

# Capacity Allocation - Reverse Auction

## Model Documentation



The European message format for the gas market

*Version 6.1*

*Document Version: 2*  
*Schema Version: 1*

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# 1 Model Detail

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## 64 2 Reverse Auction Request Document usage decision table

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

| Reverse Auction Request                                | Reverse Auction Request  |
|--|--|
| identification   | Mandatory.   |
| version  | Mandatory.   |
| documentCode   | ANU = Reverse auction request  |
| creationDateTime                                       | Mandatory.   |
| validityPeriod   | Mandatory.   |
| issuer_MarketParticipant.identification                | Mandatory; codingScheme = 305 (EIC Party X Code)   |
| issuer_MarketParticipant.marketRole.roleCode           | ZSO = System Operator  |
| recipient_MarketParticipant.identification             | Mandatory; codingScheme = 305 (EIC Party X Code)   |
| recipient_MarketParticipant.marketRole.roleCode        | ZUJ = Capacity Platform Responsible.   |
| contract_Reference.identification                      | Mandatory.   |
| contract_Reference.referenceCode                       | ZSF = Buy-back capacity  |
| auction_Period.timeInterval                            | Mandatory.   |
| reverseAuction_Transaction.transactionCode             | ZSW = Ascending clock auction<br>ZSX = Uniform price auction<br>ZSY = First come, first served |
| publication_DateTime.dateTime                          | Mandatory.   |
| ConnectionPoint.identification                         | Mandatory; codingScheme = 305 (EIC measurement Point Z or Y code.) or ZSO.                     |
| ConnectionPoint.bookablePointIdentification            | May be used. Only provided if required by local market rules; codingScheme = ZSO               |
| ConnectionPoint.availability.availabilityCode          | Z06 = Firm<br>Z05 = Interruptible  |
| ConnectionPoint.quantity_MeasureUnit.unitOfMeasureCode | KW1 = Kilowatt-hour per hour (kWh/h)<br>KW2 = Kilowatt-hour per day (kWh/d)                    |

| Reverse Auction Request                                   | Reverse Auction Request   |
|---|---|
| ConnectionPoint.price_MeasureUnit.unitOfMeasureCode       | Mandatory if an Ascending Clock Auction or a price cap is specified.<br>KW1 = Kilowatt-hour per hour (kWh/h)<br>KW2 = Kilowatt-hour per day (kWh/d) |
| ConnectionPoint.currency.currencyCode                     | Mandatory if an Ascending Clock Auction or a price cap is specified.<br>(Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).     |
| ConnectionPoint.currency.exchangeRate                     | May be used if the currency defined in the Currency.Code attribute is not Euro.   |
| ConnectionPoint.period.timeInterval                       | Mandatory.  |
| ConnectionPoint.period.quantity.amount                    | Mandatory.  |
| ConnectionPoint.period.ascendingClock_price.amount        | Mandatory in the case of an ascending clock auction.  |
| connectionPoint.period.tsoCap_Price.amount                | Mandatory if a System Operator has put price cap on bids in the reverse auction.  |
| CapacityResponsibleParty_MarketParticipant.identification | Used if specific Capacity Responsible Party's may participate in the reverse auction;<br>codingScheme = 305 (EIC Party X code)                      |

