

General - Publication Process

Model Documentation



The European message format for the gas market

Version 6.1

Document Version: 3

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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
PUBLIC	Publication document	1

3 Publication Document usage decision table

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

Publication Document	Publication Document
identification	Mandatory.
version	Mandatory.
documentCode	AMM = Publication document.
creationDateTime	Mandatory.
validityPeriod	Mandatory.
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).
issuer_MarketParticipant.marketRole.roleCode	ZSO = System Operator. ZUJ = Capacity Platform Responsible.
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).
recipient_MarketParticipant.marketRole.roleCode	ZSO = System Operator. ZSH = Balance Responsible Party.
ConnectionPoint.identification	Mandatory; ; codingScheme = 305 (EIC Measurement Point Z code) or ZSO.
Sequence.position	Mandatory.
Composition.quantityCodeType	Mandatory if codes to be used; (XoR with ChemicalCompoundCode and PhysicalPropertyCode). (Refer to Edig@s QuantityCodeTypeCodeList for the list of valid codes).
Composition.chemicalCompoundCode	Mandatory if codes to be used; (XoR with QuantityCodeType and PhysicalPropertyCode). (Refer to Edig@s ChemicalCompoundCodeTypeCodeList for the list of valid codes).
Composition.PhysicalPropertyCode	Mandatory if codes to be used; (XoR with QuantityCodeType and ChemicalCompoundCode). (Refer to Edig@s PhysicalPropertyCodeTypeCodeList for the list of valid codes).

Publication Document	Publication Document
Composition.measureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h). KW2 = Kilowatt-hour per day (kWh/d). KW3 = Kilowatt hour per cubic meter (kWh/m ³). VPC = Volume percentage (Vol-%) %. MOL = Mole %. GP = Milligram per cubic meter (mg/m ³). CEL = Celsius. BAR = Bar.
Composition.currency.currencyCode	May be used. (Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).
Period.timeInterval	Mandatory.
Period.direction.gasDirectionCode	Z02 = Input quantity. Z03 = Output quantity.
Period.quantity.amount	Mandatory.
Period.price.amount	May be used.
Reason.text	May be used.

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4 Publication Process

A Publication Document can enable the transmission of basic information that is normally not included in the day to day messages. It is aggregated per connection point or an area and could, for example, be one of the following:

- Transmission of GCV values;
- Transmission of pricing information;
- Transmission of capacity information;
- Transmission of the water dewpoint;
- Transmission of dumping information;
- Etc..

4.1 Business Process

The Publication Document is a general Edig@s message that can be used over several processes. It is an aggregation of information related to a connection point or an area (where an area is a virtual connection point managed by a single Area Coordinator on input and on output).

The reporting is on a per characteristic basis.

4.1.1 Publication process workflow

The Publication document may be used to provide information to a market participant that is normally not provided in the general day to day messages.

The information that is required may be agreed for systematic periodic transmission or on a one off basis.

The Issuer of the information, based on previous agreement, will assemble the required information together in a Publication Document. The information is assembled at the connection point level and the characteristics requested.

Once assembled, the Publication Document is transmitted to the Recipient.

On reception the Recipient verifies if the information in the document is usable and if it is, transmits a positive acknowledgement to the Issuer. This terminates the publication process.

If the information cannot be used the recipient transmits a negative acknowledgement to the Issuer.

The Issuer resolves the inconsistencies and retransmits the Publication Document to the Recipient.

