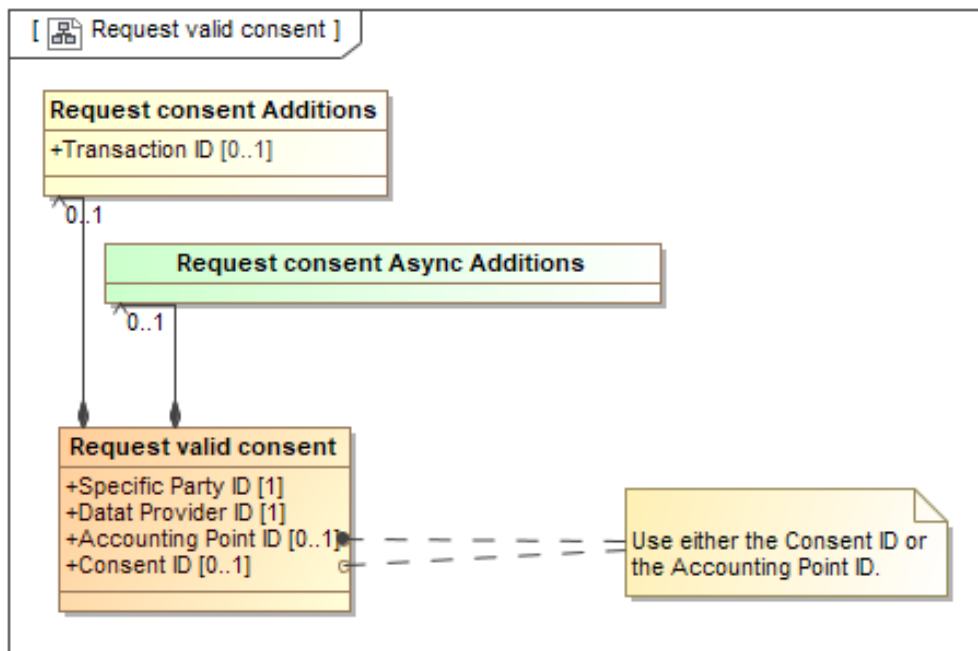| Class/attribute	Sector[21]	Description
Accounting Point ID		The unique identification of the Accounting Point that was requested to terminate.
Specific Party ID		The unique identification of the Specific Party that had requested termination of the consent for a specific dataset for a specific period 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.

1.3.18   Request valid consent (Class Diagram)

Figure 42 Request valid consent

1.3.18.1   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 Data Provider 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.
Data Provider 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.

---

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

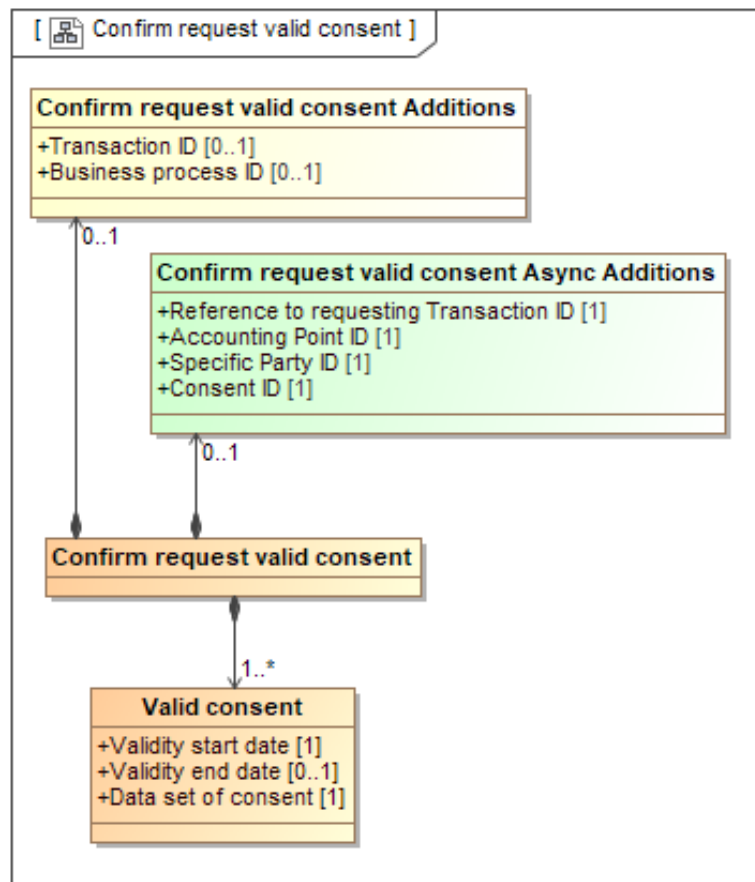| Class/attribute	Sector[22]	Description
Notify termination of consent Async Additions		Additional information, when notifying termination of consent from the Consent Administrator, needed when using asynchronous communication.
Notify termination of consent Additions		Information related to the notification 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.