## 67 3 Reverse Auction Specification Document usage decision table

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

| Reverse Auction Specification Document                 | Reverse Auction Specification   |
|--|---|
| identification   | Mandatory.  |
| version  | Mandatory.  |
| documentCode   | AOE = Reverse Auction Specification.  |
| creationDateTime                                       | Mandatory.  |
| validityPeriod   | Mandatory.  |
| issuer_MarketParticipant.identification                | Mandatory; codingScheme = 305 (EIC Party X code).   |
| issuer_MarketParticipant.marketRole.roleCode           | ZUJ = Capacity Platform Responsible.  |
| recipient_MarketParticipant.identification             | Mandatory; codingScheme = 305 (EIC Party X code).   |
| recipient_MarketParticipant.marketRole.roleCode        | ZUV = Capacity Responsible Party.   |
| so_MarketParticipant.identification                    | Mandatory; codingScheme = 305 (EIC Party X code).   |
| auction_Period.timeInterval                            | Mandatory.  |
| reverseAuction_Transaction.transactionCode             | ZSW = Ascending clock auction<br>ZSX = Uniform price auction<br>ZSY = First come, first served.   |
| contract_Reference.identification                      | Mandatory. The System Operator identification relevant for the product to be auctioned.   |
| contract_Reference.referenceCode                       | ZSF = Buy-back capacity.  |
| connectionPoint.identification                         | The identification of a connection point within a System Operator's system; codingScheme = 305 (Measurement Point Z or Y code) or ZSO.                |
| connectionPoint.availability.availabilityCodeTtype     | Z06 = Firm<br>Z05 = Interruptible.  |
| connectionPoint.quantity_MeasureUnit.unitOfMeasureCode | KW1 = Kilowatt-hour per hour (kWh/h)<br>KW2 = Kilowatt-hour per day (kWh/d) .   |
| connectionPoint.price_MeasureUnit.unitOfMeasureCode    | Mandatory if an Ascending Clock Auction or a price cap is specified.<br>KW1 = Kilowatt-hour per hour (kWh/h)<br>KW2 = Kilowatt-hour per day (kWh/d) . |
| connectionPoint.currency.currencyCode                  | Mandatory if an Ascending Clock Auction or a price cap is specified.<br>(Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).       |

| Reverse Auction Specification Document | Reverse Auction Specification   |
|--|---|
| connectionPoint.currency.exchangeRate  | Mandatory if the currency defined in the Currency.Code attribute is not Euro. |
| period.timeInterval                    | Mandatory.  |
| period.direction.gasDirectionCode      | Mandatory.  |
| period.quantity.amount                 | Mandatory.  |
| period.price.amount                    | Mandatory in the case of an ascending clock auction.                          |

## 4 Capacity Allocation Reverse Auction

### 4.1 Business Process

#### 4.1.1 Reverse auction sequence

A reverse auction is an auction to provide capacity to a Transmission System Operator. Whenever the need arises the Transmission System Operator sends to the Capacity Platform Responsible a reverse auction request document containing the information necessary to organise a reverse auction. The Transmission System Operator may indicate the Capacity Responsible Party's that have capacity that could be used to satisfy the reverse auction.

The Capacity Platform Responsible notes the requirements and may transmit the information concerning a reverse auction either through a publication of the reverse auction on the website or through the transmission of a Reverse Auction Specification Document to all interested parties.

The bidding and results messages use the same structure and process as the Auction Bid Document and the Auction Results Document.

