1   **Capacity Allocation Initialisation - Market Offered Capacity Document**

2   **Model Documentation**

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The European message format for the gas market

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8   *Version 6.1*
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19   *Document Version: 2*
20   *Schema Version: 1*
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1 Model Detail

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63 **2 Document usage decision table**

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

Market Offered Capacity Document	Offered Capacity for Auction
identification	Mandatory.
version	Mandatory
documentCode	AMX = Offered capacity for auction
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 ZSO = System Operator.
status.statusCode	62G = Active 63G= Cancelled 68G = Published.
ProductIdentification_Reference.identification	Mandatory.
ProductIdentification_Reference.referenceCode	ZSD = Contract reference of an Auction Office product.
ProductIdentification_Reference.complementaryText	May be used to provide clarifying information.
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.
ConnectionPoint.Product_SpanPeriod.spanPeriodCode	ZEJ = Yearly ZEK = Quarterly ZEL = Monthly ZEM = Daily ZEN = Within day.

Market Offered Capacity Document	Offered Capacity for Auction
ConnectionPoint.quantity_MeasureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) .
ConnectionPoint.price_MeasureUnit.unitOfMeasurecode	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d)
ConnectionPoint.currency.currencyCode	(Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).
ConnectionPoint.currency.exchangeRate	May be used if the currency is not equal to EUR.
ConnectionPoint.auction_Sequence.position	Mandatory if an ascending clock auction.
ConnectionPoint.biddingRound_Sequence.position	In an ascending clock auction this is a sequential value starting from 1 that is assigned by the Capacity Platform Responsible. In the case of a uniform price auction this shall always be 1.
ConnectionPoint.biddingRound_Sequence.price.amount	May be used.
ConnectionPoint.to_MarketArea.identification; CodingScheme = 05 (EIC Area Y code).	Required if the market area needs to be provided in order to identify the direction in the case where the To and from SO is the same. codingScheme = 305 (RIC area Y code)
ConnectionPoint.from_MarketArea.identification; CodingScheme = 05 (EIC Area Y code).	Required if the market area needs to be provided in order to identify the direction in the case where the To and from SO is the same. codingScheme = 305 (RIC area Y code)
ConnectionPoint.reserve_Price.amount	Mandatory.
ConnectionPoint.largeStep_Price.amount	This price may only be used in the case of ascending clock auctions.
ConnectionPoint.smallStep_price.amount	This price may only be used in the case of ascending clock auctions.
ConnectionPoint.period.timeInterval	Mandatory.

Market Offered Capacity Document	Offered Capacity for Auction
ConnectionPoint.auction_Quantity.amount	Mandatory.
ConnectionPoint.auction_Quantity.bundled_Indication.indicatorCode	01G = Bundled (yes) 02G = unbundled (no)
ConnectionPoint.period.PreviousRoundDemand_Quantity.amount	The information is only provided in the case where a new ascending clock auction round has occurred
ConnectionPoint.period. PreviousRoundDemand _Quantity.quantityCode	This information is only used if the bundled quantity is indivisible, and in the case where a new ascending clock auction round has occurred. ZXO = Bundled quantity indivisible
ConnectionPoint.previousRoundDemand_Quantity.bundled_Indication.indicatorCode	The information is only provided in the case where a new ascending clock auction round has occurred 01G = Bundled (yes) 02G = Unbundled (no)
ToSo_MarketParticipant.identification	May be used to identify the System Operator offering entry capacity or in the case of a bundled capacity auction; codingScheme = 305 (EIC Party X code).
ToSo_MarketParticipant.reserve_Price.amount	Mandatory if ToSo_MarketParticipant present.
ToSo_MarketParticipant.price_MeasureUnit.unitOfMeasureCode	Mandatory if ToSo_MarketParticipant present. KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) .
ToSo_MarketParticipant.currency.currencyCode	Mandatory.
ToSo_MarketParticipant.currency.exchangeRate	May be used if currency not equal to Euro.
ToSo_MarketParticipant.availability.availabilityCode	Mandatory if ToSo_MarketParticipant present. Z06 = Firm Z05 = Interruptible.
FromSo_MarketParticipant.identification	Required to identify the System Operator offering entry capacity or in the case of a bundled capacity auction; codingScheme = 305 (EIC Party X code).
FromSo_MarketParticipant.reserve_Price.amount	Mandatory if FromSo_MarketParticipant present.

