

Gas Trading - OTC Process

Model Documentation



The European message format for the gas market

Version 6.1

Document Version: 3
Schema Version: 1

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1 Model Detail

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2 Decision Tables

2.1 Offers Document usage decision table

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

Offers Document	
identification	Mandatory.
version	Mandatory.
documentCode	AGG = Availability notice. AMA = Purchase Requirements Document.
creationDateTime	Mandatory.
validityPeriod	Mandatory.
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)
issuer_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)
recipient_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party
contract_Reference.identification	Mandatory. Identifies the contract under which the conditions of the content and transmission of the document have been agreed.
Contractual Possibility Period.timeInterval	Mandatory.
Contractual Possibility Period.contractual_Quantity.quantityCode	ZXH = Maximum possible ZXI= Minimum possible
Contractual Possibility Period.contractual_Quantity.amount	Mandatory.
Contractual Possibility Period.measureUnit.unitOfMeasureCode	KW1 = Kilowatt hour per hour (kWh/h) KW2 = Kilowatt hour per day (kWh/d) TQH = Thousand cubic meters per hour TQD = Thousand cubic meters per day.
Contractual Possibility Period.direction.gasDirectionCode	Z02 = Input quantity Z03 = Output quantity
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC measurement Unit Z code) or ZSO

Offers Document	
	The message has to contain all Connection Points connected to the same contract.
ConnectionPoint.measureUnit.unitOfMeasureCode	KW1 = Kilowatt hour per hour (kWh/h). KW2 = Kilowatt hour per day (kWh/d). KW3 = Kilowatt hour per cubic meter (kWh/m3). TQD = Thousand cubic meters per day. VPC = Volume percentage (Vol %). MOL = Mole %. GP = Milligram per cubic meter (mg/m ³). CEL = Celsius. BAR = Bar.
Period.timeInterval	Mandatory.
Period.direction.gasDirectionCode	Z02 = Input Z03 = Output
Period.quantity.amount	Mandatory.
deviation_Reason.reasonCode	May be used 25G = Planned availability. 48G = Other error.
MaximumQuantityAvailable_Period	May be used.
MinimumQuantityAvailable_Period	May be used.
QualityDeficientGas_Period	May be used.

93 2.2 Request Document usage decision table

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

Request Document	OFFTAKE NOTICE	ALL OTHER CASES
identification	Mandatory.	
version	Mandatory.	
documentCode	38G = Offtake notice.	AMB = Sales Offer. AMO = Flexible services request document.
creationDateTime	Mandatory.	
version	Mandatory.	
issuer_MarketParticipant.identification	Mandatory; codingScheme (EIC Party X code).	
issuer_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party	
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)	
recipient_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party	
contract_Reference.identification	Mandatory.	
offers_Document.identification	Mandatory when the Request document is based on an Offers document that initiated the exchange. If the Request document is the first document used in the exchange it will not be included.	
offers_Document.version	Mandatory when the Request document is based on an Offers document that initiated the exchange. If the Request document is the first document used in the exchange it will not be included.	
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC MeasurementPoint Z or Y code) or ZSO The message has to contain all Connection Points connected to the same contract.	
Account.internalAccount	Mandatory; codingScheme (EIC Account Y code) or ZSO	Mandatory; codingScheme (EIC Account Y code) or ZSO.
Account.internalAccountTso	May be used; codingScheme = 305 (EIC Party X code).	
QuantityCode_Composition.quantityCodeType	Z36 = Balance Responsible Party offtake/delivery.	

Request Document	OFFTAKE NOTICE	ALL OTHER CASES
QuantityCode_Composition.measureUnit.unitOfMeasureCode	KW1 = Kilowatt hour per hour (kWh/h). KW2 = Kilowatt hour per day (kWh/d). TQH = Thousand cubic meter per hour. TQD = Thousand cubic meter per day.	
QuantityCode_Composition.direction.gasDirectionCode	Z02 = Input quantity Z03 = Output quantity	
Period.timeInterval	Mandatory.	
Period.quantity.amount	Mandatory.	

96 2.3 Request Response Document usage decision table

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

Request Response Document	All cases
identification	Mandatory.
version	Mandatory.
documentCode	AMD = Offtake confirmation. AMC = Purchase confirmation. AMR = Flexible request confirmation document.
creationDateTime	Mandatory.
validityPeriod	Mandatory.
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).
issuer_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).
recipient_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party
contract_Reference.identification	Mandatory.
request_Document.identification	Mandatory when the Request Response document is based on a Request document that initiated the exchange. If the Request Response document is the first document used in the exchange it will not be included.
request_Document.version	Mandatory when the Request Response document is based on a Request document that initiated the exchange. If the Request Response document is the first document used in the exchange it will not be included.
ConnectionPoint.identification	Mandatory. The message has to contain all Connection Points connected to the same contract.
Account.internalAccount	Mandatory to identify an account of the issuing party. codingScheme = 305 (EIC Account Party code) or ZSO.
Account.internalAccountTso	May be used if the identification of the System Operator that created the account is ambiguous. codingScheme = 305 (EIC Party X code).
QuantityCode_Composition.quantityCodeType	Z36 = Balance Responsible Party offtake/delivery.

Request Response Document	All cases
QuantityCode_Composition.measureUnit.unitOfMeasureCode	KW1 = Kilowatt hour per hour (kWh/h). KW2 = Kilowatt hour per day (kWh/d). TQH = Thousand cubic meter per hour. TQD = Thousand cubic meter per day.
QuantityCode_Composition.direction.gasDirectionCode	Z02 = Input quantity. Z03 = Output quantity.
Period.timeInterval	Mandatory.
Period.quantity.amount	Mandatory.

3 Gas Trading

3.1 OTC Trade Process

3.1.1 Business Processes

3.1.1.1 GasTrading-Use-Case

This implementation guide covers the Edig@s trade process and is outlined in the use case diagram in figure 1.

The daily procedure for trading gas has been divided into the use case activities below.

1. GasOwner to GasPurchaser: Making available for offtake. Gas can be placed on the market by a Balance Responsible Party and can be bought principally by a Balance Responsible Party.
2. GasPurchaser to GasOwner: Informing the counter party under the bilateral contract of gas requirements that must be purchased. May be initiated by a Balance Responsible Party who is looking for gas to purchase. Providing flexibility services that essentially concern a mix of both buying and selling gas in the same instance.
3. Flexible services enable the operational handling of complex products between Balance Responsible Party's. Flexible services include the possibility to make swaps.

