



Business Requirements for cancellation of business documents

Status:	Approved by ebIX® Forum
Version/release:	2.0
Revision:	B
Date:	June 2018

CONTENTS

A. ABOUT THIS DOCUMENT	3
A.1. COMMENTS TO THE EBIX® MODEL.....	3
A.2. REFERENCES.....	3
A.2.1. STANDARDS	3
A.2.2. EBIX® DOCUMENTS.....	3
A.3. PARTICIPANTS IN THE PROJECT.....	3
A.4. MAIN CHANGES SINCE LAST VERSION	3
1 ABOUT CANCELLATIONS	5
1.1 CANCELLATION PRINCIPLES	5
1.2 CANCELLATION OF BUSINESS PROCESS	5
2 BUSINESS REQUIREMENTS VIEW: CANCELLATION OF BUSINESS DOCUMENTS.....	6
2.1 BUSINESS DOMAIN VIEW: CANCEL BUSINESS DOCUMENT (BUSINESS PROCESS USECASE)	6
2.1.1 <i>Description</i>	6
2.1.2 <i>Business Process</i>	7
2.2 BUSINESS DOMAIN VIEW: REQUEST CANCELLATION (BUSINESS PROCESS USECASE).....	8
2.2.1 <i>Description</i>	8
2.2.2 <i>Business Process</i>	9
2.3 BUSINESS DOMAIN VIEW: NOTIFY CANCELLATION (BUSINESS PROCESS USECASE)	10
2.3.1 <i>Description</i>	10
2.3.2 <i>Business Process</i>	11
2.4 BUSINESS PARTNER VIEW.....	12
2.4.1 <i>Business Partners for Cancellation request</i>	12
2.5 BUSINESS ENTITY VIEW	13
2.5.1 <i>Short introduction</i>	13
2.5.2 <i>Request cancellation (Class Diagram)</i>	13
2.5.3 <i>Confirm cancellation (Class Diagram)</i>	16
2.5.4 <i>Reject cancellation (Class Diagram)</i>	18
2.5.5 <i>Notify cancellation (Class Diagram)</i>	20

A. About this document

This document describes the ebIX® recommendations for cancellations of business documents and business processes. The recommendations are of a generic nature and may be used for cancellations of all message exchange scenarios defined by ebIX®. The principles described are based on UN/CEFACT Modelling Methodology (UMM).

A.1. Comments to the ebIX® model

If you have comments or suggestions to the document, please contact the ebIX® secretary at 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] Recommended Identification Schemes for the European Energy Market (www.ebix.org)
- [5] ebIX Recommendations for acknowledgement and error handling (www.ebix.org)
- [6] ebIX® code lists (www.ebix.org)
- [7] ebIX® Business Requirements specifications for Measure and Structuring (www.ebix.org)

A.3. Participants in the project

The document is a part of the ebIX® Model for the European Energy Market [3] are made in a project with the members of CuS.

A.4. Main changes since last version

Old	New	Clarification	Date
Version 2.0.A			
	First version 2.0	Complete recast of previous documents	20151215
Version 2.0.B			

		<ul style="list-style-type: none"> • Correction of activity diagram for Notify Cancellation; • Removal of names and email addresses. 	20180605
--	--	--	----------

1 About Cancellations

1.1 Cancellation principles

This document explains the ebIX® principles for automatic (electronic) cancellations done before “point of no return”. The “point of no return” must be defined nationally and can for instance be the date when an actual switch has taken place.

The document is meant as a framework that can be detailed in national projects.

All Business Requirement Specifications (BRS) that allow for cancellation of one or more business documents shall reference this document.

Master data and metered data should, as a general rule, not be cancelled, but updated¹.

1.2 Cancellation of business process

This document describes cancellation of a single business document. However, cancelling a single business document can result in the need of cancelling other business documents that are a part of the same business area. For instance, when cancelling a request for change of supplier, also the notification to the old Balance Supplier (if it has already been sent) must be cancelled.

The process of cancelling a business process (rollback the consequences of a started process) can be more or less complicated dependent on the complexity of the business process in question and how far the process has come.

Note: Update of a previously sent business document by a new one is not seen as a cancellation. Updating procedures are specified in ebIX® BRSs.

¹ There are special rules regarding cancellation of invoices, however this is not within the ebIX® scope