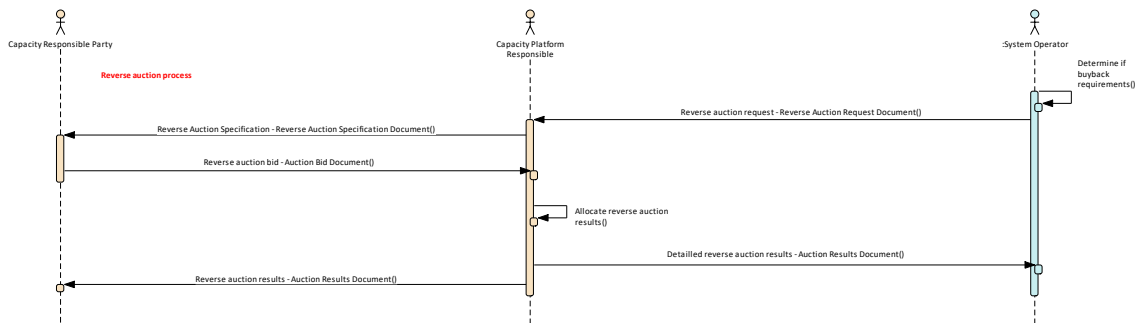


Figure: 1 Reverse auction sequence



## 4.2 Reverse Auction Request Document (REVAUC)

### 4.2.1 Reverse Auction Request Document Contextual Model

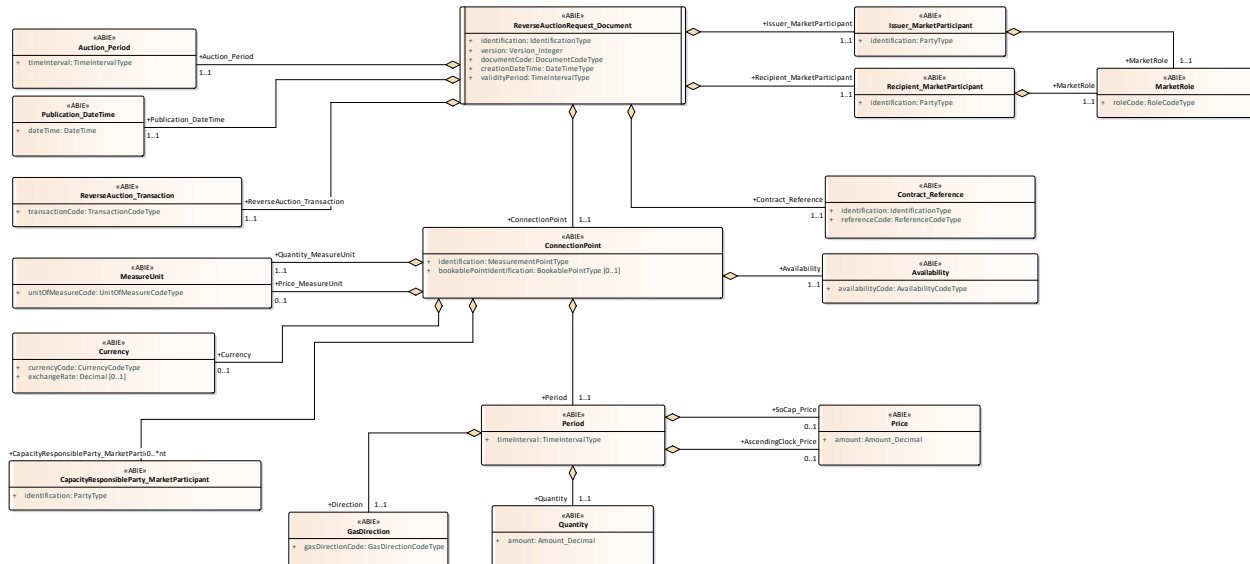


Figure: 2 Reverse Auction Request Document Contextual Model

## 4.2.2 Reverse Auction Request Assembly Model

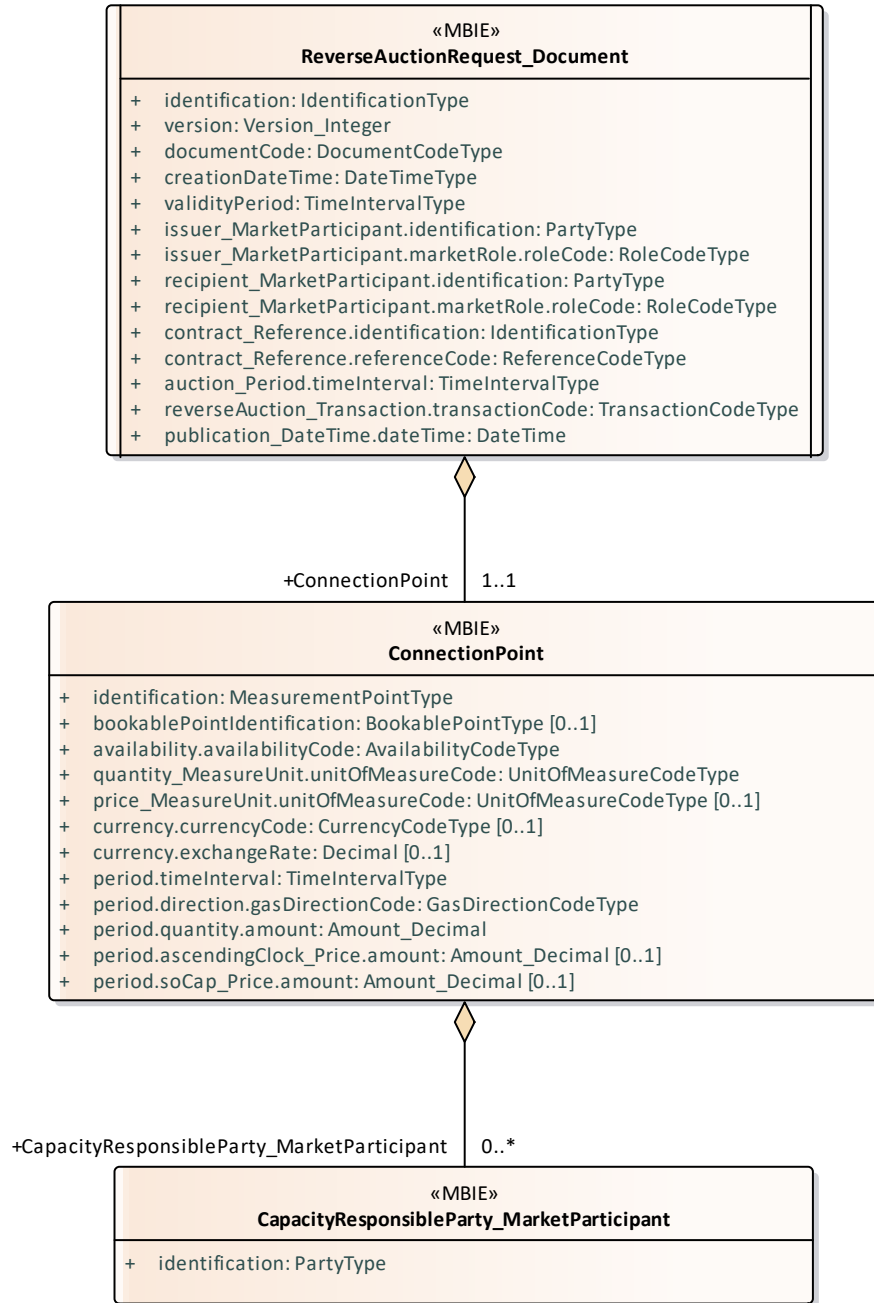


Figure: 3 **Reverse Auction Request Assembly Model**

#### 4.2.2.1 CapacityResponsibleParty\_MarketParticipant

A party participating in the market.

There may be zero to many Capacity Responsible Party's identified as possible participants in the reverse auction.

##### 4.2.2.1.1 Attributes

| Attribute      | Description  | Multiplicity |
|----------------|--|--------------|
| identification | The identification of the party participating in the market. |              |

#### 4.2.2.2 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.

--- There may only be one ConnectionPoint class in a Reverse Auction Request Document.

##### 4.2.2.2.1 Attributes

| Attribute                              | Description   | Multiplicity |
|--|---|--------------|
| identification                         | The identification of a connection point.   |              |
| bookablePointIdentification            | The identification of a given connection point, Transmission System Operator and direction.   | [0..1]       |
| availability.availabilityCode          | A code identifying the nature of the availability of a product (interruptible, firm, etc).<br>(Refer to Edig@s AvailabilityCodeTypeCodeList for the list of valid codes).<br>--- The availability type indicates if a quantity is firm or interruptible.  |              |
| quantity_MeasureUnit.unitOfMeasureCode | The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes.<br>(Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).<br>--- The unit of measurement used for all the quantities expressed within a time series for a connection point. |              |
