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

2   **Model Documentation**

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8   *Version 6.1*

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20   *Document Version: 2*
21   *Schema Version: 1*
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Table of Contents

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:

SoOfferedCapacity	System Operator offered capacity	Capacity Platform Responsible validated offered capacity
identification	Mandatory.	
version	Mandatory.	
documentCode	AMV = System Operator offered capacity.	AMW = Capacity Platform Responsible validated offered capacity.
creationDateTime	Mandatory.	
ValidityPeriod	Mandatory.	
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).	
Issuer_MarketParticipant.MarketRole.Code	ZSO = System Operator.	ZUJ = Capacity Platform Responsible.
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).	
recipient_MarketParticipant.MarketRole.Code	ZUJ = Capacity Platform Responsible.	ZSO = System Operator.
status.statusCode	62G = Active 63G= Cancelled (note whenever an auction is cancelled a cancellation notice is sent to both TSOs).	62G = Active 63G= Cancelled (note whenever an auction is cancelled a cancellation notice is sent to both TSOs).
ProductIdentification_Reference.identification	Mandatory.	
ProductIdentification_Reference.referenceCode	CT = System Operator contract reference.	ZSD = Contract reference of a Capacity Platform Responsible product.
ProductIdentification_Reference.tsoContract_Reference.identification	Not used	Used to provide the product reference of the TSO submission.
ProductIdentification_Reference.booked_Quantity.Amount	Used in the case that there is capacity already allocated.	Not used.
ProductIdentification_Reference.maxBid_Rate.Value	Used if required by local market rules	Used if required by local market rules
ProductIdentification_Reference.tsoShare_Rate.Value	Used when there is a repartition between two System Operators of the auction premium.	Used when there is a repartition between two System Operators of the auction premium.
ProductIdentification_Reference.complementaryText.text	May be used.	
ProductIdentification_Reference.rolledover_Indication.Indicator	Not used	Used by a Capacity Platform Responsible in the case where an auction has been rolled over from a previous auction.

SoOfferedCapacity	System Operator offered capacity	Capacity Platform Responsible validated offered capacity
		01G = Yes. 02G = No.
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.	
ConnectionPoint.bookablePointIdentification	May be used; codingScheme = ZSO.	
ConnectionPoint.product_PeriodSpan.periodSpanCode	ZEJ = Yearly ZEK = Quarterly ZEL = Monthly ZEM = Daily ZEN = Within day.	ZEJ = Yearly ZEK = Quarterly ZEL = Monthly ZEM = Daily ZEN = Within day.
ConnectionPoint.quantity_MesureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d)	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).	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d).
ConnectionPoint.currency.currencyCode	Refer to Edig@s CurrencyCodeTypeCodeList for the valid list of codes	Refer to Edig@s CurrencyCodeTypeCodeList for the valid list of codes
onnectionPoint.currency.exchangeRate	Used if required to provide the rate of exchange between a foreign currency and a Euro.	Used if required to provide the rate of exchange between a foreign currency and a Euro.
ConnectionPoint.availability.availabilityCode	Z06 = Firm Z05 = Interruptible.	Z06 = Firm Z05 = Interruptible.
ConnectionPoint.to_MarketArea.identification	Used 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 EIC Area Y code.	Used 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 EIC Area Y code.
ConnectionPoint.from_MarketArea.identification	Used 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 (EIC Area Y code).	Used 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 (EIC Area Y code).
ConnectionPoint.to_So_MarketParticipant.Identification	Used to identify the System Operator offering entry capacity or in the case of a bundled capacity auction. codingScheme = 305 (EIC Party X code).	Used to identify the System Operator offering entry capacity or in the case of a bundled capacity auction. codingScheme = 305 (EIC Party X code).
ConnectionPoint.from_So_MarketParticipant.Identification	Used to identify the System Operator offering exit capacity or in the case of a bundled capacity auction. codingScheme = 305 (EIC Party X code).	Used to identify the System Operator offering exit capacity or in the case of a bundled capacity auction. codingScheme = 305 (EIC Party X code).