Market Offered Capacity Document	Offered Capacity for Auction
FromSo_MarketParticipant.price_MeasureUnit.unitOfMeasureCode	Mandatory if FromSo_MarketParticipant present. KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) .
FromSo_MarketParticipant.currency.currencyCode	Mandatory
FromSo_MarketParticipant.currency.exchangeRate	Mandatory if currency not equal to Euro.
FromSo_MarketParticipant.availability.availabilityCode	Mandatory if From_So_MarketParticipant present. Z06 = Firm Z05 = Interruptible.
Cost_Price.amount	May be used if SO cost price fees declared.
Cost_Price.priceCode	Z01 = Measurement fee Z02 = Accounting fee Z03 = Biogas fee Z04 = Operating fee.
CompetingProduct_Sequence.positionType	This class is only used in the case where the System Operator wishes to indicate whether or not the product in question is to be considered to be competing with other product(s) from the same System Operator Otherwise Not used
CompetingProduct_Sequence.totalProduct_Quantity.amount	This class is only used in the case where the System Operator wishes to indicate whether or not the product in question is to be considered to be competing with other product(s) from the same System Operator Otherwise Not used.
ProductReference.identification	If used then must correspond to an identification in ProductIdentificationReference class; Otherwise not used

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3 Market Offered Capacity

The content of the electronic documents defined in the implementation guide are based on the definition of terms and codes as agreed by the Edig@s Workgroup and ENTSOG.

The requirements outlined in the "Business Requirements Specification for the Capacity Allocation Mechanism (CAM) Network Code and the Congestion Management Procedures (CMP) guidelines" of ENTSOG in respect to the transmission to the market of offered capacity by the Capacity Platform Responsible are covered in this document.

For the definition of the roles outlined in the figures please refer to the EASEE-Gas Harmonised Role Model.

It is strongly recommended to read the General Guidelines to the Edig@s MIG before implementing this process since it contains a number of general rules that are applicable for all the Edig@s messages.

3.1 Capacity Allocation Initialisation Business Process

The essential part of the documentation may be found in the ENTSOG CAM/CMP Business Requirements Specification. This part of the documentation details the electronic documents and their associated business rules.

3.1.1 Capacity allocation initialisation sequence

The document being referenced in the guide is shown with a red message flow.
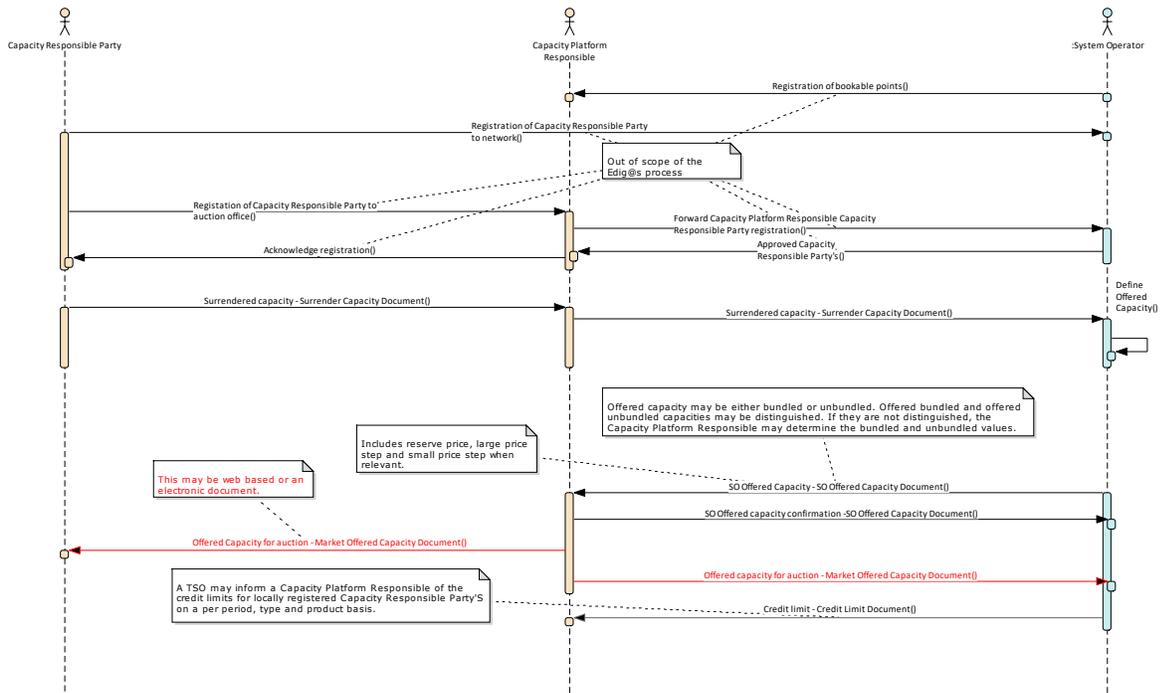
Figure: 1 **Capacity allocation initialisation sequence**