2 Business Requirements View: Cancellation of business documents

2.1 Business Domain View: Cancel business document (Business Process UseCase)

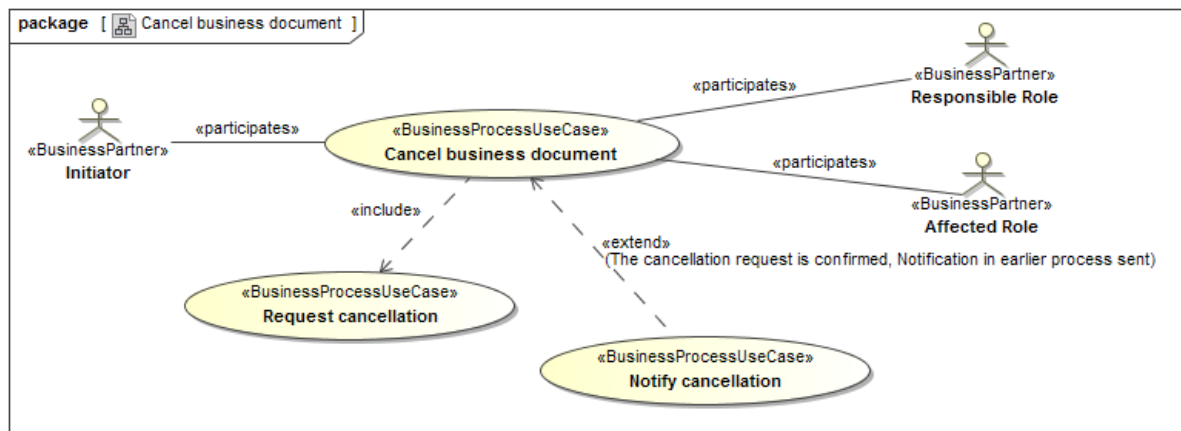


Figure 1 Cancel business document

2.1.1 Description

UseCase description: Cancel business document	
definition	In this process, an Initiator requests cancellation of an earlier sent business document to the recipient of the said business document (responsible role). Further, cancellation notifications will be sent to Affected Roles if these already have been notified in the process that is to be cancelled.
beginsWhen	<ul style="list-style-type: none"> There is a need to cancel an earlier sent business document.
preCondition	<ul style="list-style-type: none"> A business document has been sent that needs to be cancelled. The cancellation must be sent before “point of no return”. The “point of no return” must be defined nationally: <ul style="list-style-type: none"> E.g. the date when an actual switch will take place (found in Validity Date in the original business document).
endsWhen	The Affected roles have received the cancellation notification from the Responsible Role or the cancellation request has been rejected.
postCondition	<ul style="list-style-type: none"> The business document has been cancelled All Affected Roles have been informed The cancelled process has been stopped or rolled back Or <ul style="list-style-type: none"> The cancellation request has been rejected.
exceptions	None.
actions	<ul style="list-style-type: none"> See 2.1.2 Business Process.

- If request cancellation is confirmed and the responsible role already has sent related notifications to Affected Roles, the process triggers a rollback of these earlier sent notifications.