| price_MeasureUnit.unitOfMeasureCode    | The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes.<br>(Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).<br>--- The unit of measure which is related to all the prices for a connection point.                             | [0..1]       |
| currency.currencyCode                  | The identification of the formal code for a currency (ISO 4217).<br>(Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).<br>--- This information defines the currency of a price within the auction.   | [0..1]       |
| currency.exchangeRate                  | The rate of exchange to convert the amount in a currency to Euro.<br>--- This information defines the currency of a price within the auction.   | [0..1]       |
| period.timeInterval                    | The start and end date and time for the period. The time is expressed in UTC.   |              |
| period.direction.gasDirectionCode      | A code identifying the direction of a gas flow.<br>(Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).  |              |
| period.quantity.amount                 | The amount of a quantity.<br><br>---<br>--- This information defines the quantity that is to be offered in the auction within the time interval period.   |              |

| Attribute                          | Description  | Multiplicity |
|------------------------------------|--|--------------|
| period.ascendingClock_Price.amount | The monetary amount of a price.  | [0..1]       |
| period.soCap_Price.amount          | The monetary amount of a price.  | [0..1]       |
|                                    | ---  |              |
|                                    | --- The price cap that a System Operator has put on bids in the reverse auction. |              |

#### 4.2.2.3 ReverseAuctionRequest\_Document

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

--- A Reverse Auction Request Document is used to inform the Capacity Responsible Party of the need for a System Operator to buy back capacity from the market in order to ensure correct system security and operation.

