

General - Acknowledgement

Model Documentation



The European message format for the gas market

Version 6.1

Document Version: 5

Table of Contents

21		
22		
23	1 Model Detail	3
24	2 Document Schema Overview	4
25	3 Document usage decision table	5
26	4 Acknowledgement Process	6
27	4.1 Business Process	6
28	4.1.1 Acknowledgement process workflow	7
29	4.2 Acknowledgement Document (ACKNOW)	8
30	4.2.1 Acknowledgement Document Contextual Model	8
31	4.2.2 Acknowledgement Document Assembly Model.....	9
32	4.2.2.1 Acknowledgement_Document.....	10
33	4.2.2.1.1 Attributes	10
34	4.2.2.2 Rejection_ConnectionPoint	11
35	4.2.2.2.1 Attributes	11
36	4.2.2.3 Reason.....	11
37	4.2.2.3.1 Attributes	11
38	5 Document Change Log	12
39	5.1 Version.....	12
40	5.1.1 Attributes	12
41		

1 Model Detail

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2 Document Schema Overview

The table below contains an overview of the different message types described in this document, and the corresponding current schema version for each type.

Message Type	Message Name	Schema Version
ACKNOW	Acknowledgement document	1

3 Document usage decision table

The following decision table provides a summary of the message requirements depending on the type of message:

Acknowledgement Document	Application acknowledgement	Technical acknowledgement
identification	Mandatory. As an ACKNOW message is a response to a specific message with its own identification and version - a new and unique identification should be present for every new ACKNOW message.	
version	May be used. If used, it should always be version 1.	
documentCode	294 = Application Acknowledgement.	AMU = Technical Acknowledgement.
creationDateTime	Mandatory.	
ValidityPeriod	May be used.	
applicationContext	May be used. Deprecated attribute which will be removed in the next version of Edig@s.	
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)	
issuer_MarketParticipant.marketRole.roleCode	Mandatory. Any role possible depending on message origin. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)	
recipient_MarketParticipant.marketRole.roleCode	Mandatory. Any role possible depending on message origin. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
receiving_Document.identification	Mandatory if interpretable	
receiving_Document.version	Mandatory if interpretable.	
receiving_Document.documentCode	Mandatory if interpretable.	
receiving_Document.creationDateTime	Mandatory if interpretable.	
receiving_Document.payloadName	Mandatory if document identification not interpretable.	
reasonCode	Mandatory. (Refer to Edig@s ReasonCodeTypeCodeList for the list of valid codes).	
text	May be used as required.	
RejectionConnectionPoint.identification	May be used to provide additional clarifying information; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.	

4 Acknowledgement Process

4.1 Business Process

The Acknowledgement document fits into a general Edig@s acknowledgement process and is divided into two categories:

1. TECHNICAL ACKNOWLEDGEMENT

A technical acknowledgement occurs when an XML document is received that cannot be correctly processed for submission to the application. Such an error could occur for example whenever the XML parser cannot correctly parse the incoming document. Other instances could be the incapacity to correctly identify the sender of the document in relation to the process requested.

In such a case a technical acknowledgement can be sent to the document sender providing the information that the XML document in question cannot be correctly processed by the system.

2. APPLICATION ACKNOWLEDGEMENT

Whenever it is necessary to send a response that can provide additional information to the sender and in order to implement effective data exchange the following procedure should be applied upon reception of a document to verify at the application level that it contains no faults that could prevent correct processing:

- A document that is valid after this verification shall necessitate the generation of an Acknowledgement document accepting in its entirety the document in question.
- A document that has an error in it shall necessitate the generation of an Acknowledgement document that can completely or partially reject the document in question.

This acknowledgment sequence will not be described systematically in the information flows, but it shall be flagged as an integral part of each transmission wherever it is required.

To avoid a hold up in a critical business process an ACKNOW message should be sent as quickly as possible.

For instance, when a BRP sends a nomination to the SO, the BRP needs to be rapidly informed whether the nominated values have been taken into account. If the SO waits for a result of the matching process or capacity trading process in order to acknowledge the receipt of the nomination, the acknowledgement will be delayed.

Therefore, it is strongly recommended that the acknowledgment process should not (unless the information is already available when the message to acknowledge is received) wait for an outcome of a business process and thus delay the acknowledgment.

