European Network of
Transmission System Operators
for Electricity

ENTSO-E Capacity Allocation and Nomination System (ECAN)

Implementation Guide

2011-04-21

VERSION 5.0

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REFERENCE DOCUMENTS

1. The ENTSO-E Harmonised Role Model
2. The introduction of different time series possibilities within ENTSO-E electronic documents

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Revision History

Version	Release	Date	Paragraph	Comments
1	0	2006-11-21	Initial Release	Approved by the ETSO Steering Committee on the 21st November 2006 (52nd session file) for publication.
1	1	2006-10-08	1 Definition of terms and acronyms	Rectification of the definition of “Nomination Validator”.
2	0	2007-06-10		Addition of the intra day use of ECAN + Secondary market. Approved by TF EDI.
3	0	2007-11-19	3.1, 3.4 and 6 7, 8, 9 10 and 11 Schemas	To correct Use case Changed “information provider” to “market information aggregator”. Corrected errors in Schemas Bid Document, Allocated Results document, Rights Document and Capacity Document to correct camel case and names dealing with MeasureUnit and in the Allocated Results document, Rights Document and Capacity Document to permit a document header to be transmitted without a time series and to add the Reason class to the header. This changes the formal structure of the messages. Removed “A10 Tertiary control” from the Bid document business type.

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Version	Release	Date	Paragraph	Comments
4	0	2008-06-13	new sections 5, 10 and 11 Revised sections 8 and 9	Inserted the handling of implicit auctions. Inserted Implicit Market Result Document Inserted Total Allocations Result Document. Revised the Bid document and the Allocated Results document.
4	0	2008-06-26		Approved by the Steering Committee
5	0	2011-04-21		Revision of document to incorporate evolutions following implementation, new documents and to assemble together existing documents (Publication Document, Capacity Auction Specification) defined in independent Implementation Guides. Approved by Market Committee on 2011-05-17.

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NOTE CONCERNING WORDING USED IN THIS DOCUMENT

The force of the following words is modified by the requirement level of the document in which they are used.

- MUST: This word, or the terms “REQUIRED” or “SHALL”, means that the definition is an absolute requirement of the specification.
- MUST NOT: This phrase, or the phrase “SHALL NOT”, means that the definition is an absolute prohibition of the specification.
- SHOULD: This word, or the adjective “RECOMMENDED”, means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
- SHOULD NOT: This phrase, or the phrase “NOT RECOMMENDED”, means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.
- MAY: This word, or the adjective “OPTIONAL”, means that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation which does not include a particular option MUST be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation which does include a particular option MUST be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides.)
- DEPRECATED: this word means that a previously permitted entity should no longer be used in new implementations as in a future release the object in question may be suppressed.

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1 DEFINITION OF TERMS AND ACRONYMS

AAC: Already Allocated Capacity is the total amount of allocated transmission capacity rights, whether they are capacity or exchange programmes depending on the allocation method.

Allocated capacity market: A market area where the transmission capacity between the balance areas is given to the Capacity Traders according to rules carried out by a Transmission Capacity Allocator. Trade between balance areas is carried out on a bilateral or unilateral basis.

ATC: *Available Transmission Capacity* is the part of NTC that remains available, after each phase of the allocation procedure, for further commercial activity. ATC is given by the following equation:

ATC = **NTC- AAC.**

Bid: A bid represents a request for a given capacity at a given price made by a Capacity Trader and corresponds to a single time series within a Bid document.

Bidding period: The date and time when an auction opens for bidding until the date and time when bidding is stopped.

Capacity Coordinator: A party, acting on behalf of the System Operators involved, responsible for establishing a coordinated Offered Capacity and/or NTC and/or ATC between several Market Balance Areas.

Capacity Trader: A party that has a contract to participate in the capacity market to acquire transmission capacity rights through a Transmission Capacity Allocator. Note: The transmission capacity rights may be acquired on behalf of an Interconnection Trade Responsible or for sale on Secondary Capacity Markets.

Entsoe.net: The entsoe.net transparency platform is a centralised web based system for the aggregation and presentation of data, supported by the decentralised structures that already exist at data administrators or individual SO level. Its main objective is to make available to the electricity market participants all the relevant, valued and trusted information in a transparent way. This platform plays the role of Market Information Aggregator in the ECAN processes.

Explicit auctioning: The congestion management method in which only the energy transmission capacity rights are auctioned.

Flow-based Offered Capacity: signifies that no ATC is calculated prior to auction. The Offered Capacity is calculated with an optimisation process based on the bids (price driven).

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Implicit auctioning The congestion management method in which the transmission capacity is included implicitly in the trading of energy in the market. There are two types of implicit auction:

- Market Coupling is a co-operation between two or more Market Operators and System Operators for each price zone typically separated by a potentially congested boundary. The objective is to achieve a single market price within the coupled regions. This is not possible if capacity limits are exceeded in this case different prices could exist in each region.
- Market Splitting, where one Market Operator operates a region with several price zones typically separated by a potentially congested boundary. There is one market price established for the whole region unless a capacity limit is exceeded. The region splits into price zones with different market prices once the capacity limit is exceeded.

Allocation type	Implicit Auction	Explicit Auction
Flow based	ENTSO-E - Europex flow based market coupling	Not yet implemented
ATC based	Market coupling e.g. North Western Europe market coupling (CWE + DE/Nordic) e.g. Nord Pool	ECAN V1 All bilateral auctions e.g. Energinet.dk - E.ON. Coordinated auctions e.g. CEPS, VE-T, PSE-O, E.ON, SEPS E.G. TSO Auction B.V.

FIGURE 1: RELATIONSHIP BETWEEN ALLOCATION TYPES AND AUCTION TYPES (OCTOBER-2010)

Interconnection Trade Responsible: Is a Balance Responsible Party or depends on one. He is recognised by the Nomination Validator for the nomination of already allocated capacity.

Long term contract (LTC): A binding agreement that gives the right to use capacity for a period superior to one whole day. In order to facilitate reading long term contracts prior to 26th June 2003 that do not respect the EC regulation 1228/2003 will be termed “historical contracts” throughout the document.(note: for a description of the EC regulation No 1228/2003 in relation to long term contracts please refer to annex 1).

Market balance area: Refer to ENTSO-E Harmonised Role Model definition.

Market Information Aggregator: Refer to ENTSO-E Harmonised Role Model definition.

Market Operator: The unique power exchange of trades for the actual delivery of energy that receives the bids from the Balance Responsible Parties that have a contract to bid. The market operator determines the market energy price for the market balance area after applying technical constraints from the system operator. It may also establish the price for the reconciliation within a metering grid area.

Nomination: A firm declaration of the transmission capacity rights to be used.

Nomination Validator: depends on one or more System Operators and has the responsibility of ensuring that all transmission capacity rights nominated are within the allowed limits and sending all valid nominations to the involved System Operator. He

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informs the Interconnection Trade Responsible of its transmission capacity rights for nomination. Depending upon market rules for a given interconnection the corresponding System operators may appoint one Nomination Validator.

NTC: *Net Transfer Capacity* is defined as NTC = TTC – TRM and corresponds to the maximum exchange between two areas compatible with security standards applicable in both areas and taking into account the technical uncertainties on future network conditions.

Offered Capacity: The amount of capacity, as defined by local market rules, which will be offered by the Transmission Capacity Allocator to the market. Depending on local market rules the establishment of the Offered Capacity may be based on the ATC, and include the consideration of firm exchange programs in one direction, to increase the Offered Capacity in the other direction. This is generally known as Netting aimed at maximising Offered Capacity. An initial Offered Capacity provided by the Capacity Coordinator may also be increased by the Transmission Capacity Allocator with Resales of transmission capacity rights obtained in previous auctions.

Rule based allocations: These cover the allocation of transmission capacity rights based on a given algorithm such as first come, first serve or proportional to request. This is a particularity for the allocation of intraday capacity when local market rules do not require an auction allocation.

System Operator: Refer to ENTSO-E Role model definition.

Transmission Capacity Allocator: Manages, on behalf of the System Operators, the allocation of Offered Capacity for an Allocated capacity area. He offers the Offered Capacity to the market allocates transmission capacity rights to individual Capacity Traders and calculates the invoiced amount of already allocated and resold transmission capacity rights to the Capacity Traders.

Transmission Capacity Rights: Represents the rights of usage of a certain amount of transmission capacity in a potentially congested border between Market Areas.

TRM: ***Transmission Reliability Margin*** is a security margin that copes with uncertainties on the computed TTC values arising from:

a) Unintended deviations of physical flows during operation due to the physical functioning of load-frequency regulation

b) Emergency exchanges between SOs to cope with unexpected unbalanced situations in real time

c) Inaccuracies, e.g. in data collection and measurements

TTC: Total Transfer Capacity TTC is the maximum exchange program between two areas compatible with operational security standards applicable at each system if future network conditions, generation and load patterns were perfectly known in advance.

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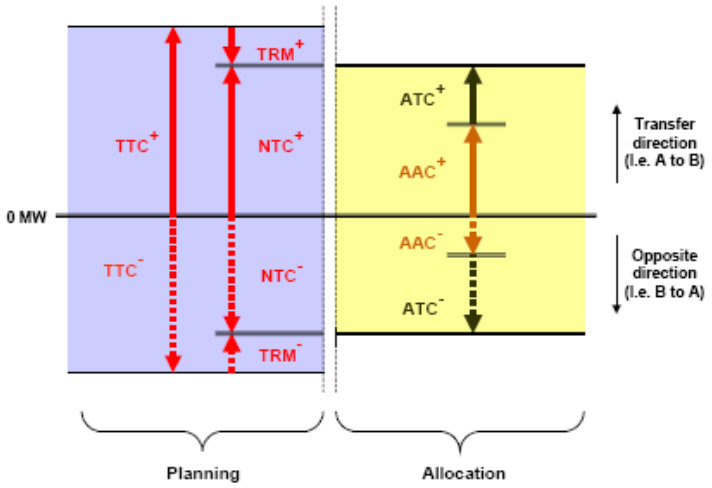

FIGURE 2: TRANSFER CAPACITY DEFINITIONS[1]

2 OBJECTIVE

The objective of this implementation guide is to make it possible for software vendors to develop an IT application for market players that can exchange information for transmission capacity rights allocations and nominations within the congestion management and scheduling processes.

The implementation guide is one of the building blocks for using UML (Unified Modelling Language) based techniques in defining processes and messages for interchange between actors in the electrical industry in Europe.

The implementation guide is developed for the harmonisation of the underlying data exchange process and not as a guideline for creation of new allocation rules. The model described in this document shall reflect the various procedures that are used in Europe at present.

3 CAPACITY ALLOCATION AND NOMINATION OVERVIEW

3.1 INTRODUCTION

There are some network grids within the ENTSO-E domain which are affected by structural congestion. Various congestion management methods such as, explicit auctioning, implicit auctioning, explicit auctioning involving two or more System Operators, etc. have been devised and implemented.

The prerequisite for each of these methods is a transparent, non-discriminatory capacity allocation process in compliance with European regulations in particular EC 1228/2003.

[1] Figure taken from "ETSO - Definitions of transfer capacities in liberalised electricity markets – April 2001"

This implementation guide is focussed on providing the generic information models for the data exchange between the Transmission Capacity Allocator, the System Operators and the various market players participating in the capacity market for cross border scheduling. The information models in question cover the essential requirements of all the congestion management methods identified in figure 1.

The registration and qualification of market participants to enable them to participate in the market is outside the scope of this guide.

There are two different types of capacity auctioning, Explict or Implicit, used in the congestion management methods identified:

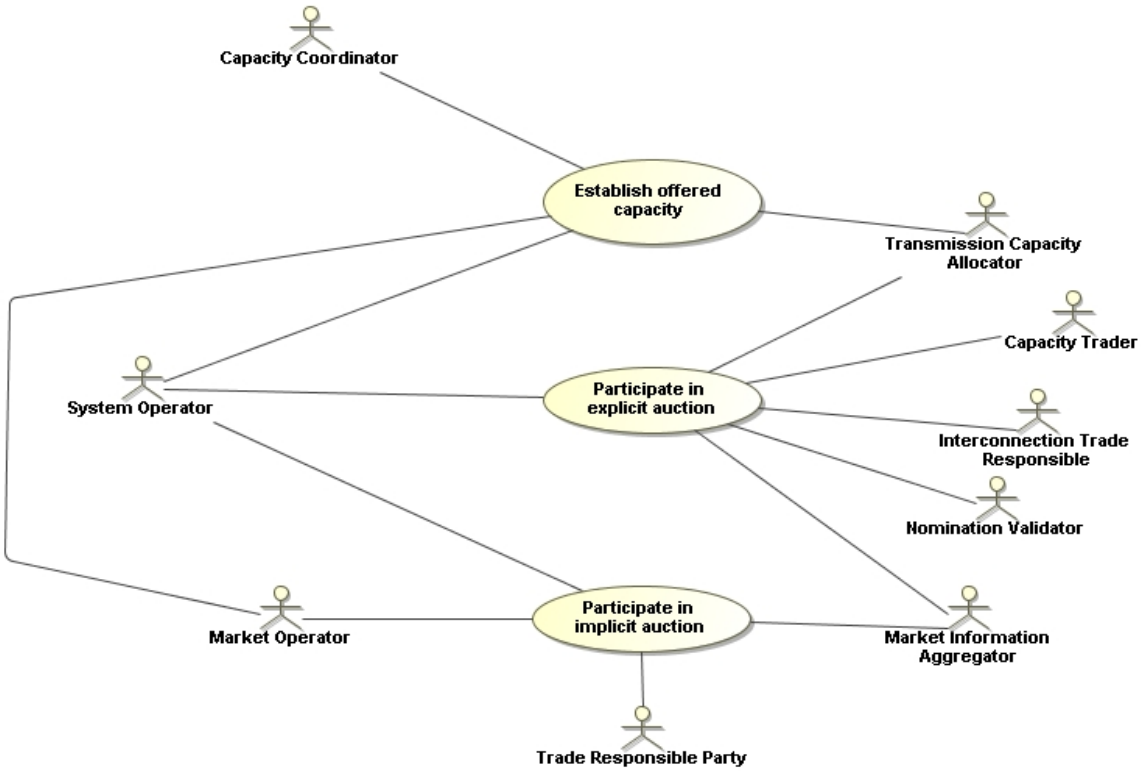

FIGURE 3: USE CASE OF THE TRANSMISSION CAPACITY ALLOCATION PROCESS

Figure 3 outlines the generic use cases that are required in a capacity allocation process. This implementation guide also defines the data interchanges that will be required to enable such a generic process to operate.

The use case “Establish offered capacity” is common to both Explicit and Implicit auctions and relates to the identification and publication of the offered capacity that can be allocated. The available transmission capacity has initially to be agreed between the System Operators. Once the offered capacity is agreed, it is made available to the interested parties. The main actors in the process are the System Operators, the Capacity Coordinator and the Transmission Capacity Allocator/ Market Operator.

The use case “Participate in Explicit auctions” implies the following steps:

- The first step covers the bidding and allocation activity itself. A sub use case of the bidding and allocation activity may be the eventual secondary trade and negotiation of allocated capacity between Capacity Traders or Capacity Traders

and Interconnection Trade Responsible parties. The principle actors are the Capacity Trader and the Transmission Capacity Allocator.

- The second step concerns Nomination, the activity of declaring the long term, daily and intraday capacity to be used. This involves the Interconnection Trade Responsible, the Nomination Validator and the System Operator. The Nomination Validator ensures that all nominations presented are coherent.
- The third and final step concerns the validation and final confirmation of all nominations. This step includes cross border matching. The principle actors are the Nomination Validator and the System Operators.

The use case “Participate in Implicit auctions” implies the publication of cross border exchange values with or without prices.

3.2 ESTABLISH OFFERED CAPACITY USE CASE

This process involves the neighbouring system operators identifying the available capacity (that which is available on the border, and that which is available for resale) and providing it to the Capacity Coordinator for consolidation in order to provide the available capacity to the Transmission Capacity Allocator in the case of explicit auctions or to the Market Operator in the case of implicit auctions.

3.3 PARTICIPATE IN EXPLICIT AUCTION USE CASE

The process enables the Transmission Capacity Allocator to manage, on behalf of the System Operators, the allocation of available transmission capacity for an Allocated capacity area. He offers the available transmission capacity to the market, allocates the available transmission capacity to individual Capacity Traders and calculates the billing amount of already allocated capacities to the Capacity Traders.

3.4 PARTICIPATE IN IMPLICIT AUCTION USE CASE

The process enables a Market Operator to provide the delivery of energy. Trade Responsible Parties that have a contract may offer or bid for the energy in question. The transmission capacity is included implicitly in the auctions of energy in the market. The rules covering the auction mechanism determine the market energy price for the Market Balance Area after applying technical constraints from the System Operator.

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4 OFFERED CAPACITY

4.1 USE CASE

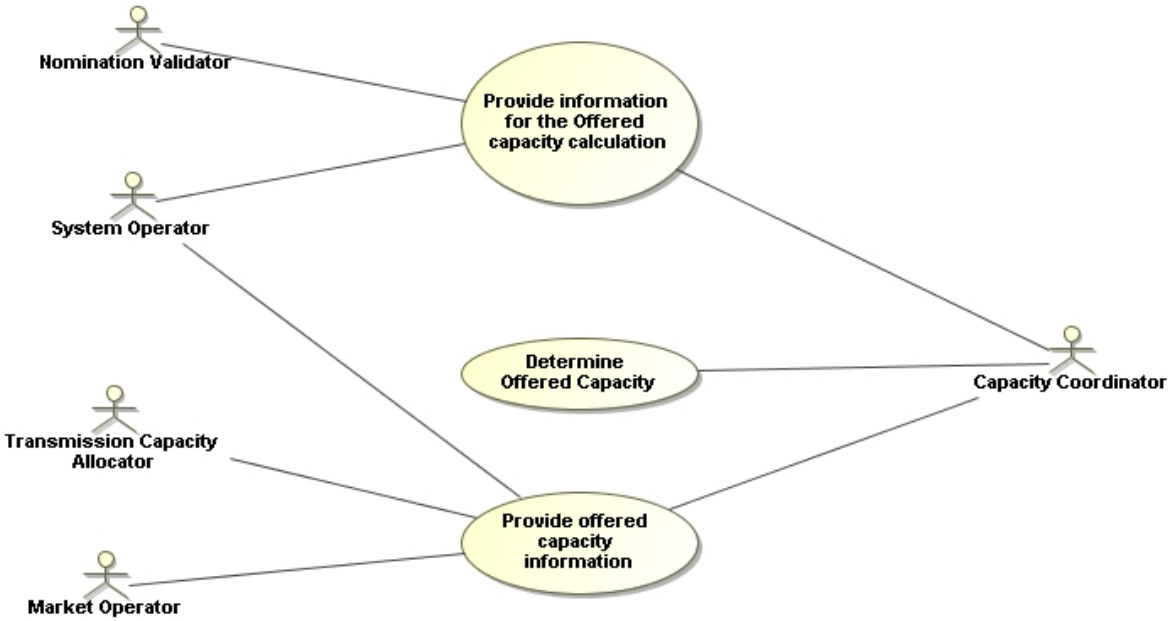

FIGURE 4: OFFERED CAPACITY OVERVIEW

In the various auction implementations throughout Europe, the ATC is being interpreted in a wider sense than the definition provided in Section 1. Indeed, the ATC may be the available capacity from one *or more* Market balance Areas to one *or more* Market Balance Areas. The NTC definition is extended in a similar manner. The Offered Capacity is based on this ATC.

The Roles that take part in the ATC calculation are:

- System Operators who perform all network security calculations and has the overall responsibility for the definition of Offered Capacity between Market Balance Areas;
- Capacity Coordinators who coordinate the Offered Capacity between multiple Market Balance Areas.
- Nomination Validator who provides data on confirmed nominations from previous Explicit auctions.
- Transmission Capacity Allocator or Market Operator who provides data on the AAC.

The basic data to be exchanged are:

- The NTC from one or more Market Balance Areas to one or more Market Balance Areas;
- The nominations of all allocated transmission capacity rights between the Market Balance Areas;
- The allocated capacity in all previous auctions that affect the given allocation period;
- The Offered Capacity for confirmation purposes.

- The capacity for resale

There are three major steps in the determination of the Offered Capacity:

1. *System Operator agreement on the NTC;*

   For each concerned allocation period (multi-annual, annual, quarterly, monthly, daily, etc.) each System Operator carries out independent studies in order to calculate the corresponding NTC. As long as each System Operator uses different models, data and hypotheses for this calculation, different NTC values are expected. This data must be exchanged between System Operators in order to track the calculations. If necessary, and depending on the auction organisation, one System Operator is responsible for determining the minimum NTC from the values provided and communicating this value to all System Operators concerned.

   Alternatively, the System Operators may adopt common procedures in calculating the NTC between Market balance Areas. In this case, a multitude of technical data must be exchanged (topology, production/consumption previsions, transformer settings etc.). This is outside the scope of the ECAN project.

2. *System Operator agreement on the Offered Capacity based on AAC;*

   Each System Operator must receive information: from the Transmission Capacity Allocator regarding the capacity auctioned/sold in the previous allocation periods if applicable. This information is pertinent only in the case where this capacity is not required to be nominated before the auction of the given allocation period, for example when calculating the monthly ATC using the allocated capacity of the annual auction.

   This ATC is sent to all involved System Operators. If necessary, and depending on the auction organisation, one System Operator is responsible for determining the minimum ATC from the values provided and communicating this value to all System Operators concerned.

3. *System Operator agreement on the Offered Capacity based on nominations.*

   Each System Operator must receive information from the Nomination Validator regarding firm nominations of capacity previously allocated if applicable; these nominations must be agreed between System Operators as required by the market rules.

Regulatory requirements or special conditions may impose that only a part of the ATC agreed on an allocation period is auctioned on that period. Each System Operator applies these requirements on the agreed ATC and then sends the Offered Capacity to all other System Operators for verification and agreement. If necessary, and depending on the auction organisation, one System Operator is responsible for determining the minimum Offered Capacity from the values provided and communicating this value to all System Operators concerned.

This Offered Capacity is finally sent to the Transmission Capacity Allocator or Market Operator for notification to the market.

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The principles of establishing ATC and Offered Capacity must be agreed between the System Operators. Once agreed, the ATC and offered values are calculated based on the agreed NTC without exchange and agreement of the new quantities between the system operators as described in points 2 and 3 above.

4.2 SEQUENCE DIAGRAM

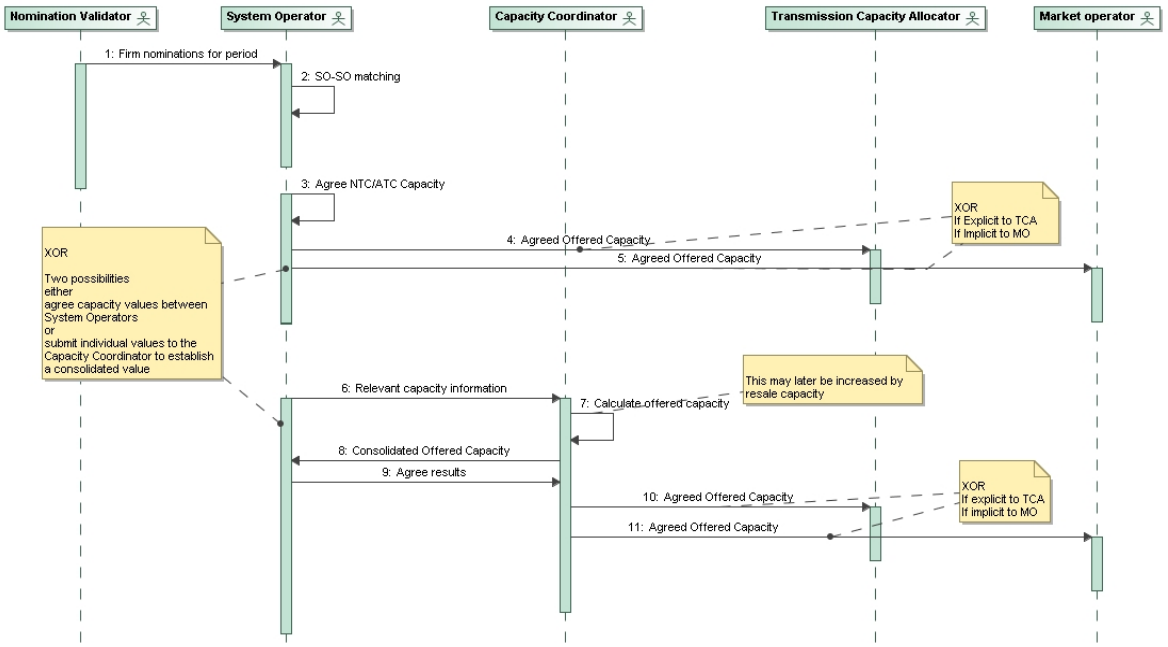

FIGURE 5: ESTABLISH OFFERED CAPACITY SEQUENCE

The sequence diagram in figure 5 being periodic, the initial steps only occur if there has been a previous auction (for example, it is in general practise to nominate all long term contracts prior to the daily nomination process in order to confirm the capacity that may be available for a daily auction). If a previous auction has occurred then it is possible that a secondary market can take place dependent on local market rules. The secondary market process is described in a specific section below. Any capacity that is released from a previous auction is communicated to the System Operators by the Capacity Coordinator.

The auction process itself may be initiated in two manners:

1. with the establishment of an Offered Capacity by a Capacity Coordinator who coordinates the capacity for a number of Market Areas;

2. By two System Operators on a given border mutually agreeing on the NTC/ATC capacity that is available for the border and period in question.

The System Operators are informed by the Nomination Validator of the agreed nominated AAC.

From the agreed NTC values the System Operators separate the ATC values into different classes per period depending on the profile that they have mutually defined and after deduction of any “Historical contracts” that they may have to honour and deduction of any reservations to comply with market rules. The AAC nominations are also taken into

consideration at this stage. Depending on market rules netting of confirmed schedules in different directions can be used in order to maximize the offered capacity.

This results in the available capacity for auction. The System Operators agree from this value the capacity that is to be offered to the market for auction. The resulting Offered Capacity is transmitted to the Transmission Capacity Allocator who makes the information available to the market. Depending on market rules the Transmission Capacity Allocator may increase the Offered Capacity with Resales of transmission capacity rights notified by Capacity Traders.

