

Capacity Allocation - Reverse Auction

Model Documentation



Version 6.0

Document Version: 1

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1 Model Detail

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66 2 Reverse Auction Request Document usage decision table

67 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 ZSX = Uniform price auction 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 Z05 = Interruptible
ConnectionPoint.quantity_MeasureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h) 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. KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d)
ConnectionPoint.currency.currencyCode	Mandatory if an Ascending Clock Auction or a price cap is specified. (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; codingScheme = 305 (EIC Party X code)

69 3 Reverse Auction Specification Document usage decision table

70 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.
tso_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).
auction_Period.timeInterval	Mandatory.
reverseAuction_Transaction.transactionCode	ZSW = Ascending clock auction ZSX = Uniform price auction 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 Z05 = Interruptible.
connectionPoint.quantity_MeasureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) .
connectionPoint.price_MeasureUnit.unitOfMeasureCode	Mandatory if an Ascending Clock Auction or a price cap is specified. KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) .
connectionPoint.currency.currencyCode	Mandatory if an Ascending Clock Auction or a price cap is specified. (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.

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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.

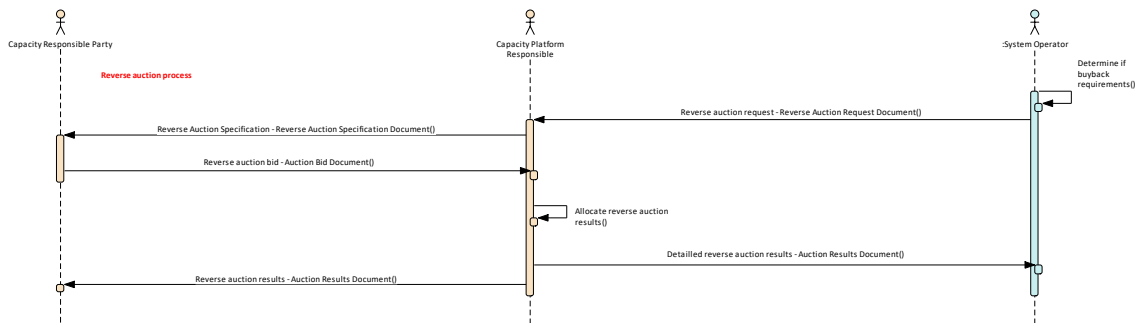


Figure: 1 Reverse auction sequence

4.2 Reverse Auction Request Document (REVAUC)

4.2.1 Reverse Auction Request Document Contextual Model

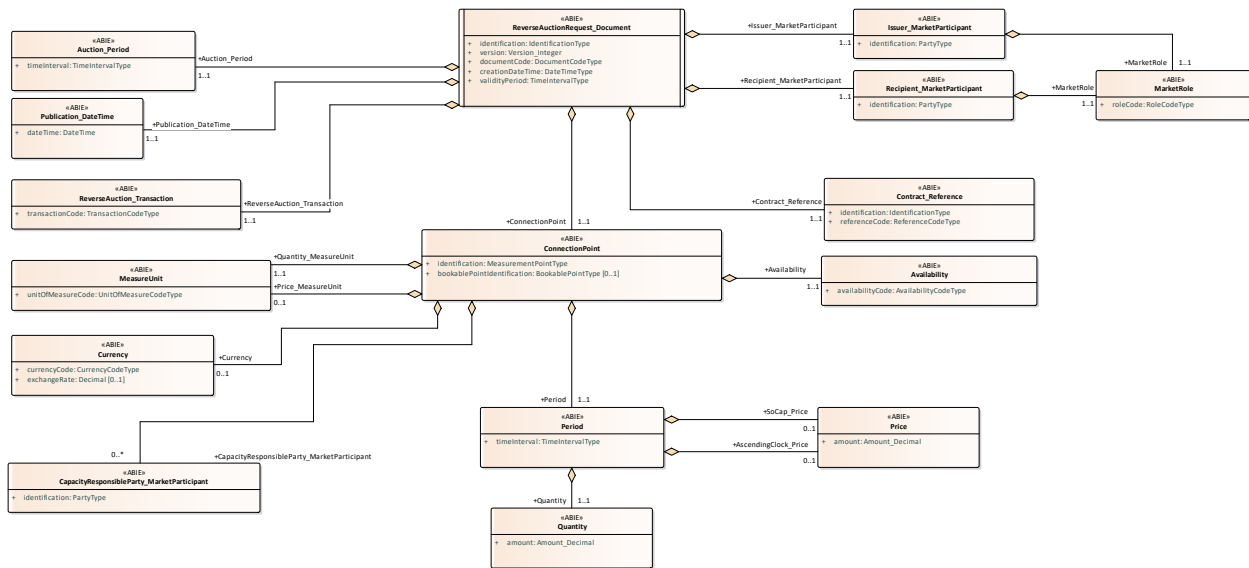


Figure: 2 Reverse Auction Request Document Contextual Model

4.2.2 Reverse Auction Request Assembly Model



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

4.2.2.1 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.