1.3.19   Confirm request valid consent (Class Diagram)

Figure 43 Confirm request valid consent

1.3.19.1   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 Data Provider 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 Data Provider 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.
Confirm request valid consent Async Additions		Additional information, when notifying termination of consent from the Consent Administrator, needed when using asynchronous communication.
Reference to requesting Transaction ID		The Transaction ID from the request.
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.
Business process ID		The unique identification of this instance of the "Request valid consent process" that this transaction is a part of.

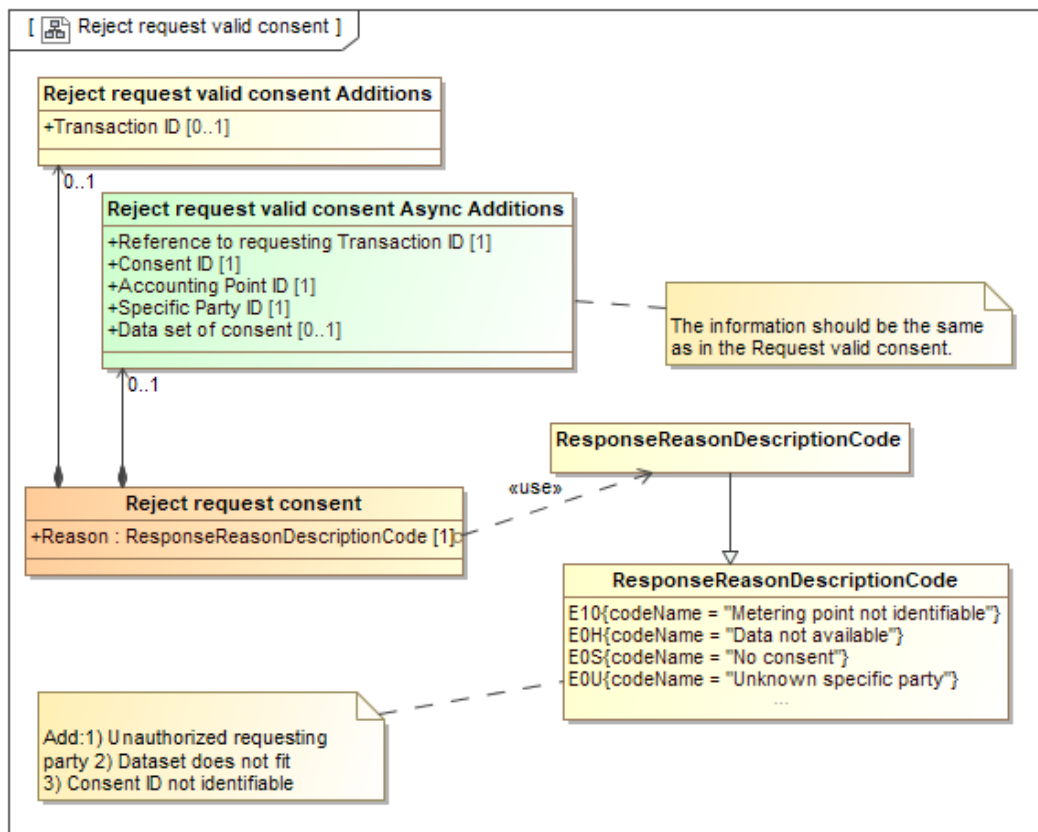## 1.3.20   Reject request valid consent (Class Diagram)

Figure 44 Reject request valid consent

1.3.20.1   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 Data Provider 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.
Reference to requesting Transaction ID		The Transaction ID from the request.

---

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

Class/attribute	Sector[25]	Description
Accounting Point ID		The unique identification of the Accounting Point the request was aimed for.
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.