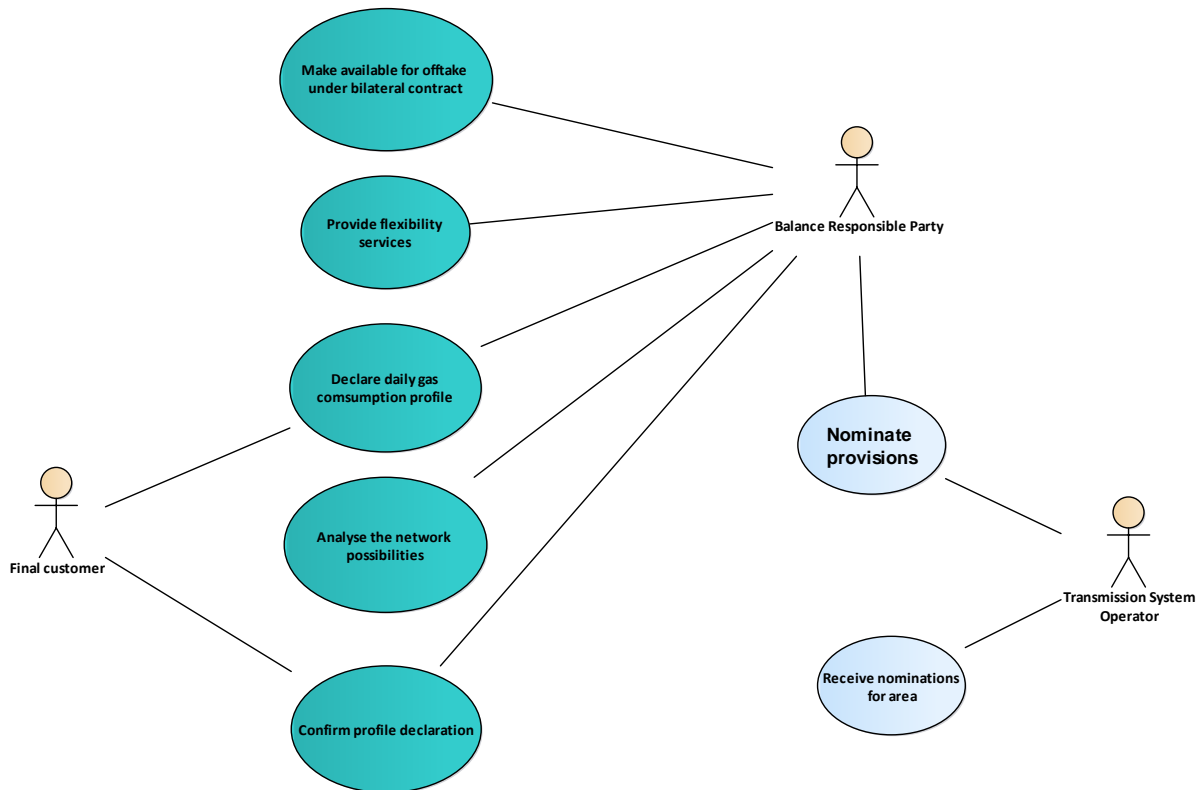


Figure: 1 GasTrading-Use-Case

3.1.1.2 GasOwner to GasPurchaser sequence

The activity of making dry gas available to the market for sale may be initiated by a Gas Owner making available gas for sale. The basic sequence diagram concerning this process is depicted in figure 2.

A Gas Owner providing gas for sale will advise the counter party of the bilateral contract of the quantity of gas and the gas quality that is available for sale.

The information is provided on a periodic basis and in particular it is provided whenever there is an evolution of gas availability or quality. An evolution of availability can occur, for example, due to circumstances where it is not in line with the former forecasted quantities, Maximum Offtake Possibility (MOP) or the quality deviates from the agreed levels.

The key information that is provided is the Maximum Offtake Possibility or MOP.

The Gas Owner may provide availability information to advise another party about:

- The availability of gas.
- Updated availability of gas.
- Different delivery location (switch-over).
- Delivery limitations.

The availability of gas will always be provided in the form of an Availability notice, informing the counter party of the minimum and maximum quantities of gas that are potentially available.

After the availability information has been provided, a Gas Purchaser may inform the Gas Owner about his needs for gas to be delivered to one or more locations for a given number of accounts during a defined period.

This is materialised through the transmission of an Offtake Notice (Request message) the latest version of which is always regarded as a firm request for gas at the due date.

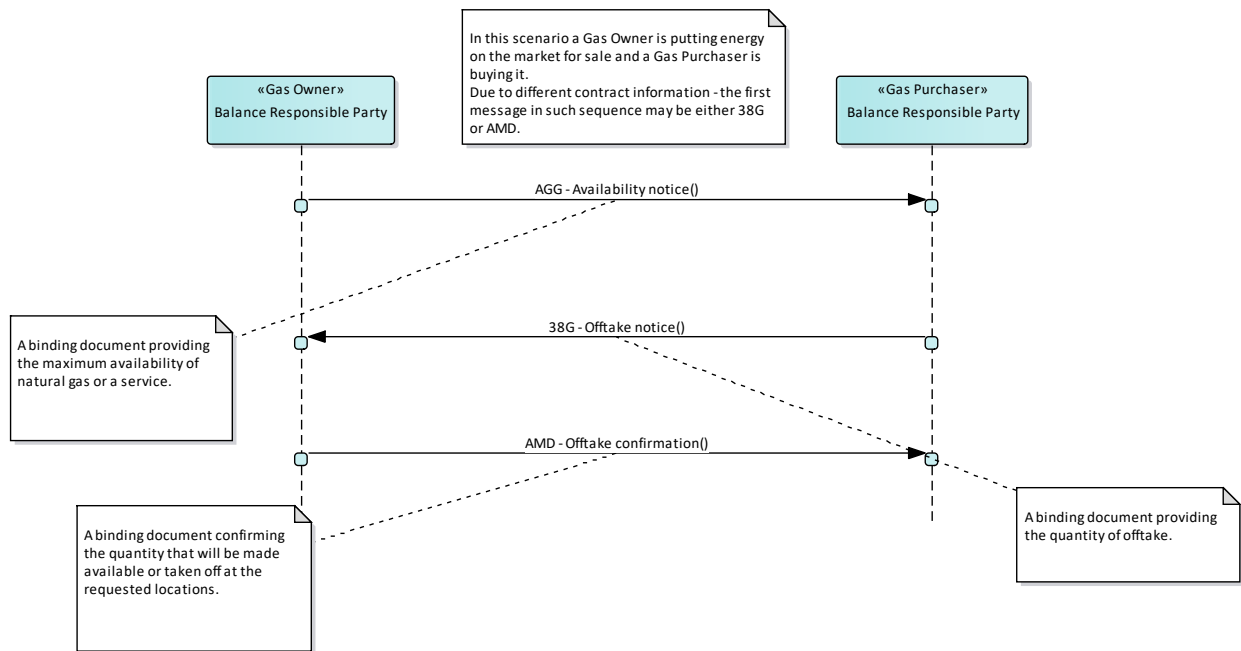
In the event where availability information has been changed (e.g. changed offtake possibilities) there may be a need to provide a new set of requirements.