2.1.2 Business Process

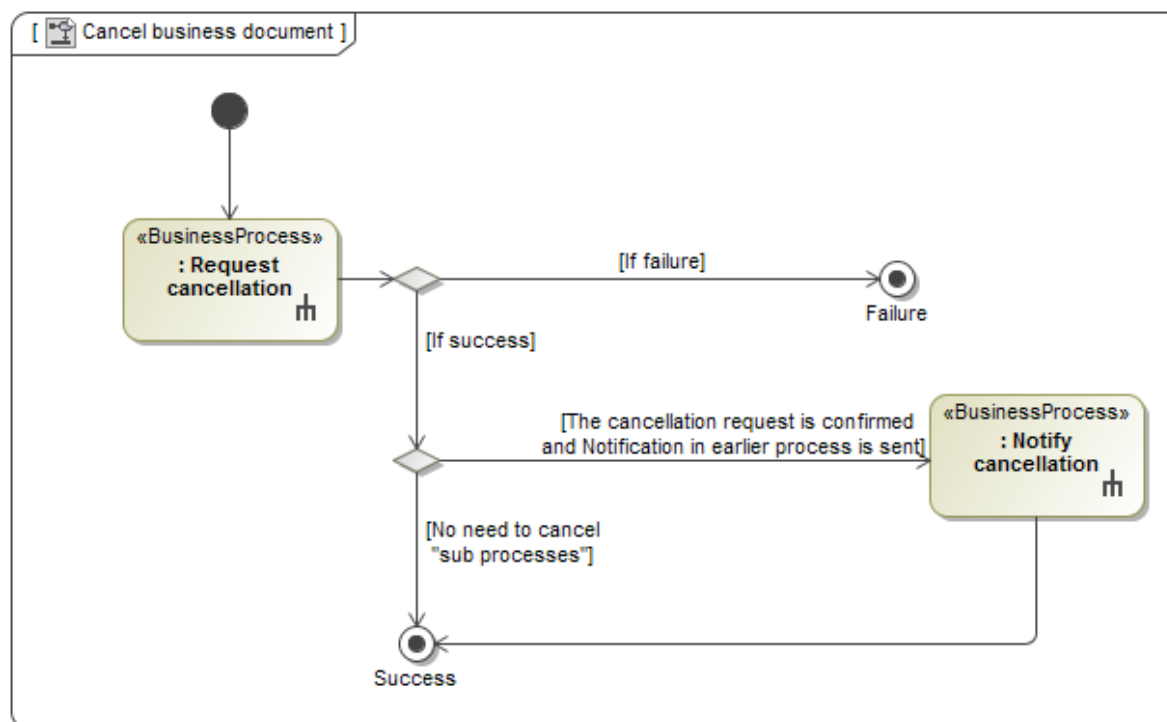


Figure 2 Business Process Change of Balance Responsible Party

2.2 Business Domain View: Request cancellation (Business Process UseCase)

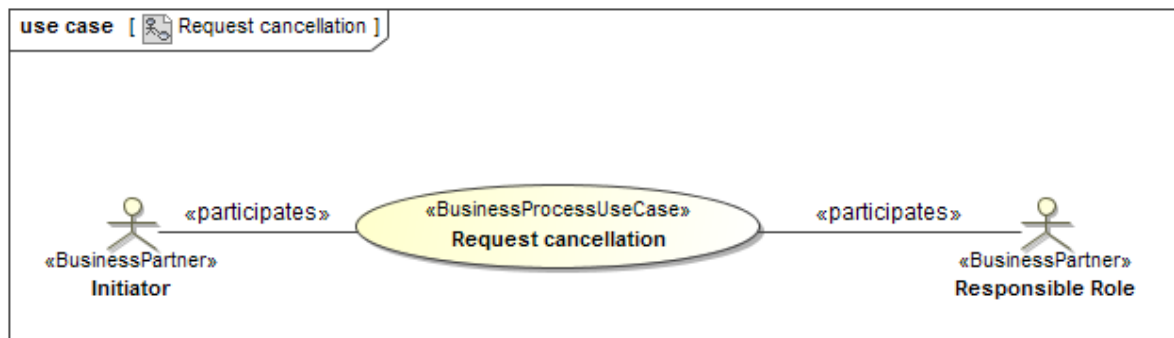


Figure 3 Request cancellation

2.2.1 Description

UseCase description: Request cancellation	
definition	In this process, an Initiator requests cancellation of an earlier sent business document to the recipient of the said business document (responsible role).
beginsWhen	<ul style="list-style-type: none"> There is a need to cancel an earlier sent business document.
preCondition	<ul style="list-style-type: none"> A business document has been sent that needs to be cancelled. The cancellation must be sent before “point of no return”. The “point of no return” must be defined nationally and can for instance be before an actual switch will take place.
endsWhen	The Responsible Role has rejected or confirmed the cancellation request and related Notification cancellations.
postCondition	The cancellation request has been confirmed or the cancellation request has been rejected.
exceptions	None.
actions	<ul style="list-style-type: none"> See 2.2.2 Business Process. If request cancellation is confirmed and the responsible role already has sent related notifications to Affected Roles, the process triggers a rollback of these earlier sent notifications.