In cases where there are several Transmission Capacity Allocators involved in a border for different products, a Transmission Capacity Allocator could need information about transmission capacity rights of the Capacity Traders from another Transmission Capacity Allocator in order to correctly validate any resales.

4.3 WORKFLOW

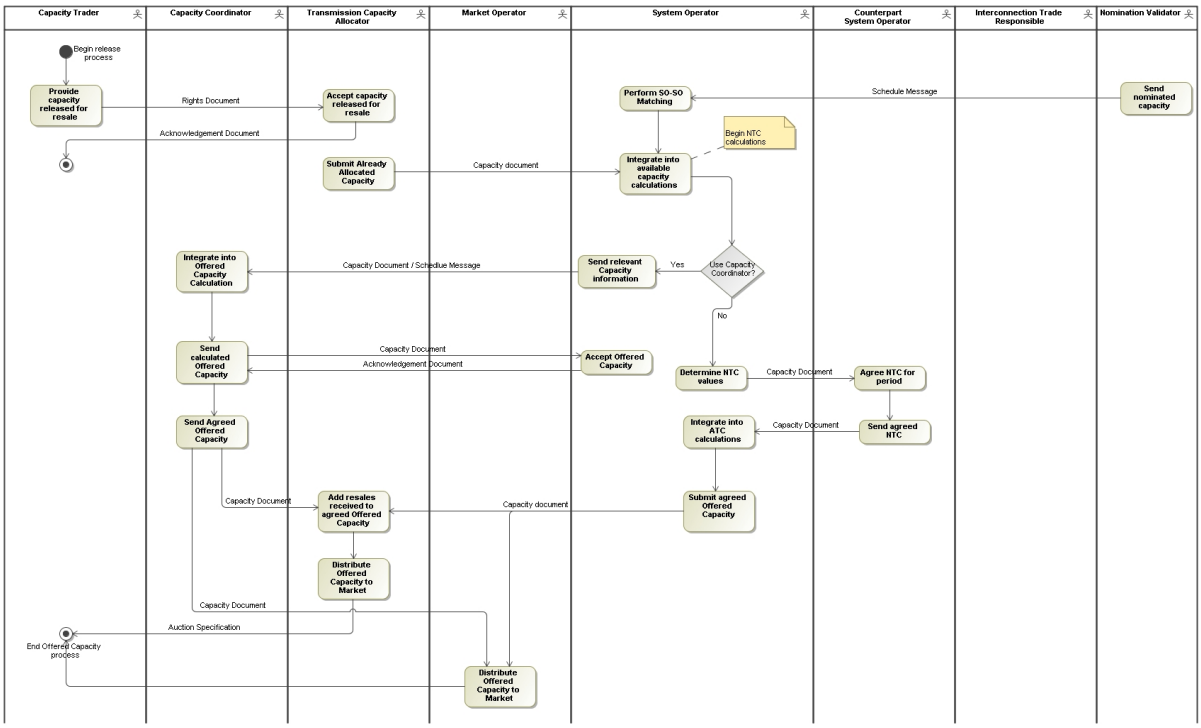

FIGURE 6: ESTABLISH OFFERED CAPACITY WORKFLOW

The process of establishing the Offered Capacity starts with the communication of release of transmission rights to the Transmission Capacity Allocator through the transmission of a Rights Document, for resale on the Capacity Traders behalf. In this phase the Nomination Validator also informs the System Operator of all validated nominations through the transmission of a Schedule Message.

The System Operators must agree on the available NTC through an exchange of Capacity Documents.

The Transmission Capacity Allocator then determines the AAC and informs the System Operator. The System Operator then assembles all the capacity information for transmission to the Capacity Coordinator. Instead of the AAC, the System Operator may use information about the agreed firm schedules if a nomination and matching process has taken place.

The Capacity Coordinator determines the Offered Capacity that can be made available to the market for sale. This information is sent to the System Operators involved through the transmission of a Capacity Document.

The Capacity Coordinator informs the Transmission Capacity Allocator or the Market Operator, depending on the nature of the auction of the capacity that can be offered to the market.

The Transmission Capacity Allocator or the Market Operator then makes this information available to the market in compliance with local market rules.

5 EXPLICIT AUCTIONS

5.1 USE CASE

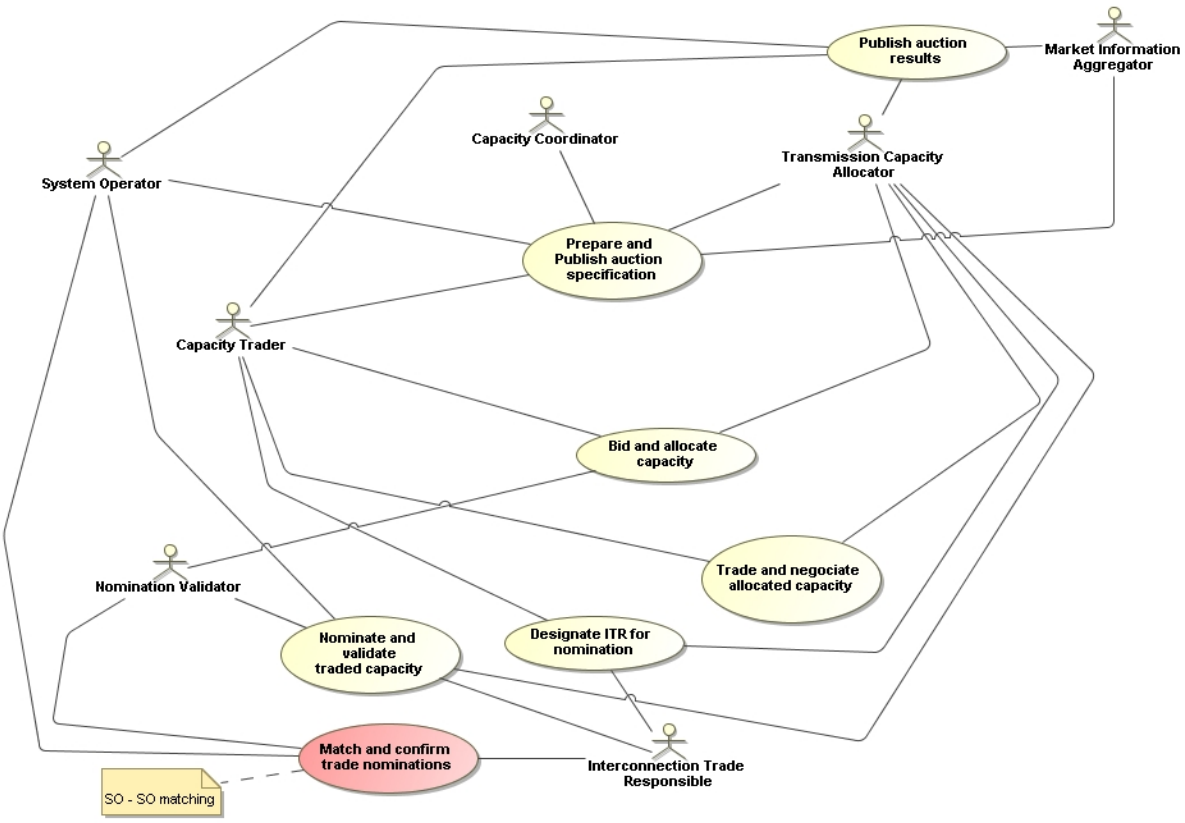

FIGURE 7: EXPLICIT AUCTION OVERVIEW

5.1.1 PREPARE AND PUBLISH AUCTION SPECIFICATION

The process necessary to constitute an Auction Specification is initiated by the System Operators who provide the Capacity Coordinator with all the information necessary for the establishment of the Offered Capacity. This may be increased with additional capacity rights submitted by the Capacity Traders for resale, for the period being addressed.

The Capacity Coordinator then determines the initial Offered Capacity with the information received. The Offered Capacity is then sent to the Transmission Capacity Allocator to enable the establishment of the Auction Specification for the period in question.

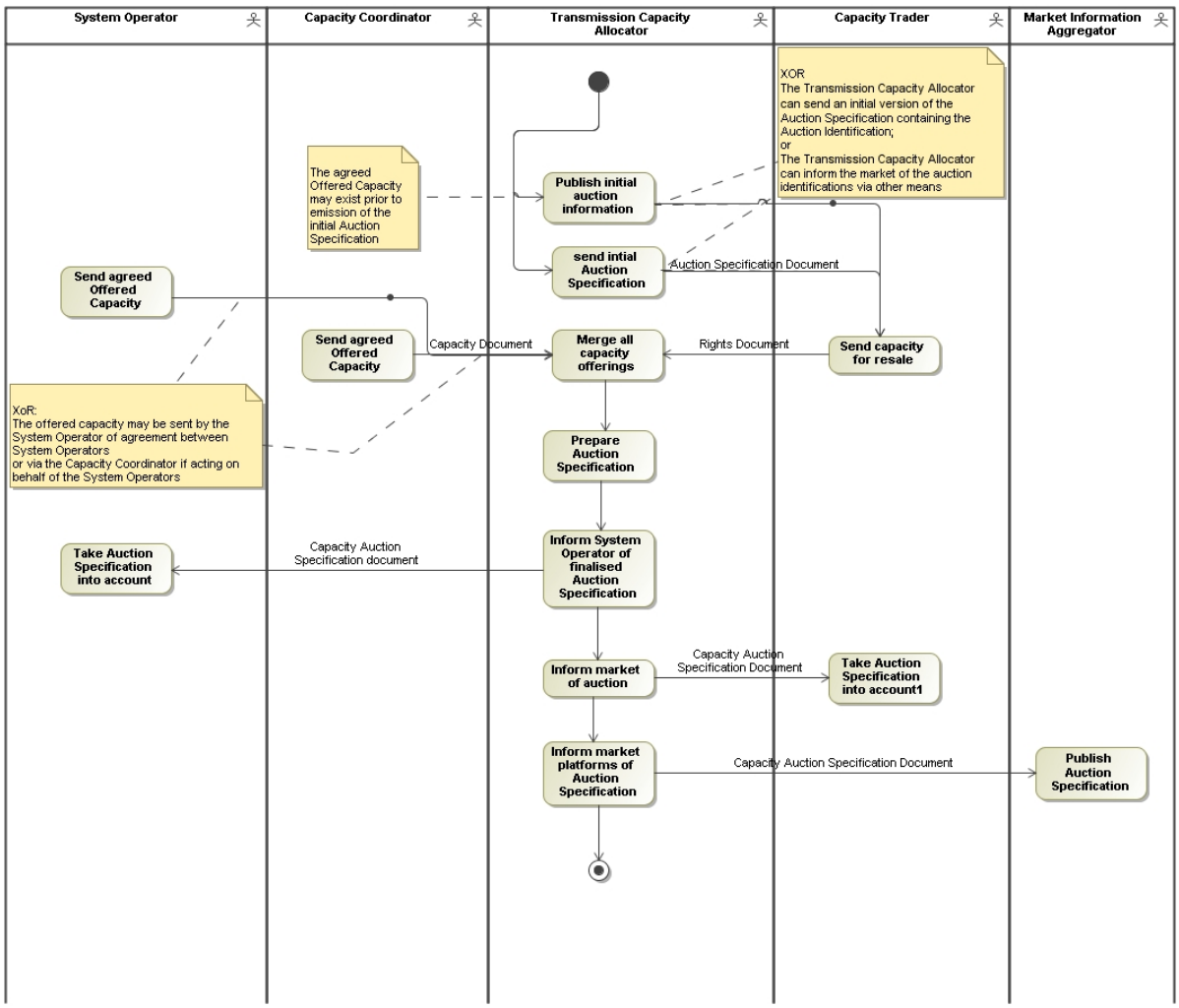

FIGURE 8: PREPARE AND PUBLISH AUCTION SPECIFICATION WORKFLOW

The overall workflow for the Explicit Auctions use case is outlined in figure 12.

The Transmission Capacity Allocator may provide to the market initial information concerning the auctions to be held. This initial information transmission may make use of a first version of the Capacity Auction Specification Document or may make use of other means. In essence it shall provide the Capacity Traders with the Auction Identifications of the coming auctions.

If a Capacity Trader has Capacity Rights that will not be used, they may be sent to the Transmission Capacity Allocator for resale. The rights in question after verification will be incorporated into the initial Offered Capacity to provide the definitive Offered Capacity for the market.

The Auction Specification will then be finalised, providing all the conditions under which the auction will take place, such as bidding period, results publication time, contestation period, etc. It shall be transmitted to the involved System Operators, Capacity Traders and Market Information Aggregators. All of these parties shall receive the same information concerning the auction.

Once the Capacity Auction Specification Document is made public the process is at its end. Once published, the Capacity Auction Specification Document may be revised to provide information concerning auction evolutions and eventually its cancellation in accordance with defined market rules.

5.1.2 BID AND ALLOCATE CAPACITY

The Capacity Traders submit bids for the transmission rights on a border to the Transmission Capacity Allocator during the bidding period.

During a predefined validation window the Transmission Capacity Allocator will verify the correctness of all bids for the auction in question.

After the bidding phase, the bids in question are allocated transmission rights by the Transmission Capacity Allocator in compliance with the published auction rules.

5.1.2.1 DETERMINE ALLOCATION

The Transmission Capacity Allocator allocates the capacity to the Capacity Traders according to the allocation mechanism described in the applicable auction rules.

The ECAN process can accommodate different allocation mechanisms, such as

Allocation Mode	Payment Terms
Order by price with pro rata	Pay as bid / Pay as cleared
Order by price with first come – first served	Pay as bid / Pay as cleared
First come –first served	No payment terms
Pro rata	No payment terms

Using an “Order by price” and “pay as cleared” mechanism, if the sum of the Capacity for which valid Bids have been submitted is equal to or less than the amount of the Capacity available for the Auction, the Clearing Price is zero. If the total amount of Capacity for which valid Bids have been submitted exceeds the available Transmission Capacity for

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the Auction in question, the highest Bid(s) for Capacity in an amount that does not exceed the available Transmission Capacity is (are) accepted. The remaining Capacity is awarded to the Capacity Trader(s) which has (have) submitted the next highest Bid(s) for Capacity in an amount that does not exceed the remaining Capacity; and so on for Capacity remaining after that in a “pro-rata” or “first come – first served” basis. Capacity is provided at the price of the lowest Bid that is accepted or, where the lowest Bid relates to Capacity in an amount that falls partially within the remaining Capacity, partially accepted.

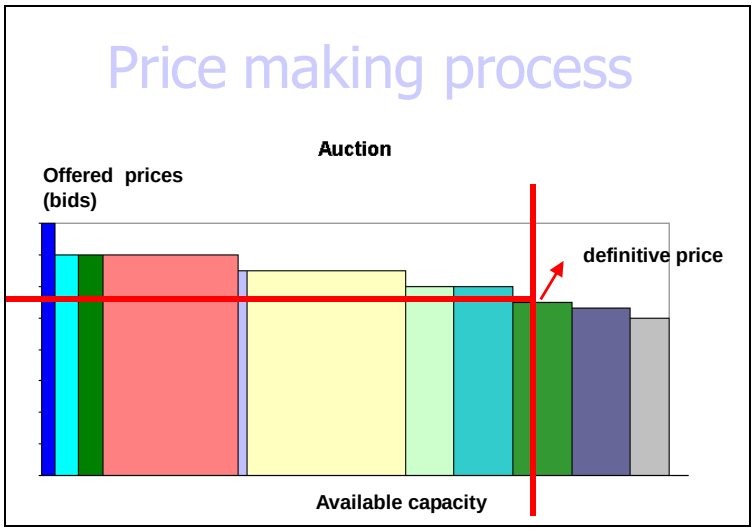

FIGURE 9 EXAMPLE OF PRICE DETERMINATION PROCESS

Other allocation mechanisms such as “first come, first serve” or “pro rata” and “no payment terms” exist. These follow in an identical manner the auction process with the exceptions of the requirement for a bid price in the Bid document, and the need to order by price.

5.1.3 PUBLISH AUCTION RESULTS

In the final step of the capacity allocation process the Transmission Capacity Allocator publishes the auction results which include the auction outcome of all bids and resales.

Involved System Operators are informed of the allocated and resold capacity being the outcome of the auction.

Each Capacity Trader is informed of the outcome of its Bid(s) and resales after the bidding period in compliance with auction rules.

The results may be re-transmitted to Market Information Aggregators for general publication.

5.1.4 TRADE AND NEGOTIATE ALLOCATED CAPACITY

In this process Capacity Traders trade transmission capacity rights between themselves and at the end of the trade inform the Transmission Capacity Allocator of the rights transfer.

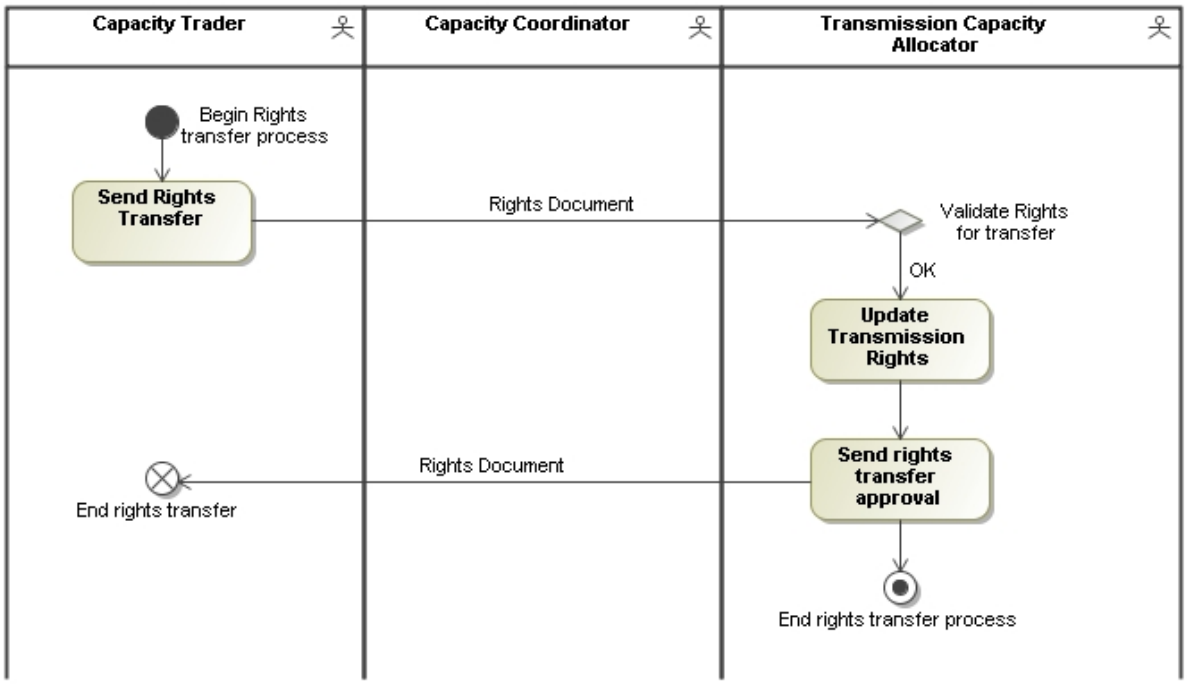

FIGURE 10: RIGHTS TRANSFER WORKFLOW

As outlined in the workflow in figure 10 the transfer of transmission rights from one Capacity Trader to another Capacity Trader requires the transferor to send a Rights document to the Transmission Capacity Allocator to inform him of the transfer of capacity rights to the transferee. This does not release any AAC.

The Transmission Capacity Allocator approves the transfer through the transmission of a Rights document containing the approved transmission rights that have been transferred between both parties. This is sent to both the transferor and the transferee parties.

5.1.4.1 SECONDARY MARKET OVERVIEW

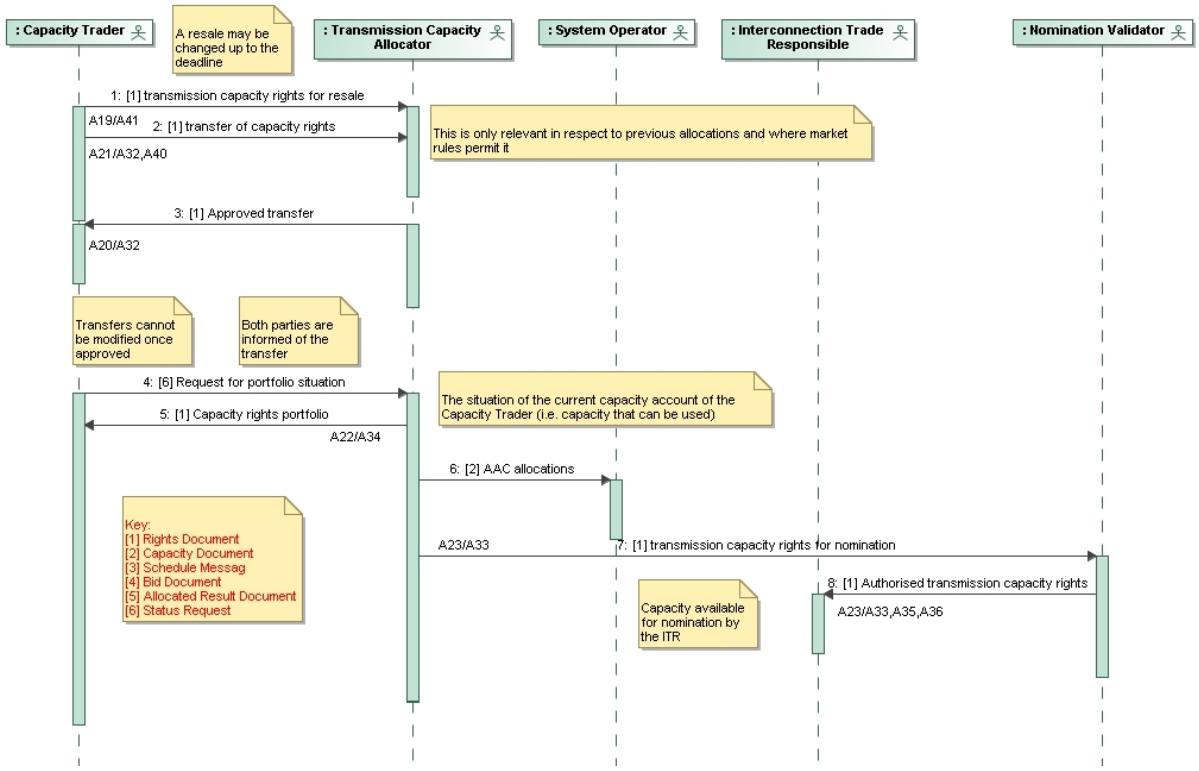

FIGURE 11: SECONDARY MARKET SEQUENCE DIAGRAM

A secondary market permits the trading of capacity rights between Capacity Traders. A Capacity Trader can either be an Interconnection Trade Responsible or have an identified Interconnection Trade Responsible. If there is no appointed Interconnection Trade Responsible then he cannot use the capacity in his own right. The Transmission Capacity Allocator must have knowledge of this. Three cases can be identified:

1. The resale of capacity rights (the capacity rights held by a Capacity Trader that are released to the Transmission Capacity Allocator for sale);
2. The transfer of capacity rights that have been sold (the capacity rights held by a Capacity Trader that have been transferred to another party).
3. The transfer of capacity rights for nomination purposes (the capacity rights held by a Capacity Trader that have been transferred to an Interconnection Trade Responsible to enable their nomination) (see section 5.1.5).

5.1.4.2 CAPACITY RIGHTS RESALE

The Capacity Trader may, dependent on local rules, release his transmission capacity rights that he has previously acquired prior to an auction. If the capacity is released to the Transmission Capacity Allocator sufficiently in advance the trader can benefit from its resale in the coming auction.

In a “use it or sell it” (UIOSI) model the Capacity Trader benefits from the resale of the capacity rights in a subsequent auction for the part of the capacity that was not nominated beforehand.

In a “use it or lose it” model (UIOLI) capacity not nominated is generally lost by the Capacity Trader.

5.1.4.3 CAPACITY RIGHTS TRANSFER

The Capacity Trader must prior to nomination inform the Transmission Capacity Allocator of any contractual changes (i.e. change of capacity rights holder) that might have occurred in respect to the capacity rights that he holds.

The Transmission Capacity Allocator confirms these changes to both the existing and new capacity rights holders.

5.1.4.4 CAPACITY RIGHTS PORTFOLIO

A Capacity Trader may request information concerning his capacity rights portfolio from the Transmission Capacity Allocator. Such a requirement may exist due to secondary market trading in which the Capacity trader was involved.

In order to obtain a snapshot of his capacity rights portfolio, the Capacity Trader may either use functionality provided by the Transmission Capacity Allocator or transmit a request to the Transmission Capacity Allocator asking for his situation. In the second case the ENTSO-E Status Request Document should be used.

5.1.4.5 FINAL ALLOCATION INFORMATION

The secondary market process terminates when the Transmission Capacity Allocator transmits to the System Operator the AAC that has been allocated for the period in question. This is transmitted through a Capacity document. The Transmission Capacity Allocator also informs the Nomination Validator of the detailed transmission capacity allocations for the period to be nominated. The information is sent to the Nomination Validator with a Rights Document.

5.1.5 DESIGNATE ITR FOR NOMINATION

In this process a Capacity Trader informs the Transmission Capacity Allocator of the Interconnection Trade Responsible that will carry out the nomination of transmission capacity rights on his behalf. This is necessary, if the Capacity Trader is not authorized to nominate the capacity on a border. The designation of the Interconnection Trade Responsible that will nominate the capacity is transmitted to the Transmission Capacity allocation with a Rights Document.

The Interconnection Trade Responsible is informed of this designation by the Capacity Trader. Informing the Interconnection Trade Responsible is not part of this guide.

5.1.6 NOMINATE AND VALIDATE TRADED CAPACITY

In this process an Interconnection Trade Responsible nominates to a Nomination Validator the energy supported by his capacity rights on a border. The Nomination Validator validates the nominations in respect to local market rules.

5.1.6.1 NOMINATE USE OF BORDER CAPACITY

Capacity rights have been acquired in the different auctions by the Capacity Traders, but responsibility of using that capacity lies with the Interconnection Trade Responsible. Consequently, in cases where the Capacity Trader has sold his allocated transmission rights, partially or completely, on a secondary market, or has bought capacity rights on behalf of an Interconnection Trade Responsible it is necessary that the Capacity Trader informs the Transmission Capacity Allocator. The Capacity Trader shall also keep informed the Interconnection Trade Responsible involved of the capacity that is planned for nomination.