SoOfferedCapacity	System Operator offered capacity	Capacity Platform Responsible validated offered capacity
ConnectionPoint.auction_Sequence.position	The identification of the specific order assigned by the System Operator for the capacity rights to be auctioned.	Not used
ConnectionPoint.period.timeInterval	Mandatory.	
ConnectionPoint.period.quantity.amount	Mandatory.	
ConnectionPoint.period.quantity.quantityCode	ZXO = Bundled quantity indivisible Note: The information is only provided if a bundled quantity is indivisible.	
ConnectionPoint.period.quantity.bundled_Indication.indicatorCode	01G = Bundled (Yes) 02G = Unbundled (No)	
ConnectionPoint.reserve_Price.amount	Mandatory.	
ConnectionPoint.largeStep_Price.amount	This price is mandatory in the case of ascending clock auctions	This price is mandatory in the case of ascending clock auctions
ConnectionPoint.smallStep_Price.amount	This price is mandatory in the case of ascending clock auctions	This price is mandatory in the case of ascending clock auctions
RolloverInformation_Reference.identification	Identification of the rollover product	Not used
RolloverInformation_Reference.RollOver_Period.TimeInterval	the start and end date and time in UTC of the period of the product being rolled over.	Not used
RolloverInformation_Reference.reserve_Price.amount	The reserve price for the rollover product in the auction.	Not used
CompetingProduct_Sequence.position	This class is only used in the case where the System Operator wishes to indicate whether the product in question is to be considered to be competing with other product(s) from the same System Operator Otherwise Not used.	Not used
CompetingProduct_Sequence.totalProduct_Quantity.amount	This class is only used in the case where the System Operator wishes to indicate whether the product in question is to be considered to be competing with other product(s) from the same System Operator Otherwise Not used.	Not used.
ProductReference.identification	Used if an identification in ProductIdentificationReference class; Otherwise not used	Not used
Cost_Price.amount	Used if cost price information.	
Cost_Price.priceCode	Z01 = Measurement fee Z02 = Accounting fee Z03 = Biogas fee Z04 = Operating fee	

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3 SO 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 of SO offered capacity 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

Note concerning the use of the SO Offered Capacity Document: This document as outlined in the sequence diagram serves two purposes:

1. The submission by a System Operator of the offered capacity for auction.

2. The information by the Capacity Platform Responsible to the System Operator regarding the amount that will be auctioned including any bundling as well as any capacity that has already been booked.