An ACKNOW should be sent as a response to any incoming message (if it is used in the process) as soon as possible, with sufficient information regarding message acceptance or rejection. In case of rejection, a reason for the rejection should be included in the message. An ACKNOW message should provide more information than the normal AS4 receipt acknowledgement, and as a minimum the following validations should be carried out prior to sending an ACKNOW message:

- Technical validation. Validation of the sender and the communication protocol, check that the XML structure is in accordance with the XSD-schema and that all required fields in the message are present.
- Semantic validation. Validation of the message content like e.g, coding scheme, EIC codes, document codes, lead-time or other relevant business rules that should be adhered to in the message.

4.1.1 Acknowledgement process workflow

The Acknowledgement document shall be used in conjunction with the transmission of electronic documents defined in the Edig@s process information flow diagrams as required for a technical or application acknowledgement.

In specific processes it may be considered that an acknowledgement is not required.

For example, typically one could consider that the exchange of a NOMINT between a Balance Responsible Party and a System Operator requires an acknowledgement in order to avoid reclamations from the Balance Responsible Party if the NOMINT had not been received.

Alternatively in the case of a NOMRES between a System Operator and a Balance Responsible Party an acknowledgement might not be required since this could hold up processing on the System Operators side waiting for the acknowledgement event that provides no additional processing information. On the Balance Responsible Party's side no further action can be taken if there is a disagreement with the NOMRES content. In addition if the Balance Responsible Party does not receive the NOMRES an immediate alarm will be set off querying why the message had not been received.

In general entities of the same business level may require an acknowledgement when exchanging information.

However entities of different business levels will generally require an acknowledgement of information sent from the lower level to the higher level whereas it may not be necessary when something is sent from the higher level to the lower level.

Not to transmit an acknowledgement when it supplies no new information provides a means of preventing a system waiting for something which will not in the end be processed.

The ACKNOW message may be generated in two contexts:

- At the system level when a technical incident prevents it from being processed by an application.
- At the application level where it should be generated by the application software and NOT by EDI-translator software. In this context it must mention the parties as stated in the message that is being acknowledged.