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
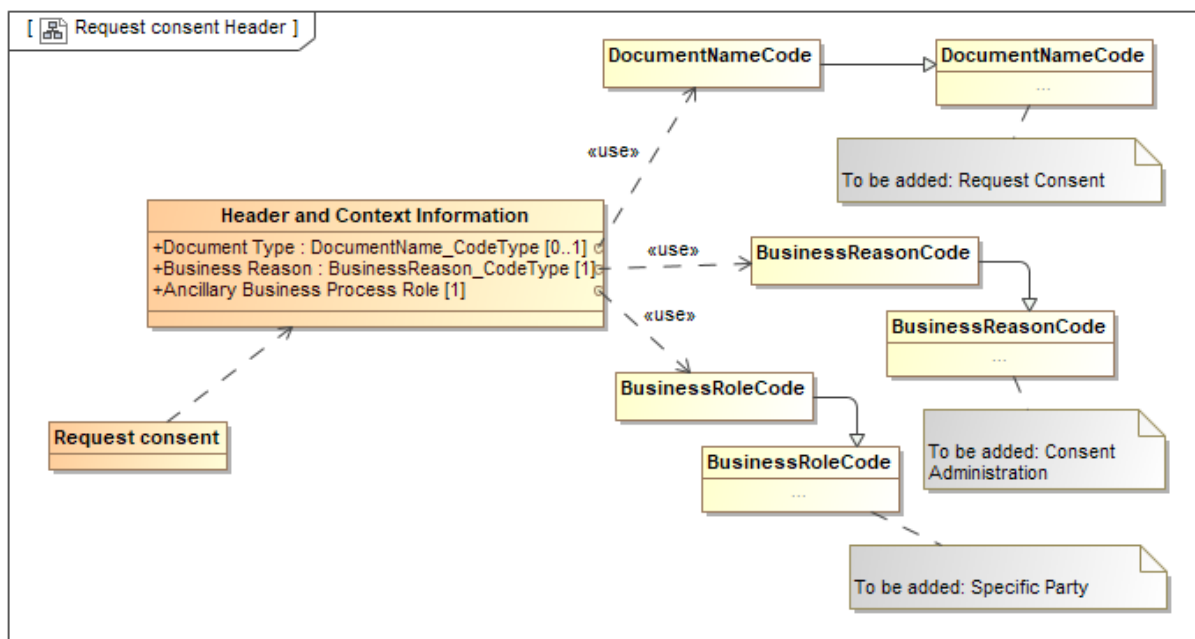
Figure 1 Class diagram: Header and Context Information Request consent

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

A.3. Confirm request consent
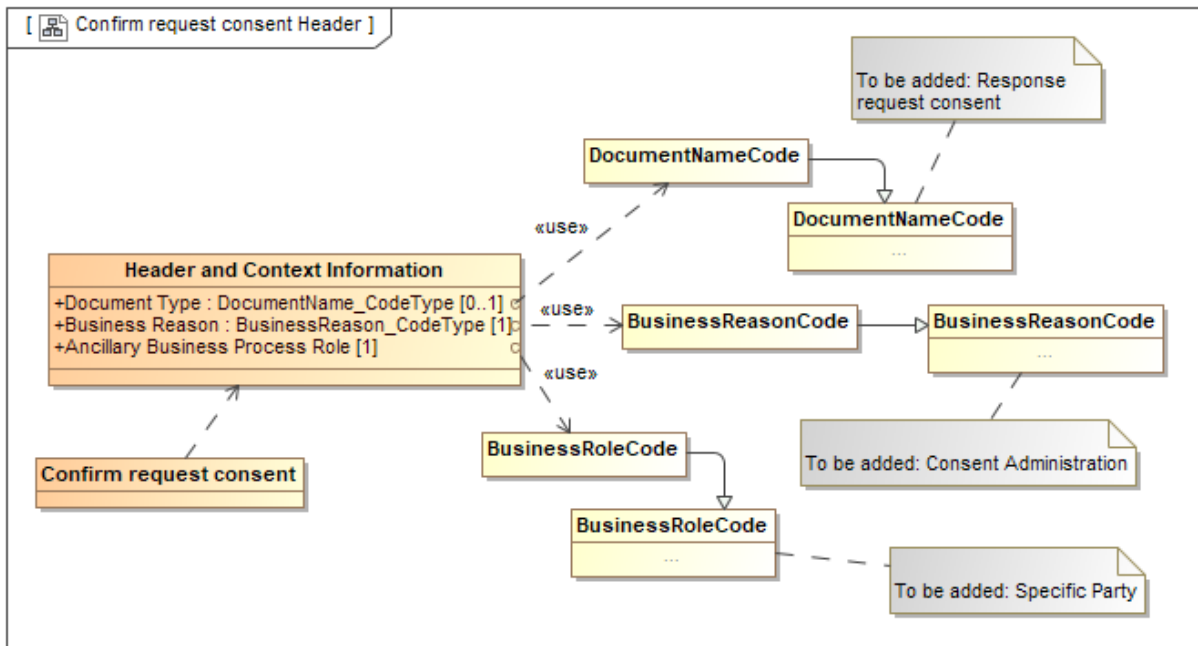
Figure 2 Class diagram: Header and Context Information Confirm request consent