4.2.2.1.1 Attributes

Attribute	Description	Multiplicity
identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported. --- 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). 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. --- 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. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes). --- Identification of the party who has issued the document. --- 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. --- 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. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes). --- Identification of the party who is receiving the document. --- Identification of the role that the party who receives the document is playing.	
contract_Reference.identification	The coded identification of a reference. --- The contract reference provides the System Operator identification relevant for the product to be auctioned.	
contract_Reference.referenceCode	Identification of a type of reference. (Refer to Edig@s ReferenceCodeTypeCodeList for the list of valid codes). --- 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. --- This information provides the start and end date and time of the reverse auction.	

Attribute	Description	Multiplicity
reverseAuction_Transaction.transactionCode	A code identifying a specific type of transaction. (Refer to Edig@s TransactionCodeTypeCodeList for the list of valid codes). --- 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:ssZ", which conforms with the ISO 8601 UTC time zone Note: The time within Edig@s is always expressed in UTC. --- The date and time that the reverse auction information is to be published.	

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). (Refer to Edig@s AvailabilityCodeTypeCodeList for the list of valid codes). --- 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. (Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes). --- 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. (Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes). --- 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). (Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes). --- 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. --- 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.quantity.amount	The amount of a quantity. ---	

Attribute	Description	Multiplicity
	--- This information defines the quantity that is to be offered in the auction within the time interval period.	
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 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.