2.2.2 Business Process

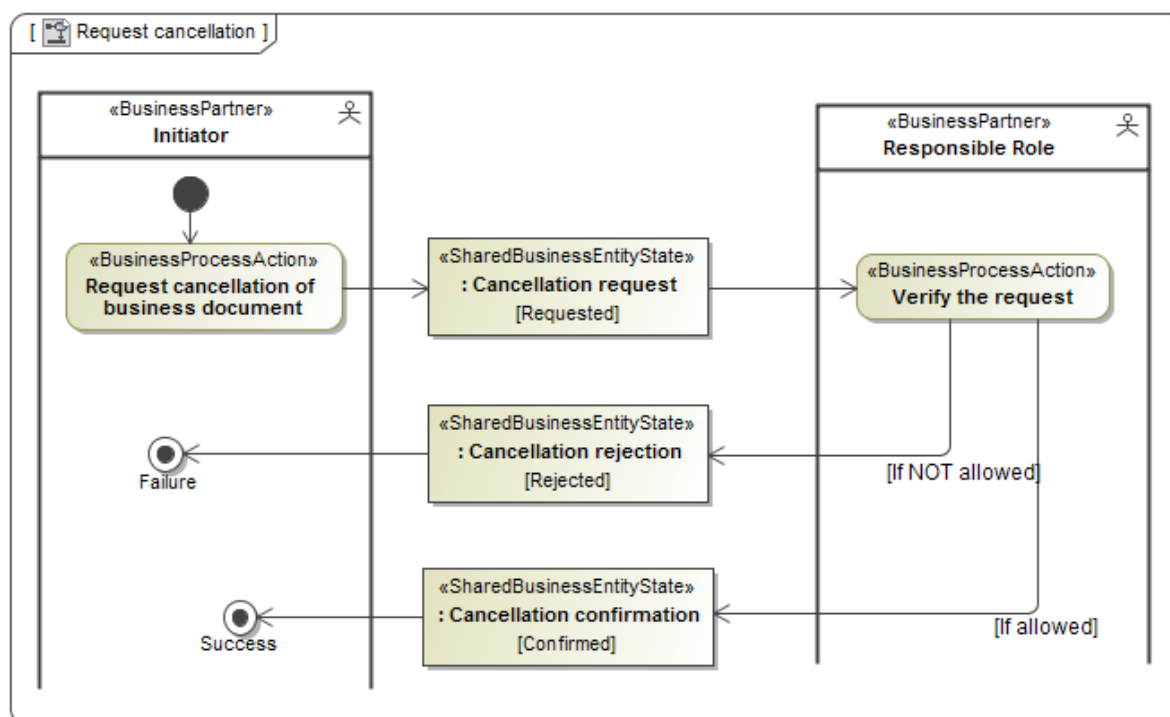


Figure 4 Business Process Request cancellation

2.3 Business Domain View: Notify cancellation (Business Process UseCase)

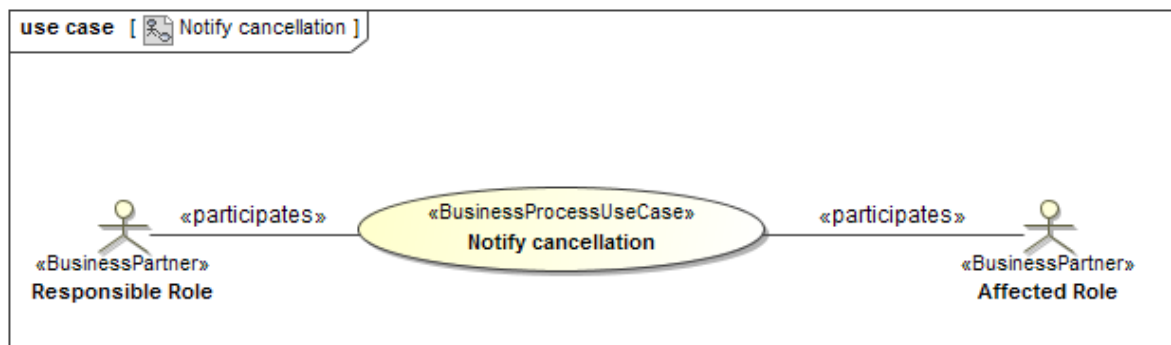


Figure 5 Notify cancellation

2.3.1 Description

UseCase description: Notify cancellation	
definition	In this process, a Responsible Role notifies the Affected Roles about cancellation of an earlier sent business document for a specific instance of a business process, requested to be cancelled by the Initiator.
beginsWhen	<ul style="list-style-type: none"> The Responsible Role has accepted a request for cancellation of an earlier received business document from the Initiator of the said business document. The Responsible Role is cancelling an earlier sent business document for a specific instance of a business process, requested to be cancelled by the Initiator.
preCondition	<ul style="list-style-type: none"> The cancellation request has been accepted by the Responsible Role There is a previous business document, sent to the Affected Role, to cancel.
endsWhen	The Affected roles have received the cancellation notification from the Responsible Role.
postCondition	The Affected roles have been informed about the cancellation.
exceptions	None
actions	<ul style="list-style-type: none"> See A.2.2 Business Process. The process triggers rollback of the earlier started process.

2.3.2 Business Process

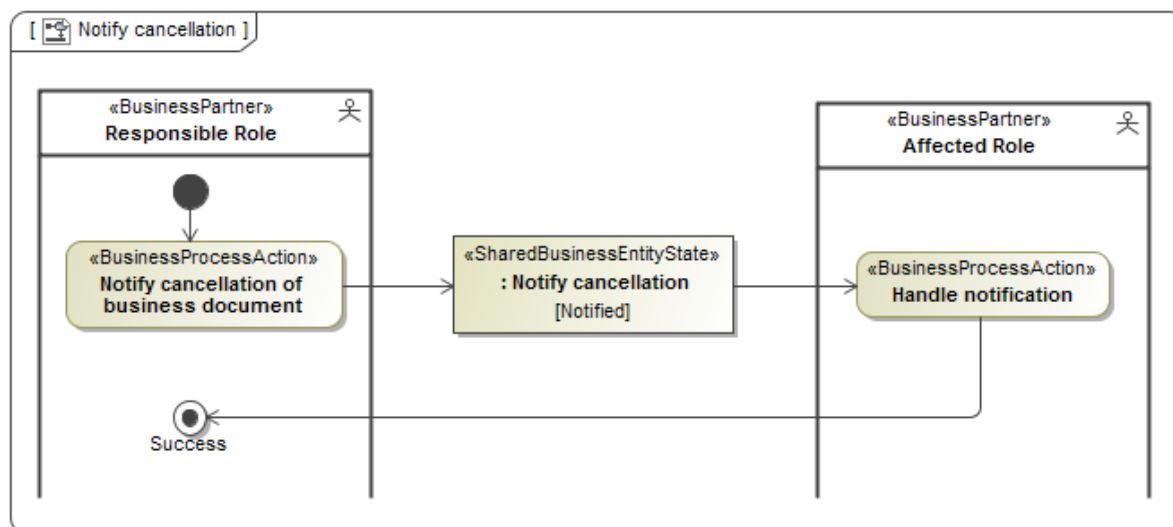


Figure 6 Business Process Notify cancellation

2.4 Business Partner View

2.4.1 Business Partners for Cancellation request

Relevant business partners for a specific business process can be found in the ebIX® BRS for the business process in question.