84 ## 3.2 Market offered capacity document (MAOCAP)

85 ### 3.2.1 Market offered capacity document contextual model

86 A Market Offered Capacity Document is used to provide to the market an auction specification.

87
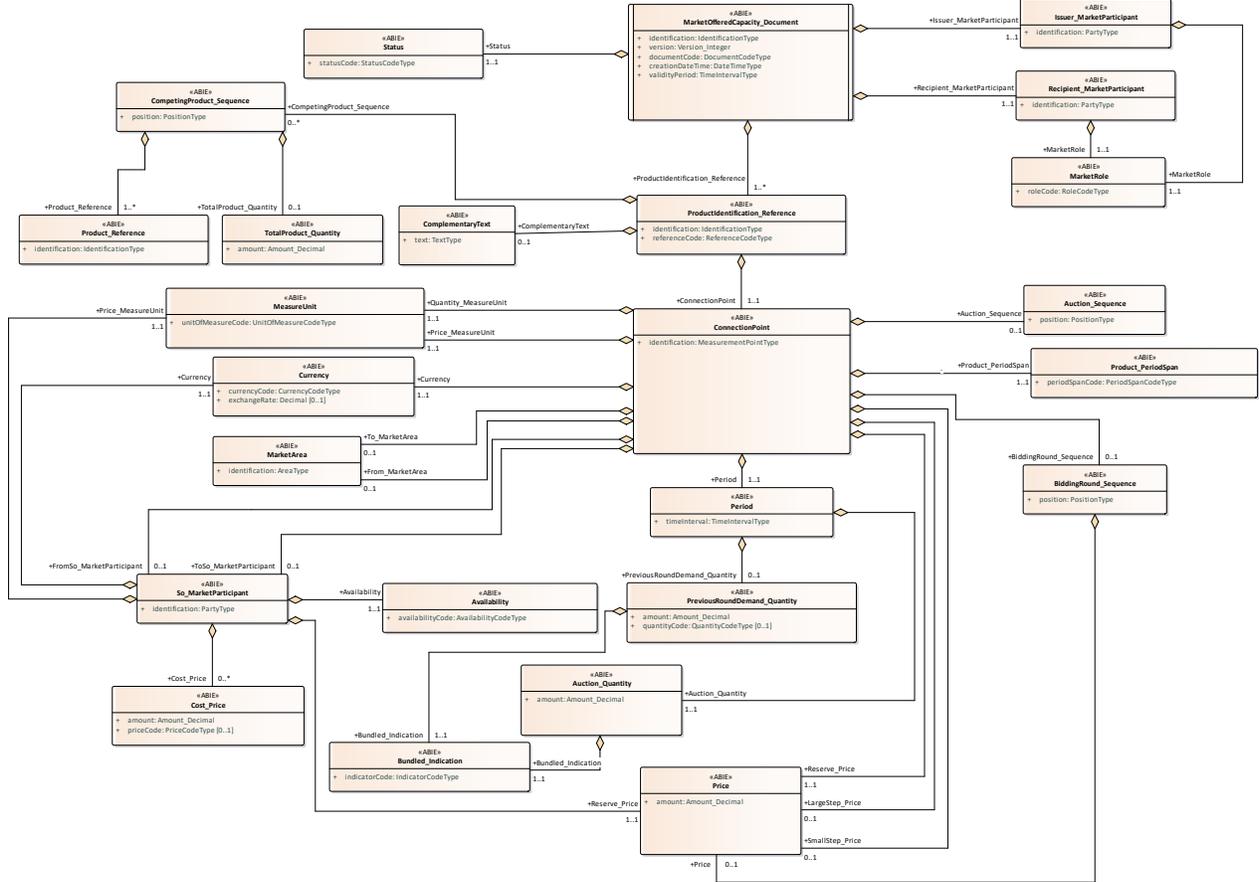
88
89 Figure: 2 **Market offered capacity document contextual model**
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91   ## 3.2.2 Market offered capacity document assembly model