The requirements information in the Offtake notice relates to a defined period. It may be used by a Gas Purchaser to inform the Gas Owner of:

- A forecasted order of gas requirements.
- A forecasted order of service usage.
- The confirmation of the changed quantities provided by the Gas Owner.
- A request for the delivery to a specific location and/or the redelivery to another location.
- The accounts to whom the gas is to be provided, in the case of a request.

In all cases the Gas Owner will confirm to a Gas Purchaser the quantities that will be delivered for a specific gas day. In addition, the pairing of the accounts in the delivery will be provided. This is materialised through the transmission of an Offtake confirmation.

Consequently, the Gas Purchaser will always be fully aware of the quantities that will be made available or will be taken off at the defined Connection Points.

Figure: 2 gas-owner-to -gas -purchaser sequence

3.1.1.3 GasPurchaser to GasOwner sequence

The activity of informing the counter party under the bilateral contract of gas requirements that must be purchased, may be initiated by a Gas Purchaser who is looking for gas to purchase. The basic sequence diagram concerning this process is depicted in figure 3.

A Gas Purchaser may indicate to the counter parties under the respective bilateral contracts the quantities and quality of gas that are needed to satisfy his gas requirements for a given period.

The information can be provided on a periodic basis and in particular whenever there is an evolution in gas requirements.

The Gas Purchaser may provide purchase requirements information to advise another party about:

- The requirements for gas for a given period.
- Reduced or increased requirements of gas.
- Different delivery location (switch-over).

The requirement for gas can be provided in the form of a Requirements notice, informing the bilateral contract party of the minimum and maximum quantities of gas that are potentially required.

Depending on the bilateral contract, the provision of requirements information will trigger a response from the interested parties.

After the requirements information has been provided, a Gas Owner may inform a Gas Purchaser about the gas available that is for delivery to one or more locations from a given number of Balance Responsible Party's during a defined period.

This is materialised by the transmission of a Sales offer, the latest version of which is regarded as a firm offer of gas.

In the event where requirements information has been changed there may be a need to provide a new set of requirements.

The Sales offer information relates to a defined period. It may be used by a Gas Owner to inform the Gas Purchaser of:

- The quantity of gas available, the latest version of which is always regarded as binding.
- The confirmation of the changed quantities provided by a Gas Purchaser.
- A proposal for the delivery to a specific location and/or the redelivery to another location.
- The accounts from where the gas will be provided.

In all cases the Gas Purchaser will confirm to a Gas Owner the quantities that will be required for a specific Gas day.

In addition, the pairing of the accounts in the required delivery will be provided. This is materialised through the transmission of a Purchase Confirmation.

Consequently, the Gas Owner will always be fully aware of the quantities that have to be made available at the defined Connection Points.

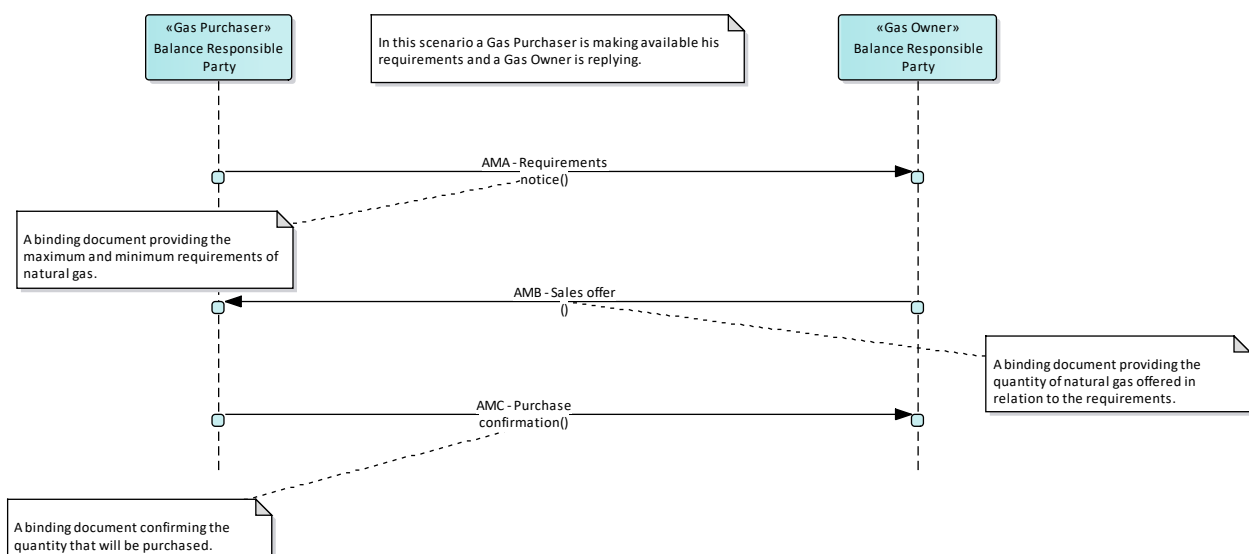


Figure: 3 GasPurchaser to GasOwner sequence

3.1.1.4 GasOwner to GasPurchaser workflow

The above process is initiated whenever a Gas Owner identifies that there is gas available for sale to the bilateral counter party.

The gas that is available placed in an Availability notice (which may be defined in a bilateral contract without necessity to be exchanged) and is sent to inform the bilateral counter party of the gas availability. Any changes to the contents of the notice are resent with the same document identification and a new document version.

On reception of availability information, a bilateral contract party may inform the Gas Owner of the quantities that are of interest as well as the connection points where it is to be taken off. This information is sent through an Offtake Notice. The information will be considered provisional until the time delay has elapsed. As for the availability notice the last version of an offtake notice referring to the current availability notice shall be considered firm.

At a given time the Gas Owner shall send an offtake confirmation to the Gas Purchaser indicating the gas that will be taken off at the requested connection points to satisfy the last request received.