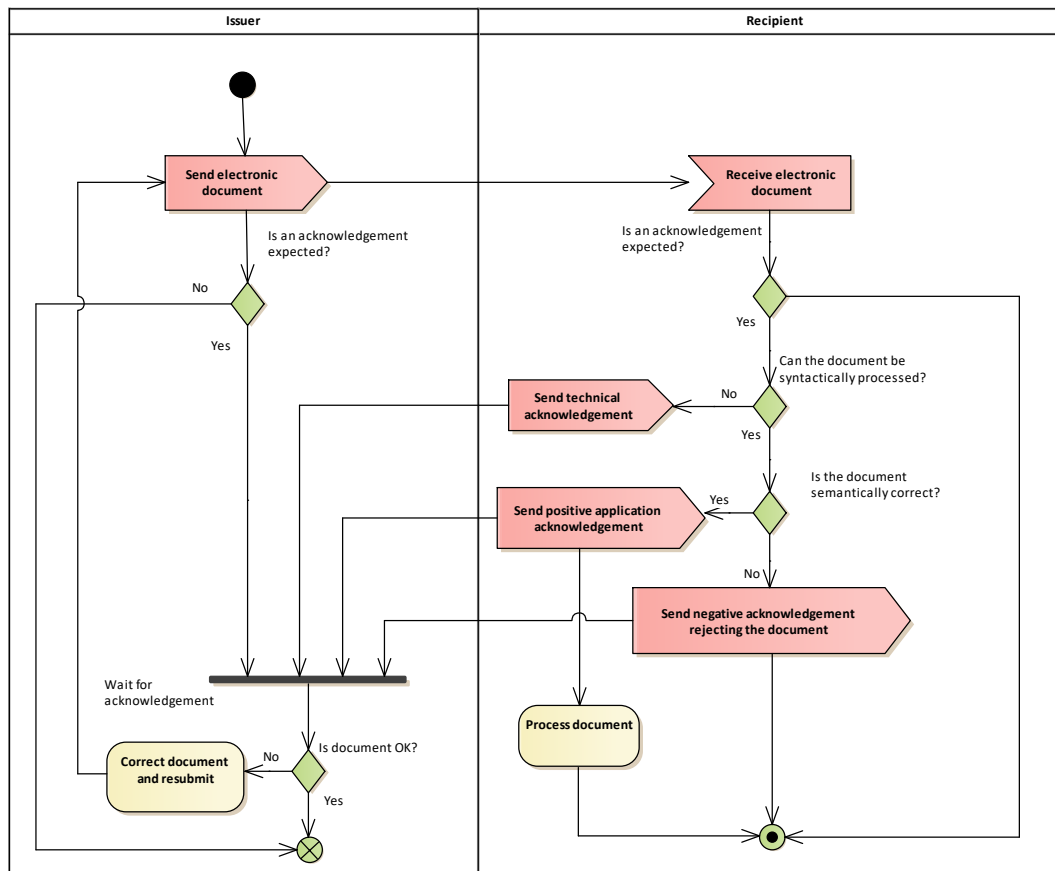


Figure: 1 Acknowledgement process workflow

4.2 Acknowledgement Document (ACKNOW)

4.2.1 Acknowledgement Document Contextual Model

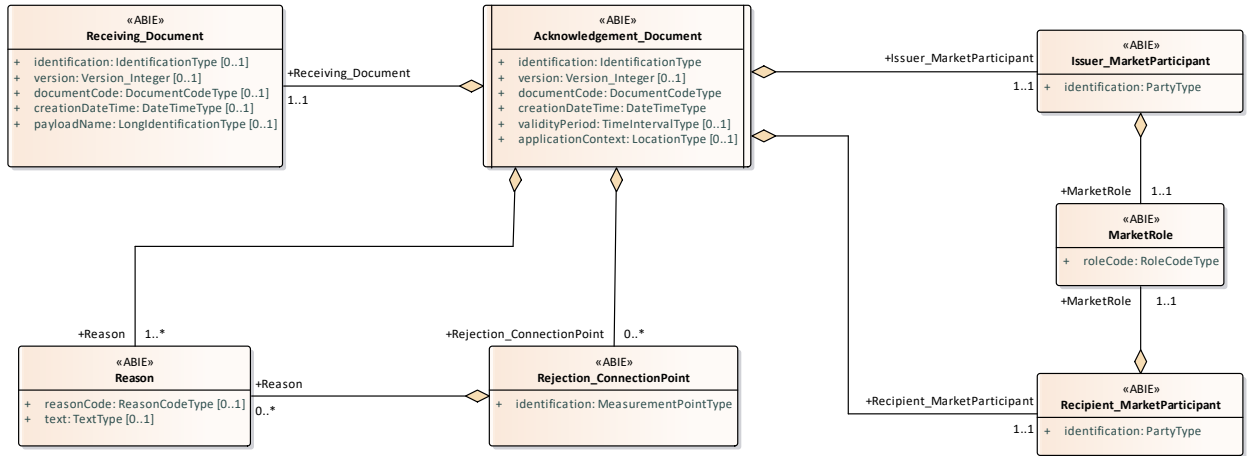


Figure: 2 Acknowledgement Document Contextual Model

4.2.2 Acknowledgement Document Assembly Model

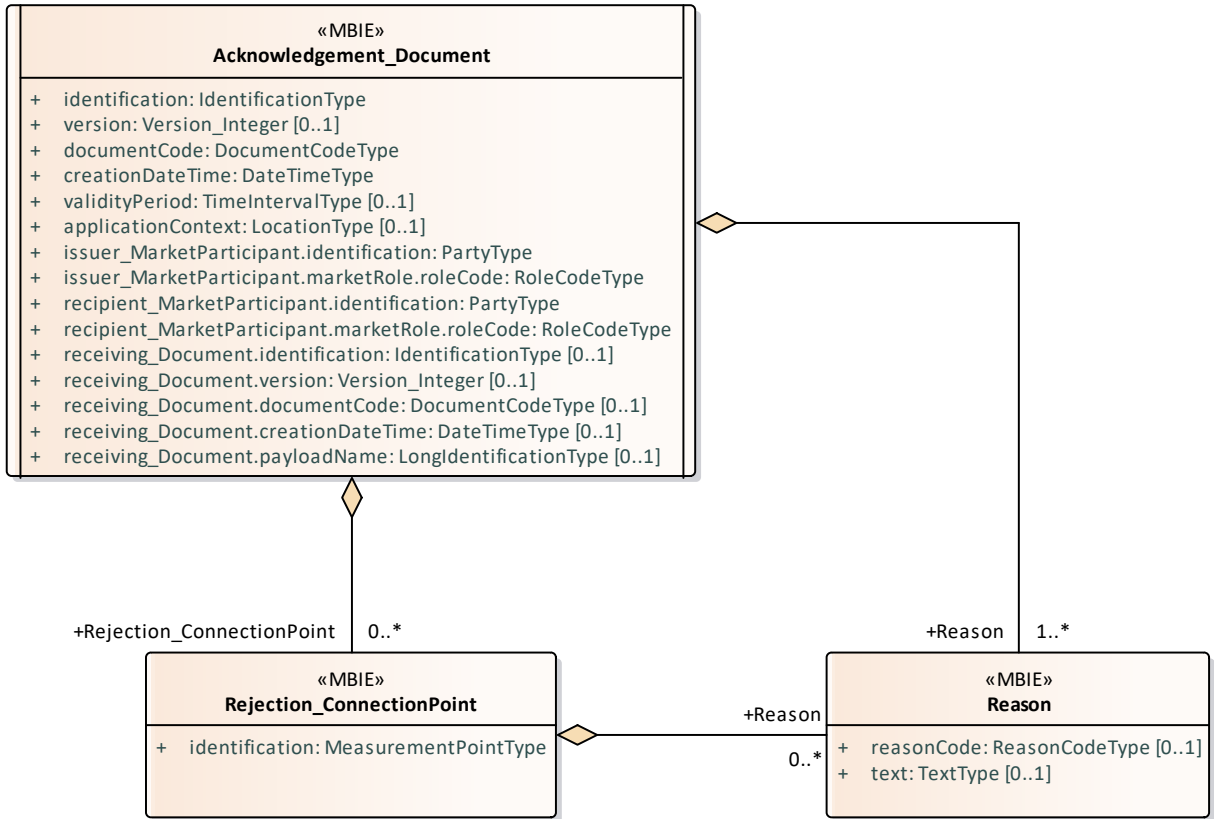


Figure: 3 Acknowledgement Document Assembly Model

4.2.2.1 Acknowledgement_Document

This class provides the basic information needed to describe most electronic documents.

4.2.2.1.1 Attributes

Attribute	Description	Multiplicity
identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	
version	Version of the document being sent. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	[0..1]
documentCode	Coded representation of the type of the electronic document.	
creationDateTime	Date and time of the creation of the current document expressed in UTC.	
validityPeriod	The start and end date and time of the period of validity covered in the document.	[0..1]
applicationContext	The application context is used to identify a particular context (a location identification, an application identification, etc.) that is relevant to the recipient of the document.	[0..1]
issuer_MarketParticipant.identification	The identification of the party participating in the market. --- The issuer of the acknowledgement.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. --- The issuer of the acknowledgement. --- The role of the issuer.	
recipient_MarketParticipant.identification	The identification of the party participating in the market. --- The recipient of the acknowledgement.	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. --- The recipient of the acknowledgement. --- The role of the recipient.	
receiving_Document.identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	[0..1]
receiving_Document.version	Version of the document being acknowledged. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	[0..1]
receiving_Document.documentCode	Coded representation of the type of the electronic document. documentCode of the document being acknowledged.	[0..1]