92
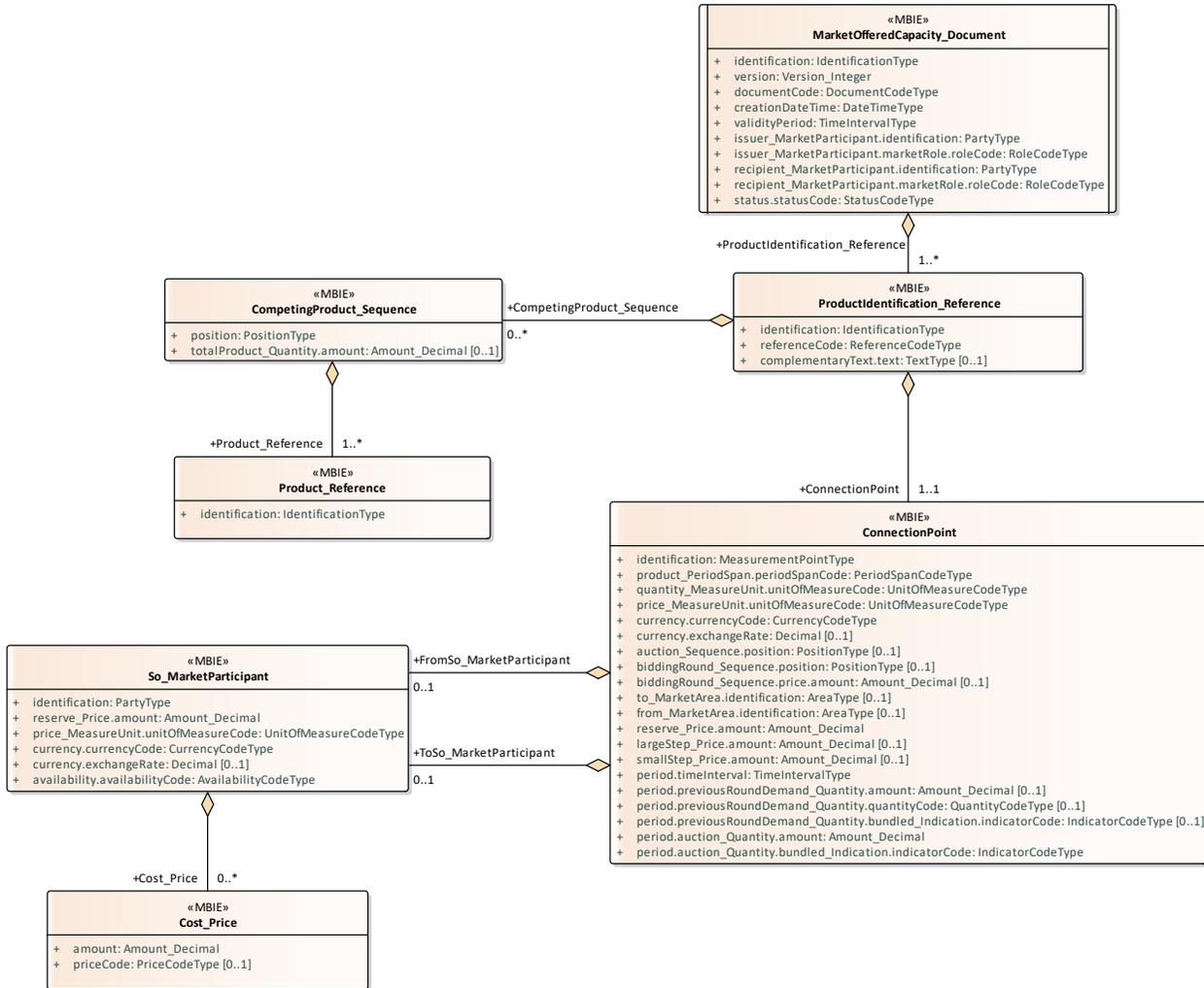
93
94   Figure: 3 **Market offered capacity document assembly model**
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96 ## 3.2.2.1 MarketOfferedCapacity_Document