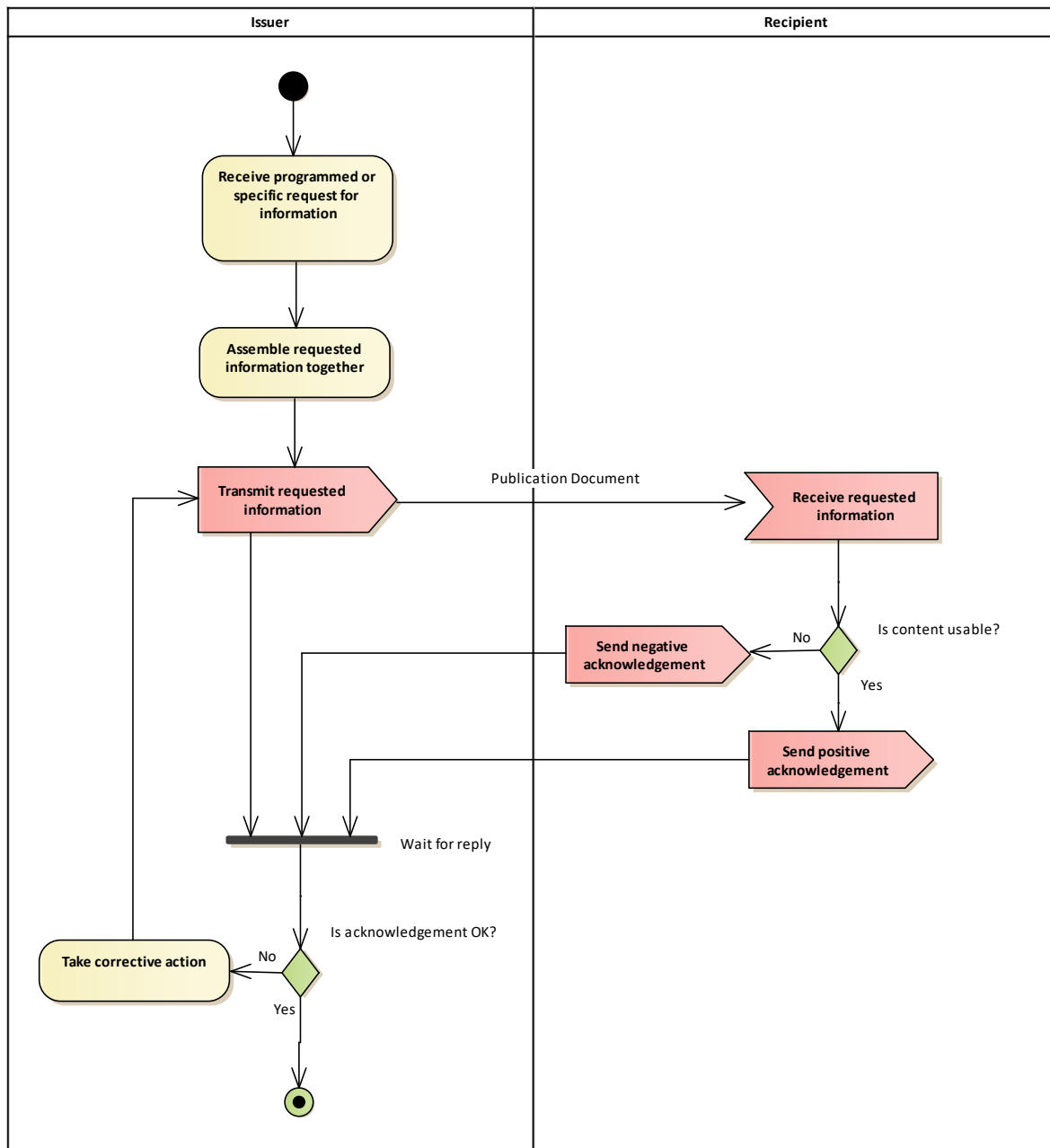


Figure: 1 **Publication process workflow**

4.2 Publication Document (PUBLIC)

4.2.1 Publication Document Contextual Model

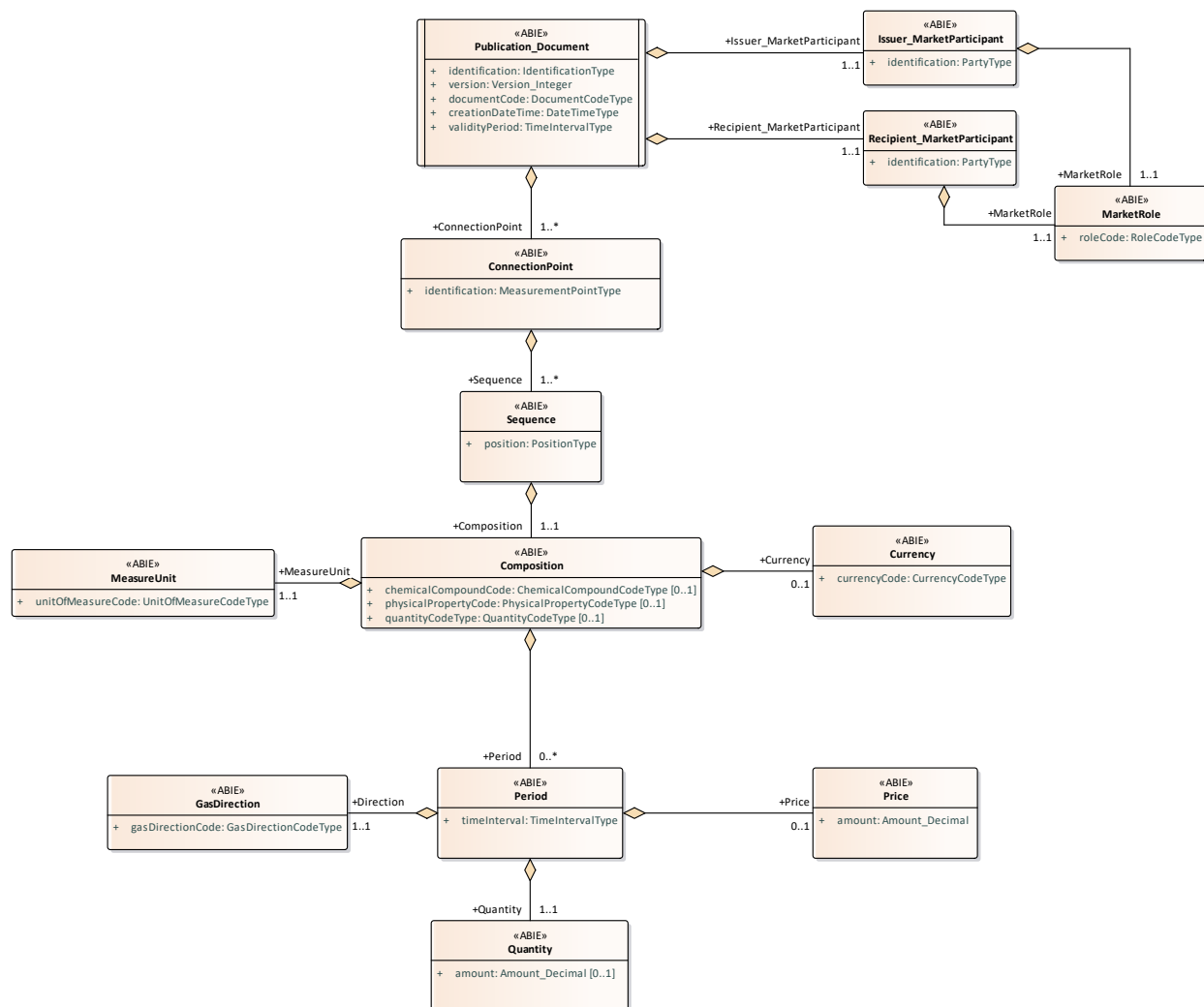


Figure: 2 **Publication Document Contextual Model**

4.2.2 Publication Document Assembly Model

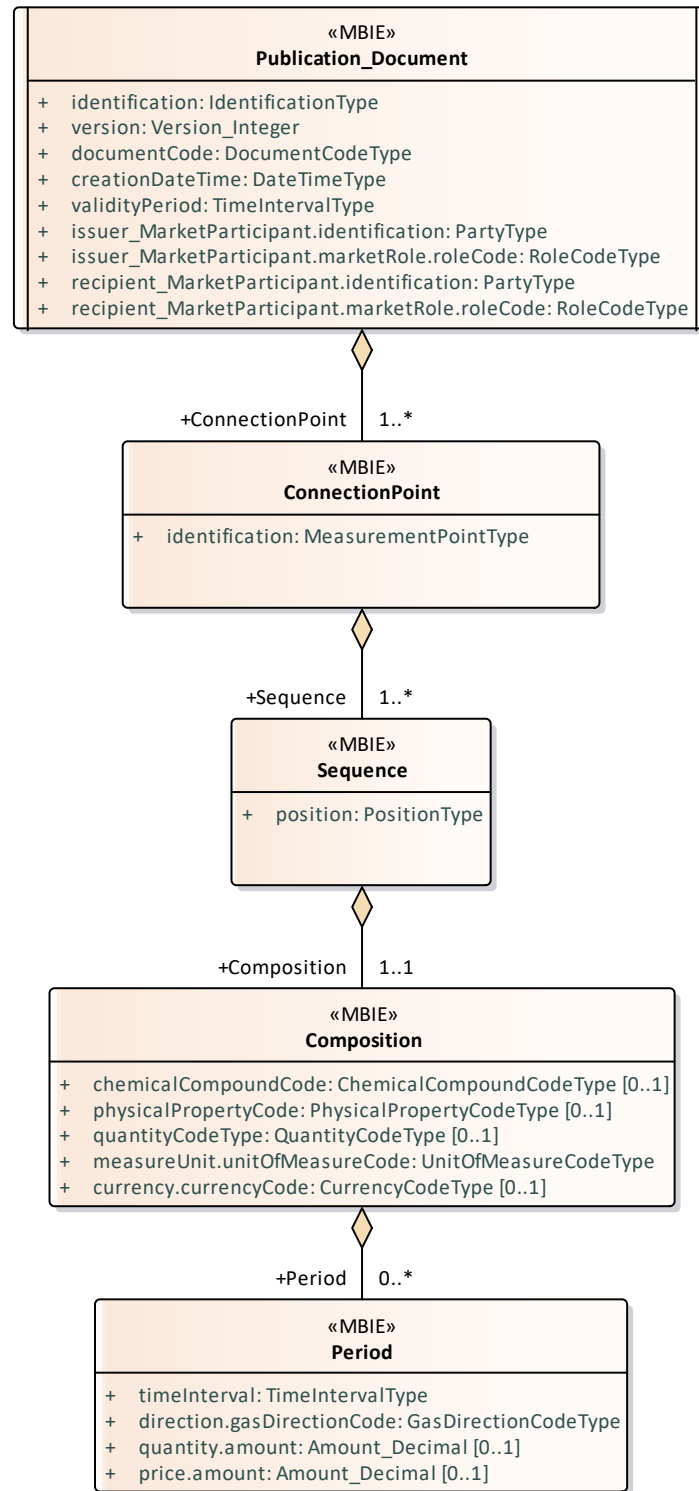


Figure: 3 **Publication Document Assembly Model**

4.2.2.1 Publication_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.	
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.	
issuer_MarketParticipant.identification	The identification of the party participating in the market. --- The issuer of the document.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. --- The issuer of the document. --- The role of the issuer of the document.	
recipient_MarketParticipant.identification	The identification of the party participating in the market. --- The recipient of the document.	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. --- The recipient of the document. --- The role of the recipient of the document.	