The document being referenced in the guide is shown with a red message flow.
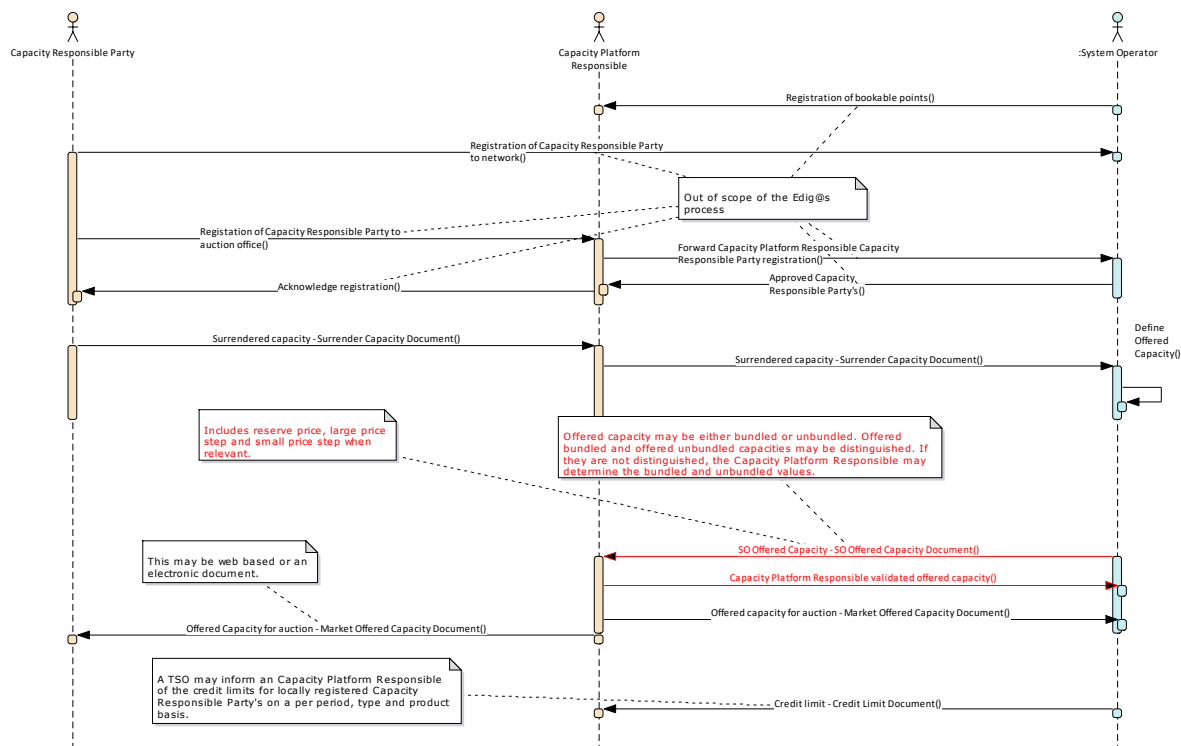

Figure: 1 **Capacity allocation initialisation sequence**

3.2 SO Offered Capacity Document (OFFCAP)

A SO Offered Capacity Document is used in two different contexts within the CAM process:

1. To enable a System Operator (in the case of regulation 984/2013 the term System Operator means Transmission System Operator) to inform a Capacity Platform Responsible of the capacity that is available for offer as well as the reserve price and any eventual price step information. This may also include the split factor of the auction revenue that the System Operator expects to enable the Capacity Platform Responsible to make use of it if necessary.