4.2.2.3.1 Attributes

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

4.3 Reverse Auction Specification Document (REVSPC)

4.3.1 Reverse Auction Specification Document Contextual Model

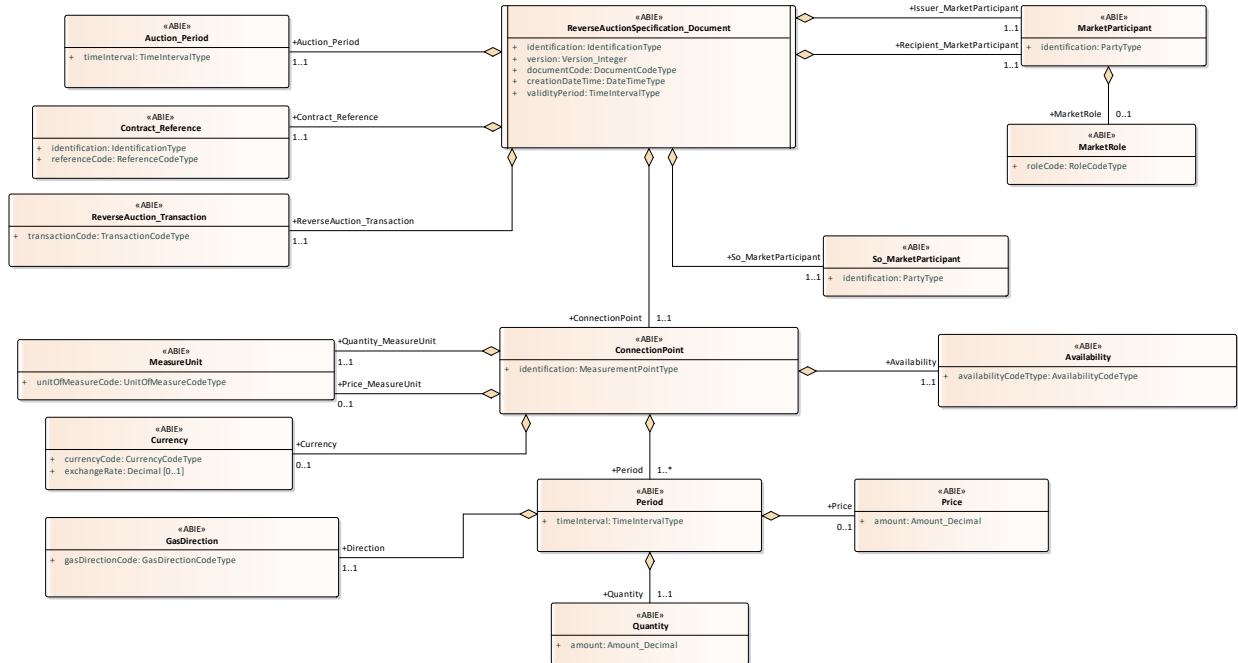


Figure: 4 Reverse Auction Specification Document Contextual Model

4.3.2 Reverse Auction Specification Assembly Model

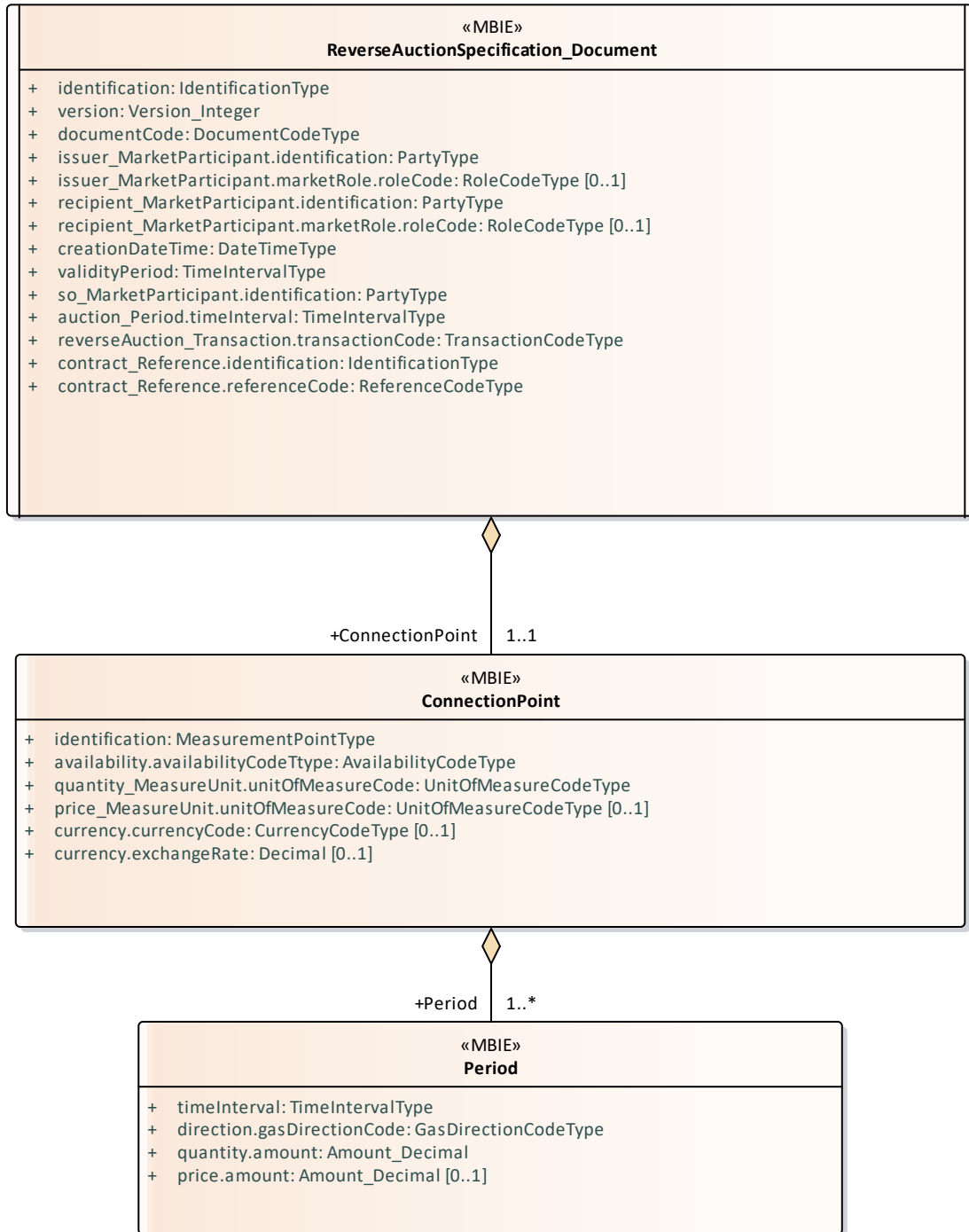


Figure: 5 **Reverse Auction Specification Assembly Model**

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).	
issuer_MarketParticipant.identification	The identification of the party participating in the market. --- The issuer of the auction specification.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes). --- The issuer of the auction specification.	[0..1]
recipient_MarketParticipant.identification	The identification of the party participating in the market. --- The recipient of the auction specification	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes). --- The recipient of the auction specification	[0..1]
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.	
so_MarketParticipant.identification	The identification of the party participating in the market. --- 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. --- The period where the reverse auction is to take place.	
reverseAuction_Transaction.transactionCode	A code identifying a specific type of transaction. (Refer to the Edig@s TransactionCodeTypeCodeList for the list of valid codes). --- This information provides the type of auction mechanism that is to take place	
contract_Reference.identification	The coded identification of a reference. --- The contract reference provides the System Operator identification relevant for the product to be auctioned.	
contract_Reference.referenceCode	Identification of a type of reference. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes). --- 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). (Refer to Edig@s AvailabilityCodeTypeCodeList for the list of valid codes). --- 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. (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. (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). (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. (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	