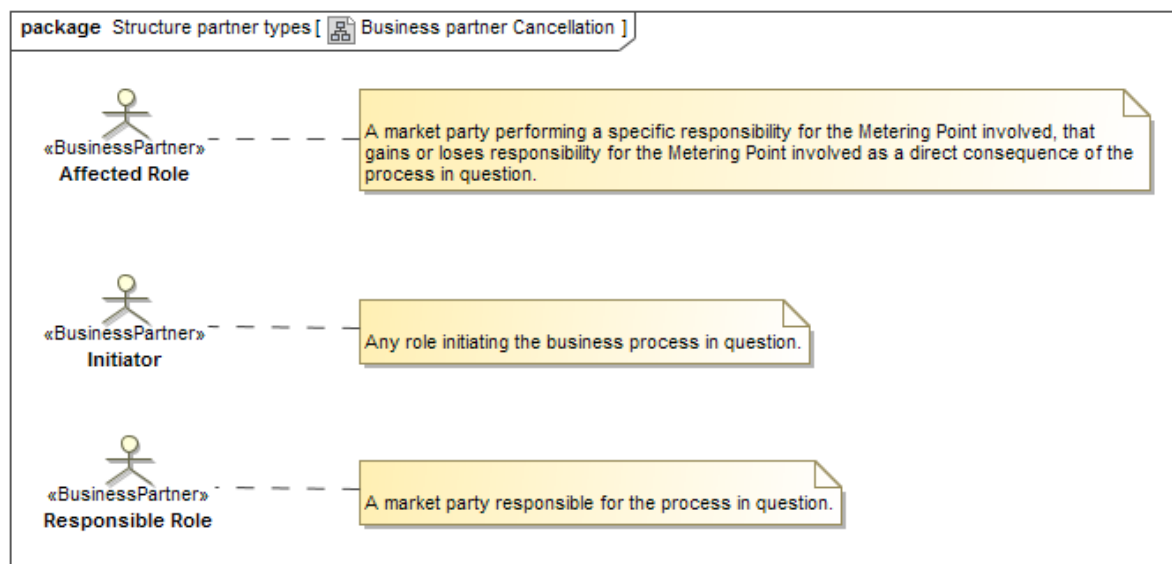


Figure 7 Business Partners related to Cancellations

2.5 Business Entity View

2.5.1 Short introduction

In these business requirements the ebIX® work group CuS has used the principle of specifying the core data set as business requirements. This core data set is defined as the set of information that is required when using synchronous web services as the exchange mechanism.

The information required for asynchronous web services is added as an option.

For exchange of the core data set additional information elements must be added to conform to technical exchange standards. But this is not regarded as a business requirement when defining the core data set, but as a requirement for technical implementation or mapping to syntax. Header and context information are added in the ebIX® Business Information Model.

It is important to note that it is assumed for defining the core data set, that Metering Points are uniquely dedicated to either electricity or to gas. As a consequence the specification of the business sector is not part of core data set anymore.