2. To enable the Capacity Platform Responsible to inform the System Operators of the capacity that will be auctioned including the reserve price and any eventual price step information. The split factor that may have been proposed and any additional technical implementation rules is also included.
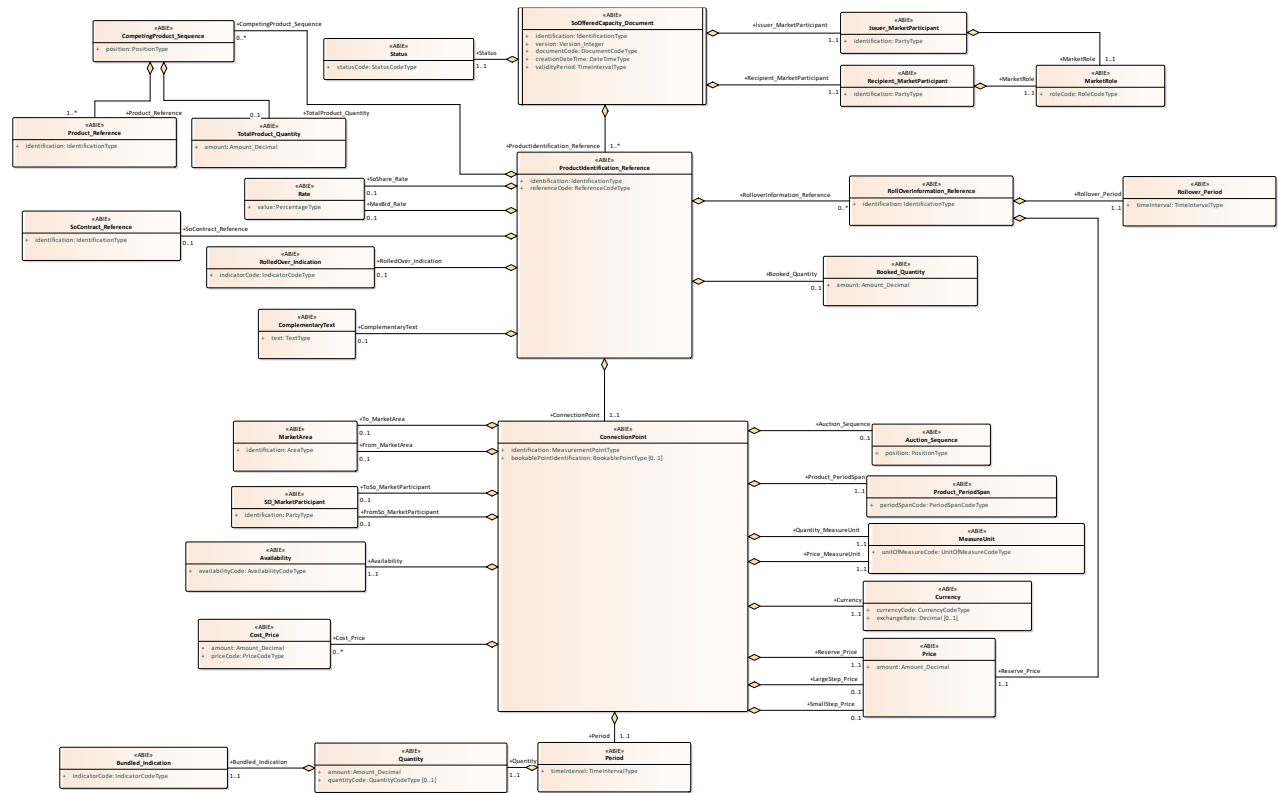
3.2.1 SO Offered Capacity Contextual Model

Figure: 2 **OffCap Contextual Model**
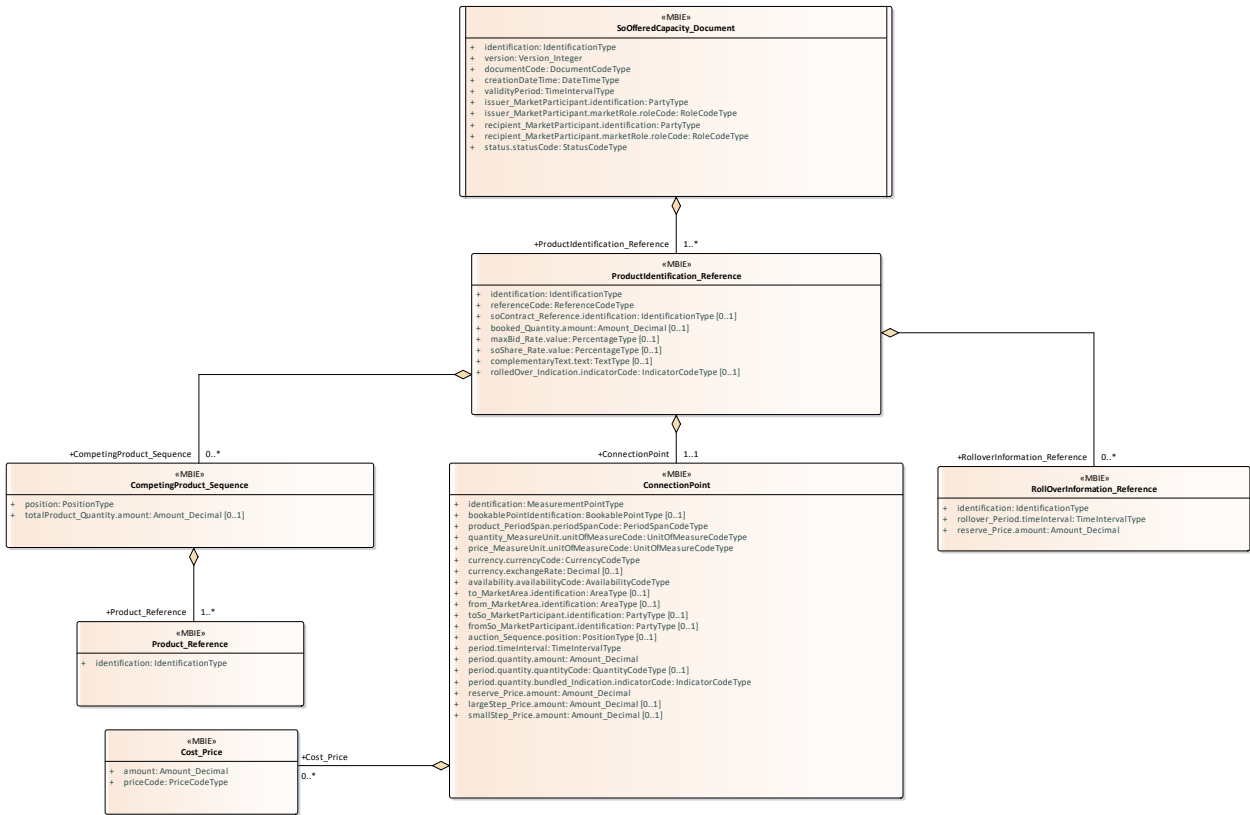
105 ## 3.2.2 SO Offered Capacity Assembly Model