receiving_Document.creationDateTime	Date and time of the creation of the current document expressed in UTC.	[0..1]

Attribute	Description	Multiplicity
	creationDateTime of the document being acknowledged.	
receiving_Document.payloadName	The name of a specific payload being referenced in the document. The payload of the document being acknowledged. This is only used when the document identification cannot be recognised.	[0..1]

4.2.2.2 Rejection_ConnectionPoint

A cross-border interconnection point, whether it is physical or virtual, between two or more member states as well as interconnection between adjacent entry-exit-systems within the same member states. It may be used on the internal market.

If a specific connection point is being rejected this class shall be used to identify it. It is generally the case if the original document is only partially rejected.

4.2.2.2.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	

4.2.2.3 Reason

The motivation of an act.

The Reason class shall provide any coded or textual information that is necessary to completely describe the conditions of the acknowledgement. It may provide additional information at the connection point level describing any eventual amendment or rejection.

4.2.2.3.1 Attributes

Attribute	Description	Multiplicity
reasonCode	The motivation of an act in coded form.	[0..1]
text	The textual explanation corresponding to the reason code.	[0..1]

5 Document Change Log

5.1 Version

5.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 2020-06-29	Initial release.	
Version 2 2021-07-05	Release 6.1	
Version 3 2022-10-19	- Added deprecation statement for applicationContext attribute - Updated validity period attribute to be optional. - Updated mandatory text in the decision table. - Included additional text in business process section	
Version 4 2023-07-15	Added description in decision table on usage of identification attribute. Added description in the business process for content validation of an ACKNOW message.	
Version 5 2026-06-25	Added new section for document schema overview	