2.5.2 Request cancellation (Class Diagram)

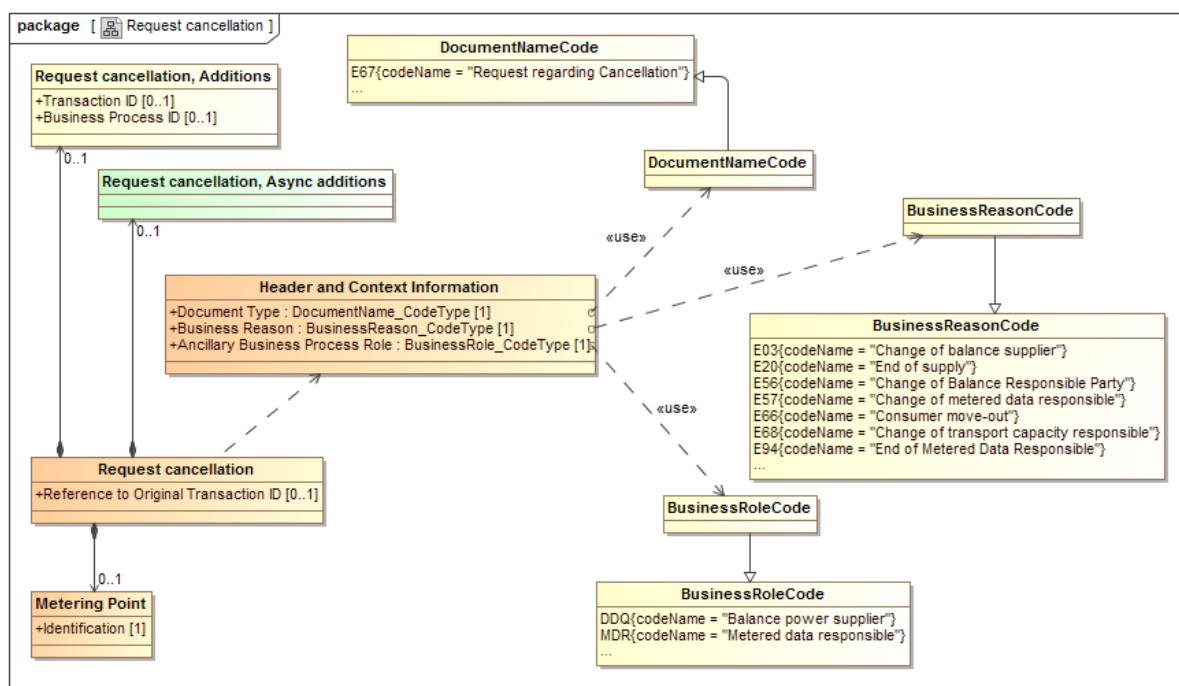


Figure 8 Cancellation request

2.5.2.1 Element definitions, Request cancellation

Class/attribute	Description
«Business entity» Request cancellation	A document used for requesting cancellation of an earlier sent business document.
Reference to Original Transaction ID	A reference to the Transaction ID in the business document to be cancelled.
«Business entity» Metering Point	The Metering Point, an entity where energy products are measured or computed, where the original business process was aimed for.
Identification	The unique identification of the Metering Point.
Request cancellation Additions	Additional information related to the cancellation request, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the requestor of the cancellation.
Business process ID	The unique identification of the business process, given by the responsible role, this cancellation is aimed at.
Request cancellation, Async Additions	Additional information related to the request for cancellation of a business document, needed when using asynchronous communication.
Header and Context Information	The set of information specifying the information to be added to this payload "Cancellation request" in order 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 process this cancellation is aimed at.
Ancillary Business Process Role	A code representing the market role initiating this request for cancellation.