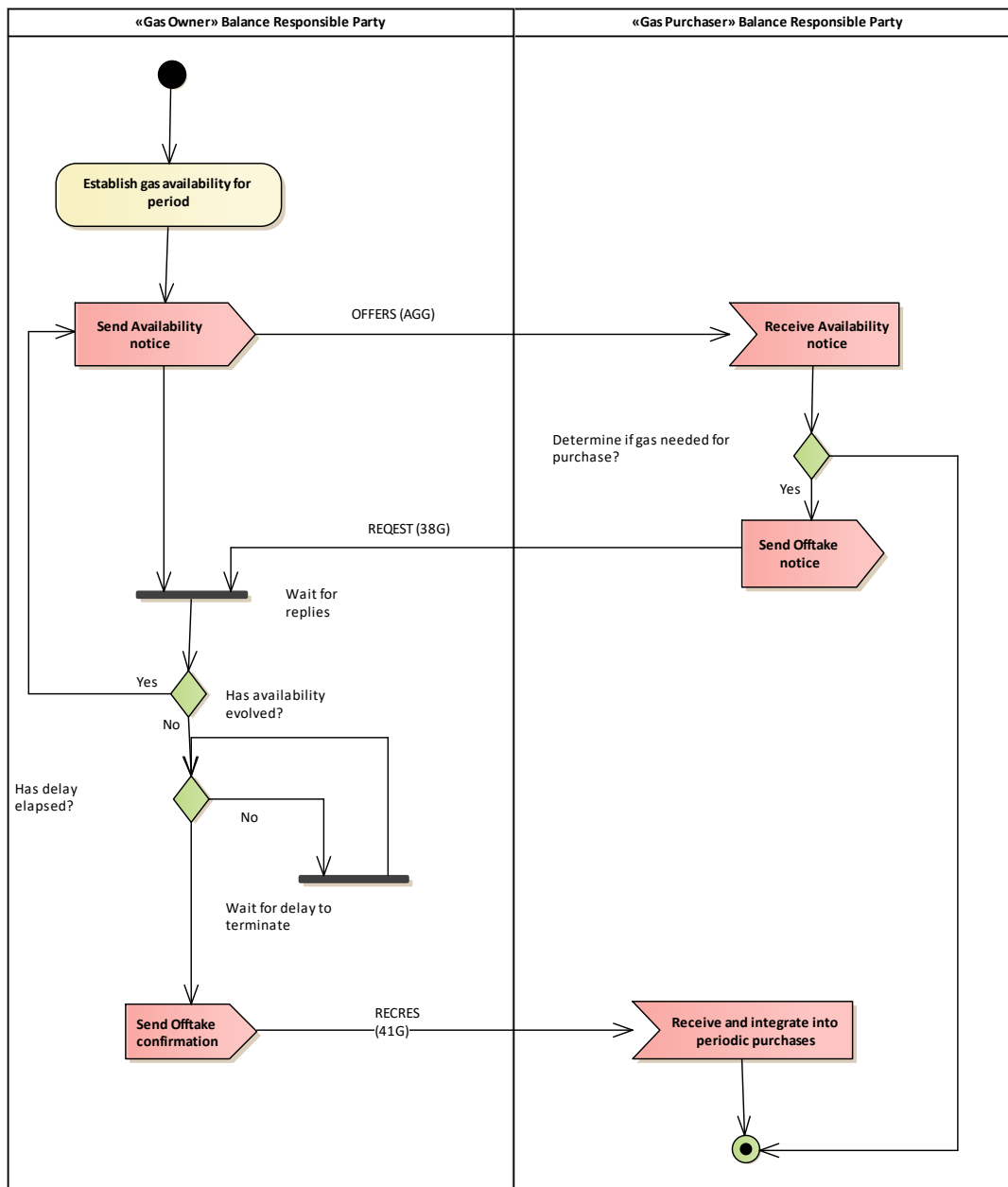


Figure: 4 GasOwner to GasPurchaser workflow

3.1.1.5 GasPurchaser to GasOwner workflow

The above process is initiated whenever a bilateral contract party identifies that there is a requirement for gas to be purchased on the market.

The gas requirements are collected together in a Requirements notice and are sent to inform the bilateral contract party of the gas Requirements.

Any changes to the contents of the notice are resent with the same document identification and a new document version.

On reception of the requirements information the bilateral contract party may inform the Gas Purchaser of the quantities that can be sold to him as well as the connection points where it can be taken off. The information is transmitted to the Gas Purchaser with a sales offer.

In the case where the Gas Owner's offer cannot be fulfilled a revised document is sent by the Gas Purchaser specifying the new requirements. The Gas Owner may at that point in time revise the initial offer to bring it into line with what is required.

At a given time the Gas Purchaser shall send a Purchase confirmation to the Gas Owner indicating the gas that will be purchased at the requested connection points to satisfy the last offer received.