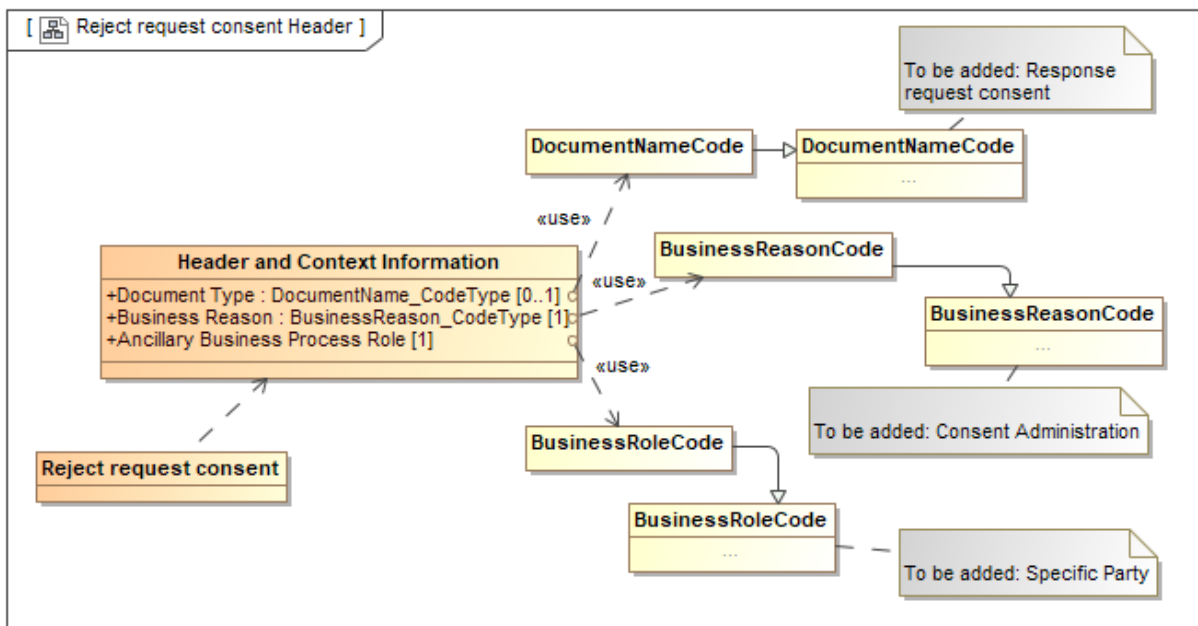## A.4. Reject request consent

Figure 3 Class diagram: Header and Context Information Reject request consent
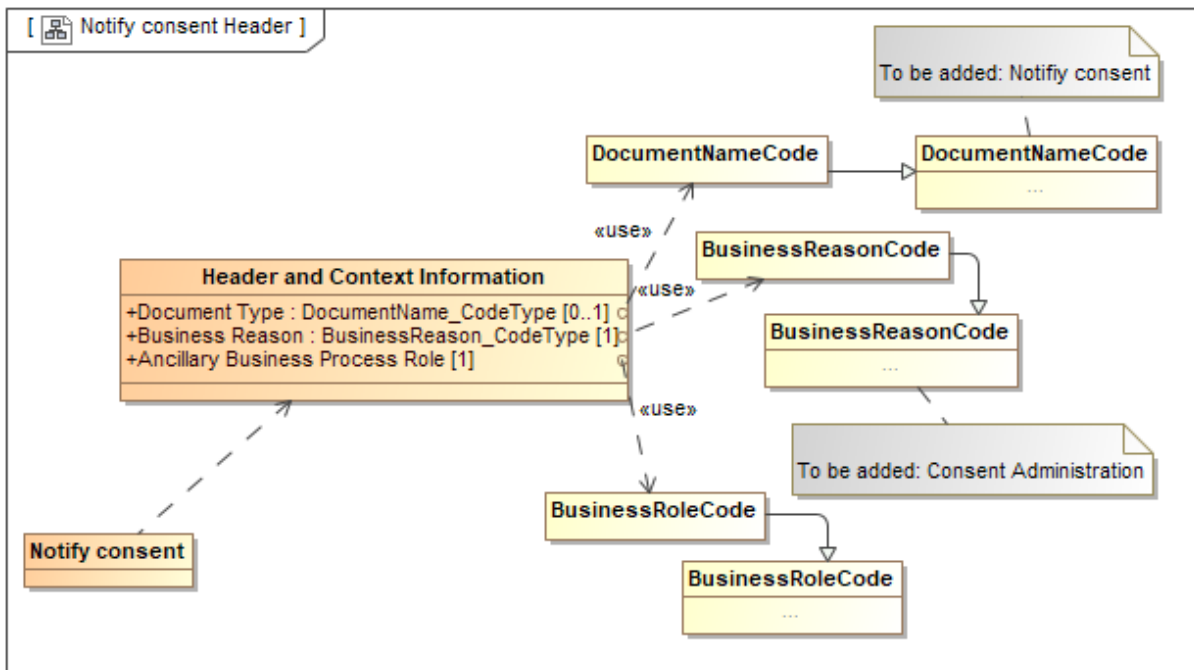
A.5.   Notify consent