The Nomination Validator receives the final allocations (capacity rights) from the Transmission Capacity Allocator, which identifies the Interconnection Trade Responsible parties authorised to nominate the capacity, and sends the authorised nomination capacity to the Interconnection Trade Responsibles in question.

A distinction has to be made between the Capacity Trader and the Interconnection Trade Responsible Roles. In essence the Capacity Trader has a contract with the Transmission Capacity Allocator and operates on capacity market and the Interconnection Trade Responsible has a contract with the Nomination Validator and with the System Operator and carries out cross border nominations. In many cases the same actor plays both roles.

As a basic principle if the Capacity Trader also plays the role of Interconnection Trade Responsible he does not need to inform the Transmission Capacity Allocator. If the Capacity Trader operates permanently on behalf of an Interconnection Trade Responsible he shall inform the Transmission Capacity Allocator to avoid the need to send this information after each auction.

Concerning the transmission of the rights to an Interconnection Trade Responsible, several possibilities exist:

1. The Capacity Trader was already an Interconnection Trade Responsible, in which case nothing need be done;
2. The Capacity Trader explicitly identifies one or more Interconnection Trade Responsible(s) to nominate his capacity;
3. The Capacity Trader transfers his rights to another Capacity Trader who is in his own right an Interconnection Trade Responsible.

If the Capacity Trader does not fit into one of the three above mentioned possibilities then at the time of nomination he will effectively lose his capacity rights (or be compensated if local market rules permit).

Depending on local market rules several types of capacity rights (e.g. yearly, monthly) could be aggregated into a single type of capacity right (e.g. long term). To prevent the improper use of such capacity rights the Transmission Capacity Allocator should assign a new Capacity Contract Identification for the long term rights for each day. This ensures that the Interconnection Trade Responsible will be unable to nominate unauthorised capacity rights.

Interconnection Trade Responsibles declare to the appropriate Nomination Validator the capacity they are going to use (long term, daily and intraday Nominations). The mechanisms to declare the use of the acquired capacity may vary from interconnection to interconnection (i.e. the capacity can be declared as the execution of an energy exchange program in the interconnection or by means of a specific capacity use declaration).

5.1.6.2 POSSIBILITY OF CURTAILMENT OF ALLOCATED CAPACITY

If in order to ensure network security, the System Operator found it necessary to curtail the transmission capacity rights from a previous auction, the System Operator informs the corresponding Transmission Capacity Allocator of the curtailment that will have to be imposed. The Transmission Capacity Allocator informs the Capacity Traders of the new curtailed transmission capacity rights.

The nomination process will then continue as explained in the previous section.

5.1.6.3 VALIDATE NOMINATIONS

The validation process for nominations may take place on one side or both sides of the border.

The Nomination Validator must check that the nominations from the Interconnection Trade Responsible parties do not exceed the amount of capacity that the Transmission Capacity Allocator has communicated. In the case that the nominations exceeded the amount of the capacity rights the Nomination Validator applies local market rules. Here are some possible reactions:

- The Nomination Validator rejects the nomination.
- The Nomination Validator sets the concerned capacity values to zero.
- The Nomination Validator modifies the concerned capacity values to the values of the capacity rights on a pro rata basis.

The time a validation can be carried out (directly after the nomination arrives or after gate closure) depends on the validation rules and which kind of Interconnection Trade Responsible relations are allowed on a border (single party, coupled, cross nomination).

In some cases the Nomination Validator needs the nominations from both sides of a border in order to carry out the validation to avoid potential errors when long term contract Interconnection Trade Responsible assignments have lapsed. Alternatively this could be avoided through the systematic renumbering by the Transmission Capacity Allocator of the contract identifications for the capacity to be used on a given day.

The Nomination Validator could inform the Interconnection Trade Responsible prior to gate closure whenever a validation problem has been identified.

5.1.6.4 INFORM SYSTEM OPERATOR OF NOMINATIONS

Valid Nominations are then sent to the System Operator by the Nomination Validator.

5.1.7 MATCH AND CONFIRM TRADE NOMINATIONS

The validated trade nominations submitted by the Interconnection Trade Responsible are matched via the SO - SO matching process and when correct they are confirmed.

5.1.7.1 MATCH NOMINATIONS BETWEEN SYSTEM OPERATORS

Regional matching rules are applied, for example, in the Continental Europe Regional area this process is carried out in compliance with the Continental Europe[2] Operation Handbook Policy 2 ESS implementation.

5.1.7.2 CONFIRM NOMINATIONS

After the nominations have been matched between System Operators each System Operator confirms nominations to the Interconnection Trade Responsible.

[2] Formally UCTE

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5.2 SEQUENCE DIAGRAM

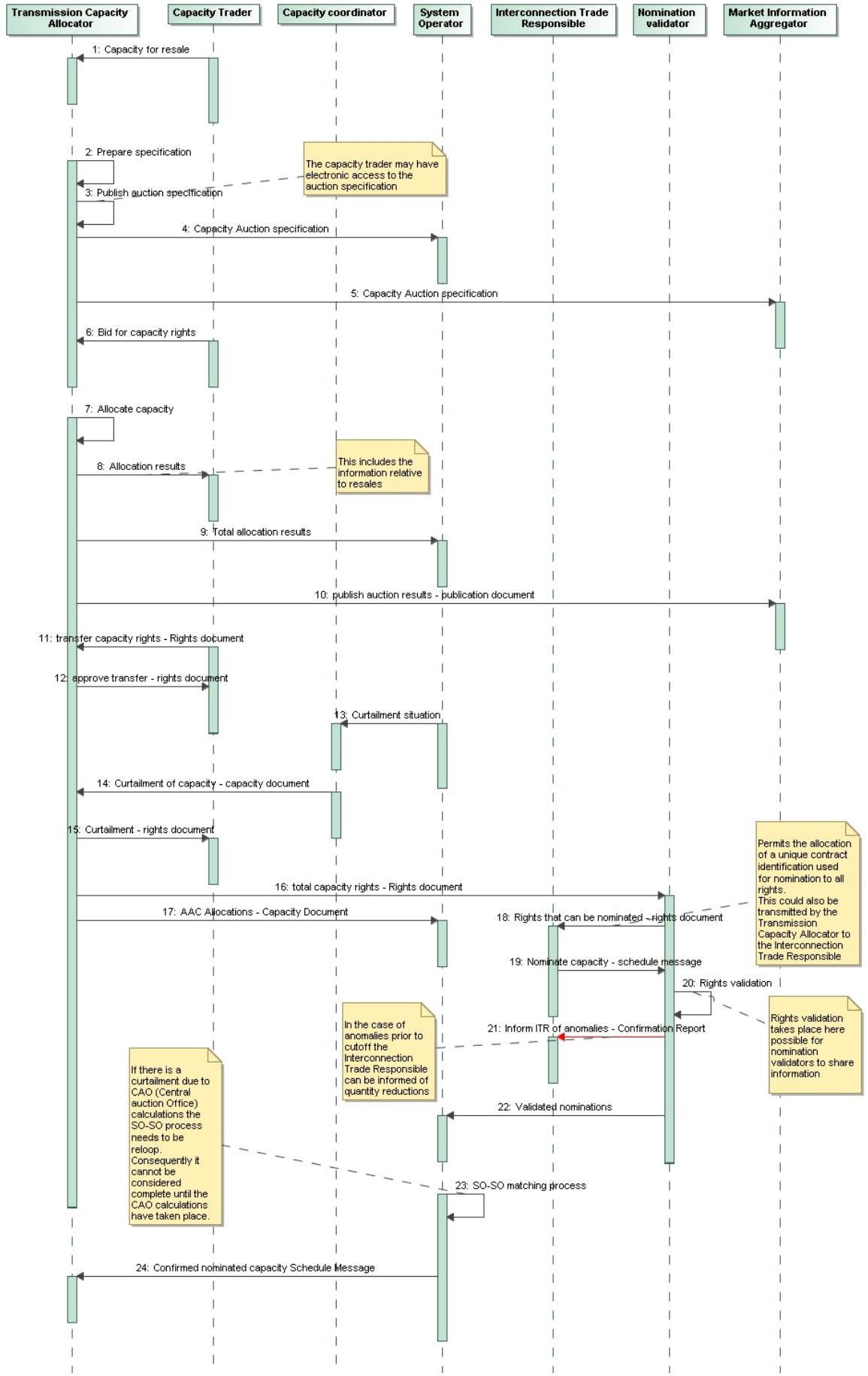
Transmission Capacity Allocator
Capacity Trader
Capacity coordinator
System Operator
Interconnection Trade Responsible
Nomination validator
Market Information Aggregator
1: Capacity for resale
2: Prepare specification
The capacity trader may have electronic access to the auction specification
3: Publish auction specification
4: Capacity Auction specification
5: Capacity Auction specification
6: Bid for capacity rights
7: Allocate capacity
8: Allocation results
This includes the information relative to resales
9: Total allocation results
10: publish auction results - publication document
11: transfer capacity rights - Rights document
12: approve transfer - rights document
13: Curtailment situation
14: Curtailment of capacity - capacity document
15: Curtailment - rights document
16: total capacity rights - Rights document
17: AAC Allocations - Capacity Document
18: Rights that can be nominated - rights document
Permits the allocation of a unique contract identification used for nomination to all rights.
This could also be transmitted by the Transmission Capacity Allocator to the Interconnection Trade Responsible
19: Nominate capacity - schedule message
20: Rights validation
Rights validation takes place here possible for nomination validators to share information
21: Inform ITR of anomalies - Confirmation Report
In the case of anomalies prior to cutoff the Interconnection Trade Responsible can be informed of quantity reductions
22: Validated nominations
If there is a curtailment due to CAO (Central auction Office) calculations the SO-SO process needs to be reloop. Consequently it cannot be considered complete until the CAO calculations have taken place.
23: SO-SO matching process
24: Confirmed nominated capacity Schedule Message

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FIGURE 12: EXPLICIT AUCTIONS SEQUENCE DIAGRAM

The sequence is initiated with the Capacity Traders indicating the capacity rights that are for resale. This is not mandatory but should a Capacity Trader wish to resell capacity rights then the Transmission Capacity Allocator has to be informed prior to the publication of the auction specification.

The Transmission Capacity Allocator prepares the auction specification with the information provided by the Capacity Coordinator and any Capacity rights that have been received for resale.

The auction specification is published by the Transmission Capacity Allocator and the System Operator and Market Information Aggregator are informed of its contents.

Capacity Traders that are registered with the Transmission Capacity Allocator bid for the different capacities that are available, submitting bids to the Transmission Capacity Allocator for the auction in question.

When the limit for bidding is reached the Transmission Capacity Allocator allocates the capacity rights that have been auctioned by applying local market defined rules.

The Transmission Capacity Allocator informs the Capacity Traders of the results of the auction, successful and unsuccessful bids including the amount of released transmission capacity rights that has been successfully sold during the auction (explicit resales), and provides the complete results to the System Operator.

Finally the Transmission Capacity allocator publishes the overall results and provides this information to the Market Information Aggregator.

Secondary trading may take place prior to the nomination process. The Capacity Traders have to inform the Transmission Capacity Allocator of all Capacity rights transfers. The transfers are duly approved by the Transmission Capacity Allocator.

If a Capacity Trader has not the right to nominate on a border he must inform the Transmission Capacity Allocator of the party that will nominate his capacity rights.

At any time in this process a System Operator may inform the Transmission Capacity Allocator of a situation that requires curtailment at a given border. The Transmission Capacity Allocator applies local market rules to the curtailment situation and informs the Capacity Traders of their revised rights for the border in question.

Prior to nomination, the Transmission Capacity allocator informs the System Operator and Nomination Validator of the capacity rights that may be nominated on a border.

Either the Nomination Validator or the Transmission Capacity Allocator informs the Interconnection Trade Responsible parties of the capacity rights that they may use for nomination.

The Interconnection Trade Responsible party nominates the capacity required for the border in question. The Nomination Validator ensures that capacity rights are not exceeded. In the case where too much capacity rights have been nominated the Nomination Validator informs the Interconnection Trade Responsible of the anomaly. The

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Interconnection Trade Responsible must take all necessary corrective action to bring the nomination values into line with the capacity rights.

When the validation cycle is finalised, the Nomination Validator informs the System Operator of all the validated nominations.

The System Operator then enters the System Operator to System Operator exchange process with his counterpart to ensure the coherence of the nominations on both sides of the border. In case of disagreement or not being able to exchange data, agreed System Operator rules will be applied.

At the completion of this matching, the Interconnection Trade Responsible parties are informed of the results and the Transmission Capacity Allocator is informed of the confirmed nominated capacity.

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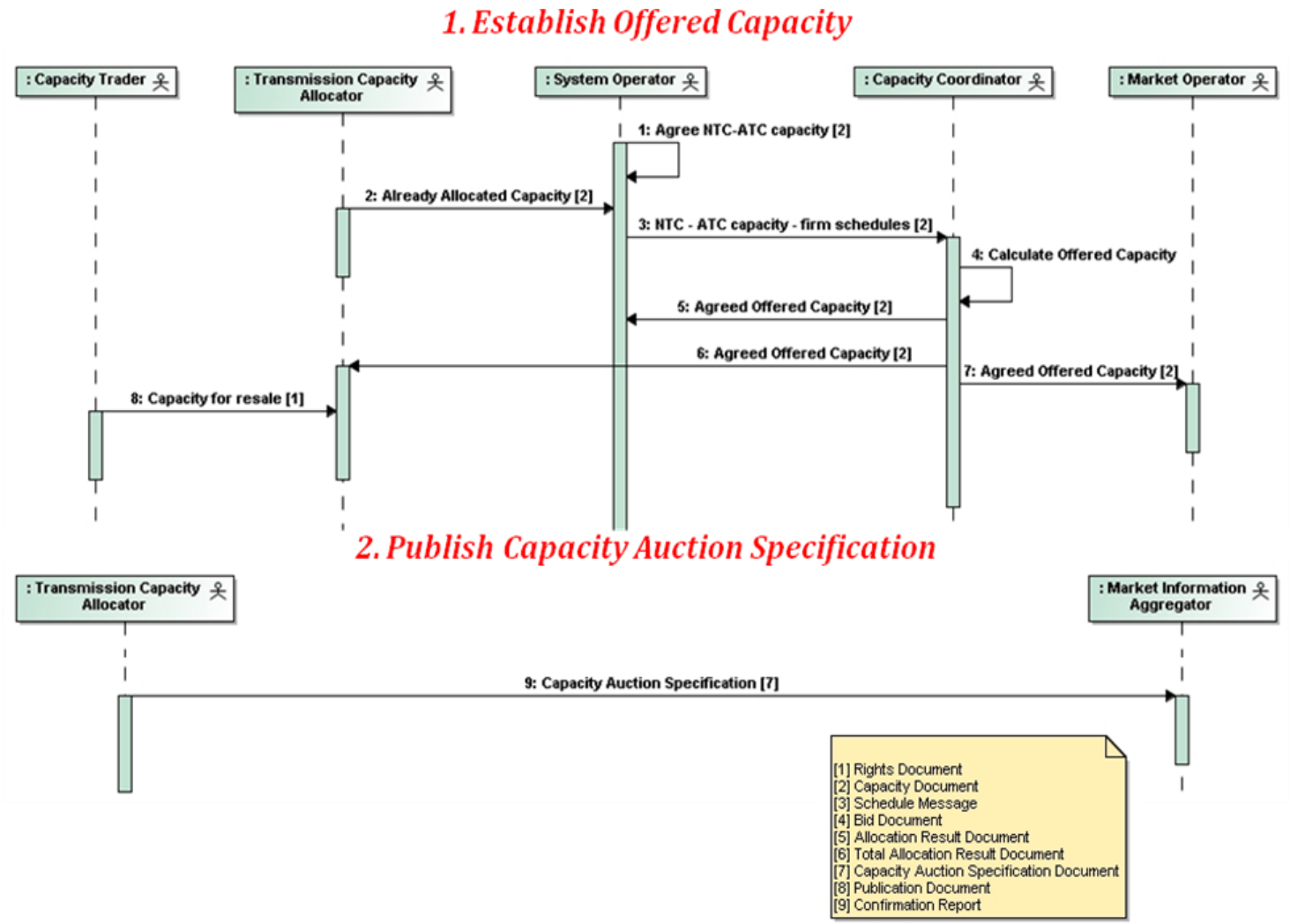

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FIGURE 13: SIMPLIFIED INFORMATION SEQUENCE FLOW – PERIODIC AUCTION SEQUENCE- A

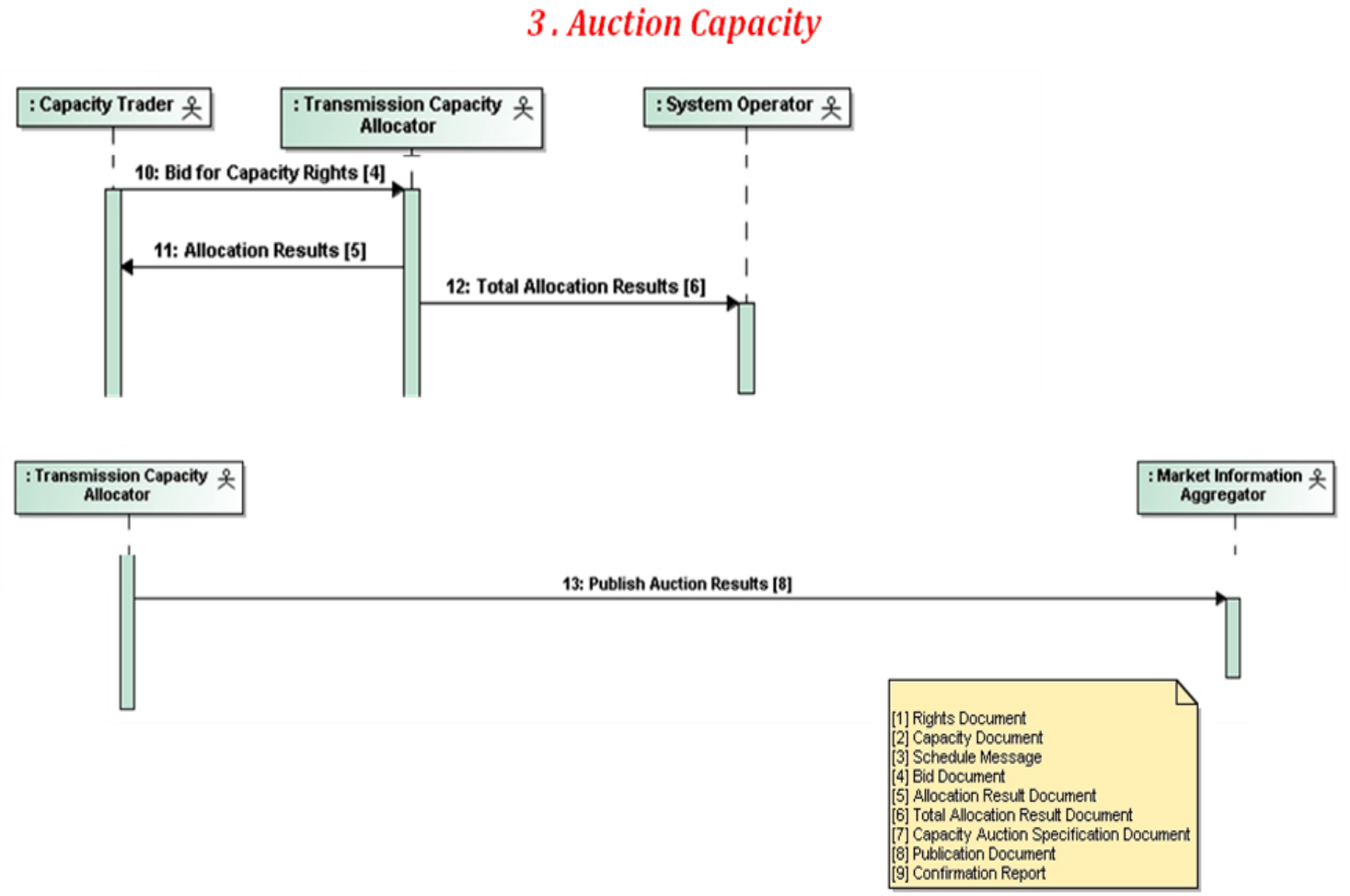

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FIGURE 14: SIMPLIFIED INFORMATION SEQUENCE FLOW – PERIODIC AUCTION SEQUENCE - B

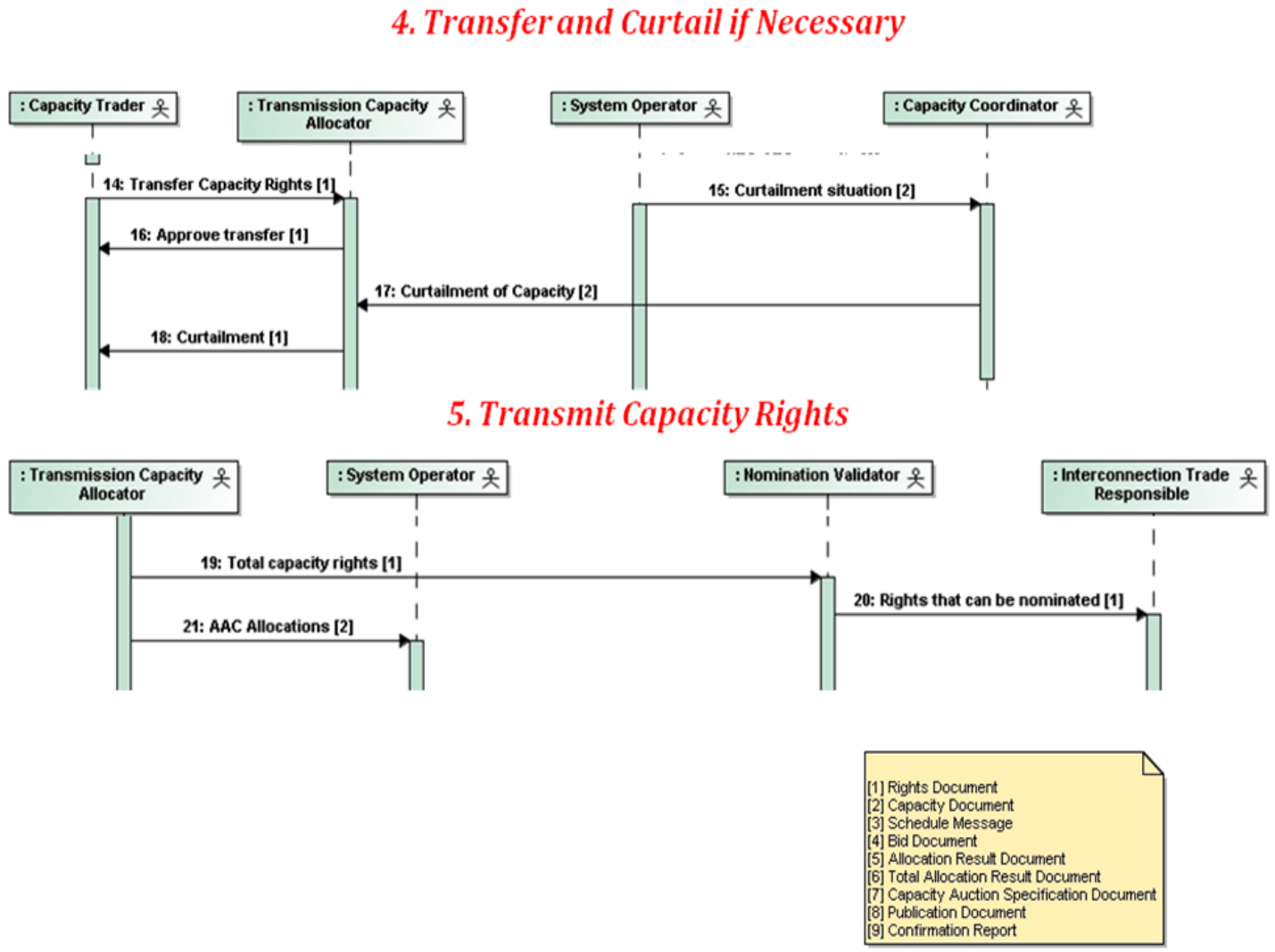

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FIGURE 15: SIMPLIFIED INFORMATION SEQUENCE FLOW – PERIODIC AUCTION SEQUENCE - C

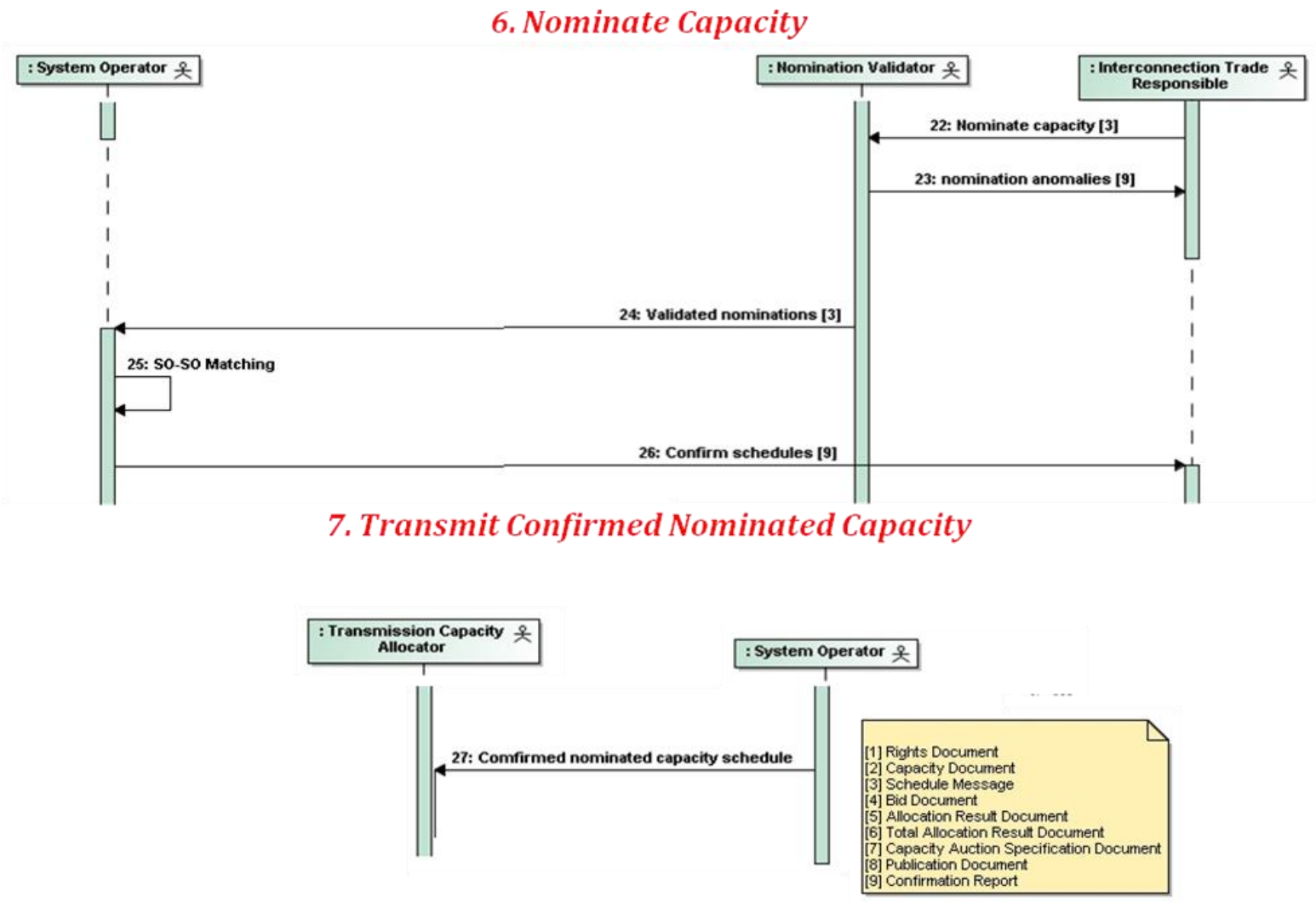

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FIGURE 16: SIMPLIFIED INFORMATION SEQUENCE FLOW – PERIODIC AUCTION SEQUENCE - D

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The sequence diagram shown in figures 13, 14, 15 and 16 provide a basic overview of the information requirements for the allocation of capacity through a periodic explicit auction.