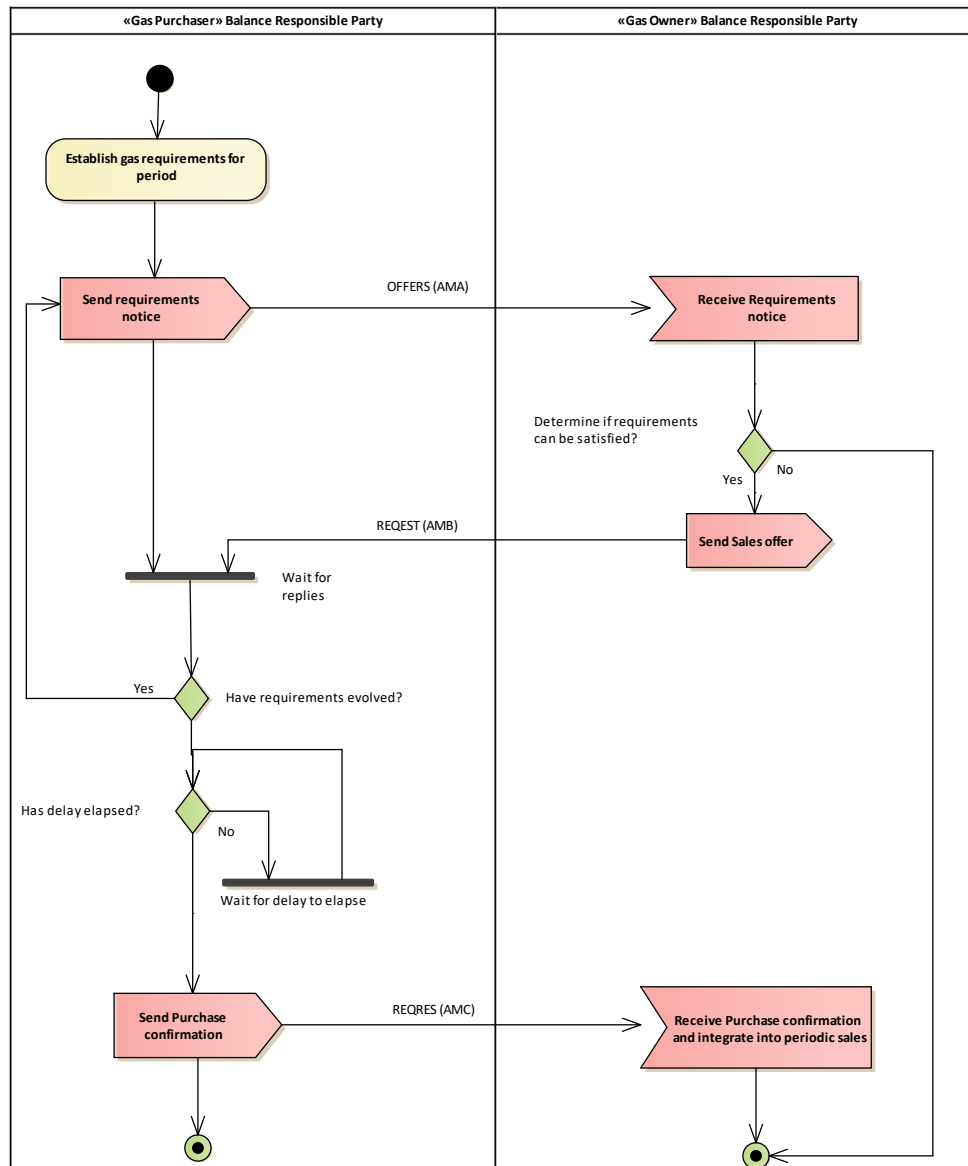


Figure: 5 GasPurchaser to GasOwner workflow

3.1.2 Offers Document (OFFERS)

3.1.2.1 Offers Document Contextual Model

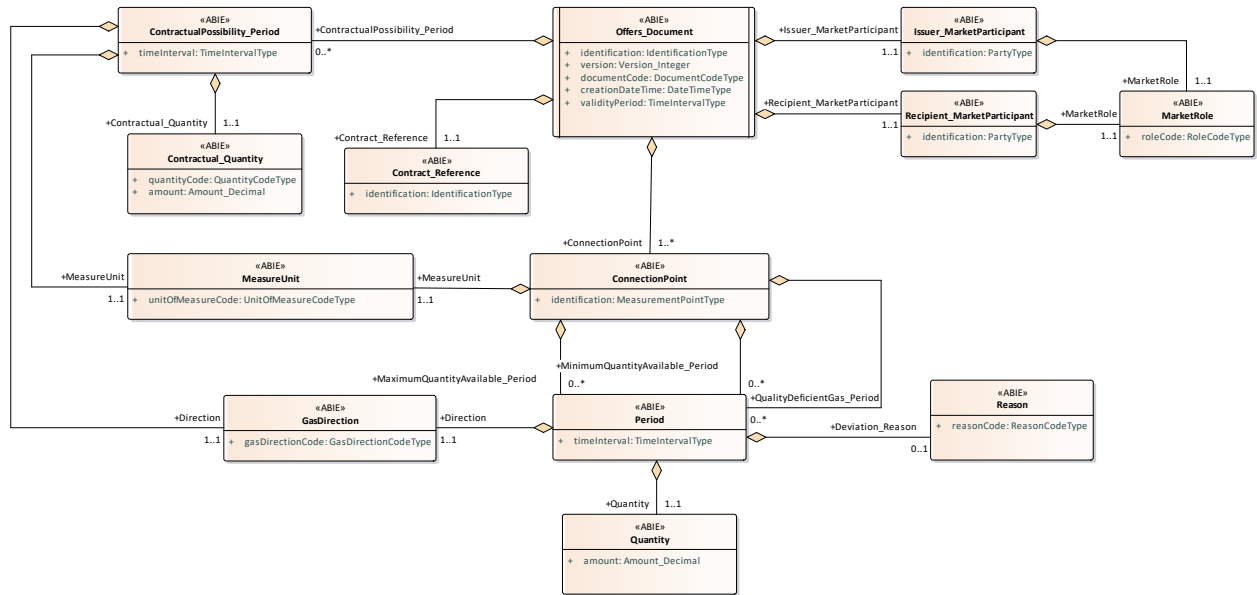


Figure: 6 **Offers Document Contextual Model**

3.1.2.2 Offers Document Assembly Model

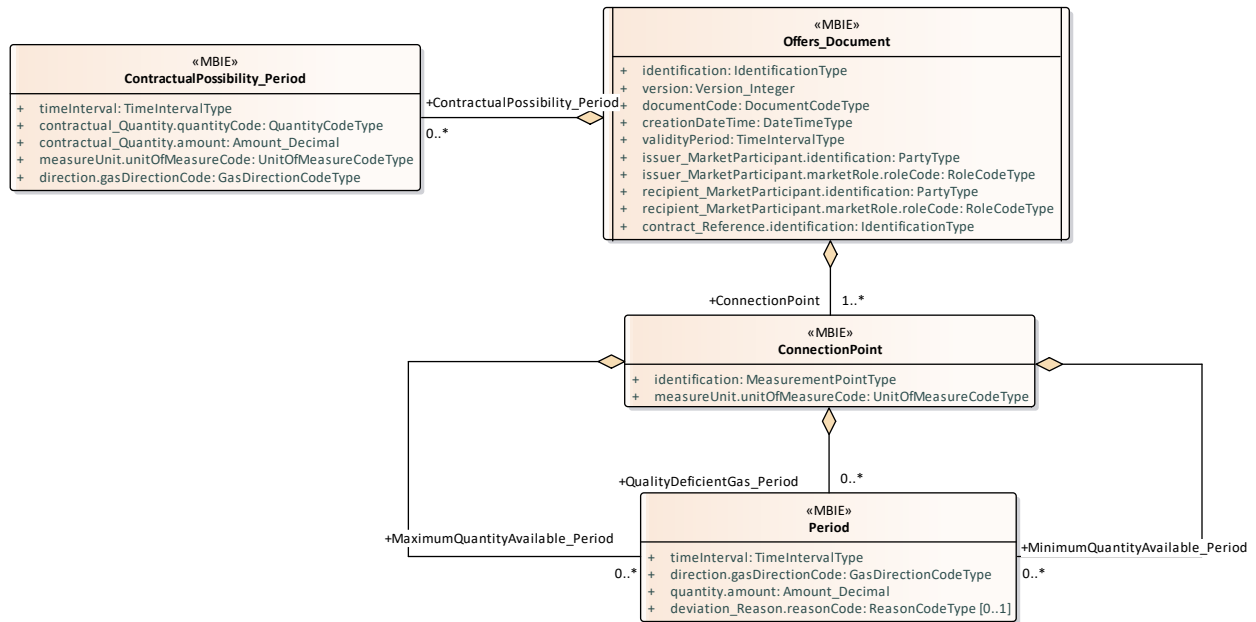


Figure: 7 **Offers Document Assembly Model**

3.1.2.2.1 Offers_Document

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

3.1.2.2.1.1 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.	
contract_Reference.identification	The coded identification of a reference.	