2.5.2.2 Request cancellation (State Diagram)

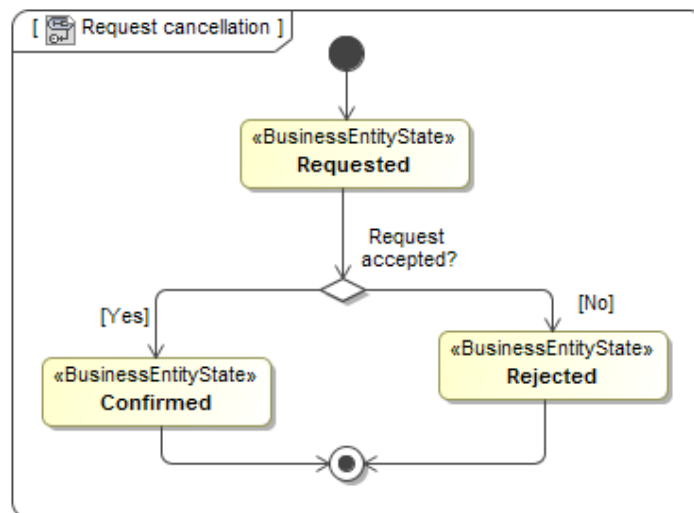


Figure 9 Request cancellation

2.5.3 Confirm cancellation (Class Diagram)

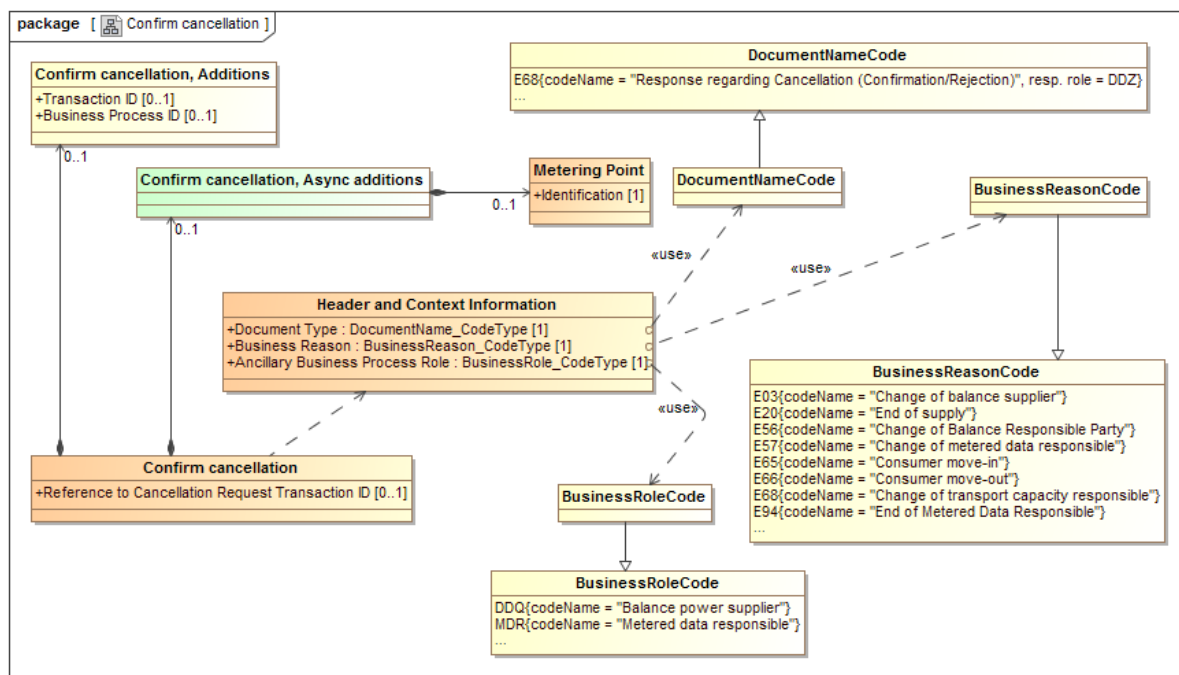


Figure 10 Confirm cancellation

2.5.3.1 Element definitions, Confirm cancellation

Class/attribute	Description
«Business entity» Confirm cancellation	A document used to confirm a cancellation request.
Reference to Cancellation Request Transaction ID	A reference to the cancellation request Transaction ID.
Confirm cancellation Additions	Additional information related to the confirmation of a request for cancellation of a business document, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the sender of the cancellation confirmation.
Business process ID	The unique identification of the business process, given by the responsible role, this cancellation is aimed at.
Confirm cancellation, Async Additions	Additional information related to the confirmation of the cancellation, needed when using asynchronous communication.
«Business entity» Metering Point	The Metering Point, an entity where energy products are measured or computed, where the original business process was aimed for.
Identification	The unique identification of the Metering Point.
Header and Context Information	The set of information specifying the information to be added to this payload “confirmation of cancellation” in order 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 initiating this request for cancellation.

2.5.4 Reject cancellation (Class Diagram)

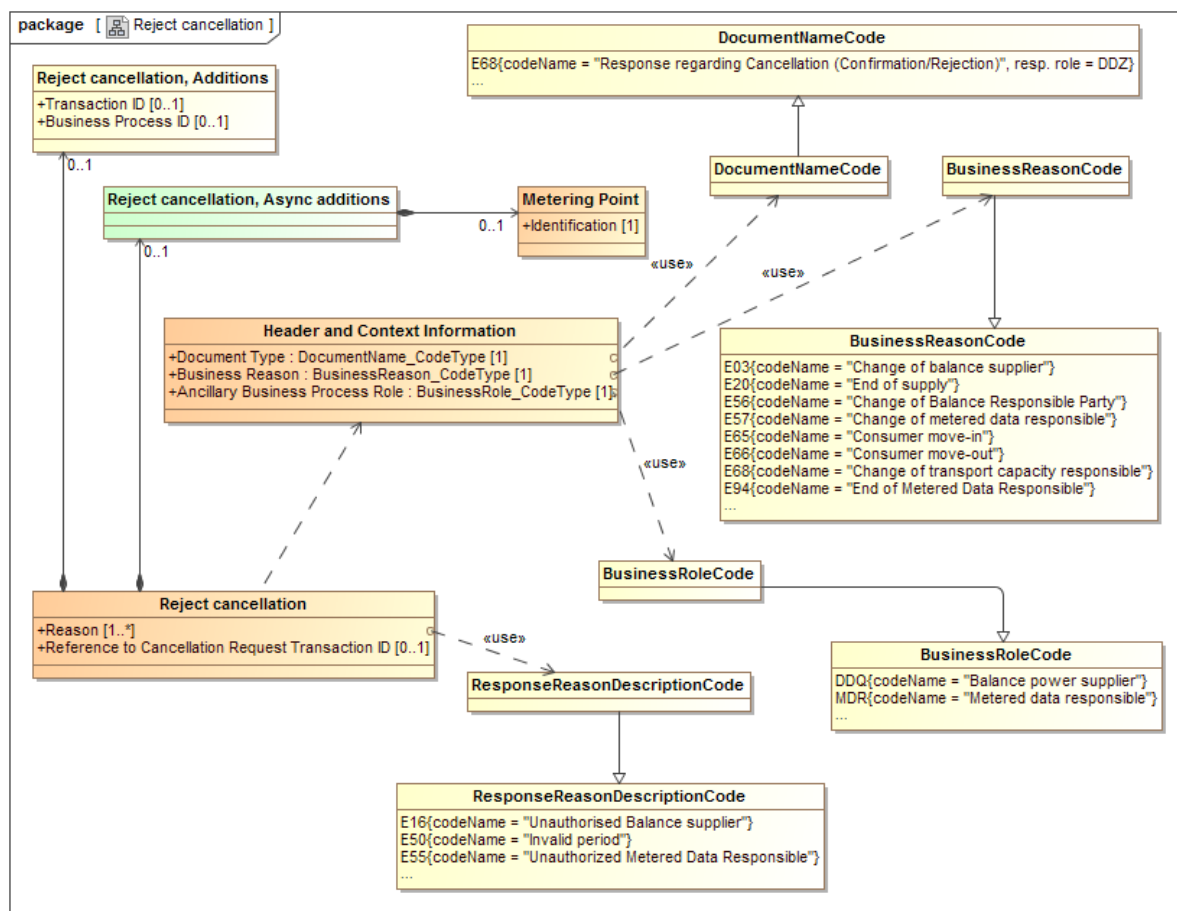


Figure 11 Reject cancellation

2.5.4.1 Element definitions, Reject cancellation

Class/attribute	Description
«Business entity» Reject cancellation	A document used to reject a cancellation request.
Reason	A code specifying the reason for a rejection.
Reference to the request cancellation Transaction ID	A reference to the cancellation request Transaction ID.
Reject cancellation Additions	Additional information related to the rejection of a request for cancellation of a business document, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the sender of the cancellation rejection.
Business process ID	The unique identification of the business process, given by the responsible role, this cancellation is aimed at.
Reject cancellation, Async Additions	Additional information related to the rejection of the cancellation, needed when using asynchronous communication.
«Business entity» Metering Point	The Metering Point, an entity where energy products are measured or computed, where the original business process was aimed for.
Identification	The unique identification of the Metering Point.
Header and Context Information	The set of information specifying the information to be added to this payload “Reject cancellation” in order 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 initiating this request for cancellation.