Note:

The Capacity Trader is registered with the Transmission Capacity Allocator (commercial);

The Interconnection Trade Responsible is registered with the System Operator;

The Nomination Validator is provided with the complete list of the eligible Interconnection Trade Responsibles and Capacity Traders.

6 IMPLICIT AUCTIONS

6.1 USE CASE

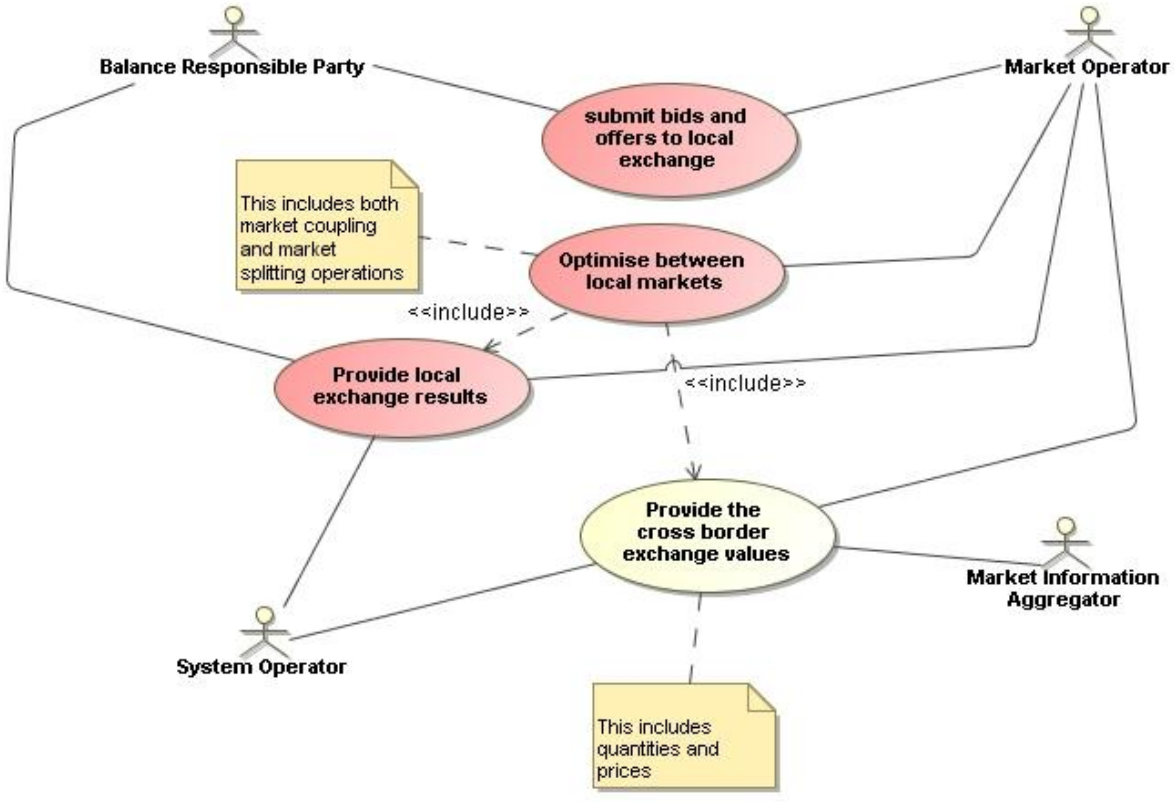

FIGURE 17: IMPLICIT AUCTION OVERVIEW

6.1.1 SUBMIT BIDS AND OFFERS TO LOCAL EXCHANGE

At first, local Market Operators collect bids and offers for energy trade on their own market area from Balance Responsible Parties.

6.1.2 OPTIMISE BETWEEN LOCAL MARKETS

At this stage, a specific Market Operator – who is responsible for market coordination activities – will use inputs from the System Operator (Offered Capacity) and the markets (list of bids and offers) to establish power flows through the interconnection(s) and the market prices for each price zone. When a price difference between two market areas exists it represents the value of the congested capacity - i.e. the auction income.

Different optimisations between markets exist such as market coupling and market splitting.

6.1.3 PROVIDE LOCAL EXCHANGE RESULTS

This is the process where the market participants are informed of the local exchange results. A Balance Responsible Party does not know from which area the energy provided comes.

6.1.4 PROVIDE THE CROSS BORDER EXCHANGE VALUES

In parallel to the previous process, System Operators are informed of the cross border exchanges that have to be put in place to optimise market coordination. This will enable them to proceed to SO-SO matching activities.

Cross border power flows are also communicated to the Market Information Aggregator.

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6.2 SEQUENCE DIAGRAM

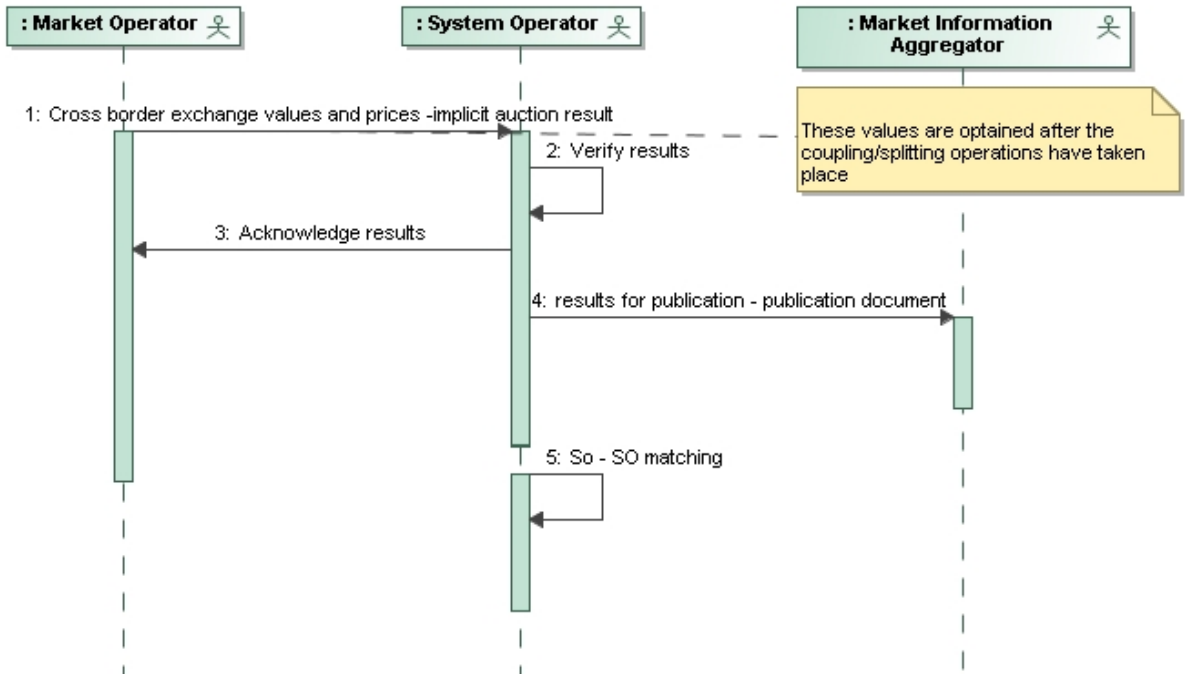

FIGURE 18: IMPLICIT AUCTION SEQUENCE DIAGRAM

The market coordination activities are outside the scope of this Implementation Guide. Therefore, only dataflows between the Market Operator in charge of coordination and System Operators / Market Information Aggregator at the very end of the implicit auction use case are represented here.

The Market Operator first sends an implicit auction result document to the System Operator which contains the cross border exchange values and the associated prices.

System Operators check the results for consistency (e.g. ensuring the power flows respect network security constraints) and acknowledgement of the results is then sent back to the Market Operator (acknowledgement document).

The System Operators are responsible for communicating the results to the Market Information Aggregator.

After the implicit process has finished, the SO-SO matching process takes place, where applicable, between System Operators to ensure that the schedules on the border are matched.

6.3 WORKFLOW

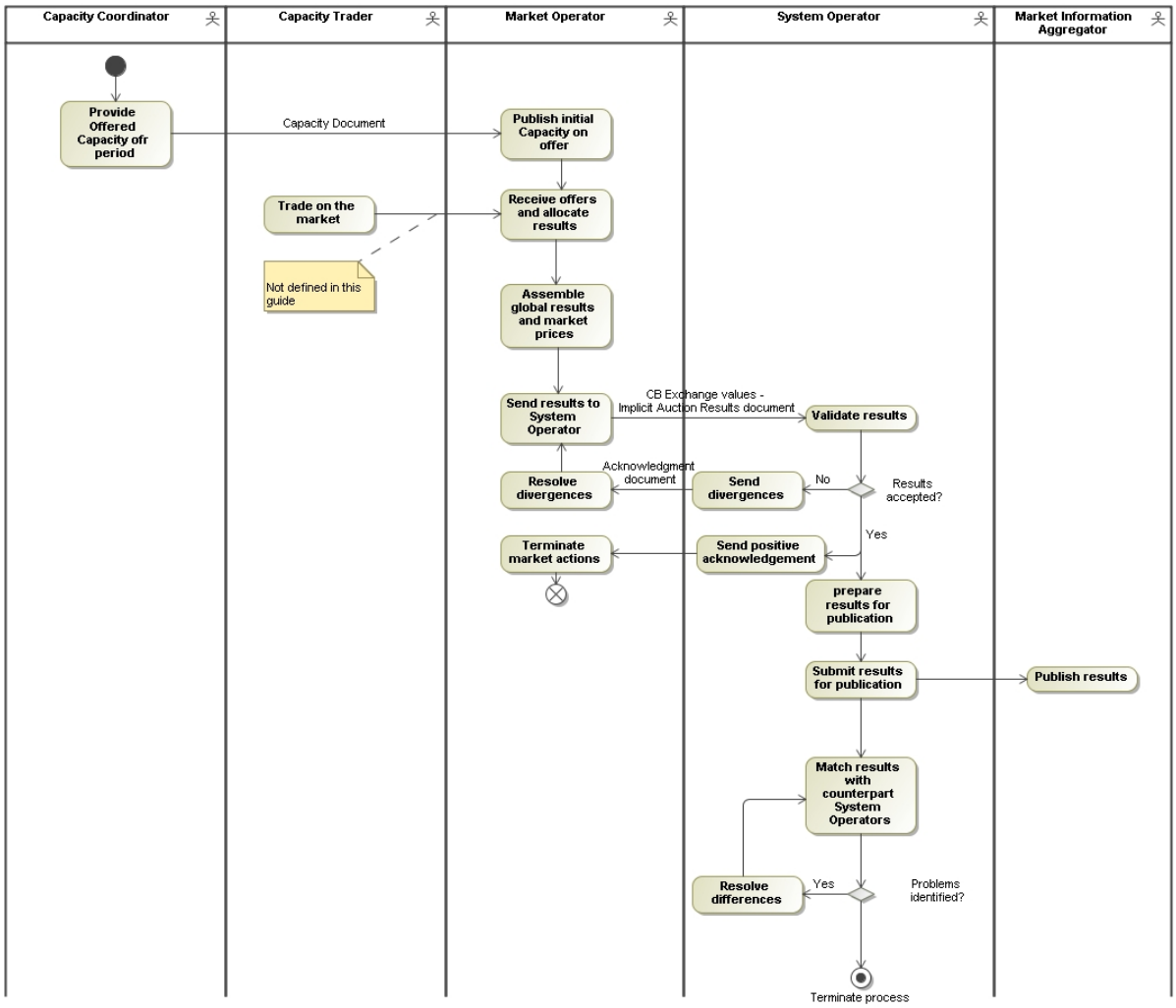

FIGURE 19: IMPLICIT AUCTION WORKFLOW

Initial Offered Capacity for Cross Border exchanges for a given period is provided by the Capacity Coordinator. This information is provided to the Traders for sale.

The Traders buy and sell through the Market Operator the energy that is required for the period. At the end of the market, the Market Operator assembles the cross border information together and transmits the information to the System Operator with an Implicit Auction results document.

The System Operator verifies the consistency of the information provided and ensures that the power flows are within the network security constraints. The System Operator acknowledges that the information is satisfactory through the transmission of an Acknowledgement Document. In the case of problems the system Operator transmits a negative Acknowledgement document to the Market Operator and then takes the necessary action in cooperation with the Market Operator to resolve the issue.

Once the information provided is deemed valid the System Operator transmits the results of the implicit auction to the Market Information Aggregator with a Publication Document.

The System Operator contacts the neighbouring System Operators and validates the cross border flows through the System Operator to System Operator validation process.

7 ACKNOWLEDGEMENT PROCESS REQUIRED FOR ECAN TRANSMISSIONS

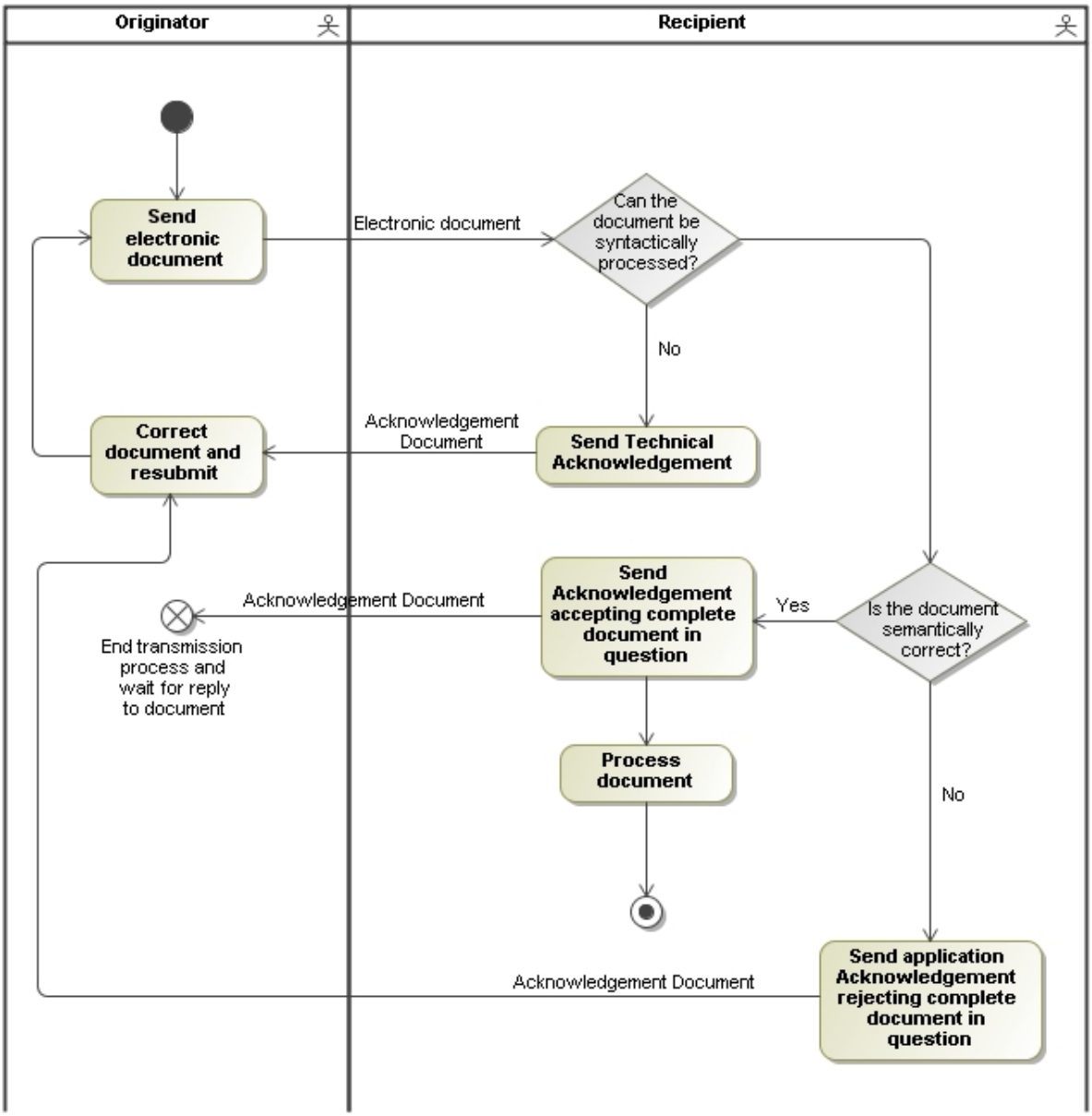

FIGURE 20: ACKNOWLEDGEMENT PROCESS

With the transmission of all electronic documents defined in the ECAN process, with the exception of those sent to the Capacity Trader or the Interconnection Trade Responsible, an application acknowledgement is required. An acknowledgement is not required as the documents sent to the Capacity Trader and the Interconnection Trade Responsible are considered received and formally correct thus not affecting the overall process.

When a document is received it will be verified at the application level to ensure that there are no faults in it that could prevent its correct processing.

A document that is valid after this verification shall necessitate the generation of an ENTSO-E Acknowledgement document accepting in its entirety the document in question.

A document that has an error in it shall necessitate the generation of an ENTSO-E Acknowledgement document that completely rejects the document in question.

This acknowledgment sequence is not described in the following information flows, but it shall be considered an integral part of each transmission.

Note: The Acknowledgement document should be at least from version 5.0. It can be downloaded from the ENTSO-E website (www.entsoe.eu).

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8 DOCUMENT MODELS

8.1 CAPACITY DOCUMENT

8.1.1 INFORMATION MODEL

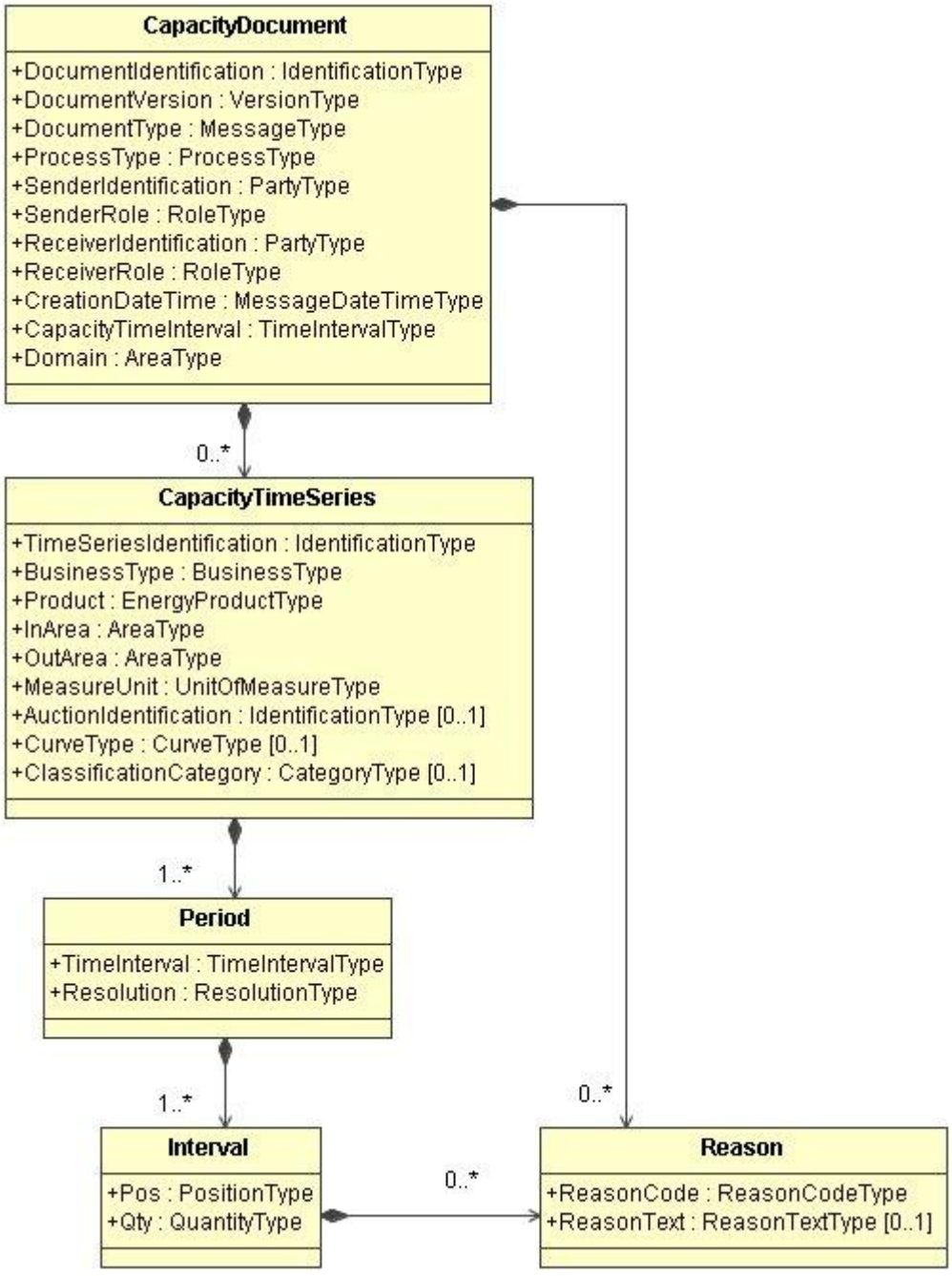

FIGURE 21: CAPACITY DOCUMENT MODEL

8.1.2 RULES GOVERNING THE CAPACITY DOCUMENT CLASS

The following dependency table describes the relationship between the codes of the different key attributes:

Document Type	Agreed Capacity (A31) or Proposed capacity (A32)			Interconnection Capacity (A13)		Interconnection capacity (A13)
Process Type	Capacity determination (A15)					Capacity allocation (A07)
From	SO or CC or TCA			TCA		SO or TCA
To	SO or CC or TCA			SO		SO or TCA
Business Type	Offered capacity (A31)	NTC (A27)	ATC (A26)	AAC (A29)	Released AAC (A41)	General capacity information (A25)
Reason Code	Curtailment (A70)					

Note: the Business Type “General Capacity Information” is a generic type for the identification of a time series that provides the total capacity available on a TSO border.

In some cases which depend on market rules it may be possible to use the Reason code “Curtailment” with other time series.

8.1.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document for which the time series data is being supplied.
Description	A Capacity Document for a given set of time series and a given period must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions for the time series and bid period must use the same identification.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1180 **8.1.2.2 DOCUMENTVERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a time series set. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1181 **8.1.2.3 DOCUMENTTYPE**

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	The document type identifies the information flow characteristics. The initial code to be used is: A13: Interconnection capacity A31: Agreed capacity A32: Proposed capacity **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The document type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

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1182 #### 8.1.2.4 PROCESSTYPE

ACTION	DESCRIPTION
Definition of element	The nature of the process that the document is directed at.
Description	The process type identifies the process to which the information flow is directed. Codes that may be used in this document: A07: Capacity allocation A15: Capacity determination **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The process type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

1183 #### 8.1.2.5 SENDERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is the owner of the document and is responsible for its content.
Description	The sender of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document and who is responsible for its content. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1184 #### 8.1.2.6 SENDERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1185 #### 8.1.2.7 RECEIVERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

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1186 #### 8.1.2.8 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1187 #### 8.1.2.9 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1188 #### 8.1.2.10 CAPACITYTIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period covered by the document.
Description	This information provides the start and end date and time of the capacity period. The receiver will discard any time intervals outside the capacity period.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

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1189 **8.1.2.11 DOMAIN - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The domain covered within the Capacity Document.
Description	The identification of the domain that is covered in the Capacity Document. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

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8.1.3 RULES GOVERNING THE CAPACITY TIME SERIES CLASS

8.1.3.1 TIMESERIESIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Sender's identification of the time series instance that uniquely identifies the Capacity time series.
Description	A unique identification of the time series assigned by the sender.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.1.3.2 BUSINESSTYPE

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series for which the product is handled. Codes that may be used in this document: A31: Offered Capacity A25: General capacity information A26: Available Transfer Capacity (ATC) A27: Net Transfer Capacity (NTC) A29: Already Allocated Capacity (AAC) A41: Released AAC **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1193 #### 8.1.3.3 PRODUCT

ACTION	DESCRIPTION
Definition of element	Identification of an energy product such as Power, energy, reactive power, transport capacity, etc.
Description	This identifies the product for which the time series is reporting. There is a different time series for each product **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 13 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1194 #### 8.1.3.4 INAREA – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is destined. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1195 #### 8.1.3.5 OUTAREA – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy is coming from. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1196 **8.1.3.6 MEASUREUNIT**

ACTION	DESCRIPTION
Definition of element	The unit of measure that is applied to the quantities in which the time series is expressed.
Description	The unit if measurement used for the quantities expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1197 **8.1.3.7 AUCTIONIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The identification of a set of specifications created by the auction operator.
Description	A unique identification of the set of specifications that clearly identify the auction to which the capacity is addressed..
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Local market rules may require this identification.