3.1.2.2.2 ContractualPossibility_Period

There may be at least one Contractual Possibility_Period class in an Offers Document. All attributes in the class are mandatory.

If there is no Contractual Possibility_Period class in the document then a Connection Point class is mandatory.

There shall be one instance of the class for each Time Interval period described in the document.

3.1.2.2.2.1 Attributes

Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
contractual_Quantity.quantityCode	A code defining the type of a quantity.	
contractual_Quantity.amount	The amount of a quantity.	
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 19 common codes.	
direction.gasDirectionCode	A code identifying the direction of a gas flow.	

3.1.2.2.3 ConnectionPoint

An interconnection point, whether it is physical or virtual, between two or more Member States as well as interconnections between adjacent entry-exit-systems within the same Member States.

3.1.2.2.3.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 19 common codes.	

3.1.2.2.4 Period

There must be at least one Period class present for a Gas Nature Characteristic class.

3.1.2.2.4.1 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. The gas direction in this context is from the document issuer point of view.	
quantity.amount	The amount of a quantity.	
deviation_Reason.reasonCode	The motivation of an act in coded form. --- The identification of the reason for a deviation.	[0..1]

3.1.3 Request Document (REQUEST)

3.1.3.1 Request Document Contextual Model

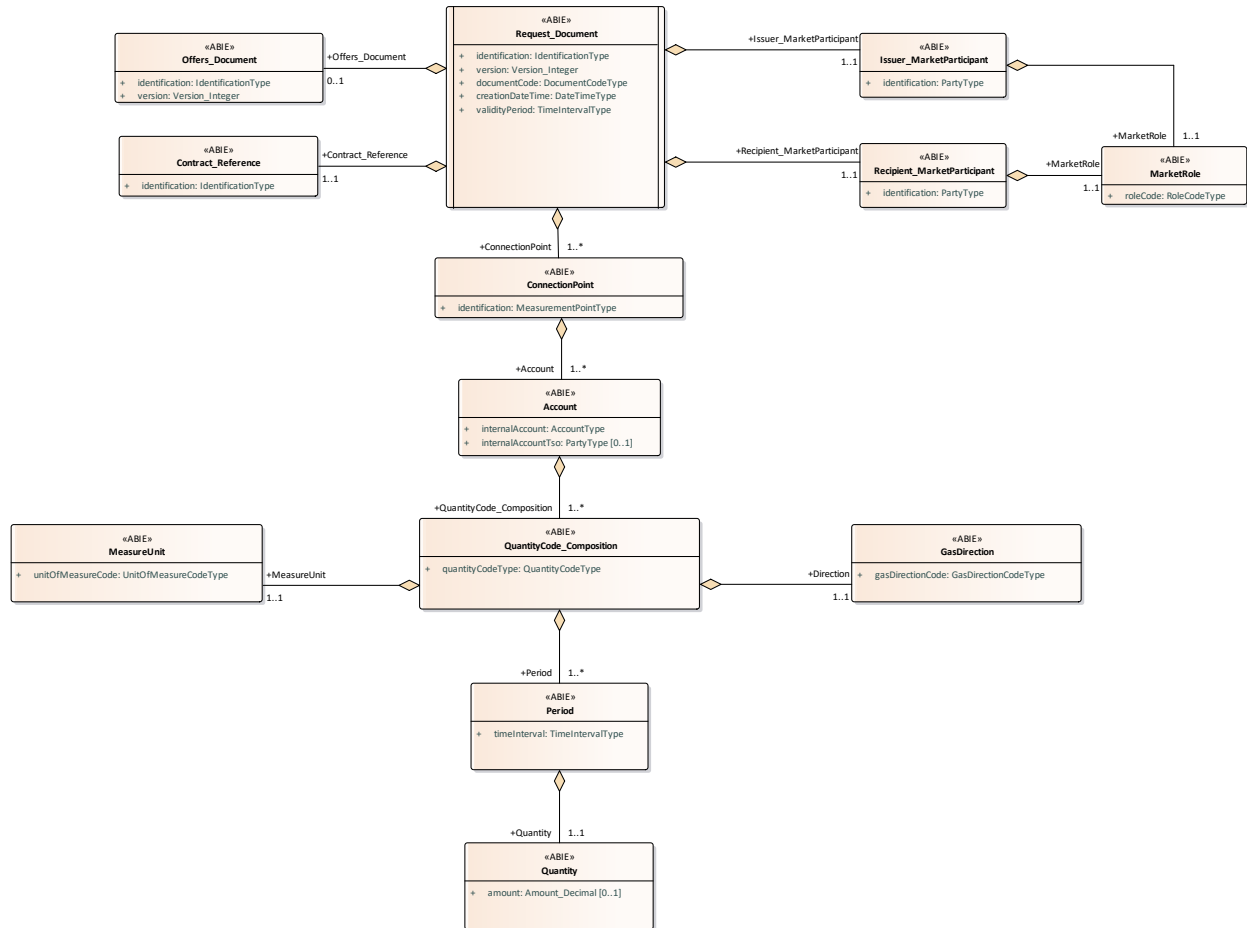


Figure: 8 **Request Document Contextual Model**

3.1.3.2 Request Document Assembly Model

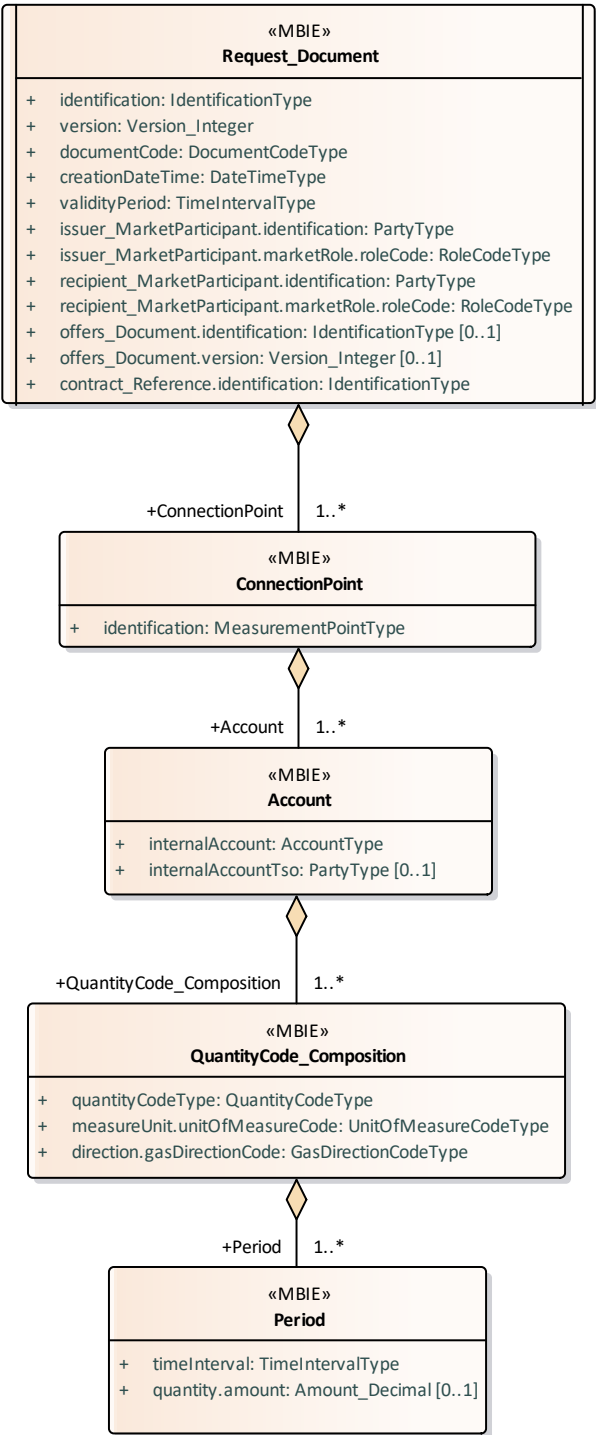


Figure: 9 Request Document Assembly Model

3.1.3.2.1 Request_Document

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

3.1.3.2.1.1 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. (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	
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.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
recipient_MarketParticipant.identification	The identification of the party participating in the market.	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
offers_Document.identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	[0..1]
offers_Document.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]
contract_Reference.identification	The coded identification of a reference.	[0..1]

3.1.3.2.2 ConnectionPoint

An interconnection point, whether it is physical or virtual, between two or more Member States as well as interconnections between adjacent entry-exit-systems within the same Member States.

3.1.3.2.2.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	

3.1.3.2.3 Account

An account used in a transaction.

3.1.3.2.3.1 Attributes

Attribute	Description	Multiplicity
internalAccount	The identification of an account for a local SO.	
internalAccountTso	The identification of the SO that has assigned the internal account.	[0..1]

3.1.3.2.4 QuantityCode_Composition

A coded identification of the composition of gas.

3.1.3.2.4.1 Attributes

Attribute	Description	Multiplicity
quantityCodeType		
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	
direction.gasDirectionCode	A code identifying the direction of a gas flow. The gas direction in this context is from the document issuer point of view. (Refer to Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).	

3.1.3.2.5 Period

The period that the dependent information is for.

3.1.3.2.5.1 Attributes

Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
quantity.amount	The amount of a quantity.	[0..1]