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

98 In the case of the Market Offered Capacity Document it is used to provide to the market an auction specification.

99 ### 3.2.2.1.1 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). This identifies the type of Market Offered Capacity 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. This information provides the start and end date and time of the period of validity of the auction 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. (Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes). --- The Issuer of the document. --- The role being played by the Issuer of the document for this transmission.	
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. (Refer to the Edig@s RoleCodeTypeCodeList for the list of valid codes). --- The Recipient of the document. --- The role being played by the Recipient of the document for this transmission.	
status.statusCode	A code providing the status of an object. (Refer to the Edig@s StatusCodeTypeCodeList for the list of valid codes).	

100 ## 3.2.2.2 ProductIdentification_Reference

101 The identification of a product reference.

102 ### 3.2.2.2.1 Attributes

Attribute	Description	Multiplicity
identification	The coded identification of a reference. The contract reference provides the identification relevant for the product to be auctioned.	
referenceCode	The contract type identifies the nature of the contract defined in the document. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).	

Attribute	Description	Multiplicity
complementaryText.text	Additional text may be provided by the System Operator or the Capacity Platform Responsible to provide additional non processable information.	[0..1]

103   3.2.2.3 ConnectionPoint

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

106   **3.2.2.3.1 Attributes**

Attribute	Description	Multiplicity
identification	The identification of a connection point.	
product_PeriodSpan.periodSpanCode	The period that spans the auction. (Refer to the Edig@s PeriodSpanCodeTypeCodeList for the list of valid codes). --- The identification of the span given for a product being auctioned.	
quantity_MeasureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to the 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 the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes). --- The unit of measurement used for all the prices expressed within a time series for a connection point.	
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). This information defines the currency of a monetary amount within the auction. --- This information defines the currency of a price within the auction.	
currency.exchangeRate	The rate of exchange to convert the amount in a currency to Euros. --- This information defines the currency of a price within the auction.	[0..1]
auction_Sequence.position	The identification of a given sequence value. --- The identification of the specific order for the capacity rights that will be auctioned. In an ascending clock auction this is a sequential value starting from 1 that is assigned by the Capacity Platform Responsible. In the case of a uniform price auction this shall always be 1.	[0..1]
biddingRound_Sequence.position	The identification of a given sequence value. --- The identification of the specific bidding round where capacity rights will be auctioned. In an ascending clock auction this is a sequential value starting from 1 that is assigned by the Capacity Platform Responsible. In the case of a uniform price auction this shall always be 1.	[0..1]