1198 **8.1.3.8 CURVETYPE**

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

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1199 **8.1.3.9 CLASSIFICATIONCATEGORY**

ACTION	DESCRIPTION
Definition of element	The category under which the capacity is classified.
Description	The classification category identifies the type of capacity that is being communicated in respect to a given time period. The current list of codes identified for use are: A01: Base A02: Peak A03: Offpeak **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	A Classification Category is only provided if the capacity values relate to a specific category or time period.

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8.1.4 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period shall be within the complete capacity time interval. The sum of the periods shall form the union of the complete capacity time interval.

The number of periods within a time series as characterized by the resolution must completely cover the period's time interval.

A senders minimal resolution must respect market rules.

8.1.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.1.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.1.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities associated with that position.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.1.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within an interval.
Description	This information provides the relative position of a period within an interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

8.1.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity that represents the capacity for the interval in question
Description	This information defines the quantity that represents the capacity for the interval in question and that is expressed in the Measurement Unit. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

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8.1.6 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe the conditions of the capacity that is defined. In general the Reason class is only used to identify a period where a curtailment has been carried out.

8.1.6.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the status of the capacity. Currently the following status has been identified: A70: curtailment A97: Force Majeur curtailment A98: Network security curtailment
Description	The reason code provides the status of the capacity identified. As many reason elements as necessary may be used.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is at the interval level to provide related explanatory information.

8.1.6.2 REASONTEXT

ACTION	DESCRIPTION
Definition of element	Additional textual information providing an additional explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of the allocation then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an error.

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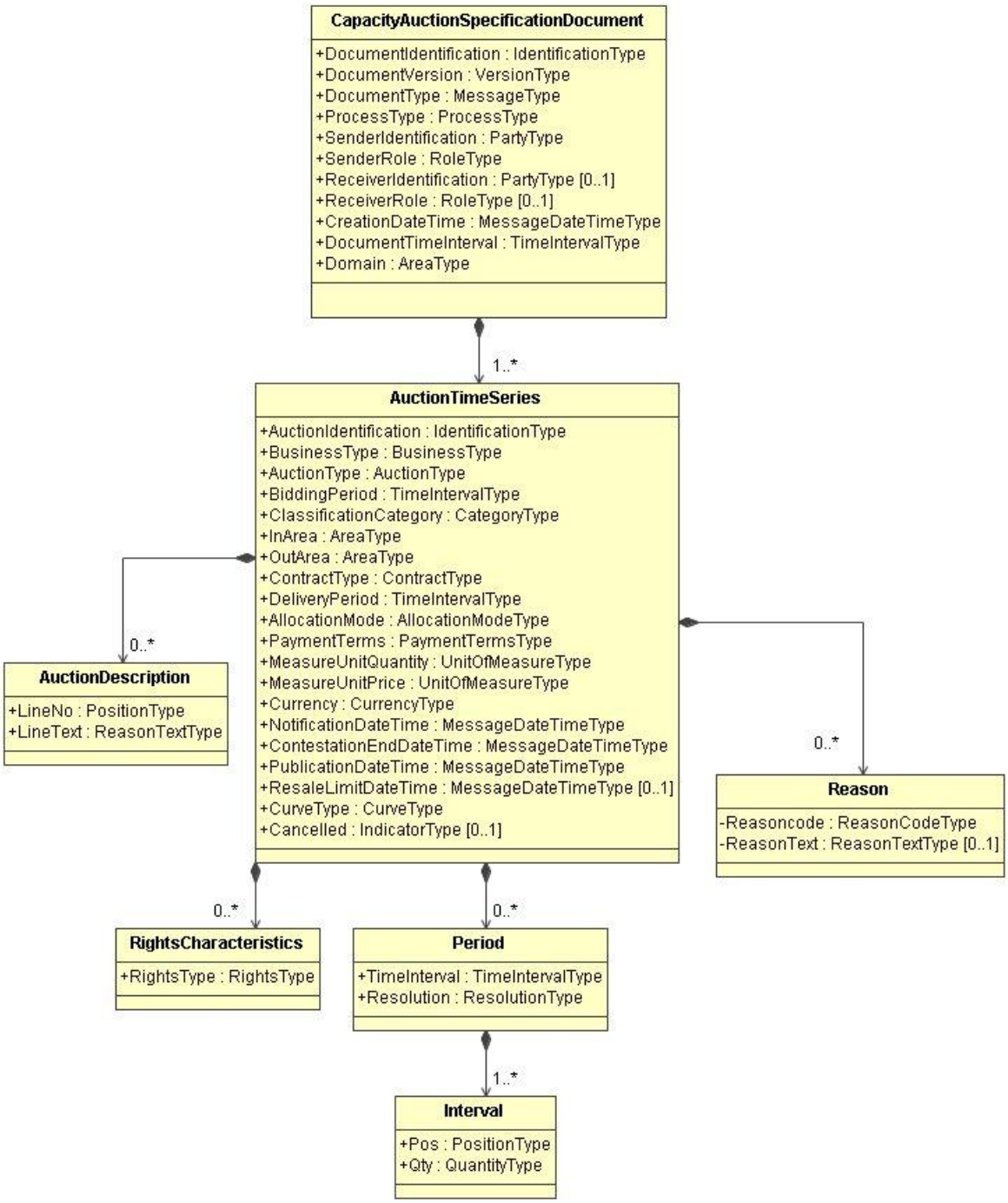
1225 ## 8.2 CAPACITY AUCTION SPECIFICATION

1226 ### 8.2.1 INFORMATION MODEL

1227



1228

1229 **FIGURE 22: THE AUCTION SPECIFICATION MODEL**

8.2.2 RULES GOVERNING THE CAPACITY AUCTION SPECIFICATION DOCUMENT IMPLEMENTATION

8.2.2.1 INTRODUCTION

A Capacity Auction Specification Document is issued by the Transmission Capacity Allocator to all market parties interested in the reception of such information.

8.2.2.2 CAPACITY AUCTION SPECIFICATION DOCUMENT CLASS SPECIFICATIONS

The DocumentTimeInterval shall be equal to the period covered by the complete TimeInterval in the dependent Periods of each AuctionTimeSeries.

8.2.2.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the Capacity Auction Specification Document.
Description	Each Capacity Auction Specification Document is allocated a unique identification by the sender.
Size	The identification of a Capacity Auction Specification Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.2.2 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of an Capacity Auction Specification Document and is used in the case of possible erroneous transmissions. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1240 **8.2.2.2.3 DOCUMENTTYPE**

ACTION	DESCRIPTION
Definition of element	The coded type of the Capacity Auction Specification Document being sent.
Description	The Capacity Auction Specification Document type identifies the type of the Auction Specification being sent. Initial codes defined for this application are: A51: Capacity Auction Specification document **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The Capacity Auction Specification Document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1241 **8.2.2.2.4 PROCESSTYPE**

ACTION	DESCRIPTION
Definition of element	The nature of the process that the document is directed at.
Description	The process type identifies the process to which the information flow is directed. Codes that may be used in this document: A07: Capacity allocation **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The Capacity Auction Specification Document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1242 **8.2.2.2.5 SENDERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is sending the Capacity Auction Specification Document.
Description	The sender of the Capacity Auction Specification Document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1243 **8.2.2.2.6 SENDERROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the context of the transaction for which the document is being made. Initial codes defined for this application are: A07: Transmission Capacity Allocator **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1244 **8.2.2.2.7 RECEIVERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the Capacity Auction Specification Document.
Description	The receiver of the Capacity Auction Specification Document is identified by a unique coded identification. In the case of general distribution the Receiver Identification shall not be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	Used only in the case where a document is sent to a specific party.

8.2.2.2.8 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver concerning the document. Initial codes defined for this application are: A04: System Operator A29: Capacity Trader A32: Market Information Aggregator **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if a specific party has been identified.

8.2.2.2.9 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of transmission of the Capacity Auction Specification Document.
Description	The date and time that the Capacity Auction Specification Document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.2.10 DOCUMENTTIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period that the capacity auctions are covering.
Description	This information provides the start and end date and time covered by capacity auctions within the Capacity Auction Specification Document.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1248 #### 8.2.2.2.11 DOMAIN - CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The domain covered within the Capacity Auction Specification Document.
Description	The identification of the domain that is covered in the Capacity Auction Specification Document. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1249 ### 8.2.2.3 RULES GOVERNING THE AUCTION TIME SERIES CLASS

1250 #### 8.2.2.3.1 AUCTIONIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification attributed by the auction office that uniquely identifies the auction.
Description	A unique identification of the auction given by the auction office.
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1251 #### 8.2.2.3.2 BUSINESSTYPE

ACTION	DESCRIPTION
Definition of element	The identification of the nature of the time series.
Description	The nature of the time series for which the product is handled. The initial codes defined for this application are: A31: Offered capacity
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1252 **8.2.2.3.3 AUCTIONTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the type of auction being defined.
Description	The type of the auction being defined. The initial codes defined for this application are: A01: Implicit – capacity rights and energy A02: Explicit – capacity rights only **Refer to ENTSO-E Core Component Code list document for valid Auction Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1253 **8.2.2.3.4 BIDDINGPERIOD**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the bidding period within which Capacity Traders can submit a bid to the Transmission Capacity Allocator.
Description	This information provides the start and end date and time of the bidding period of the Auction.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1254 **8.2.2.3.5 CLASSIFICATIONCATEGORY**

ACTION	DESCRIPTION
Definition of element	The category of the product as defined by market rules.
Description	This information provides the basic category of the auction and describes what hours of the day are being auctioned. The following codes have been initially defined: A01: Base A02: Peak A03: Off-peak A04: Hourly **Refer to ENTSO-E Core Component Code list document for valid Classification Category codes.**
Size	The classification category value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

1255 **8.2.2.3.6 IN AREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is destined. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1256 **8.2.2.3.7 OUT AREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy is coming from. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

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8.2.2.3.8 CONTRACTTYPE

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the capacity will be allocated.
Description	This information defines the conditions under which the capacity was allocated and handled. A01 = Daily auction A02 = Weekly auction A03 = Monthly auction A08 = Quarterly auction A04 = Yearly auction A07 = Intraday auction A09 = Semestrial auction A10 = Multiple year auction **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None.

8.2.2.3.9 DELIVERYPERIOD

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period when the capacity is to be used.
Description	This information provides the start and end date and time when the capacity is to be used, i.e. the period to which the capacity rights apply.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1259 **8.2.2.3.10 ALLOCATIONMODE**

ACTION	DESCRIPTION
Definition of element	The mode under which the allocation will be provided.
Description	This information defines how the capacity will be allocated to the bidders. This basically defines how to order the bids in the allocation process. A01 = Order by price with pro rata A02 = Order by price with first come – first served A03 = First come – First served A04 = Pro rata **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1260 **8.2.2.3.11 PAYMENTTERMS**

ACTION	DESCRIPTION
Definition of element	The terms which dictate the determination of the bid payment price.
Description	This information defines how the capacity price is established. A01 = Pay as bid A02 = Pay as cleared A03 = No payment terms **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1261 **8.2.2.3.12 MEASUREUNITQUANTITY**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the quantities in the time series are expressed.
Description	The unit if measurement used for the quantities expressed within the time series. It is recommended that this be always expressed in megawatts (code MAW) **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.

Dependence requirements	None.

1262 **8.2.2.3.13 MEASUREUNITPRICE**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the prices in the auction bids are to be expressed.
Description	The unit if measurement that is to be used for the prices per quantity expressed in the bids. It is recommended that this be always expressed in megawatt hours (code MWH) **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1263 **8.2.2.3.14 CURRENCY**

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is mandatory.
Dependence requirements	None.

1264 **8.2.2.3.15 NOTIFICATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time before the contestation period for notification of the participants
Description	The date and time that the participants will be notified of the results prior to the contestation period. The Notification Date and Time is the date and time where the initial notification is provided to the market.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1265 **8.2.2.3.16 CONTESTATIONENDDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time after which contestations of auction results by a Capacity Trader will no longer be accepted.
Description	The period in which contestations may be provided starts with the Notification Date Time and ends with the Contestation End Date Time. If there is no possibility of contestation both dates and times must be the same.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1266 **8.2.2.3.17 PUBLICATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time when the publication will occur.
Description	The date and time that the final auction results will be published to the market after the contestation period.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1267 **8.2.2.3.18 RESALELIMITDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time defining the limit for the resale of capacity rights from previous auctions for sale in this auction.
Description	The date and time where the resale of capacity rights acquired in previous auctions for this auction will no longer be acceptable.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is dependent.
Dependence requirements	The Resale limit date can be provided if local market rules permit a Capacity Trader to target a specific auction to sell previously acquired rights prior to an auction.

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1268 **8.2.2.3.19 CURVETYPE**

ACTION	DESCRIPTION
Definition of element	The type of curve being defined in the time series.
Description	The type of curve being defined in the time series. Initial codes defined for this application are: A01 = Sequential fixed sized blocks (default). A03 = Variable sized Blocks **Refer to ENTSO-E Core Component Code list document for valid codes.** The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1269 **8.2.2.3.20 CANCELLED**

ACTION	DESCRIPTION
Definition of element	An indicator that signifies that an auction has been cancelled.
Description	The indication that an auction has been cancelled. The code for the indicator is as follows: A01 =Yes – the auction has been cancelled
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	If an auction has been cancelled this attribute shall be specified.

8.2.2.4 RULES GOVERNING THE PERIOD CLASS

There may be zero to several period classes for a time series. No time series Period classes are required in the case of the cancellation of an auction or if the Offered capacity is not known at the time of publication. The overall time interval covered by the period classes shall be within the Auction Specification Time Interval. The Intervals within a time series as characterized by the Resolution and CurveType must completely cover the Period's time interval. The use of gaps (i.e. several disjoint periods) shall follow the recommendation as described in document [2] "Time series representations within ENTSO-E electronic documents".

8.2.2.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

1281 ### 8.2.2.5 RULES GOVERNING THE INTERVAL CLASS

1282 The interval class contains the relative position within a time interval period and the
1283 quantities associated with that position.

1284 Any leading zeros in a position shall be suppressed.

1285 Negative values are not allowed in time series quantities.

1286 Leading zeros in a quantity shall be suppressed before transmission.

1287 #### 8.2.2.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within an interval.
Description	This information provides the relative position of a period within an interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

1288 #### 8.2.2.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity to be auctioned for the interval in question.
Description	This information defines the quantity to be auctioned for the interval in question. The quantity is expressed in units respecting the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.6 RULES GOVERNING THE AUCTION DESCRIPTION CLASS

The Auction Description class provides the textual description of the auction and its market rules to clarify information that is not formally defined (e.g. the time constraints for a peak product).

8.2.2.6.1 LINENO

ACTION	DESCRIPTION
Definition of element	An attribute defining the number of a line within a textual description.
Description	The Line Number provides the identification each line within the textual description of an auction.
Size	The maximum length of this information is 5 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.6.2 LINETEXT

ACTION	DESCRIPTION
Definition of element	The textual content of a line.
Description	This provides the textual content of a line within a description.
Size	The maximum length of this information is 70 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.7 RULES GOVERNING THE RIGHTS CHARACTERISTICS CLASS

The Rights Characteristics class may provide the coded characteristics of the rights type used in the auction

8.2.2.7.1 RIGHTSTYPE

ACTION	DESCRIPTION
Definition of element	The definition of the type of the rights that are to be auctioned.
Description	The Rights Type provides the type of the rights that are being auctioned. The following codes have currently been identified: A01 = Use it or lose it A02 = Use it or sell it A03 = Allocation curtailment possible A04 = Nomination curtailment possible A05 = Resale possible A06 = Transfer possible **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.2.2.8 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe a change to the auction specification or its eventual cancellation.

8.2.2.8.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the information in respect to a change or cancellation of an auction.
Description	The reason code provides the reason for an auction specification change. As many reason elements as necessary may be used. **Refer to ENTSO-E Core Components (ECC) specification for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1303 **8.2.2.8.2 REASONTEXT**

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of the modification then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify a modification to the auction specification.

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8.3 BID DOCUMENT

8.3.1 INFORMATION MODEL

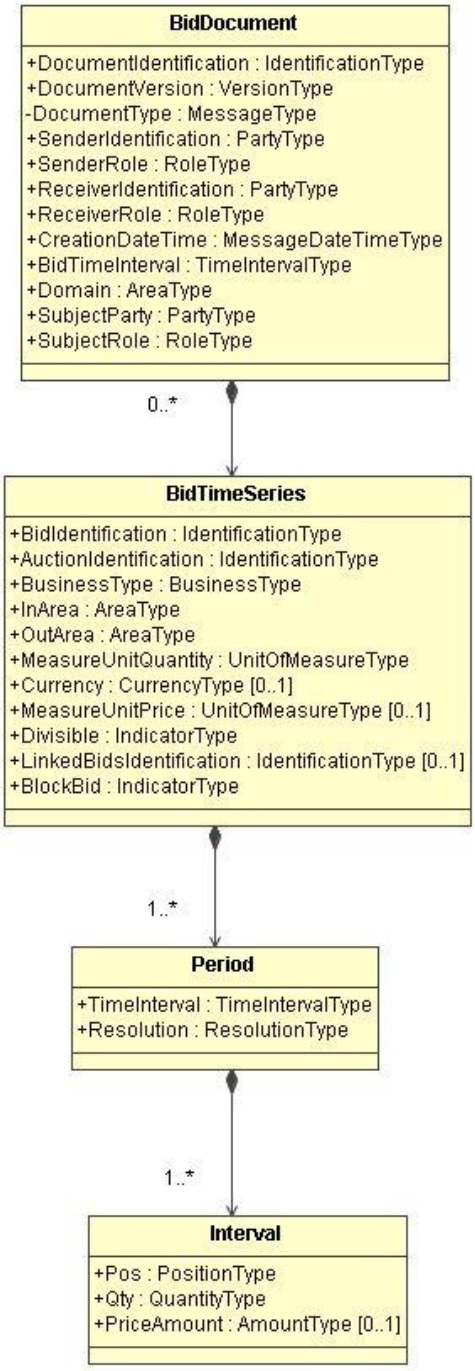

FIGURE 23: BID DOCUMENT MODEL

Note: Bids for a quantity superior to the Offered Capacity may, depending on market rules, be cut to the quantity of the Offered Capacity.

8.3.2 RULES GOVERNING THE BID DOCUMENT CLASS

A bid document contains a set of bids (a bid is represented by a time series).

There may be several bids submitted by the Sender for the same bid period and subject party (Capacity Trader).

To cancel a complete set of bids the bid document is resubmit with a new version number but no time series under it.

There can only be one sender for a given subject party.

A bid document can only be for only one subject party.

A bid document received with the same document identification and document version as an existing bid document shall be rejected.

The last version of a bid document with the same document identification shall constitute the last valid bid for the document in question.

8.3.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document for which the time series data is being supplied.
Description	A Bid Document for a given set of time series and a given bid period must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions for the time series and bid period must use the same identification.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

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1323 #### 8.3.2.2 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a time series set for a given bid period. 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 .
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1324 #### 8.3.2.3 DOCUMENTTYPE

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	The document type identifies the information flow characteristics. The initial code to be used is: A24: Bid Document **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The document type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

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8.3.2.4 SENDERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is the owner of the document and is responsible for its content.
Description	The sender of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document and who is responsible for its content. In general this identifies the bidder or its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

8.3.2.5 SENDERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. This may correspond to a role that sends bids on behalf of another Capacity Trader. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1327 #### 8.3.2.6 RECEIVERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. In general this identifies the auction office or its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1328 #### 8.3.2.7 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1329 #### 8.3.2.8 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1330 **8.3.2.9 BIDTIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period covered by the document.
Description	This information provides the start and end date and time of the bid period. The receiver will discard any time intervals outside the bid period.
Size	The start and end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1331 **8.3.2.10 DOMAIN -CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The domain covered within the bid Document.
Description	The identification of the domain that is covered in the bid Document. This covers what auction identifications may be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

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1332 8.3.2.11 SUBJECTPARTY – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The Party for whom the bid is being submitted.
Description	The party that is the Capacity Trader for whom the bids are being submitted. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1333 8.3.2.12 SUBJECTROLE

ACTION	DESCRIPTION
Definition of element	The Role of the Subject Party.
Description	The Role of the Subject Party. In this current implementation of ECAN the role shall always be A29, Capacity Trader.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.3.3 RULES GOVERNING THE BID TIME SERIES CLASS

Each time series within a document is considered a bid within this specification. The Bid Identification that the bidder assigns is the unique identification of the bid for a given Auction Identification (a bid is composed by N discrete Intervals).

Dependency table concerning the bid indicators:

Situations possible	1	2	3	4	Default
Divisible *(possible values)*	NO	NO	YES	YES	YES
Linked Bids Identification *(attribute used or not)*	Used	Not used	Not used	Not applicable	Not used
Block Bid *(possible values)*	YES	YES	NO	Not applicable	NO

Note: "not used" signifies that the attribute cannot be used. "Not applicable" signifies that the attributes in question to not apply to the dependency case.

For example: a LinkedBidIdentification could only contain an identification where Divisable was "NO" and a BlockedBid was "YES". In all other cases it could not contain an identification.

8.3.3.1 BIDIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification attributed by the sender that uniquely identifies the bid. This must be unique for over time and guarantee the non-duplication of bid for the sender in future bids.
Description	A unique identification of the bid assigned by the sender. This corresponds to a single bid.
Size	The maximum size of a bid identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

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1345 **8.3.3.2 AUCTIONIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The identification linking the bid to a set of specifications created by the auction operator.
Description	A unique identification of the set of specifications that clearly defines the auction to which the bid is addressed. For example the set of specifications might include such things as the start and end date and time of the auction, the type of product being auctioned, etc.
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1346 **8.3.3.3 BUSINESSTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series for which the product is handled. **Refer to ENTSO-E Core Component Code list document for valid Business Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1347 **8.3.3.4 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is destined. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1348 #### 8.3.3.5 OUTAREA – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy is coming from. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1349 #### 8.3.3.6 MEASUREUNITQUANTITY

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the quantities in the time series are expressed.
Description	The unit if measurement used for the quantities expressed within the time series. It is recommended that this be always expressed in megawatts (code MAW) **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1350 #### 8.3.3.7 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is dependent
Dependence requirements	A currency is required only if there is a Price Amount specified

1351 **8.3.3.8 MEASUREUNITPRICE**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed (MW, MWh, etc.).
Description	The unit if measurement used for the price expressed within the time series. (MW per unit (code MAW), MWh per unit (code MWH), etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is Dependent
Dependence requirements	A Measure Unit Price is required only if there is a Price Amount specified

1352 **8.3.3.9 DIVISIBLE**

ACTION	DESCRIPTION
Definition of element	An indication whether or not each element of the bid may be partially accepted or not.
Description	The indication of whether or not each element of the bid may be marginal. That is to say that the quantity allocated to each element of the bid may be anything between 0 and the quantity asked. If it is not divisible the quantity may be only 0 or the quantity asked. This is only applicable for last assessed bid. In the case of capacity auctions if the ATC limit is reached divisible means that it may be reduced to the ATC limit and partly accepted. The default value for this attribute is A01 : “Yes”
Size	The indication can be either “Yes” (A01) or “No” (A02)
Applicability	This information is mandatory.
Dependence requirements	None

1353 **8.3.3.10 LINKEDBIDSIDENTIFICATION.**

ACTION	DESCRIPTION
Definition of element	Unique identification associated with all linked bids.
Description	The identification of a set of bids that are linked together signifying that they are either all accepted or are all rejected. This identification is defined by the bidder and must be unique for a given auction
Size	The identification is up to 35 characters
Applicability	This information is dependent and is Present only if bids are linked together.
Dependence requirements	The linked bid identification is only provided if a bid is associated with the current bid. Both bids must be cross linked to be valid.

1354 **8.3.3.11 BLOCKBID**

ACTION	DESCRIPTION
Definition of element	An indication that the values in the period constitute a block bid and that they cannot be changed.
Description	The indication that all the time intervals in the time series are to be considered as a whole and that they cannot be subdivided. The default value for this attribute is A02 : “No”
Size	The indication can be either “Yes” (A01) or “No” (A02)
Applicability	This information is mandatory.
Dependence requirements	None

8.3.4 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period classes shall be within the bid time interval. The resolution must be constant throughout the time series.

If a time series is suppressed then the interval quantities are all zeroed out.

A senders minimal resolution must respect market rules.

8.3.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.3.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter “T” separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.3.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities associated with that position and eventually the total monetary amount of the unit price proposed in the bid.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.3.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within a bid interval.
Description	This information provides the relative position of a period within a bid interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

8.3.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity that is bid for the interval in question
Description	This information defines the quantity that is bid for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

8.3.5.3 PRICEAMOUNT

ACTION	DESCRIPTION
Definition of element	The price expressed for each unit of quantity.
Description	The unit of price expressed in a unit of Currency per unit of measure (i.e. MeasureUnitPrice) e.g EURO/KWh. This is in compliance with the pricing scheme based on local market rules. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent.
Dependence requirements	The Price Amount is mandatory in the case of capacity auctions and must not be provided in the case of rule based allocations depending on local market rules.