2.5.5 Notify cancellation (Class Diagram)

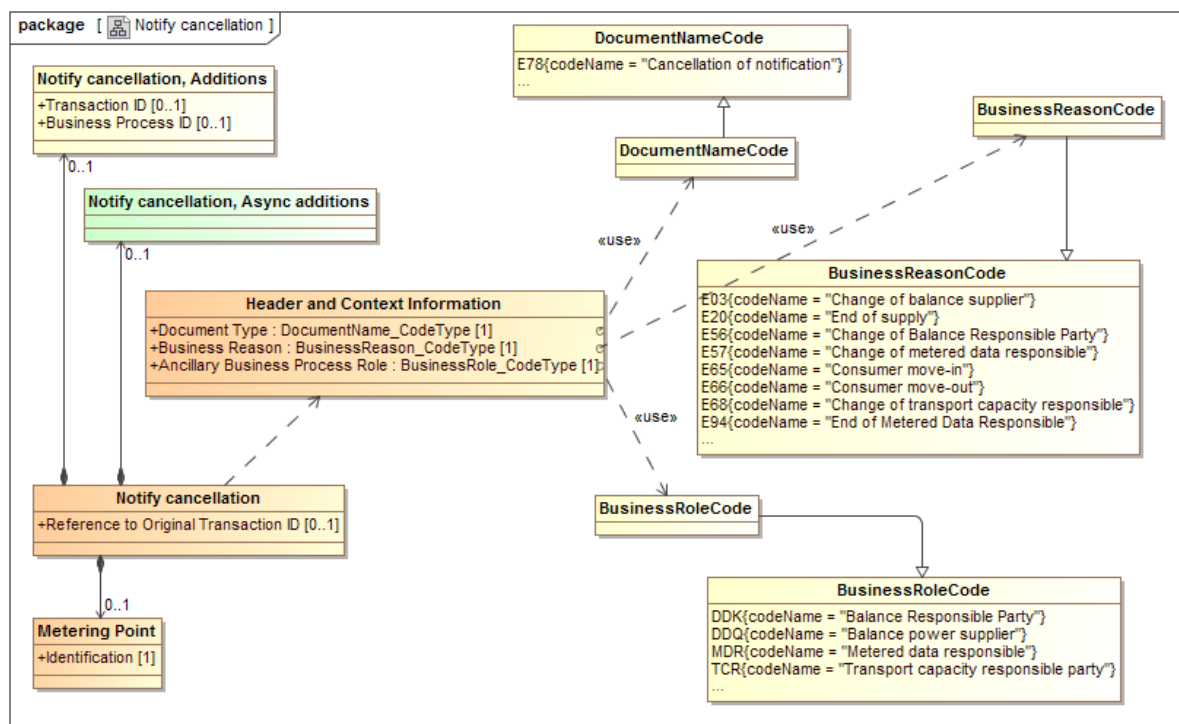


Figure 12 Notify cancellation

2.5.5.1 Element definitions, Notify cancellation

Class/attribute	Description
«Business entity» Notify cancellation	A document used for notifying cancellation of an earlier sent business document.
Reference to Original Transaction ID	A reference to the Transaction ID in the original notification sent from the Responsible Role.
«Business entity» Metering Point	The Metering Point, an entity where energy products are measured or computed, where the cancellation of a process/document was accepted for.
Identification	The unique identification of the Metering Point.
Notify cancellation Additions	Additional information related to the notification of cancellation, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the originator of the cancellation notification.
Business process ID	The unique identification of the business process, given by the responsible role, this cancellation is aimed at.
Cancellation request, Async Additions	Additional information related to the cancellation notification, needed when using asynchronous communication.
Header and Context Information	The set of information specifying the information to be added to this payload “Notify cancellation” in order 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 initiating this request for cancellation.

2.5.5.2 Notify cancellation (State Diagram)

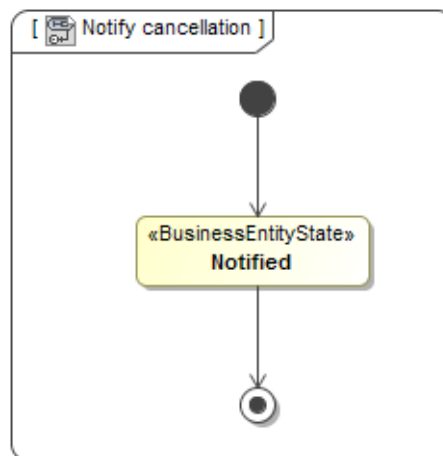


Figure 13 Notify cancellation