##### 4.2.2.3.1 Attributes

| Attribute                                       | Description   | Multiplicity |
|---|---|--------------|
| identification                                  | A unique identification of a document that is assigned by the issuer.<br>This identifies the document being reported.<br>--- Identification of the document describing the Reverse Auction Request Document.  |              |
| version   | Version of the document being sent.   |              |
| documentCode                                    | Coded representation of the type of the electronic document. (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).<br>This identifies the type of Reverse Auction Request Document that is being sent   |              |
| creationDateTime                                | Date and time of the creation of the current document expressed in UTC.   |              |
| validityPeriod                                  | The start and end date and time expressed in UTC of the period of validity covered in the document.   |              |
| issuer_MarketParticipant.identification         | The identification of the party participating in the market.<br>--- Identification of the party who has issued the document.  |              |
| issuer_MarketParticipant.marketRole.roleCode    | A code identifying the role played by a market participant in the market.<br>(Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).<br><br>--- Identification of the party who has issued the document.<br>--- Identification of the role that the party who has issued the document is playing. |              |
| recipient_MarketParticipant.identification      | The identification of the party participating in the market.<br>--- Identification of the party who is receiving the document.  |              |
| recipient_MarketParticipant.marketRole.roleCode | A code identifying the role played by a market participant in the market.<br>(Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).<br><br>--- Identification of the party who is receiving the document.<br>--- Identification of the role that the party who receives the document is playing. |              |
| contract_Reference.identification               | The coded identification of a reference.<br>--- The contract reference provides the System Operator identification relevant for the product to be auctioned.  |              |
| contract_Reference.referenceCode                | Identification of a type of reference.<br>(Refer to Edig@s ReferenceCodeTypeCodeList for the list of valid codes).  |              |

| Attribute                                  | Description  | Multiplicity |
|--|--|--------------|
|  | --- The contract reference provides the System Operator identification relevant for the product to be auctioned.   |              |
| auction_Period.timeInterval                | The start and end date and time for the period. The time is expressed in UTC.<br>--- This information provides the start and end date and time of the reverse auction.   |              |
| reverseAuction_Transaction.transactionCode | A code identifying a specific type of transaction.<br>(Refer to Edig@s TransactionCodeTypeCodeList for the list of valid codes).<br>--- This information provides the type of auction mechanism that is to take place.   |              |
| publication_DateTime.dateTime              | The date and time of an event expressed as "YYYY-MM-DDThh:mm:ss.sssZ", which conforms with the ISO 8601 UTC time zone<br><b>Note:</b> The time within Edig@s is always expressed in UTC.<br>--- The date and time that the reverse auction information is to be published. |              |