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109 Figure: 3 **SO Offered Capacity Assembly Model**
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111 3.2.2.1 SoOfferedCapacity_Document

112 This information provides the start and end date and time of the period of validity of the auction in the document.

113 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 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.	
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 following roles are permitted for this document: --- The Issuer of the document. --- The role of the Issuer.	
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 following roles are permitted for this document: --- The Recipient of the document. --- The Role of the Recipient.	
status.statusCode	A code providing the status of an object. (Refer to the Edig@s StatusCodeTypeCodeList for the list of valid codes). This information provides the status of the document.	

114 3.2.2.2 ProductIdentification_Reference

115 The identification of a reference.
116 The ProductIdentification_Document class provides all the information related to a specific auction.
117 It should be noted that ContractReference corresponds to:
118 • The AUCTION NOTIFICATION for a product when the Issuer is a Capacity Platform Responsible.
119 • A System Operators product identification of offered capacity when the Issuer is a System Operator
120 A System Operator may include several products in one transmission.

121 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. It corresponds to a System Operator product in the case where the document is issued by a System Operator. It corresponds to a Capacity Platform Responsible product in the case where the document is issued by a Capacity Platform Responsible.	

Attribute	Description	Multiplicity
referenceCode	Identification of a type of reference. 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).	
soContract_Reference.identification	The coded identification of a reference. --- The identification of a product as identified by the System Operator. The contract reference provides the identification of the product as assigned by the System Operator relevant for the product to be auctioned.	[0..1]
booked_Quantity.amount	The amount of a quantity. --- This information defines the quantity that has been already booked for the auctions referenced in the document. The booked quantity is only provided in a document with a document type of AMV (System Operator offered capacity).	[0..1]
maxBid_Rate.value	A rate expressed as a percentage. --- This information defines the maximum quantity that a bidder may bid in the auction expressed as a percentage.	[0..1]
soShare_Rate.value	A rate expressed as a percentage. --- This information defines the percentage that has been agreed by two System Operators in order to divide the premium of a bundled auction. It represents the split factor between the two System Operators.	[0..1]
complementaryText.text	Complementary information provided in textual form --- Additional text may be provided by the System Operator or the Capacity Platform Responsible to provide additional non processable information.	[0..1]
rolledOver_Indication.indicatorCode	A boolean indicator of the type "yes" or "no". (Refer to the Edig@s IndicatorCodeTypeCodeList for the list of valid codes). --- This information provides the indication that the auction has been rolled over from a previous auction in the case of insufficient bids.	[0..1]

3.2.2.3 RollOverInformation_Reference

The identification of a reference.
There may be zero to many RolloverInformation_Reference classes. It provides the time interval and reserve price to be used in the case of a rollover.