Figure 4 Class diagram: Header and Context Information Notify consent
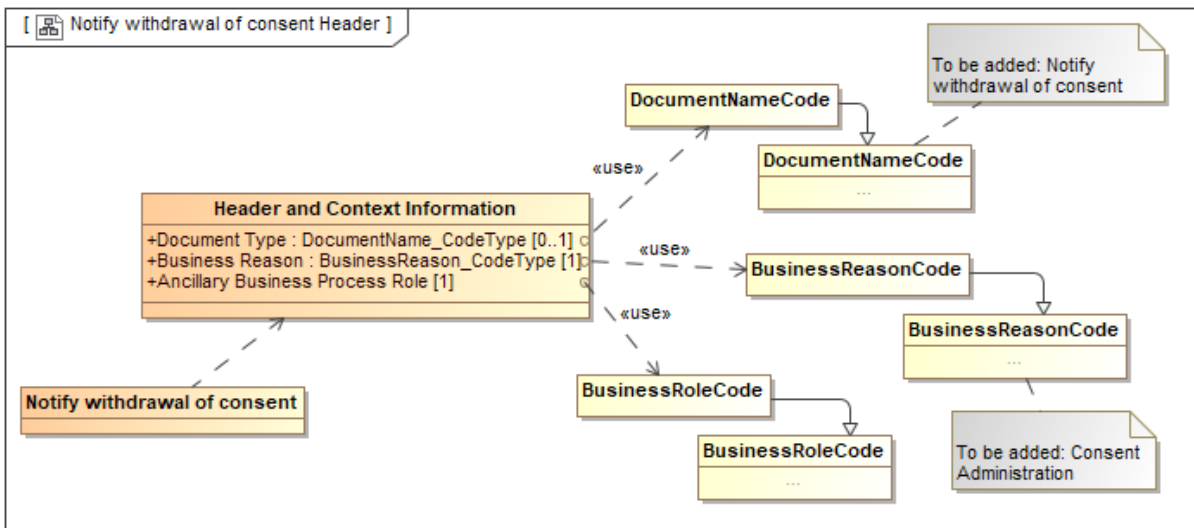
A.6.   Notify withdrawal of consent