3.1.4 Request Response Document (REQRES)

3.1.4.1 Request Response Document Contextual Model

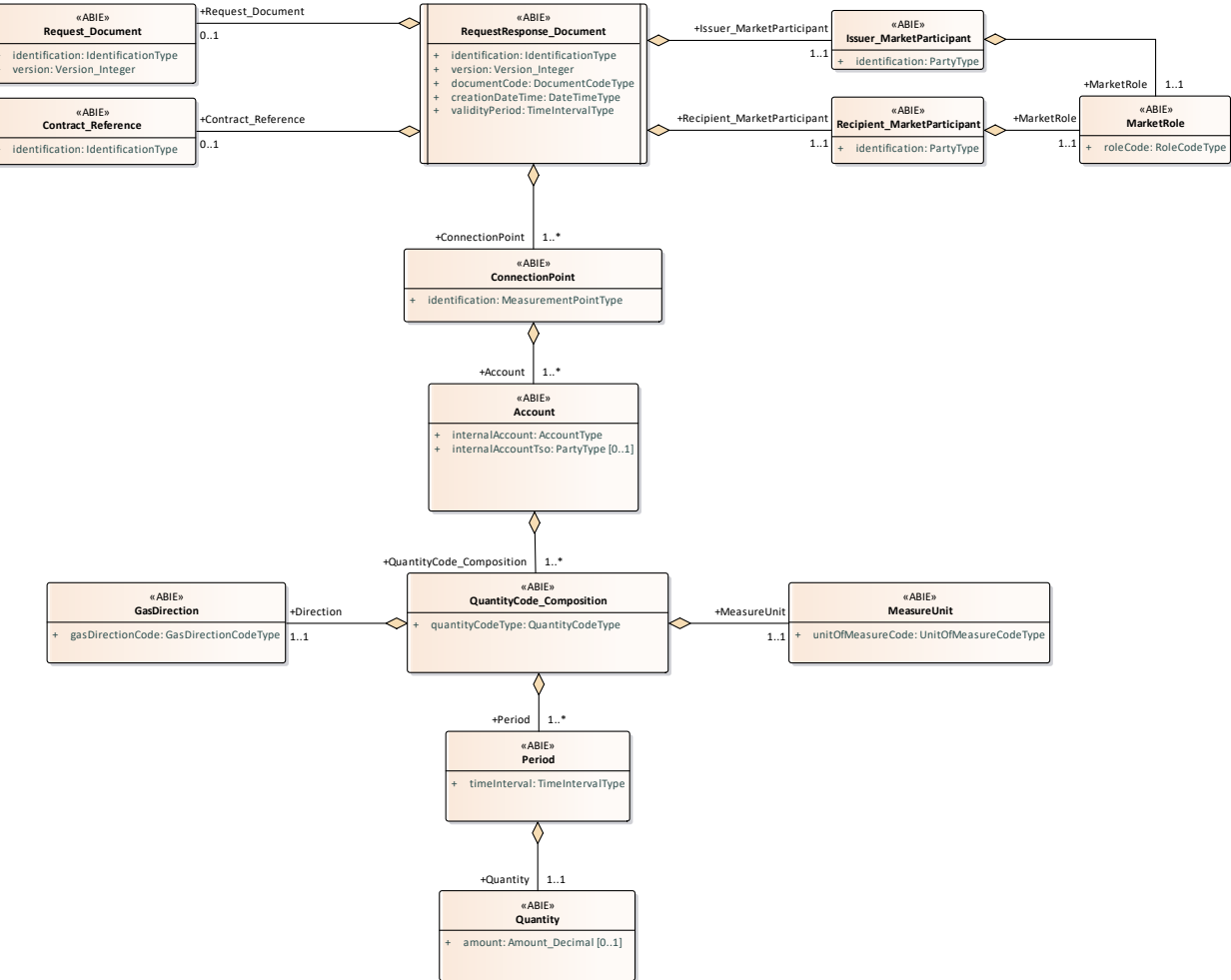


Figure: 10 Request Response Document Contextual Model

3.1.4.2 Request Response Document Assembly Model

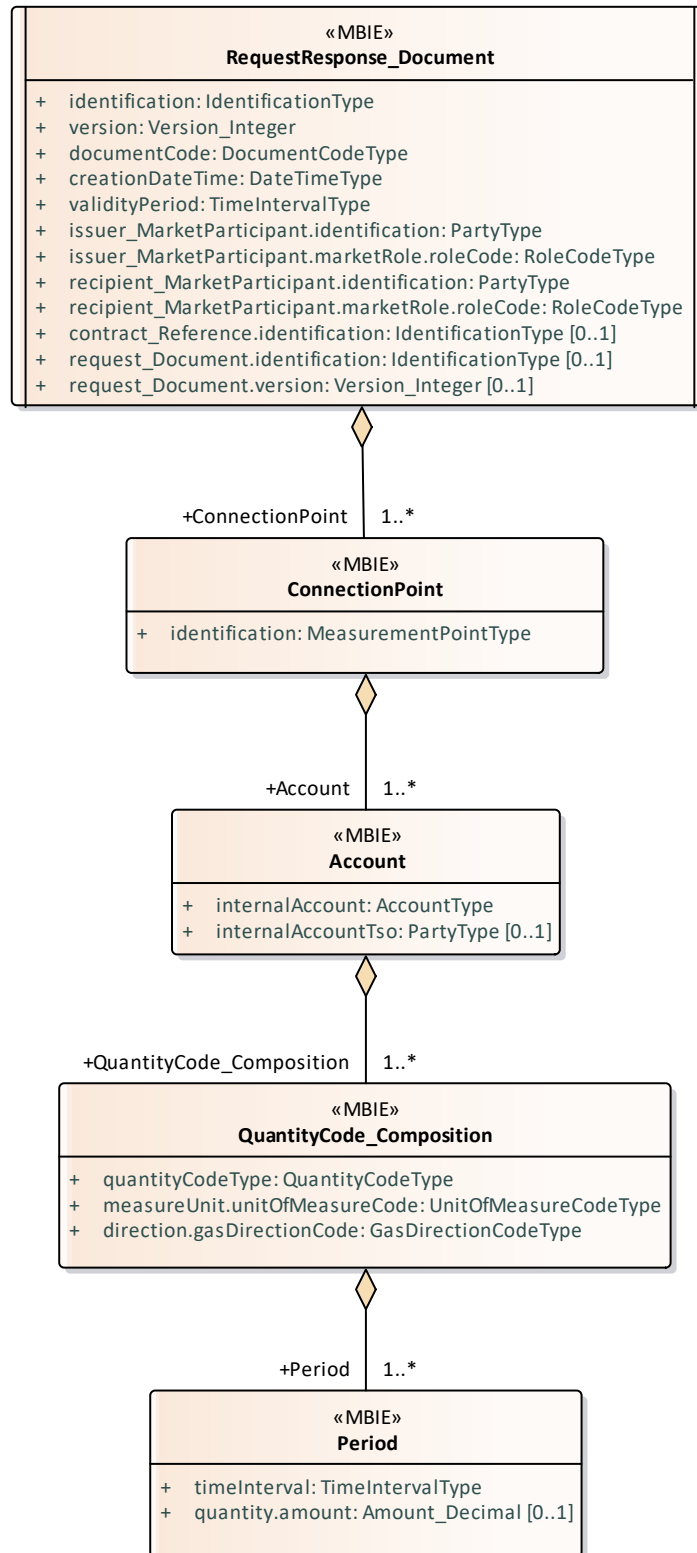


Figure: 11 **Request Response Document Assembly Model**

3.1.4.2.1 RequestResponse_Document

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

3.1.4.2.1.1 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. (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	
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.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
recipient_MarketParticipant.identification	The identification of the party participating in the market.	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).	
contract_Reference.identification	The coded identification of a reference.	[0..1]
request_Document.identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	[0..1]
request_Document.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]

3.1.4.2.2 ConnectionPoint

An interconnection point, whether it is physical or virtual, between two or more Member States as well as interconnections between adjacent entry-exit-systems within the same Member States.

3.1.4.2.2.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	

3.1.4.2.3 Account

An account used in a transaction.

3.1.4.2.3.1 Attributes

Attribute	Description	Multiplicity
internalAccount	The identification of an account for a local TSO.	
internalAccountTso	The identification of the TSO that has assigned the internal account.	[0..1]

3.1.4.2.4 QuantityCode_Composition

A coded identification of the composition of gas.

3.1.4.2.4.1 Attributes

Attribute	Description	Multiplicity
quantityCodeType		
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	
direction.gasDirectionCode	A code identifying the direction of a gas flow. (Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).	

3.1.4.2.5 Period

The period that the dependent information is for.

3.1.4.2.5.1 Attributes

Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
quantity.amount	The amount of a quantity.	[0..1]

4 Document Change Log

4.1 Version

4.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 2020-06-29	Initial release.	
Version 2 2022-01-12	Release 6.1 Corrected schema for REQRES, incorrect reference to Offers document and additional identification attribute for Account removed. Corrected request document reference in REQRES document, and attribute order. Corrected bullet points for flexible service requests. Corrected account attributes in REQUEST message, and changed REQRES message structure to match REQUEST.	
Version 3 2023-07-15	Updated schema for REQUEST message to make contractReference mandatory. Added statement in decision table that the message should contain all Connection Points connected to the same contract.	