4.2.2.2 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.

There may be as many connection points as required to provide all the requested or planned information.

4.2.2.2.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	

4.2.2.3 Sequence

A class identifying a sequence.

The identification of specific instance of a Composition class for a given connection point.

4.2.2.3.1 Attributes

Attribute	Description	Multiplicity
position	The identification of a given sequence value.	

4.2.2.4 Composition

A coded identification of the composition of gas.

This identifies the nature of the composition being reported

4.2.2.4.1 Attributes

Attribute	Description	Multiplicity
chemicalCompoundCode	A code defining a chemical compound.	[0..1]
physicalPropertyCode	A code defining a physical property.	[0..1]
quantityCodeType		[0..1]
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. --- The unit of measurement used for the quantities expressed within the time series.	
currency.currencyCode	The identification of the formal code for a currency (ISO 4217). --- This information defines the currency of the price within the time interval period.	[0..1]

4.2.2.5 Period

The period that the dependent information is for.

There must always be a Period class to cover the quantities that are being reported.

4.2.2.5.1 Attributes

Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
direction.gasDirectionCode	A code identifying the direction of a gas flow. --- This identifies the direction of the energy flow.	
quantity.amount	The amount of a quantity. --- This information defines the quantity being reported for the composition in question.	[0..1]
price.amount	The monetary amount of a price. --- This identifies the price of the quantity that is being reported.	[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 2026-06-25	Added new section for document schema overview	