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

A.7.   Request termination of Customer consent
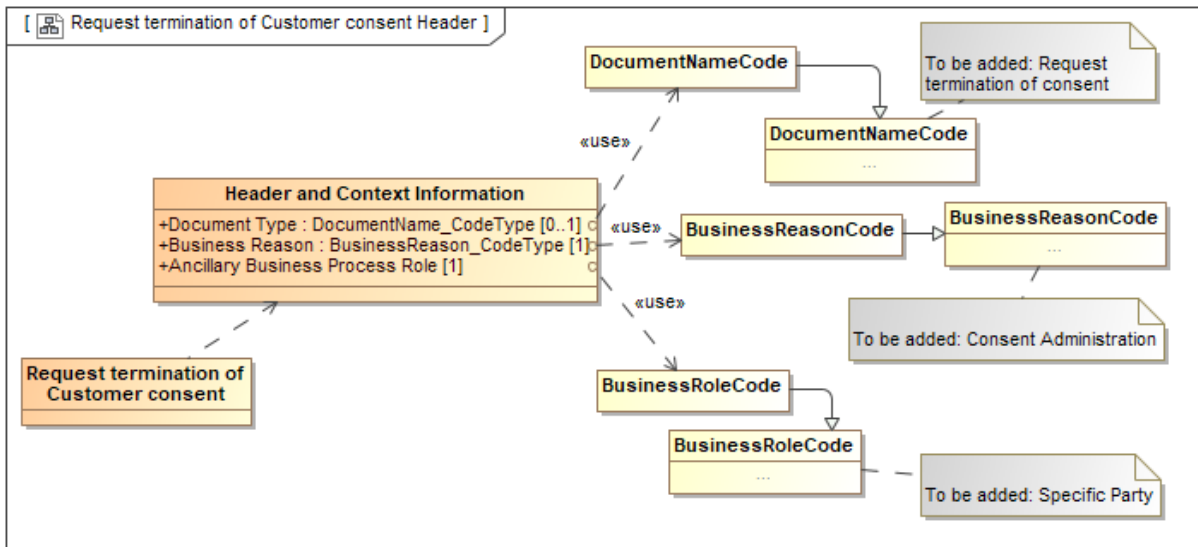
Figure 6 Class diagram: Header and Context Information Request termination of Customer consent

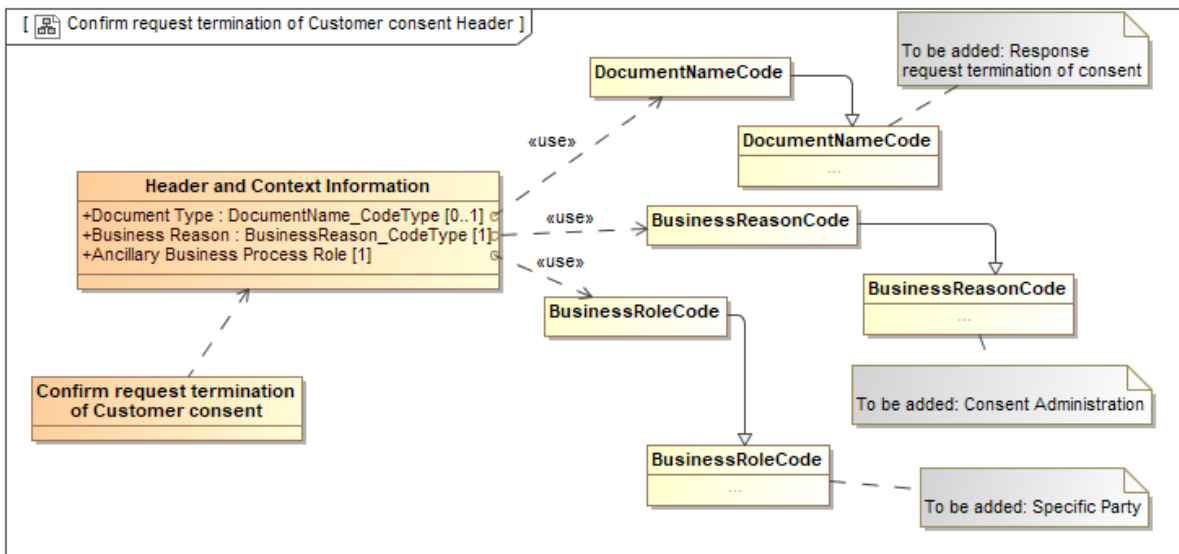## A.8.   Confirm request termination of Customer consent