## 4.3 Reverse Auction Specification Document (REVSPC)

### 4.3.1 Reverse Auction Specification Document Contextual Model

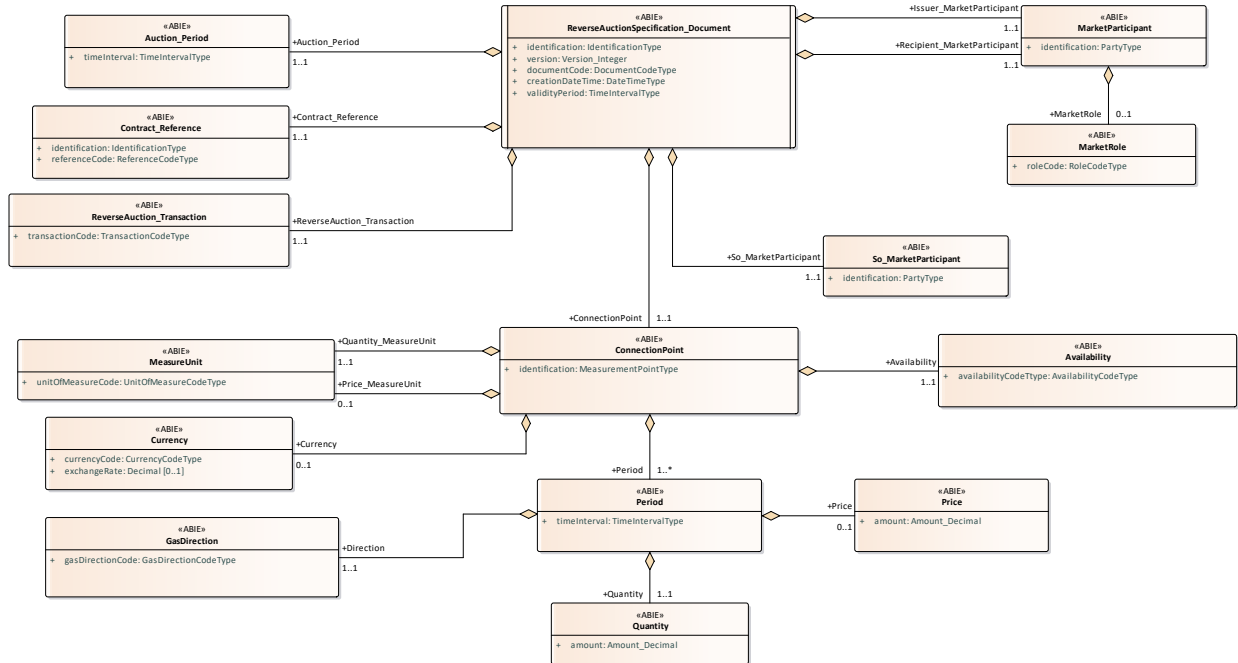


Figure: 4 Reverse Auction Specification Document Contextual Model

### 4.3.2 Reverse Auction Specification Assembly Model

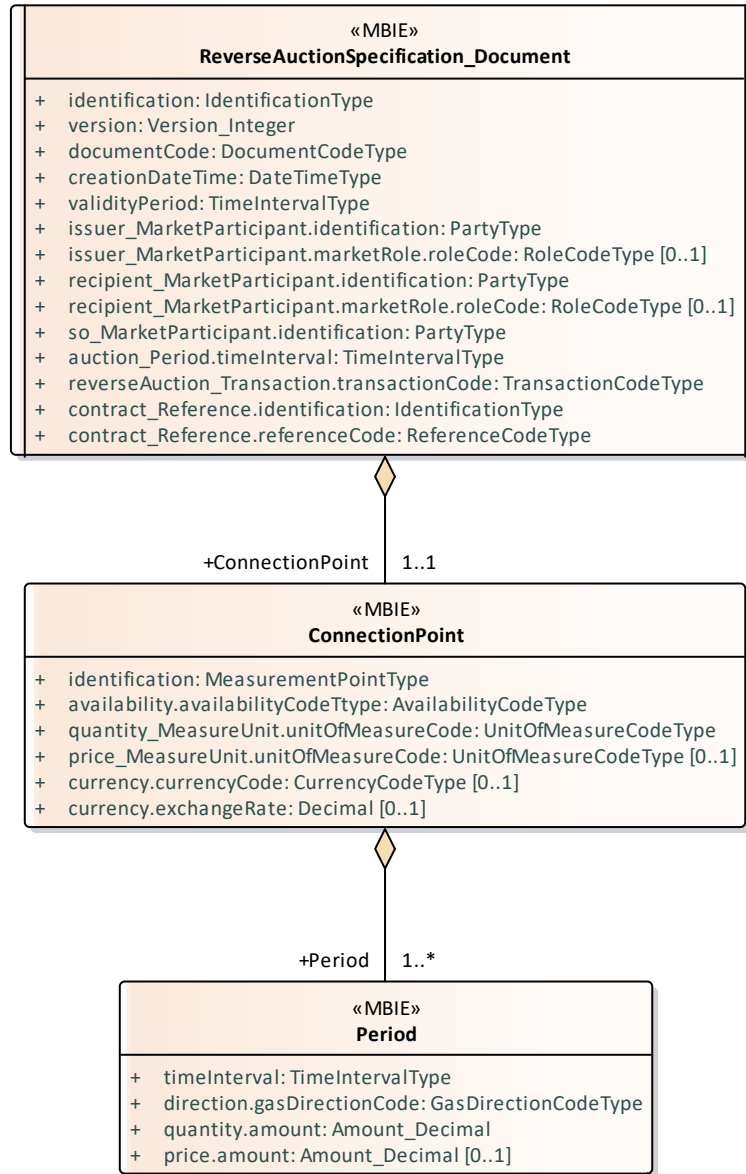


Figure: 5 **Reverse Auction Specification Assembly Model**

### 4.3.2.1 ReverseAuctionSpecification\_Document

Basic information needed to describe most electronic documents.

#### 4.3.2.1.1 Attributes

| Attribute                                       | Description  | Multiplicity |
|---|--|--------------|
| identification                                  | A unique identification of a document that is assigned by the issuer.  |              |
| version   | Version of the document being sent.  |              |
| documentCode                                    | Coded representation of the type of the electronic document. (Refer to the 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 expressed in UTC of the period of validity covered in the document.  |              |
| issuer_MarketParticipant.identification         | The identification of the party participating in the market.<br>--- The issuer of the auction specification.   |              |
| issuer_MarketParticipant.marketRole.roleCode    | A code identifying the role played by a market participant in the market.<br>(Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes).<br>--- The issuer of the auction specification.                                       | [0..1]       |
| recipient_MarketParticipant.identification      | The identification of the party participating in the market.<br>--- The recipient of the auction specification   |              |
| recipient_MarketParticipant.marketRole.roleCode | A code identifying the role played by a market participant in the market.<br>(Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes).<br>--- The recipient of the auction specification                                     | [0..1]       |
| so_MarketParticipant.identification             | The identification of the party participating in the market.<br>--- The identification of the SO responsible for the reverse auction.  |              |
| auction_Period.timeInterval                     | The start and end date and time for the period. The time is expressed in UTC.<br>--- The period where the reverse auction is to take place.  |              |
| reverseAuction_Transaction.transactionCode      | A code identifying a specific type of transaction.<br>(Refer to the Edig@s TransactionCodeTypeCodeList for the list of valid codes).<br>--- This information provides the type of auction mechanism that is to take place                  |              |