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8.4 ALLOCATION RESULTS DOCUMENT

8.4.1 INFORMATION MODEL

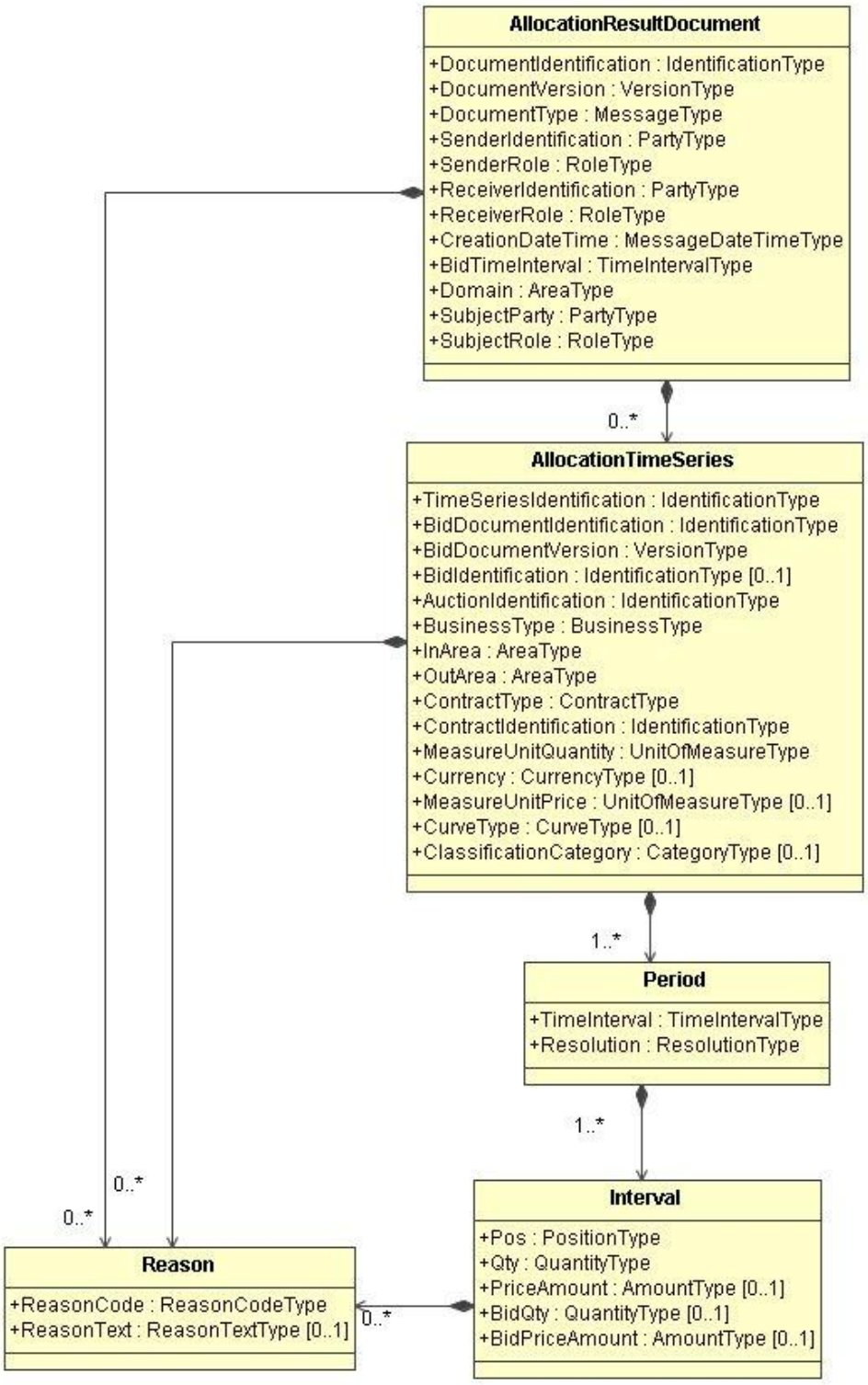

FIGURE 24: ALLOCATION RESULT DOCUMENT MODEL

8.4.2 RULES GOVERNING THE ALLOCATION RESULT DOCUMENT CLASS

There is only one contract identification assigned by the Transmission Capacity Allocator per auction identification, bid period and subject party.

There is only one allocation result document per sender and subject party for a given auction identification and bid time interval.

In the case where the allocation result document contains all bids and resales that have been validated for processing in the auction in the latest version of bid and resales documents received, this shall include bids and resales that have not been satisfied. In this case the quantity and price amount of the bids and resales that have not been satisfied shall be equal to zero.

It is also possible for the allocation result document to contain only the bids that have been allocated capacity transmission rights and resales that have sold capacity transmission rights.

A third possibility exists where only the aggregation of the bids that have capacity transmission rights and the aggregation of transmission rights that have been sold are provided. In this case the bid identification shall not be specified.

Only one of these possibilities is permitted in a given allocation result document.

The bid result may mirror the original bid itself in which case the CurveType shall not be used, or a profile may be provided as a result in which the CurveType shall be used.

The choice of whether or not to mirror the original bids must be consistant within the whole Result Document.

8.4.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document for which the time series data is being supplied.
Description	An allocation result Document for a given set of time series and a given bid period must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions for the time series and bid period must use the same identification.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1401 **8.4.2.2 DOCUMENTVERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a time series set for a given bid period. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1402 **8.4.2.3 DOCUMENTTYPE**

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	The document type identifies the information flow characteristics. The initial code to be used is: A25: Allocation result Document **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The document type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

1403 #### 8.4.2.4 SENDERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is the owner of the document and is responsible for its content.
Description	The sender of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document and who is responsible for its content. In general it is the Auction office or its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1404 #### 8.4.2.5 SENDERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. A07 = Transmission Capacity Allocator
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1405 #### 8.4.2.6 RECEIVERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. In general this corresponds to the bidder of its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1406 #### 8.4.2.7 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1407 #### 8.4.2.8 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1408 **8.4.2.9 BIDTIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period covered by the document.
Description	This information provides the start and end date and time of the bid period. The receiver will discard any time intervals outside the bid period.
Size	The start and end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1409 **8.4.2.10 DOMAIN - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The domain covered within the document.
Description	The identification of the domain that is covered in the document. This covers what auction identifications may be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

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1410 **8.4.2.11 SUBJECTPARTY – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The Party for whom the bid is allocated.
Description	The party that is the subject of the documents time series. This could identify a Balance Group or a Balance Responsible Party. The codification scheme used for the coded identification is indicated by the coding scheme attribute **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1411 **8.4.2.12 SUBJECTROLE**

ACTION	DESCRIPTION
Definition of element	The Role of the Subject Party.
Description	The Role of the Subject Party. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.3 RULES GOVERNING THE ALLOCATION TIME SERIES CLASS

8.4.3.1 TIMESERIESIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the time series instance. This must be a unique number that is assigned by the auction office for each time series in the document
Description	An identification that uniquely identified the time series.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.3.2 BIDDOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the document for which the bids or resales referenced are contained.
Description	Each bid allocated is contained in the bid document sent by the user.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is Mandatory.
Dependence requirements	None

8.4.3.3 BIDDOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the bid or resales document having been sent.
Description	The document version identified for the bid document
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1416 #### 8.4.3.4 BIDIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the time series that was used in the original bid or resale. This is the unique number that is assigned by the bidder when he made his original bid or resale.
Description	An identification that uniquely identified the bid or resale.
Size	The maximum size of a bid identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is required for primary auction results.

1417 #### 8.4.3.5 AUCTIONIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification linking the allocation to a set of specifications created by the auction operator.
Description	A unique identification of the set of specifications that clearly identify the auction to which the bid is addressed.
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1418 #### 8.4.3.6 BUSINESSTYPE

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series in the original bid. For resale information the Business Type A57, Resale pricing, shall be used. **Refer to ENTSO-E Core Component Code list document for valid business Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1419 **8.4.3.7 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is going. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1420 **8.4.3.8 OUTAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy originates. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1421 **8.4.3.9 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the capacity was allocated and handled. e.g.: daily auction, weekly auction, monthly auction, yearly auction, Long term contract, etc. The significance of this type is dependent on the in area and out area specific coded working methods. The Transmission Capacity Allocator responsible for the area in question auctions defines the contract type to be used.
Description	This information defines the conditions under which the capacity was allocated and handled. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None.

1422 **8.4.3.10 CONTRACTIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The contract identification of the time series instance. This must be a unique number that is assigned by the auction office and shall be used for all references to the allocation.
Description	An identification that uniquely identified the allocation.
Size	The maximum size of a contract identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.3.11 MEASUREUNITQUANTITY

ACTION	DESCRIPTION
Definition of element	The unit of measure that is applied to the quantities in which the time series is expressed.
Description	The unit if measurement used for the quantities expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.3.12 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is dependent
Dependence requirements	A currency is required only if there is a Price Amount specified

8.4.3.13 MEASUREUNITPRICE

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed.
Description	The unit if measurement used for the price expressed within the time series. (MW per unit, MWh per unit, etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	A Measure Unit Price is required only if there is a Price Amount specified

1426 **8.4.3.14 CURVETYPE**

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

1427 **8.4.3.15 CLASSIFICATIONCATEGORY**

ACTION	DESCRIPTION
Definition of element	The category of the product as defined by market rules.
Description	This information provides the basic category of the auction and describes what hours of the day are being auctioned. The following codes have been initially defined: A01: Base A02: Peak A03: Off-peak A04: Hourly **Refer to ENTSO-E Core Component Code list document for valid Classification Category codes.**
Size	The classification category value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is dependent.
Dependence requirements	The use of this depends on local market rules.

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8.4.4 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period shall be within the complete bid time interval.

The number of periods within a time series as characterized by the resolution must completely cover the period's time interval.

If a time series is suppressed then the interval quantities are all zeroed out.

A senders minimal resolution must respect market rules.

8.4.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities allocated associated with that position and the unit price that corresponds to the quantity allocated.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.4.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within a bid interval.
Description	This information provides the relative position of a period within a bid interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

8.4.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity that has been allocated or resold in the auction
Description	This information defines the quantity that has been allocated for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

1448 **8.4.5.3 PRICEAMOUNT**

ACTION	DESCRIPTION
Definition of element	The price expressed for each unit of quantity allocated.
Description	This information defines the price expressed in the unit of measurement of Price per unit of quantity allocated in compliance with the pricing scheme based on local market rules. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent
Dependence requirements	The Price Amount is mandatory in the case of capacity auctions and must not be provided in the case of rule based allocations depending on local market rules.

1449 **8.4.5.4 BIDQTY**

ACTION	DESCRIPTION
Definition of element	The quantity that was in the original bid or resale document
Description	This information defines the quantity that was requested for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependent.
Dependence requirements	Local market rules determine if the information is to be provided for information

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8.4.5.5 BIDPRICEAMOUNT

ACTION	DESCRIPTION
Definition of element	The original price expressed in the original bid or resale for each unit of quantity requested.
Description	This information reproduces the price expressed in the unit of measurement of Price per unit of quantity requested in the original bid. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent.
Dependence requirements	Local market rules determine if the information is to be provided for information

8.4.6 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe the conditions of the allocation.

This class may be used to provide specific local market information, such as the status of the auction information, as well as diagnostics in relation to the bid.

8.4.6.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the status of the allocation. Currently the following status’s have been identified: A71: Linked bid rejected due to associated bid unsuccessful A72: Original bid divided to permit acceptance A73: Bid accepted A74: Auction Status
Description	The reason code provides the status of the allocation. As many reason elements as necessary may be used.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is at the time series level to provide related explanatory information.

1457 #### 8.4.6.2 REASONTEXT

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of the allocation then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an error.

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8.5 TOTAL ALLOCATION RESULT DOCUMENT

8.5.1 OBJECTIVE

The objective of the Total Allocation Result Document is to make it possible for the transmission of all the allocation results from an auction or other source of allocation for all the involved parties in a single document.

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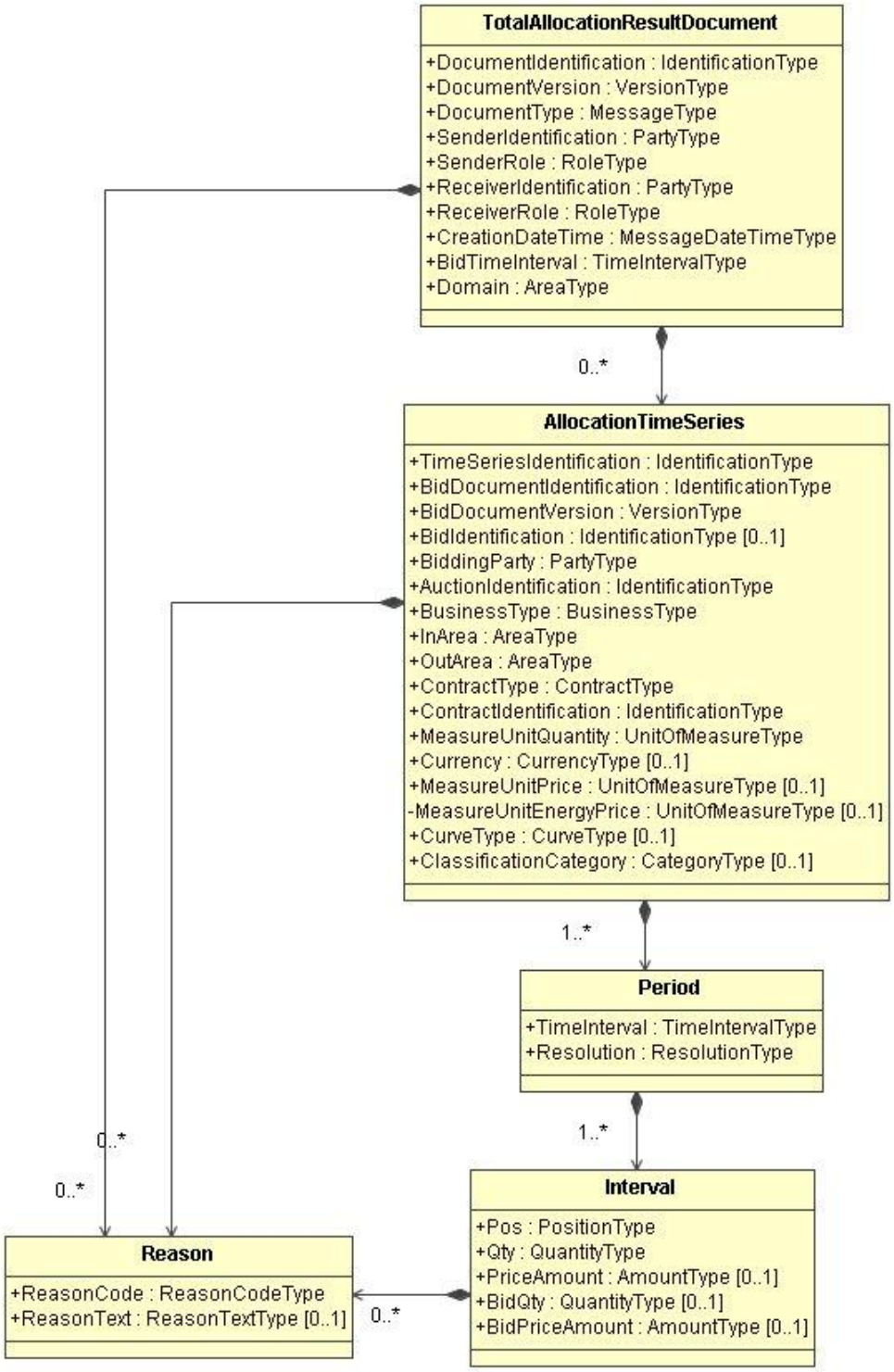
1463 ### 8.5.1.1 TOTAL ALLOCATION RESULT DOCUMENT INFORMATION REQUIREMENTS

1464 #### 8.5.1.1.1 INFORMATION MODEL



1465

1466 **FIGURE 25: TOTAL ALLOCATION RESULT DOCUMENT MODEL**

8.5.1.2 RULES GOVERNING THE TOTAL ALLOCATION RESULT DOCUMENT CLASS

There is only one contract identification assigned by the Transmission Capacity Allocator per auction identification, bid period and Bidding Party.

In the case where the Total Allocation Result Document contains all bids and resales that have been validated for processing in the auction in the latest version of bid and resales documents received, this shall include bids and resales that have not been satisfied. In this case the quantity and price amount shall be equal to zero.

It is also possible for the Total Allocation Result Document to contain only the bids that have been allocated capacity transmission rights and resales that have sold capacity transmission rights.

A third possibility exists where only the aggregation of the bids that have capacity transmission rights and the aggregation of transmission rights that have been sold are provided. In this case the bid identification shall not be specified.

Only one of these possibilities is permitted in a given Total Allocation Result Document.

The bid result may mirror the original bid itself in which case the CurveType shall not be used, or a profile may be provided as a result in which the CurveType shall be used.

The choice of whether or not to mirror the original bids must be consistant within the whole Result Document.

8.5.1.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document for which the time series data is being supplied.
Description	A Total Allocation Result Document for a given set of time series and a given bid period must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions for the time series and bid period must use the same identification.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1486 #### 8.5.1.3 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a time series set for a given bid period. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1487 #### 8.5.1.4 DOCUMENTTYPE

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	The document type identifies the information flow characteristics. The initial code to be used is: A25: Allocation result Document **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The document type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

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1488 #### 8.5.1.5 SENDERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is the owner of the document and is responsible for its content.
Description	The sender of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document and who is responsible for its content. In general it is the Auction office or its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1489 #### 8.5.1.6 SENDERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. A07 = Transmission Capacity Allocator
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1490 #### 8.5.1.7 RECEIVERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. In general this corresponds to the bidder of its representative. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1491 #### 8.5.1.8 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1492 #### 8.5.1.9 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1493 **8.5.1.10 BIDTIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period covered by the document.
Description	This information provides the start and end date and time of the bid period. The receiver will discard any time intervals outside the bid period.
Size	The start and end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1494 **8.5.1.11 DOMAIN - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The domain covered within the document.
Description	The identification of the domain that is covered in the document. This covers what auction identifications may be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

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1495 ## 8.5.2 RULES GOVERNING THE ALLOCATION TIME SERIES CLASS

1496 ### 8.5.2.1 TIMESERIESIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the time series instance. This must be a unique number that is assigned by the auction office for each time series in the document
Description	An identification that uniquely identified the time series.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1497 ### 8.5.2.2 BIDDOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the document for which the bids or resales referenced are contained.
Description	Each bid allocated is contained in the bid document sent by the user.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is Mandatory.
Dependence requirements	None

1498 ### 8.5.2.3 BIDDOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the bid or resales document having been sent.
Description	The document version identified for the bid document
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

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1499 #### 8.5.2.4 BIDIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the time series that was used in the original bid or resale. This is the unique number that is assigned by the bidder when he made his original bid or resale.
Description	An identification that uniquely identified the bid or resale.
Size	The maximum size of a bid identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is required for primary auction results.

1500 #### 8.5.2.5 BIDDINGPARTY – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who bid for the capacity or resold it.
Description	The party that bid for the capacity or resold it is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a bidding party's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1501 #### 8.5.2.6 AUCTIONIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification linking the allocation to a set of specifications created by the auction operator.
Description	A unique identification of the set of specifications that clearly identify the auction to which the bid is addressed.
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1502 **8.5.2.7 BUSINESSTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series in the original bid. **Refer to ENTSO-E Core Component Code list document for valid business Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1503 **8.5.2.8 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is going. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1504 **8.5.2.9 OUTAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy originates. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1505 **8.5.2.10 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the capacity was allocated and handled. e.g.: daily auction, weekly auction, monthly auction, yearly auction, Long term contract, etc. The significance of this type is dependent on the in area and out area specific coded working methods. The Transmission Capacity Allocator responsible for the area in question auctions defines the contract type to be used.
Description	This information defines the conditions under which the capacity was allocated and handled. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None.

1506 **8.5.2.11 CONTRACTIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The contract identification of the time series instance. This must be a unique number that is assigned by the auction office and shall be used for all references to the allocation.
Description	An identification that uniquely identified the allocation.
Size	The maximum size of a contract identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.5.2.12 MEASUREUNITQUANTITY

ACTION	DESCRIPTION
Definition of element	The unit of measure that is applied to the quantities in which the time series is expressed.
Description	The unit if measurement used for the quantities expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.5.2.13 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is dependent
Dependence requirements	A currency is required only if there is a Price Amount specified

8.5.2.14 MEASUREUNITPRICE

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed.
Description	The unit if measurement used for the price expressed within the time series. (MW per unit, MWh per unit, etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	A Measure Unit Price is required only if there is a Price Amount specified

8.5.2.15 CURVETYPE

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

8.5.2.16 CLASSIFICATIONCATEGORY

ACTION	DESCRIPTION
Definition of element	The category of the product as defined by market rules.
Description	This information provides the basic category of the auction and describes what hours of the day are being auctioned. The following codes have been initially defined: A01: Base A02: Peak A03: Off-peak A04: Hourly **Refer to ENTSO-E Core Component Code list document for valid Classification Category codes.**
Size	The classification category value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is dependent.
Dependence requirements	The use of this depends on local market rules.

8.5.3 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period shall be within the complete bid time interval.

The number of periods within a time series as characterized by the resolution must completely cover the period's time interval.

If a time series is suppressed then the interval quantities are all zeroed out.

A sender's minimal resolution must respect market rules.

8.5.3.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.5.3.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.5.4 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities allocated associated with that position and the unit price that corresponds to the quantity allocated.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

1528 Negative values are not allowed in time series quantities

1529 Leading zeros in a quantity shall be suppressed before transmission.

1530 ### 8.5.4.1 Pos

ACTION	DESCRIPTION
Definition of element	The relative position of a period within a bid interval.
Description	This information provides the relative position of a period within a bid interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

1531 ### 8.5.4.2 Qty

ACTION	DESCRIPTION
Definition of element	The quantity that has been allocated in the auction
Description	This information defines the quantity that has been allocated for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

1532 **8.5.4.3 PRICEAMOUNT**

ACTION	DESCRIPTION
Definition of element	The price expressed for each unit of quantity allocated.
Description	This information defines the price expressed in the unit of measurement of Price per unit of quantity allocated in compliance with the pricing scheme based on local market rules. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent
Dependence requirements	The Price Amount is mandatory in the case of capacity auctions and must not be provided in the case of rule based allocations depending on local market rules.

1533 **8.5.4.4 BIDQTY**

ACTION	DESCRIPTION
Definition of element	The quantity that was in the original bid document
Description	This information defines the quantity that was requested for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependent.
Dependence requirements	Local market rules determine if the information is to be provided for information

1534 **8.5.4.5 BIDPRICEAMOUNT**

ACTION	DESCRIPTION
Definition of element	The original price expressed in the original bid or resale for each unit of quantity requested.
Description	This information reproduces the price expressed in the unit of measurement of Price per unit of quantity requested in the original bid. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent.
Dependence requirements	Local market rules determine if the information is to be provided for information

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8.5.5 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe the conditions of the allocation.

This class may be used to provide specific local market information, such as the status of the auction information, as well as diagnostics in relation to the bid.

8.5.5.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the status of the allocation. Currently the following status's have been identified: A71: Linked bid rejected due to associated bid unsuccessful A72: Original bid divided to permit acceptance A73: Bid accepted A74: Auction Status
Description	The reason code provides the status of the allocation. As many reason elements as necessary may be used.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is at the time series level to provide related explanatory information.

8.5.5.2 REASONTEXT

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of the allocation then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an error.

8.6 IMPLICIT AUCTION RESULT DOCUMENT

8.6.1 INFORMATION MODEL

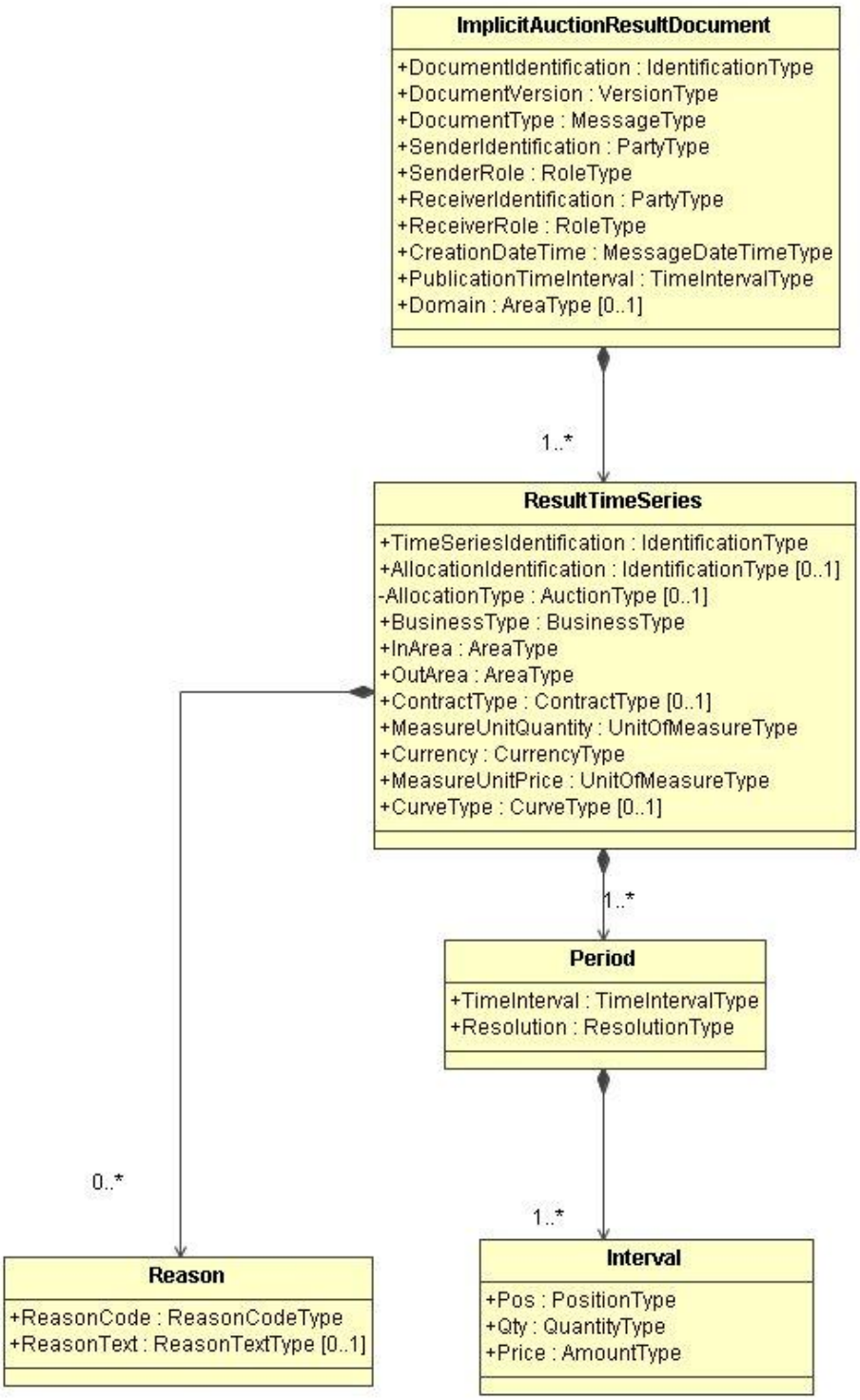

FIGURE 26: IMPLICIT AUCTION RESULT DOCUMENT MODEL

8.6.2 RULES GOVERNING THE IMPLICIT AUCTION RESULT DOCUMENT IMPLEMENTATION

8.6.2.1 INTRODUCTION

An Implicit Auction Result Document is issued by the Market Operator at the end of a specific auctioning cycle or by the System Operator once the NTC values have been agreed. It could be yearly, monthly or daily auctions in addition to intraday auctions.