Figure 7 Class diagram: Header and Context Information Confirm request termination of Customer consent
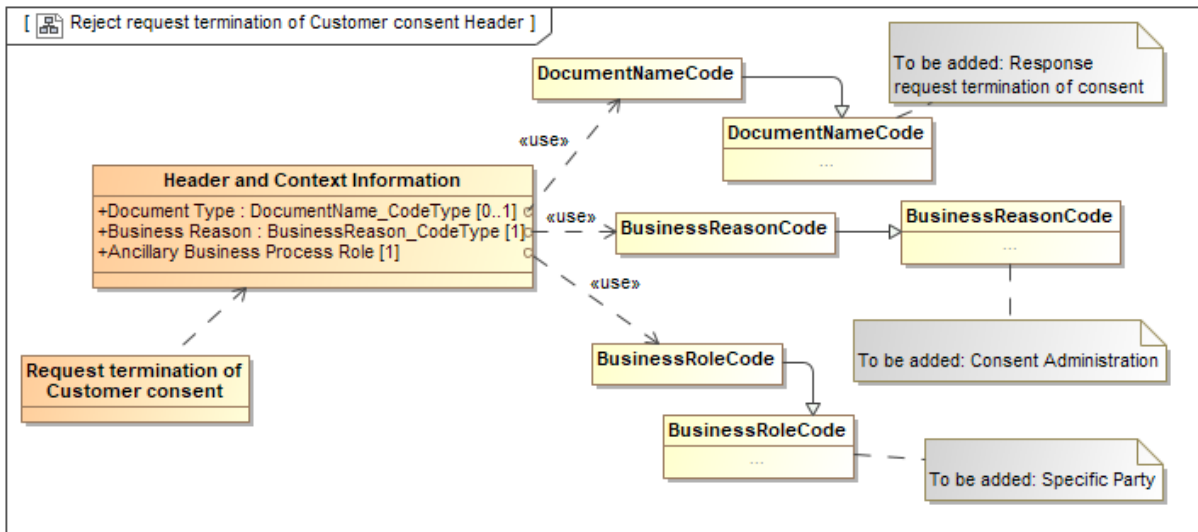
A.9. Reject request termination of Customer consent

Figure 8 Class diagram: Header and Context Information Reject request termination of Customer consent
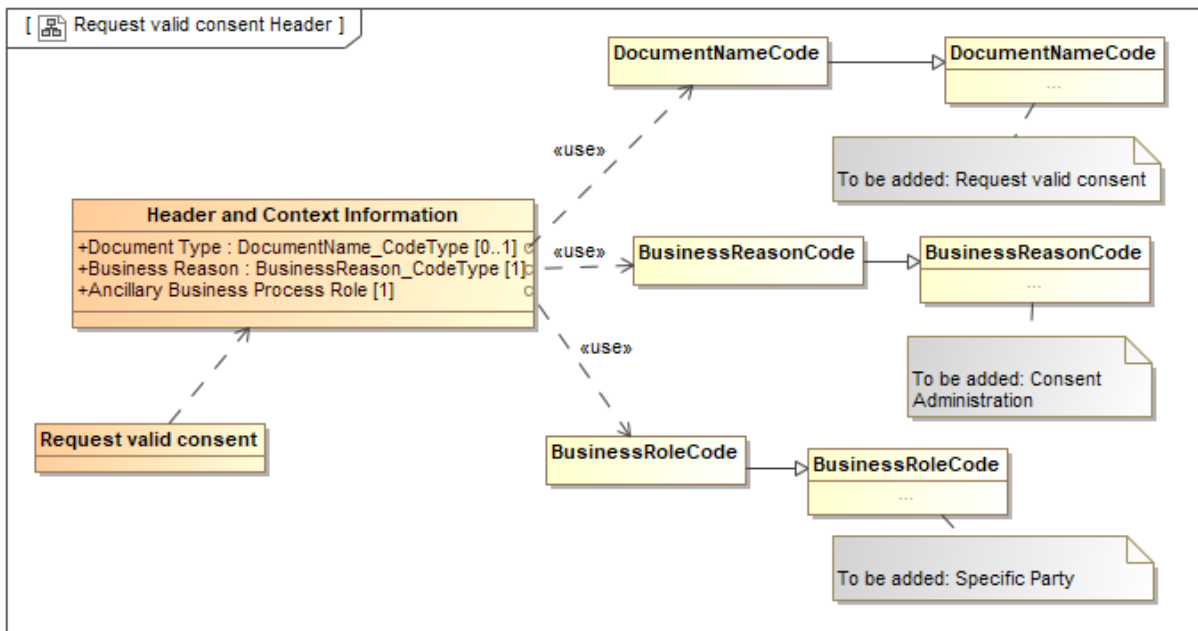
A.10. Request valid consent