| contract_Reference.identification               | The coded identification of a reference.<br>--- The contract reference provides the System Operator identification relevant for the product to be auctioned.   |              |
| contract_Reference.referenceCode                | Identification of a type of reference.<br>(Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).<br>--- The contract reference provides the System Operator identification relevant for the product to be auctioned. |              |



### 4.3.2.2 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.

There may only be one connection point for a reverse auction.

#### 4.3.2.2.1 Attributes

| Attribute                              | Description  | Multiplicity |
|--|--|--------------|
| identification                         | The identification of a connection point.  |              |
| availability.availabilityCodeTtype     | A code identifying the nature of the availability of a product (interruptible, firm, etc).<br>(Refer to Edig@s AvailabilityCodeTypeCodeList for the list of valid codes).<br><br>--- The availability type indicates if a quantity is firm or interruptible. |              |
| quantity_MeasureUnit.unitOfMeasureCode | The coded representation of a unit of measure using the set of UN/CEFACT Recommendation 20 common codes.<br>(Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).   |              |
| price_MeasureUnit.unitOfMeasureCode    | The coded representation of a unit of measure using the set of UN/CEFACT Recommendation 20 common codes.<br>(Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).   | [0..1]       |
| currency.currencyCode                  | The identification of the formal code for a currency (ISO 4217).<br>(Refer to the Edig@s CurrencyCodeTypeCodeList for the list of valid codes).  | [0..1]       |
| currency.exchangeRate                  | The rate of exchange to convert the amount in a currency to Euro.  | [0..1]       |

### 4.3.2.3 Period

The period that the dependent information is for.

#### 4.3.2.3.1 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.<br>(Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes). |              |
| quantity.amount            | The amount of a quantity.  |              |
| price.amount               | The monetary amount of a price.  | [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 2021-04-28 | Release 6.1<br>Corrected order of attributes in REVSPC document, and updated decision table with correct spelling for marketParticipants. |              |