8.6.2.2 IMPLICIT AUCTION RESULT CLASS SPECIFICATIONS

8.6.2.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the Implicit Auction Result Document.
Description	Each Implicit Auction Result Document is allocated a unique identification by the sender.
Size	The identification of an Implicit Auction Result Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

8.6.2.2.2 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of an Implicit Auction Result Document and is used in the case of possible erroneous transmissions. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1555 **8.6.2.2.3 DOCUMENTTYPE**

ACTION	DESCRIPTION
Definition of element	The coded type of the Implicit Auction Result Document being sent.
Description	The Implicit Auction Result Document type identifies the type of the publication being sent. **Refer to ENTSO-E Core Components (ECC) specification for valid codes.** Initial codes defined for this application are: A25: Allocation results
Size	The Implicit Auction Result Document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1556 **8.6.2.2.4 SENDERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is sending the Implicit Auction Result Document.
Description	The sender of the Implicit Auction Result Document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

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1557 **8.6.2.2.5 SENDERROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the context of the transaction for which the document is being made. **Refer to ENTSO-E Core Component Code list document for valid codes.** Initial codes defined for this application are: A04: System Operator A11: Market Operator A32: Market Information Aggregator
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1558 **8.6.2.2.6 RECEIVERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the Implicit Auction Result Document.
Description	The receiver of the Implicit Auction Result Document is identified by a unique coded identification. In the case of general distribution the Receiver Identification shall not be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

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1559 **8.6.2.2.7 RECEIVERROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver concerning the document. **Refer to ENTSO-E Core Component Code list document for valid codes.** Initial codes defined for this application are: A04: System Operator A07: Transmission Capacity Allocator A32: Market Information Aggregator A33: Information receiver
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None.

1560 **8.6.2.2.8 CREATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time of transmission of the Implicit Auction Result Document.
Description	The date and time that the Implicit Auction Result Document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1561 **8.6.2.2.9 PUBLICATIONTIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period that the Implicit Auction Result Document is covering.
Description	This information provides the start and end date and time covered by the Implicit Auction Result Document.
Size	The start and end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is dependent.
Dependence requirements	This information is only required if the Implicit Auction Result Document is requesting information for a period.

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8.6.2.2.10 DOMAIN - CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The domain covered within the Implicit Auction Result Document.
Description	The identification of the domain that is covered in the Implicit Auction Result Document. The domain shall only be used for the identification of specific entsoe.net contexts. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The domain shall be used to identify the domain covered by the implicit market

8.6.2.3 RULES GOVERNING THE RESULT TIME SERIES CLASS

8.6.2.3.1 TIMESERIESIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification attributed by the sender that uniquely identifies the time series.
Description	A unique identification of the time series assigned by the sender.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.6.2.3.2 ALLOCATIONIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification linking the time series to a set of specifications created by an operator.
Description	A unique identification of the set of specifications that clearly defines the allocation process to which the time series is addressed..
Size	The maximum size of an allocation identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This depends on its use on the local market

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1566 **8.6.2.3.3 ALLOCATIONTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the type of allocation that has been used.
Description	The type of the allocation used. The initial codes defined for this application are: A01: Implicit **Refer to ENTSO-E Core Component Code list document for valid Auction Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This shall be used only in the case where auction information is being identified.

1567 **8.6.2.3.4 BUSINESSTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series for which the product is handled. The initial codes defined for this application are: A47: Market capacity price A48: Market capacity price differential (InArea Price – OutArea Price).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1568 **8.6.2.3.5 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is destined. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1569 **8.6.2.3.6 OUTAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy is coming from. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1570 **8.6.2.3.7 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the capacity was allocated and handled. e.g.: daily auction, weekly auction, monthly auction, yearly auction, Long term contract, etc. The significance of this type is dependent on the in area and out area specific coded working methods.
Description	This information defines the conditions under which the capacity was allocated and handled. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	This is dependent on local market rules.

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1571 **8.6.2.3.8 MEASUREUNITQUANTITY**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the quantities in the time series are expressed.
Description	The unit if measurement used for the quantities expressed within the time series. It is recommended that this be always expressed in megawatts (code MAW) **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1572 **8.6.2.3.9 CURRENCY**

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is mandatory
Dependence requirements	none

1573 **8.6.2.3.10 MEASUREUNITPRICE**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed per unit of currency (MW per unit, MWh per unit, etc.).
Description	The unit if measurement used for the price expressed within the time series. per unit of currency (MW per unit (code MAW), MWh per unit (code MWH), etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None

1574 **8.6.2.3.11 CURVETYPE**

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

8.6.2.4 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period classes shall be within the publication time interval. The number of periods within a time series as characterized by the resolution must completely cover the period's time interval.

The resolution must be constant throughout the time series.

A senders minimal resolution must respect market rules.

8.6.2.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.6.2.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.6.2.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities associated with that position and eventually the highest monetary amount for the time interval.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.6.2.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within an interval.
Description	This information provides the relative position of a period within an interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

8.6.2.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity auctioned for the interval in question
Description	This information defines the quantity auctioned for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is Mandatory
Dependence requirements	none

8.6.2.5.3 PRICE

ACTION	DESCRIPTION
Definition of element	The price expressed per currency per unit of price measure.
Description	This information defines the price expressed in the unit of measurement of Price per unit of quantity in compliance with the pricing scheme based on local market rules. For market prices the price provided is always the InArea price A price may be negative in cases where it is providing the difference between in and out area market prices. Price differential calculated with the following formula: InArea – OutArea. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is mandatory
Dependence requirements	None

8.6.2.6 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe specific market information where required such as the status of the auction information, as well as any diagnostics.

8.6.2.6.1 REASONCODE

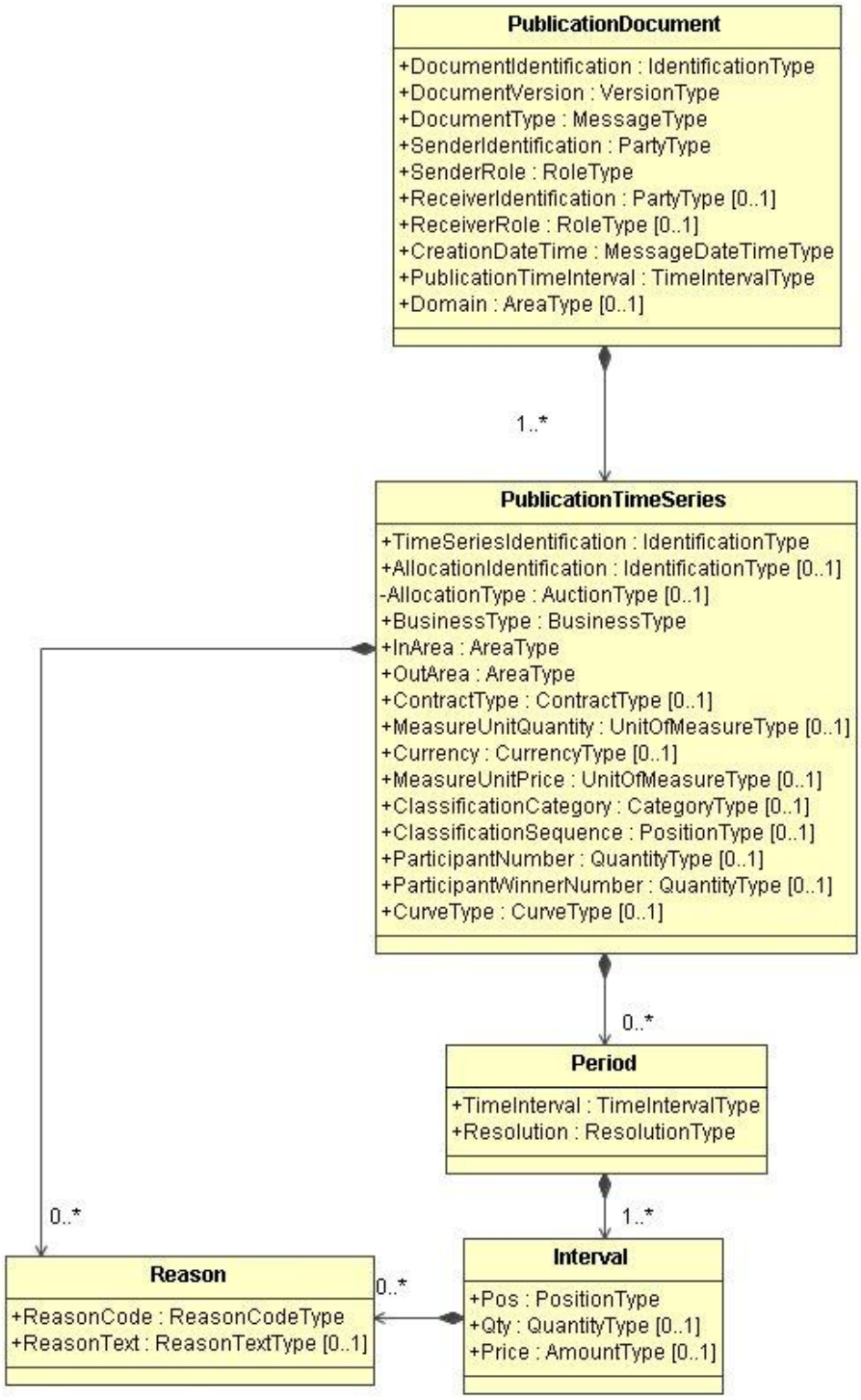
ACTION	DESCRIPTION
Definition of element	A code providing the information being provided. **Refer to ENTSO-E Core Component Code list document for valid codes**
Description	The reason code provides the specific market information. As many reason elements as necessary may be used. This information may be used the time series level to provide related explanatory information
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	.None

1601 **8.6.2.6.2 REASONTEXT**

ACTION	DESCRIPTION
Definition of element	Additional textual information.
Description	If the code does not provide all the information to clearly identify the market information then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify the information being provided.

1602 # 8.7 PUBLICATION DOCUMENT

1603 ## 8.7.1 INFORMATION MODEL



1604

1605 **FIGURE 27: PUBLICATION DOCUMENT MODEL**

8.7.2 RULES GOVERNING THE PUBLICATION DOCUMENT IMPLEMENTATION

8.7.2.1 INTRODUCTION

A Publication Document is issued by the Transmission Capacity Allocator at the end of a specific auctioning cycle or by the System Operator once the NTC values have been agreed. It could be yearly, monthly or daily auctions in addition to intraday auctions.

Upon reception the Market Information Aggregator makes this information promptly available to the market.

In the case of the cancellation of an auction a Publication Document shall be transmitted with the Time Series completed and at that level a Reason class with a Reason code of A99 (cancelled). No Period information shall be provided.

8.7.2.2 PUBLICATION CLASS SPECIFICATIONS

8.7.2.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the publication document.
Description	Each publication document is allocated a unique identification by the sender.
Size	The identification of a Publication document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

8.7.2.2.2 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a publication document and is used in the case of possible erroneous transmissions. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1620 **8.7.2.2.3 DOCUMENTTYPE**

ACTION	DESCRIPTION
Definition of element	The coded type of the Publication Document being sent.
Description	The Publication Document type identifies the type of the publication being sent. **Refer to ENTSO-E Core Component Code list document for valid codes.** Initial codes defined for this application are: A31: Agreed capacity A25: Allocation results A44: Price document
Size	The Publication Document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1621 **8.7.2.2.4 SENDERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is sending the Publication Document.
Description	The sender of the Publication Document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

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1622 **8.7.2.2.5 SENDERROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the context of the transaction for which the document is being made. **Refer to ENTSO-E Core Component Code list document for valid codes.** Initial codes defined for this application are: A04: System Operator A07: Transmission Capacity Allocator A32: Market Information Aggregator
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1623 **8.7.2.2.6 RECEIVERIDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the Publication Document.
Description	The receiver of the Publication Document is identified by a unique coded identification. In the case of general distribution the Receiver Identification shall not be used. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Components (ECC) specification for valid codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	Used only in the case where a document is sent to a specific party.

1624 **8.7.2.2.7 RECEIVERROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver concerning the document. **Refer to ENTSO-E Core Component Code list document for valid codes.** Initial codes defined for this application are: A32: Market Information Aggregator A33: Information receiver
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if a specific party has been identified.

1625 **8.7.2.2.8 CREATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time of transmission of the Publication Document.
Description	The date and time that the Publication Document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1626 **8.7.2.2.9 PUBLICATIONTIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period that the Publication Document is covering.
Description	This information provides the start and end date and time covered by the Publication Document.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is dependent.
Dependence requirements	This information is only required if the Publication Document is requesting information for a period.

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8.7.2.2.10 DOMAIN -CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The domain covered within the Publication Document.
Description	The identification of the domain that is covered in the Publication Document. The domain shall only be used for the identification of specific entsoe.net contexts. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The domain shall be used if a specific entsoe.net context has to be identified.

8.7.2.3 RULES GOVERNING THE PUBLICATION TIME SERIES CLASS

8.7.2.3.1 TIMESERIESIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification attributed by the sender that uniquely identifies the time series.
Description	A unique identification of the time series assigned by the sender.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

8.7.2.3.2 ALLOCATIONIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification linking the time series to a set of specifications created by an operator.
Description	A unique identification of the set of specifications that clearly defines the allocation process to which the time series is addressed..
Size	The maximum size of an allocation identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This depends on its use on the local market

8.7.2.3.3 ALLOCATIONTYPE

ACTION	DESCRIPTION

Definition of element	Identifies the type of allocation that has been used.
Description	The type of the allocation used. The initial codes defined for this application are: A01: Implicit A02: Explicit A03: Rule based A04: Mixed A05: Explicit/split **Refer to ENTSO-E Core Component Code list document for valid Auction Type codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This shall be used only in the case where auction information is being identified.

1632 **8.7.2.3.4 BUSINESSTYPE**

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series for which the product is handled. The initial codes defined for this application are: A27: NTC A26: ATC A31: Offered capacity A42: Requested capacity (with price) A43: Requested capacity (without price) A47: Market capacity price A48: Market capacity price differential A57: Resale pricing A62: Spot price
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1633 **8.7.2.3.5 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is destined. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1634 **8.7.2.3.6 OUTAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy is coming from. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

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1635 **8.7.2.3.7 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the capacity was allocated and handled. e.g.: daily auction, weekly auction, monthly auction, yearly auction, Long term contract, etc. The significance of this type is dependent on the in area and out area specific coded working methods.
Description	This information defines the conditions under which the capacity was allocated and handled. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	This is dependent on local market rules.

1636 **8.7.2.3.8 MEASUREUNITQUANTITY**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the quantities in the time series are expressed.
Description	The unit if measurement used for the quantities expressed within the time series. It is recommended that this be always expressed in megawatts (code MAW) **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This is used only where capacity values are expressed. It is not used with market capacity prices

1637 **8.7.2.3.9 CURRENCY**

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is dependent

Dependence requirements	A currency is required only if there is a Price Amount specified

1638 **8.7.2.3.10 MEASUREUNITPRICE**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed per unit of currency (MW per unit, MWh per unit, etc.).
Description	The unit if measurement used for the price expressed within the time series. per unit of currency (MW per unit (code MAW), MWh per unit (code MWH), etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is Dependent
Dependence requirements	A Measure Unit Price is required only if there is a Price Amount specified

1639 **8.7.2.3.11 CLASSIFICATIONCATEGORY**

ACTION	DESCRIPTION
Definition of element	The category under which the auction is classified.
Description	The classification category identifies the type of auction that is being held in respect to a given time period. The current list of codes identified for use are: A01: Base A02: Peak A03: Offpeak **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	A Classification Category is only provided if the auction relates to a specific category or time period.

1640 **8.7.2.3.12 CLASSIFICATIONSEQUENCE**

ACTION	DESCRIPTION
Definition of element	The sequence of a time series within a given auction category and Contract Type.
Description	This defines the sequence of a time series within a given auction category such as Base 1 or Base 2. This in fact identifies the auction round being carried out for a category.
Size	The maximum length of this information is 3 numeric characters.
Applicability	This information is dependent

Dependence requirements	A Classification Sequence is only provided in the case where there are several auctions in the same category and Contract Type.

1641 **8.7.2.3.13 PARTICIPANTNUMBER**

ACTION	DESCRIPTION
Definition of element	The number of parties that participated in the auction
Description	The total number of participants that provided bids in the auction in question.
Size	The maximum length of this information is 17 numeric characters. Decimal values are not allowed.
Applicability	This information is dependent
Dependence requirements	The number of participants is provided if the auction rules permit it.

1642 **8.7.2.3.14 PARTICIPANTWINNERNUMBER**

ACTION	DESCRIPTION
Definition of element	The number of parties that had successful bids in the auction
Description	The total number of participants that provided successful bids in the auction in question.
Size	The maximum length of this information is 17 numeric characters. Decimal values are not allowed.
Applicability	This information is dependent
Dependence requirements	The number of participants is provided if the auction rules permit it.

1643 **8.7.2.3.15 CURVETYPE**

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.

Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

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8.7.2.4 RULES GOVERNING THE PERIOD CLASS

There may be several period classes for a time series. The overall time interval covered by the period classes shall be within the publication time interval. The number of periods within a time series as characterized by the resolution must completely cover the period's time interval.

When an auction has been cancelled (i.e. a ReasonCode of "A99" – "cancelled" is present at the time series level) the Period class shall not be provided.

The resolution must be constant throughout the time series.

A senders minimal resolution must respect market rules.

8.7.2.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressedin UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.7.2.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.7.2.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities associated with that position and eventually the highest monetary amount for the time interval.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.7.2.5.1 POS

ACTION	DESCRIPTION
Definition of element	The relative position of a period within an interval.
Description	This information provides the relative position of a period within an interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

8.7.2.5.2 QTY

ACTION	DESCRIPTION
Definition of element	The quantity auctioned for the interval in question
Description	This information defines the quantity auctioned for the interval in question and that is expressed in the Measurement Unit Quantity. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependent.
Dependence requirements	This is not used where market capacity prices are concerned

8.7.2.5.3 PRICE

ACTION	DESCRIPTION
Definition of element	The price expressed per currency per unit of price measure.
Description	This information defines the price expressed in the unit of measurement of Price per unit of quantity in compliance with the pricing scheme based on local market rules. A price may be negative in cases where it is providing the difference between in and out area market prices. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent.
Dependence requirements	The Price is mandatory in the case of capacity auctions and must not be provided in the case of rule based allocations depending on local market rules.
Dependence requirements	Local market rules determine if the information is to be provided for information

8.7.2.6 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe specific market information where required such as the status of the auction information, as well as any diagnostics.

8.7.2.6.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the information being provided. A possible code that may be used at the time series level is: A99 = Cancelled **Refer to ENTSO-E Core Component Code list document for valid codes**
Description	The reason code provides the specific market information. As many reason elements as necessary may be used. This information may be used the time series level to provide related explanatory information
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	.None

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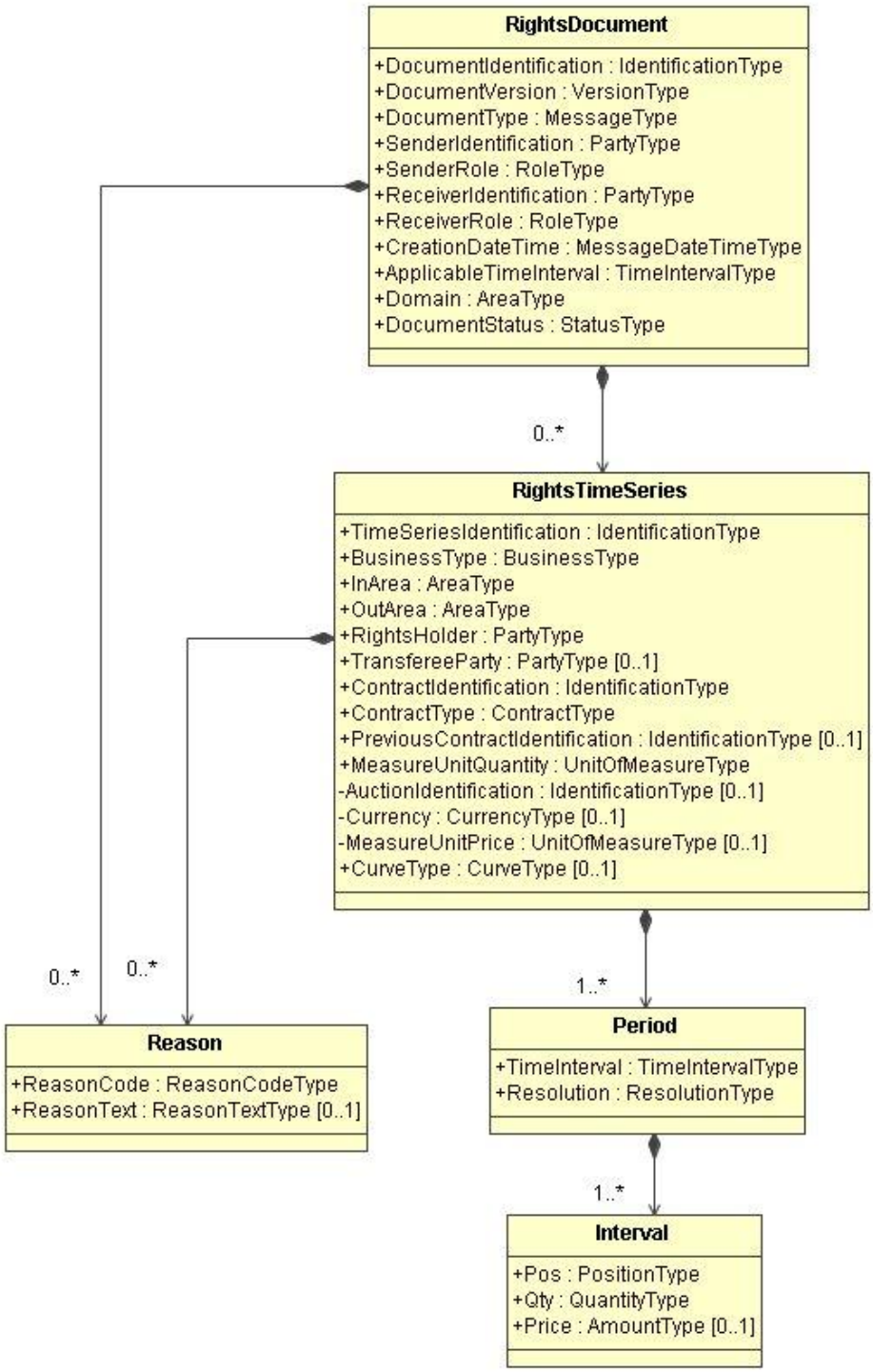
1672 **8.7.2.6.2 REASONTEXT**

ACTION	DESCRIPTION
Definition of element	Additional textual information.
Description	If the code does not provide all the information to clearly identify the market information then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify the information being provided.

1673 # 8.8 RIGHTS DOCUMENT

1674 ## 8.8.1 INFORMATION MODEL



1675

1676 **FIGURE 28: RIGHTS DOCUMENT MODEL**

8.8.2 RULES GOVERNING THE RIGHTS DOCUMENT CLASS

A Rights Document is used in various contexts within the ECAN process. In general it identifies the capacity transmission rights that a Capacity Trader or an Interconnection Trade Responsible has in his portfolio for a given border.

Any time a party's capacity transmission rights change for a given period the Capacity Trader may inform the party of his new portfolio by sending a new version of the Rights document to the party in question.

A rights document may also be used to provide the complete portfolio for a given border. In addition, a rights document may be used to provide information on rights compensation such as UIOSI pricing or Rights curtailment compensation.

RIGHTS DOCUMENT DEPENDENCY TABLE

Document type	A19: Capacity for Resale		A20: Approved Transfer	A21: AAC Transfer	A22: Transmission rights portfolio	A23: Allocations			Axx Compensation Rights
Business type	A41: Released AAC A32: Capacity transfer notification (deprecated)	A70 Capacity rights not nominated	A32: Capacity transfer notification	A32: Capacity transfer notification A40 ITR Designation	A34: Capacity rights	A33: Authorised AAC	A35: Minimum authorised AAC	A36: Maximum authorised AAC	A55: Use it or sell it pricing A56: Resale compensation following cancelation A58: Rights curtailment A59: Use it or sell it compensation Axoc Auction cancelation Axoc
RightsHolder	M	M	M	M	M	M	M	M	M
Transferee			M	M					
Previous Contract Identification			M						
AuctionIdentification	M								

Note: when using Document Type A23 the Business Type A33, Authorised AAC, is generally sufficient to provide the maximum amount of AAC available for nomination. However, if the Business Type A35, Minimum authorized AAC, is used then the Business Type A36, Maximum Authorised AAC must be used in the place of A33.

8.8.2.1 DOCUMENTIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document for which the time series data is being supplied.
Description	A Rights Document covers a given set of time series and a given bid period must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions for the time series and bid period must use the same identification.
Size	The identification of a document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1694 #### 8.8.2.2 DOCUMENTVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	The document version is used to identify a given version of a time series set for a given bid period. 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 should ensure that the version number for a document is superior to the previous version number received.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1695 #### 8.8.2.3 DOCUMENTTYPE

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	The document type identifies the information flow characteristics. The initial code to be used is: A19: Capacity for Resale A20: Approved Capacity Transfer A21: Capacity transfer notification A22: Transmission rights portfolio A23: Allocations A62: Compensation rights **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The document type value must be exactly 3 alphanumeric characters (no blanks).
Applicability	This information is mandatory.
Dependence requirements	None.