3.2.2.3.1 Attributes

Attribute	Description	Multiplicity
identification	The coded identification of a reference.	
rollover_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 period of the product being rolled over.	
reserve_Price.amount	The monetary amount of a price. --- The identification of the reserve price for the rollover product in the auction.	

3.2.2.4 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.

130 There shall only be one connection point (in the case of regulation 984/2013 the term Connection Point means
131 Interconnection Point) in an auction.
132 It should be noted that the "to" and "from" MarketArea is mutually exclusive with the "to" and "from"
133 So_MarketParticipant. It is used only in the case where the So_MarketParticipant is the same in the "to" and the
134 "from".
135 **3.2.2.4.1 Attributes**

Attribute	Description	Multiplicity
identification	The identification of a connection point. The identification of a connection point within a System Operator's system.	
bookablePointIdentification	The identification of a given connection point, System Operator and direction. The identification of a bookable point within a System Operator's system.	[0..1]
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. --- The unit of measurement used for all the quantities expressed within a connection point.	
price_MeasureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common 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 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]
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). --- The availability type indicates if a quantity is firm or interruptible.	
to_MarketArea.identification	Identification of an area delimiting a market. --- The identification of a market area to where 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]
toSo_MarketParticipant.identification	The identification of the party participating in the market. --- The System Operator holding entry capacity is identified by a unique coded identification.	[0..1]
fromSo_MarketParticipant.identification	The identification of the party participating in the market. --- The System Operator holding exit capacity is identified by a unique coded identification.	[0..1]
auction_Sequence.position	The identification of a given sequence value.	[0..1]

Attribute	Description	Multiplicity
	--- The identification of the specific order assigned by the System Operator for the capacity rights that will be auctioned. Note: Transmissions from the Capacity Platform Responsible do not contain this attribute.	
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 period of the product being auctioned.	
period.quantity.amount	The amount of a quantity. --- This information provides the start and end date and time of the period of the product being auctioned. --- The quantity to be auctioned for the connection point within the time interval in question.	
period.quantity.quantityCode	The identification of a specific characteristic of the quantity being referenced such as whether or not the quantity is indivisible which signifies that the bundled quantity shall not be auctioned as unbundled. Note: The information is only provided if a bundled quantity is indivisible. (Refer to the Edig@s QuantityCodeTypeCodeList for the list of valid codes). --- This information provides the start and end date and time of the period of the product being auctioned. --- The quantity to be auctioned for the connection point within the time interval in question.	[0..1]
period.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). --- This information provides the start and end date and time of the period of the product being auctioned. --- The quantity to be auctioned for the connection point within the time interval in question.	
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]

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3.2.2.5 Cost_Price

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

3.2.2.5.1 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 The type of a given cost such as a fee. (Refer to the Edig@s PriceCodeTypeCodeList for the list of valid codes).	

3.2.2.6 CompetingProduct_Sequence

A class identifying a sequence.
There may be zero to many CompetingProduct_Sequence classes in a document. The 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.

3.2.2.6.1 Attributes

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

3.2.2.7 Product_Reference

The identification of a reference.
There may be one to many Product_Reference classes for a CompetingProduct_Characteristic class.
The product reference identifies an associated product that is in the same Offered Capacity document identified in the ContractReference of another ProductIdentification_Document class sent by the Transmission System Operator.

3.2.2.7.1 Attributes

Attribute	Description	Multiplicity
identification	The coded identification of a reference.	

155 # 4 Document Change Log

156 ## 4.1 Version

157 ### 4.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 2020-06-29	Initial release	
Version 2 2021-07-02	Release 6.1	

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