Figure 9 Class diagram: Header and Context Information Request valid consent
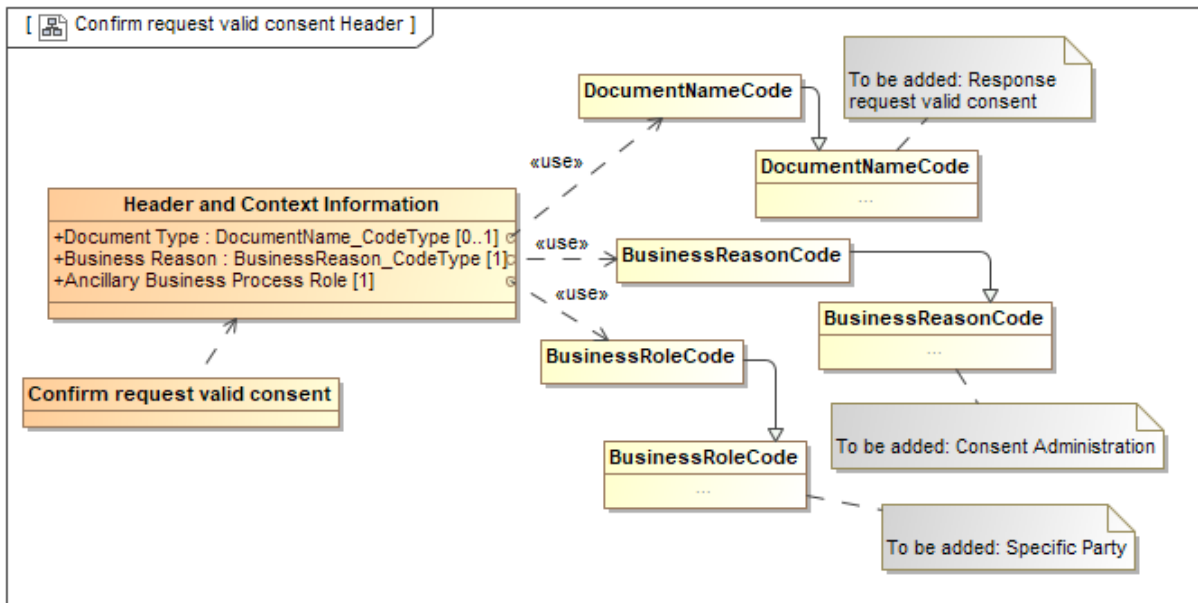
A.11. Confirm request valid consent

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

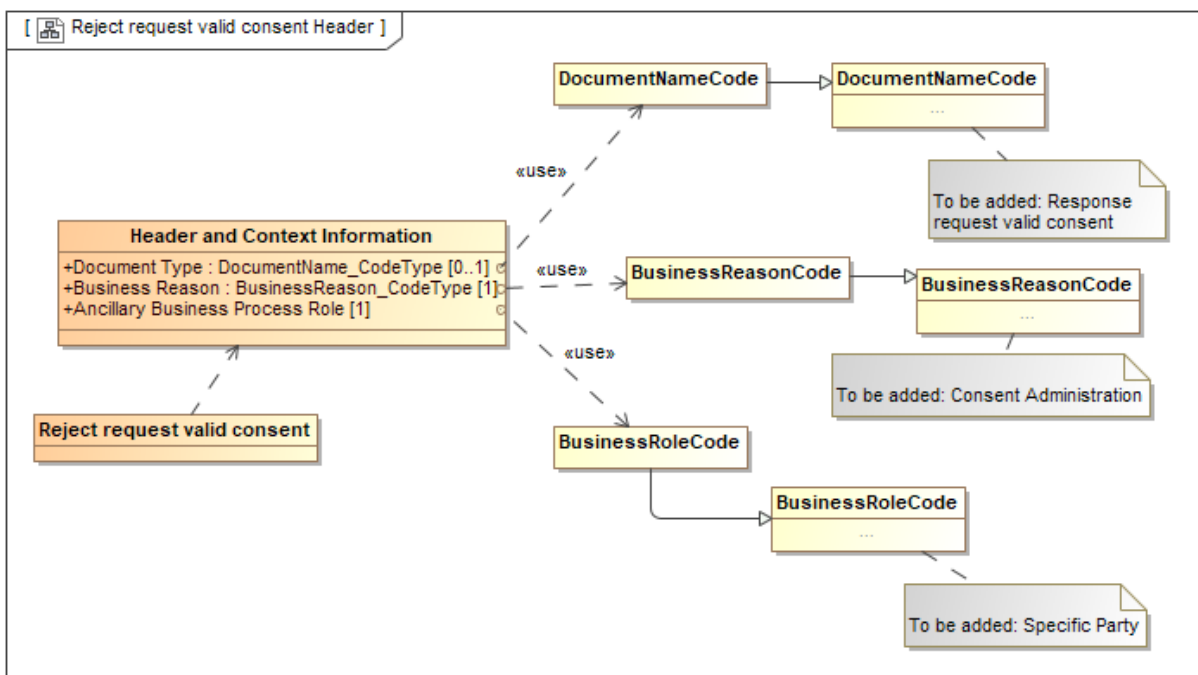## A.12. Reject request valid consent

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