Attribute	Description	Multiplicity
biddingRound_Sequence.price.amount	The monetary amount of a price. --- The identification of the specific bidding round where capacity rights will be auctioned. In an ascending clock auction this is a sequential value starting from 1 that is assigned by the Capacity Platform Responsible. In the case of a uniform price auction this shall always be 1. --- The price requested in the bidding round where an ascending clock auction is taking place.	[0..1]
to_MarketArea.identification	Identification of an area delimiting a market. --- The identification of a market area to where the gas is going.	[0..1]
from_MarketArea.identification	Identification of an area delimiting a market. --- The identification of a market area from where gas is coming.	[0..1]
reserve_Price.amount	The monetary amount of a price. --- The price that is the minimum eligible floor price in the auction, being equal to the regulated tariff.	
largeStep_Price.amount	The monetary amount of a price. --- The price that represents a price step that is defined per interconnection point and standard capacity product and may be a fixed or variable amount.	[0..1]
smallStep_Price.amount	The monetary amount of a price. --- The amount that represents a price step that is defined per interconnection point and standard capacity product which may be a fixed or variable amount and is smaller than the large price step. The small price step shall be set such that an increase by an integer number of small price steps is equal to an increase by a large price step.	[0..1]
period.timeInterval	The start and end date and time for the period. The time is expressed in UTC. ---	
period.previousRoundDemand_Quantity.amount	The amount of a quantity. ---	[0..1]
period.previousRoundDemand_Quantity.quantityCode	A code defining the type of a quantity. (Refer to the Edig@s QuantityCodeTypeCodeList for the list of valid codes). ---	[0..1]
period.previousRoundDemand_Quantity.bundled_Indication.indicatorCode	A boolean indicator of the type "yes" or "no". (Refer to the Edig@s IndicatorCodeTypeCodeList for the list of valid codes). ---	[0..1]
period.auction_Quantity.amount	The amount of a quantity. This information defines the quantity to be auctioned for the connection point within the time interval period. ---	

Attribute	Description	Multiplicity
period.auction_Quantity.bundled_Indication.indicatorCode	A boolean indicator of the type "yes" or "no". (Refer to the Edig@s IndicatorCodeTypeCodeList for the list of valid codes). ---	

107 3.2.2.4 CompetingProduct_Sequence

108 A class identifying a sequence.
109 There may be zero to many CompetingProduct_Sequence classes in a document. This class is only used in the case
110 where the System Operator wishes to indicate whether or not the product in question is to be considered to be
111 competing with other product(s) from the same System Operator.

112 3.2.2.4.1 Attributes

Attribute	Description	Multiplicity
position	A position in a sequence. The identification of a specific set of competing product information to be considered as competing in an auction. This is a sequential value starting from 1 that is assigned by the Issuer of the document.	
totalProduct_Quantity.amount	The amount of a quantity. --- This information defines the total quantity that is possible for a given competing product.	[0..1]

113 3.2.2.5 Product_Reference

114 The identification of a reference.
115 There are one to many product references that may be competing.

116 3.2.2.5.1 Attributes

Attribute	Description	Multiplicity
identification	The coded identification of a reference.	

117 3.2.2.6 So_MarketParticipant

118 A party participating in the market.
119 There may be a single "To" So_MarketParticipant and/or a single "From" So_MarketParticipant class. The class exists
120 for a System Operator who has entry or exit capacity, and both are mandatory in the case of a bundled capacity auction.
121 The System Operator is identified by a unique coded identification.
122 The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate
123 the code "305" for an EIC party code.

124 3.2.2.6.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of the party participating in the market.	
reserve_Price.amount	The monetary amount of a price. --- The price that is the minimum eligible floor price for the System Operator, being equal to his regulated tariff.	
price_MeasureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes). --- The unit of measurement used for the System Operator price.	
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).	

Attribute	Description	Multiplicity
	This information defines the currency of a monetary amount within the auction. --- This information defines the currency of a System Operator price.	
currency.exchangeRate	The rate of exchange to convert the amount in a currency to Euros. --- This information defines the currency of a System Operator price.	[0..1]
availability.availabilityCode	A code identifying the nature of the availability of a product (interruptible, firm). (Refer to the Edig@s AvailabilityCodeTypeCodeList for the list of valid codes).	

125 ### 3.2.2.7 Cost_Price

126 The price of an object.
127 There may be zero to many cost prices. If Cost_Price classes are present for a given connection point they provide
128 additional cost information that has to be added to the auction clearing price.

129 #### 3.2.2.7.1 Attributes

Attribute	Description	Multiplicity
amount	The monetary amount of a price. The identification of the amount of the additional cost.	
priceCode	The coded type of a price. (Refer to the Edig@s PriceCodeTypeCodeList for the list of valid codes).	[0..1]

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132 # 4 Document Change Log

133 ## 4.1 Version

134 ### 4.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 2020-06-29	Initial release.	
Version 2 2021-04-26	Release 6.1 Corrected spelling on productIdentification attribute, and updated decision table for ToSo_MarketParticipant reference.	

135