1696 #### 8.8.2.4 SENDERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is the owner of the document and is responsible for its content.
Description	The sender of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document and who is responsible for its content. The Rights Document may be sent by a Capacity Trader to inform the Auction Office of a transfer of rights. It may also be sent by the auction Office to inform the Nomination Validator of the parties who have transmission rights for a given period. The Nomination Validator may also use this document to inform an Interconnection Trade Responsible of the rights he may use for nomination. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1697 #### 8.8.2.5 SENDERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1698 #### 8.8.2.6 RECEIVERIDENTIFICATION – CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. This may be the Transmission Capacity Allocator the Nomination Validator or the Interconnection Trade Responsible depending on the context. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a receiver's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

1699 #### 8.8.2.7 RECEIVERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. **Refer to ENTSO-E Core Component Code list document for valid role codes.**
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1700 #### 8.8.2.8 CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1701 **8.8.2.9 APPLICABLE TIME INTERVAL**

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period covered by the document.
Description	This information provides the start and end date and time of the applicable period covered.
Size	The start and end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

1702 **8.8.2.10 DOMAIN - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The domain covered within the Rights Document.
Description	The identification of the domain that is covered in the Rights Document. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1703 **8.8.2.11 DOCUMENTSTATUS**

ACTION	DESCRIPTION
Definition of element	The status of the rights document.
Description	The status of a rights document may be intermediate until gate closure then it becomes final. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

1704 # 8.8.3 RULES GOVERNING THE RIGHTS TIME SERIES CLASS

1705 ### 8.8.3.1 TIME SERIES IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the time series instance. This must be a unique number that is assigned by the sender for each time series in the document
Description	An identification that uniquely identified the time series.
Size	The maximum size of a time series identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1706 ### 8.8.3.2 BUSINESS TYPE

ACTION	DESCRIPTION
Definition of element	Identifies the nature of the time series.
Description	The nature of the time series concerning the rights. A40: ITR Designation A32: Capacity transfer notification A33: Authorised AAC A34: Capacity rights A35: Minimum authorised AAC A36: Maximum authorised AAC A41: Released AAC A55: Use it or sell it pricing A56: Resale compensation following cancelation A58: Rights curtailment A59: Use it or sell it compensationA70: Capacity rights not nominated A83: Auction cancelation A84: Nomination curtailment
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

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1707 **8.8.3.3 INAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is to be put.
Description	The identification of the area where the energy is going. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

1708 **8.8.3.4 OUTAREA – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The area where the energy is coming from.
Description	The identification of the area where the energy originates. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of the area code is 18 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None

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1709 **8.8.3.5 RIGHTSHOLDER – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is owner of, or has the right to use, the transmission rights in question.
Description	The Rights Holder is identified by a unique coded identification. Whenever rights are transferred, the Rights Holder is the transferor of the rights. The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a rights holder's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	See the dependency matrix.

1710 **8.8.3.6 TRANSFEREEPARTY – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party to whom the rights are being transferred or the Interconnection Trade Responsible designated by the transferor (as designated in the RightsHolder attribute) to use the rights.
Description	The Transferee party is identified by a unique coded identification. In certain cases the transferee party also acts as Interconnection Trade Responsible The codification scheme used for the coded identification is indicated by the coding scheme attribute. **Refer to ENTSO-E Core Component Code list document for valid coding scheme codes.**
Size	The maximum length of a transferee party's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent..
Dependence requirements	See the dependency matrix

1711 **8.8.3.7 CONTRACTIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The contract identification of the time series instance. This must be the number that has been assigned by the Transmission Capacity Allocator.
Description	An identification that uniquely identifies the allocation.
Size	The maximum size of a contract identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1712 **8.8.3.8 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	The contract type defines the conditions under which the rights were allocated and handled. e.g.: daily auction, weekly auction, monthly auction, yearly auction, Long term contract, etc. The significance of this type is dependent on the in area and out area specific coded working methods. The Transmission Capacity Allocator responsible for the area in question auctions defines the contract type to be used.
Description	This information defines the conditions under which the capacity was allocated and handled. **Refer to ENTSO-E Core Component Code list document for the valid list of codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory
Dependence requirements	None.

1713 **8.8.3.9 PREVIOUSCONTRACTIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The identification of a previous contract used to identify the transfer rights.
Description	This information identifies the previous identification that was used to identify the rights.
Size	The maximum length of this information is 35 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	The identification is only provided if there was a previous identification used

1714 **8.8.3.10 MEASUREUNITQUANTITY**

ACTION	DESCRIPTION
Definition of element	The unit of measure that is applied to the quantities in which the time series is expressed.
Description	The unit if measurement used for the quantities expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

1715 **8.8.3.11 AUCTIONIDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	The identification linking the capacity rights to a set of specifications created by the Transmission Capacity Allocator.
Description	A unique identification of the set of specifications that clearly defines the auction to which the capacity rights submitted by the Capacity Trader are to be re-auctioned.
Size	The maximum size of an auction identification is 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Its use is dependent on local market rules.

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1716 **8.8.3.12 CURRENCY**

ACTION	DESCRIPTION
Definition of element	The currency in which the monetary amount is expressed.
Description	The currency used for the monetary amount expressed within the time series. **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters respecting the standard ISO 4217.
Applicability	This information is dependent
Dependence requirements	A currency is required only if there is a Price Amount specified

1717 **8.8.3.13 MEASUREUNITPRICE**

ACTION	DESCRIPTION
Definition of element	The unit of measure in which the price in the time series is expressed (MW per unit, MWh per unit, etc.).
Description	The unit if measurement used for the price expressed within the time series. (MW per unit (code MAW), MWh per unit (code MWH), etc.). **Refer to ENTSO-E Core Component Code list document for valid codes.**
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is Dependent
Dependence requirements	A Measure Unit Price is required only if there is a Price Amount specified

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1718 #### 8.8.3.14 CURVETYPE

ACTION	DESCRIPTION
Definition of element	The coded representation of the type of curve being described.
Description	This represents the coded identification of the curve that is described in the Period and Interval class. The following CurveType codes are permitted: A01 = Sequential fixed sized blocks (default). A03 = Variable Block. *One or more Periods where only the positions representing a block level change are present within TimeInterval of the Period. The resolution corresponds to the smallest interval where a block level change may occur. A block consists of a consistent volume from the current position through to the Start Date Time of the next block.* The curve types are described in the document reference [2].
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The CurveType may be used to provide profile information or reduced time interval content..

1719 ## 8.8.4 RULES GOVERNING THE PERIOD CLASS

1720 There may be several period classes for a time series. The overall time interval covered
1721 by the period shall be within the complete rights time interval.

1722 The number of periods within a time series as characterized by the resolution must
1723 completely cover the period's time interval.

1724 If a time series is suppressed then the interval quantities are all zeroed out.

1725 A sender's minimal resolution must respect market rules.

1726 #### 8.8.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	The start and end date and time must be expressed in UTC in compliance with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

8.8.4.2 RESOLUTION

ACTION	DESCRIPTION
Definition of element	The resolution defining the number of periods that the time interval is divided.
Description	This information defines the resolution of a single period. The time interval must contain a whole number of periods as expressed by the resolution.
Size	The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT15M expresses a 15 minute resolution.
Applicability	This information is mandatory.
Dependence requirements	None.

8.8.5 RULES GOVERNING THE INTERVAL CLASS

The interval class contains the relative position within a time interval period, the quantities allocated associated with that position and the unit price that corresponds to the quantity to be nominated.

The position must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.

Any leading zeros in a position shall be suppressed.

Negative values are not allowed in time series quantities

Leading zeros in a quantity shall be suppressed before transmission.

8.8.5.1 Pos

ACTION	DESCRIPTION
Definition of element	The relative position of a period within an interval.
Description	This information provides the relative position of a period within an interval.
Size	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed. The maximum number of characters is 6.
Applicability	This information is mandatory.
Dependence requirements	None.

1738 **8.8.5.2 QTY**

ACTION	DESCRIPTION
Definition of element	The quantity that has been assigned to the nomination party
Description	This information defines the quantity that has been assigned to the nomination party for the interval in question and that is expressed in the Measurement Unit. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark included). The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

1739 **8.8.5.3 PRICE**

ACTION	DESCRIPTION
Definition of element	The price expressed for each unit of quantity as the minimum selling price
Description	The price indicated in a resale document equal to or above which the quantity may be sold. This information defines the price expressed in the unit of measurement of Price per unit of quantity in compliance with the pricing scheme based on local market rules. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part (ISO 6093) shall always be a period (“.”).
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used included).
Applicability	This information is dependent.
Dependence requirements	The Price Amount is mandatory in the case of the resale of capacity for a minimum price depending on local market rules.

8.8.6 RULES GOVERNING THE REASON CLASS

The Reason class may provide any coded or textual information that is necessary to completely describe the conditions of the rights that are defined.

8.8.6.1 REASONCODE

ACTION	DESCRIPTION
Definition of element	A code providing the status of the rights.
Description	The reason code provides the status of the rights identified. As many reason elements as necessary may be used. A75: Rights status information. A97: Force majeure curtailment A98: Network security curtailment Other codes in the ENTSO-E Core Component Code list may be used as required
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is at the time series level to provide related explanatory information.

8.8.6.2 REASONTEXT

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of the allocation then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an error.

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9 XML DEFINITIONS

9.1 CAPACITY DOCUMENT

9.1.1 SCHEMA STRUCTURE

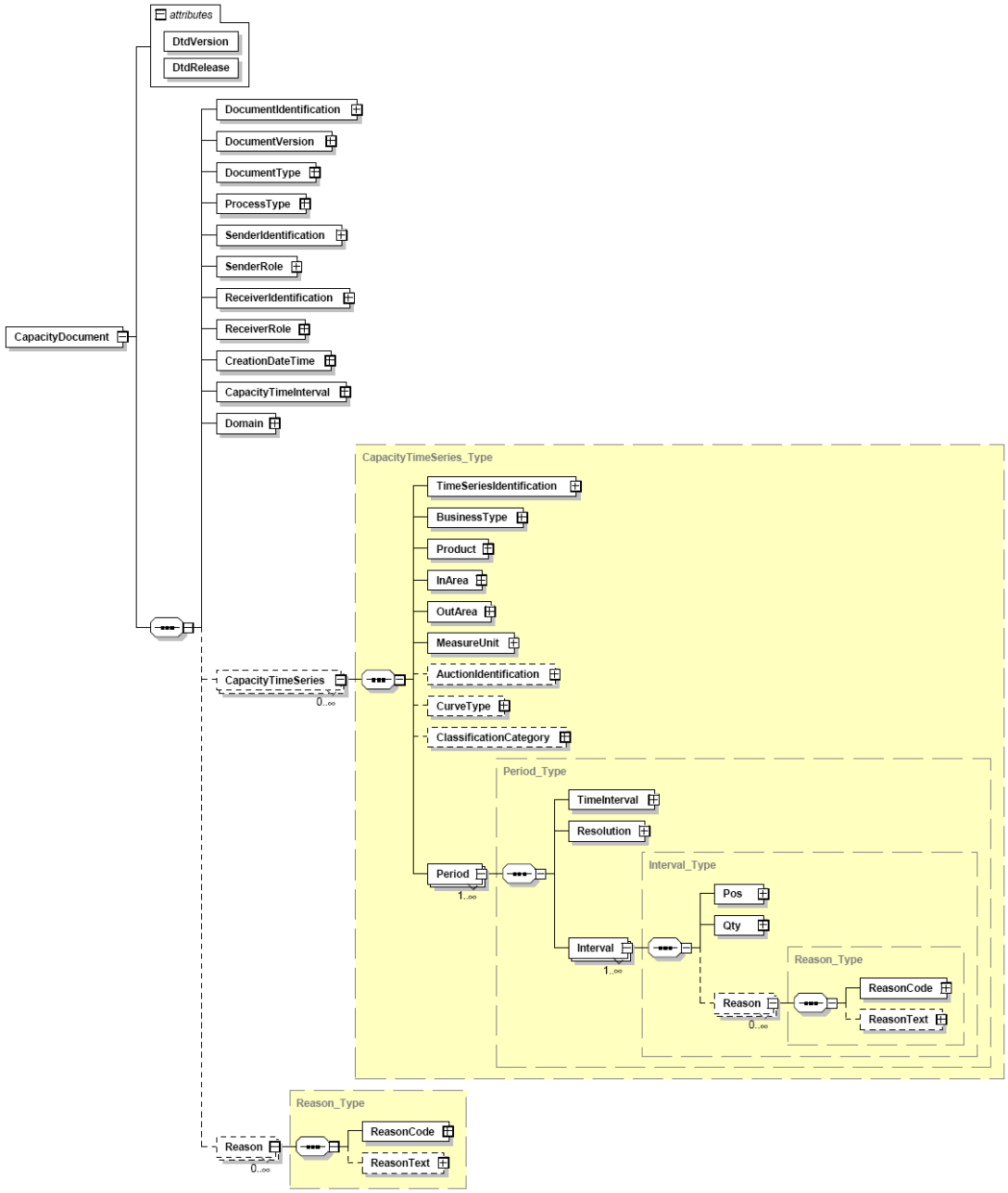

FIGURE 29: CAPACITY DOCUMENT – XML SCHEMA MODEL

9.1.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="CapacityTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeSeriesIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BusinessType" type="ecc:BusinessType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Product" type="ecc:EnergyProductType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="InArea" type="ecc:AreaType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
```

```
                </xsd:element>
                <xsd:element name="OutArea" type="ecc:AreaType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="AuctionIdentification" type="ecc:IdentificationType" minOccurs="0">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="CurveType" type="ecc:CurveType" minOccurs="0">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="ClassificationCategory" type="ecc:CategoryType" minOccurs="0">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
            </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="CapacityDocument">
            <xsd:complexType>
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                    <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="DocumentVersion" type="ecc:VersionType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="DocumentType" type="ecc:MessageType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="ProcessType" type="ecc:ProcessType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SenderIdentification" type="ecc:PartyType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SenderRole" type="ecc:RoleType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="ReceiverRole" type="ecc:RoleType">
```

```
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="CapacityTimeInterval" type="ecc:TimeIntervalType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Domain" type="ecc:AreaType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="CapacityTimeSeries" type="CapacityTimeSeries_Type"
minOccurs="0" maxOccurs="unbounded"/>
                                <xsd:element name="Reason" type="Reason_Type" minOccurs="0"
maxOccurs="unbounded"/>
                        </xsd:sequence>
                        <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                        <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                </xsd:complexType>
        </xsd:element>
        <xsd:complexType name="Reason_Type">
                <xsd:annotation>
                        <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="ReasonCode" type="ecc:ReasonCodeType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                </xsd:sequence>
        </xsd:complexType>
</xsd:schema>
```

9.2 CAPACITY AUCTION SPECIFICATION

9.2.1 SCHEMA STRUCTURE

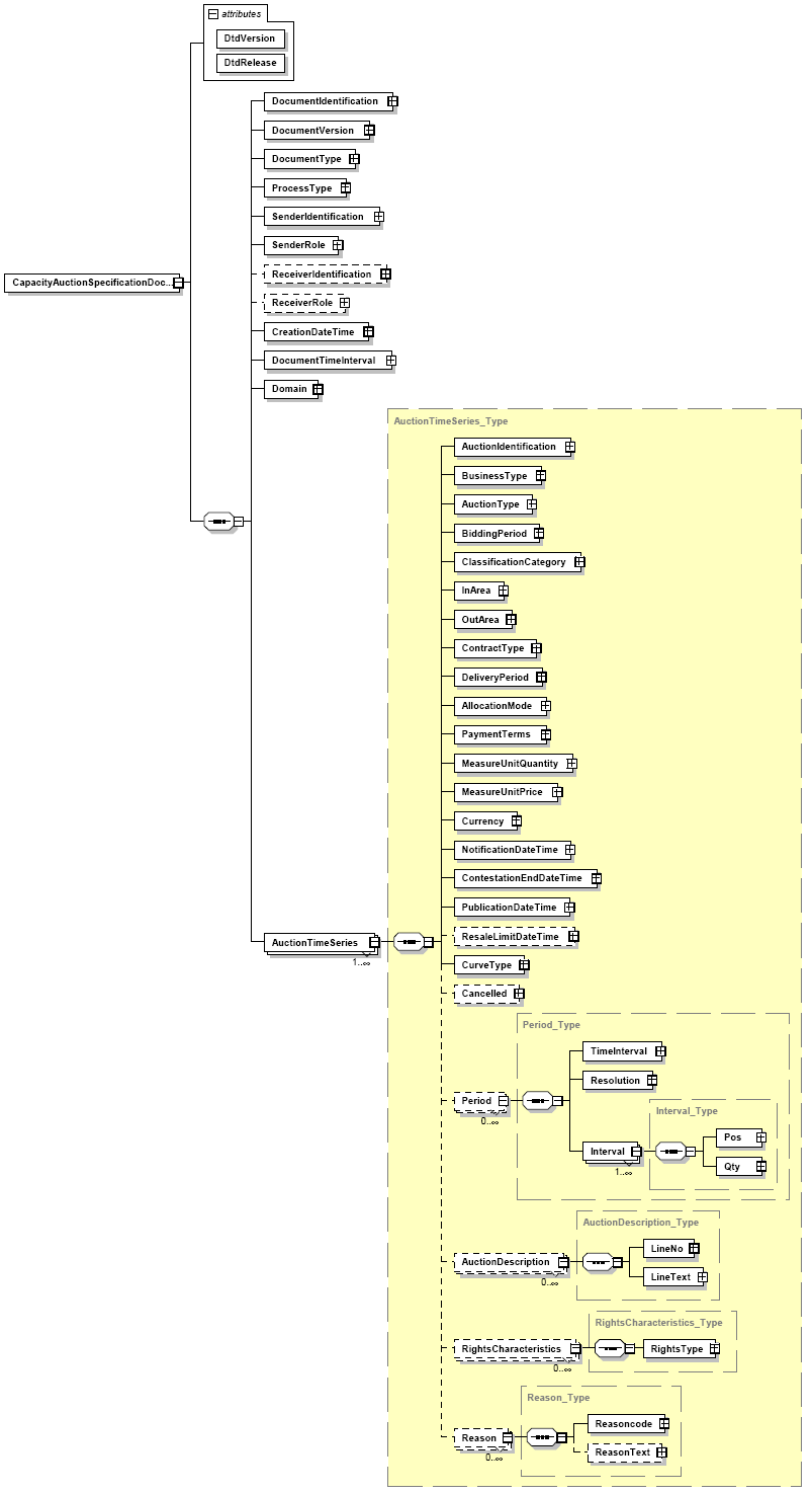

FIGURE 30: CAPACITY AUCTION SPECIFICATION SCHEMA MODEL

9.2.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="AuctionTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="AuctionIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BusinessType" type="ecc:BusinessType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AuctionType" type="ecc:AuctionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BiddingPeriod" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
```

```
<xsd:element name="ClassificationCategory" type="ecc:CategoryType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="InArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="OutArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContractType" type="ecc:ContractType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="DeliveryPeriod" type="ecc:TimeIntervalType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="AllocationMode" type="ecc:AllocationModeType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="PaymentTerms" type="ecc:PaymentTermsType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="Currency" type="ecc:CurrencyType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="NotificationDateTime" type="ecc:MessageDateTimeType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContestationEndDateTime" type="ecc:MessageDateTimeType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="PublicationDateTime" type="ecc:MessageDateTimeType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ResaleLimitDateTime" type="ecc:MessageDateTimeType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="CurveType" type="ecc:CurveType">
```

```
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Cancelled" type="ecc:IndicatorType" minOccurs="0">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Period" type="Period_Type" minOccurs="0" maxOccurs="unbounded"/>
                                <xsd:element name="AuctionDescription" type="AuctionDescription_Type" minOccurs="0"
maxOccurs="unbounded"/>
                                <xsd:element name="RightsCharacteristics" type="RightsCharacteristics_Type" minOccurs="0"
maxOccurs="unbounded"/>
                                <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:complexType>
                <xsd:element name="CapacityAuctionSpecificationDocument">
                        <xsd:complexType>
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                                <xsd:sequence>
                                        <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="DocumentVersion" type="ecc:VersionType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="DocumentType" type="ecc:MessageType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ProcessType" type="ecc:ProcessType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SenderIdentification" type="ecc:PartyType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SenderRole" type="ecc:RoleType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverIdentification" type="ecc:PartyType" minOccurs="0">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverRole" type="ecc:RoleType" minOccurs="0">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="DocumentTimeInterval" type="ecc:TimeIntervalType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
```

```
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Domain" type="ecc:AreaType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="AuctionTimeSeries" type="AuctionTimeSeries_Type"
maxOccurs="unbounded"/>
                        </xsd:sequence>
                        <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                        <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                </xsd:complexType>
        </xsd:element>
        <xsd:complexType name="AuctionDescription_Type">
                <xsd:annotation>
                        <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="LineNo" type="ecc:PositionType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="LineText" type="ecc:ReasonTextType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:complexType name="RightsCharacteristics_Type">
                <xsd:annotation>
                        <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="RightsType" type="ecc:RightsType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:complexType name="Reason_Type">
                <xsd:annotation>
                        <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="Reasoncode" type="ecc:ReasonCodeType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                </xsd:sequence>
        </xsd:complexType>
</xsd:schema>
```

2212 # 9.3 BID DOCUMENT

2213 ## 9.3.1 SCHEMA STRUCTURE

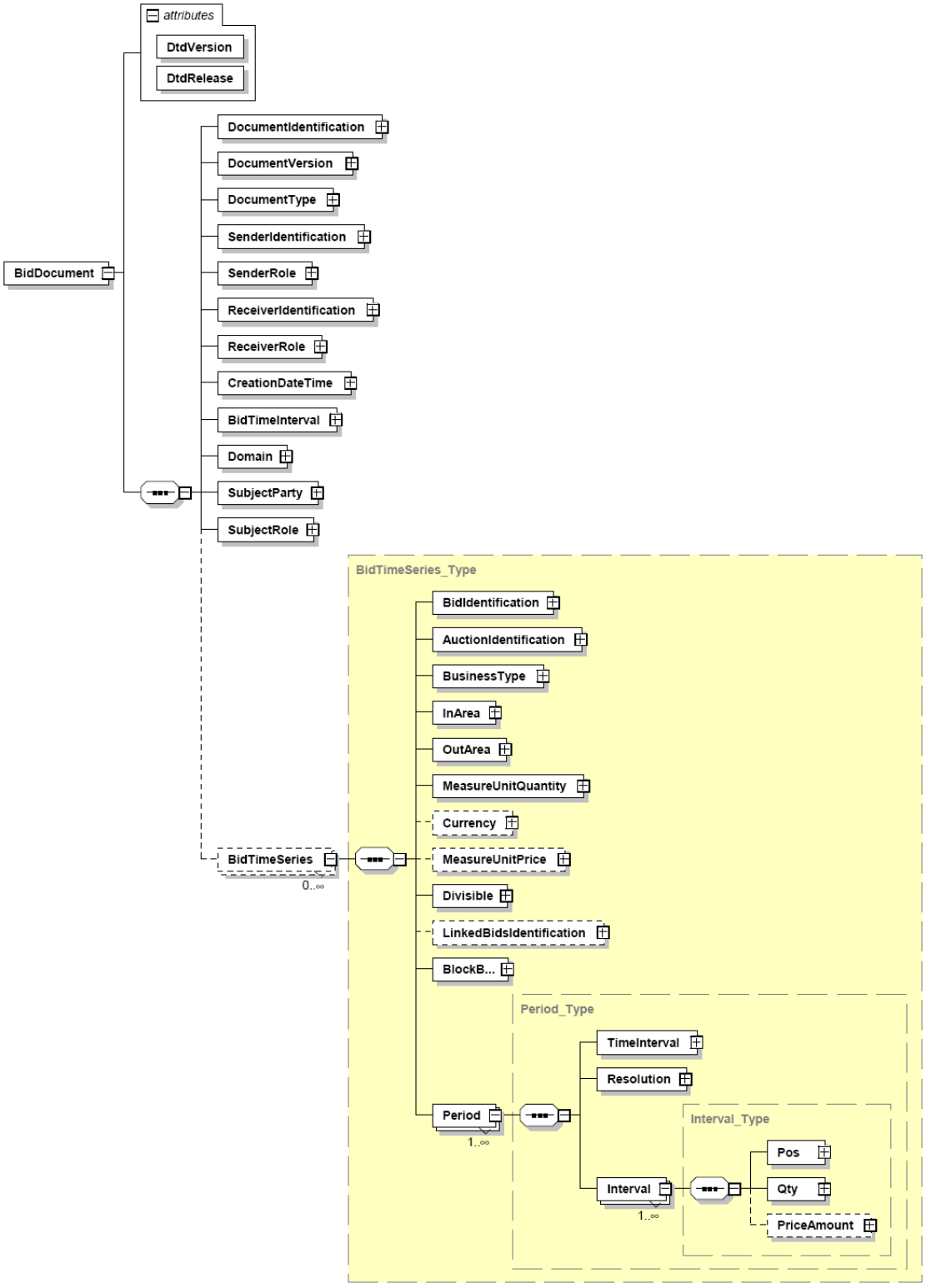

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FIGURE 31: BID DOCUMENT SCHEMA MODEL

9.3.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="PriceAmount" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="BidTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="BidIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AuctionIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BusinessType" type="ecc:BusinessType">
				<xsd:annotation>
					<xsd:documentation/>
```

```
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="InArea" type="ecc:AreaType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="OutArea" type="ecc:AreaType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="Currency" type="ecc:CurrencyType" minOccurs="0">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType" minOccurs="0">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="Divisible" type="ecc:IndicatorType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="LinkedBidsIdentification" type="ecc:IdentificationType" minOccurs="0">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="BlockBid" type="ecc:IndicatorType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
                </xsd:sequence>
            </xsd:complexType>
            <xsd:element name="BidDocument">
                <xsd:complexType>
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                    <xsd:sequence>
                        <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                            <xsd:annotation>
                                <xsd:documentation/>
                            </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="DocumentVersion" type="ecc:VersionType">
                            <xsd:annotation>
                                <xsd:documentation/>
                            </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="DocumentType" type="ecc:MessageType">
                            <xsd:annotation>
                                <xsd:documentation/>
                            </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="SenderIdentification" type="ecc:PartyType">
                            <xsd:annotation>
                                <xsd:documentation/>
                            </xsd:annotation>
                        </xsd:element>
```

```
                                        <xsd:element name="SenderRole" type="ecc:RoleType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverRole" type="ecc:RoleType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="BidTimeInterval" type="ecc:TimeIntervalType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="Domain" type="ecc:AreaType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SubjectParty" type="ecc:PartyType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SubjectRole" type="ecc:RoleType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="BidTimeSeries" type="BidTimeSeries_Type" minOccurs="0"
maxOccurs="unbounded"/>
                                </xsd:sequence>
                                <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                                <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                        </xsd:complexType>
                </xsd:element>
</xsd:schema>
```

9.4 ALLOCATION RESULTS DOCUMENT

9.4.1 SCHEMA STRUCTURE

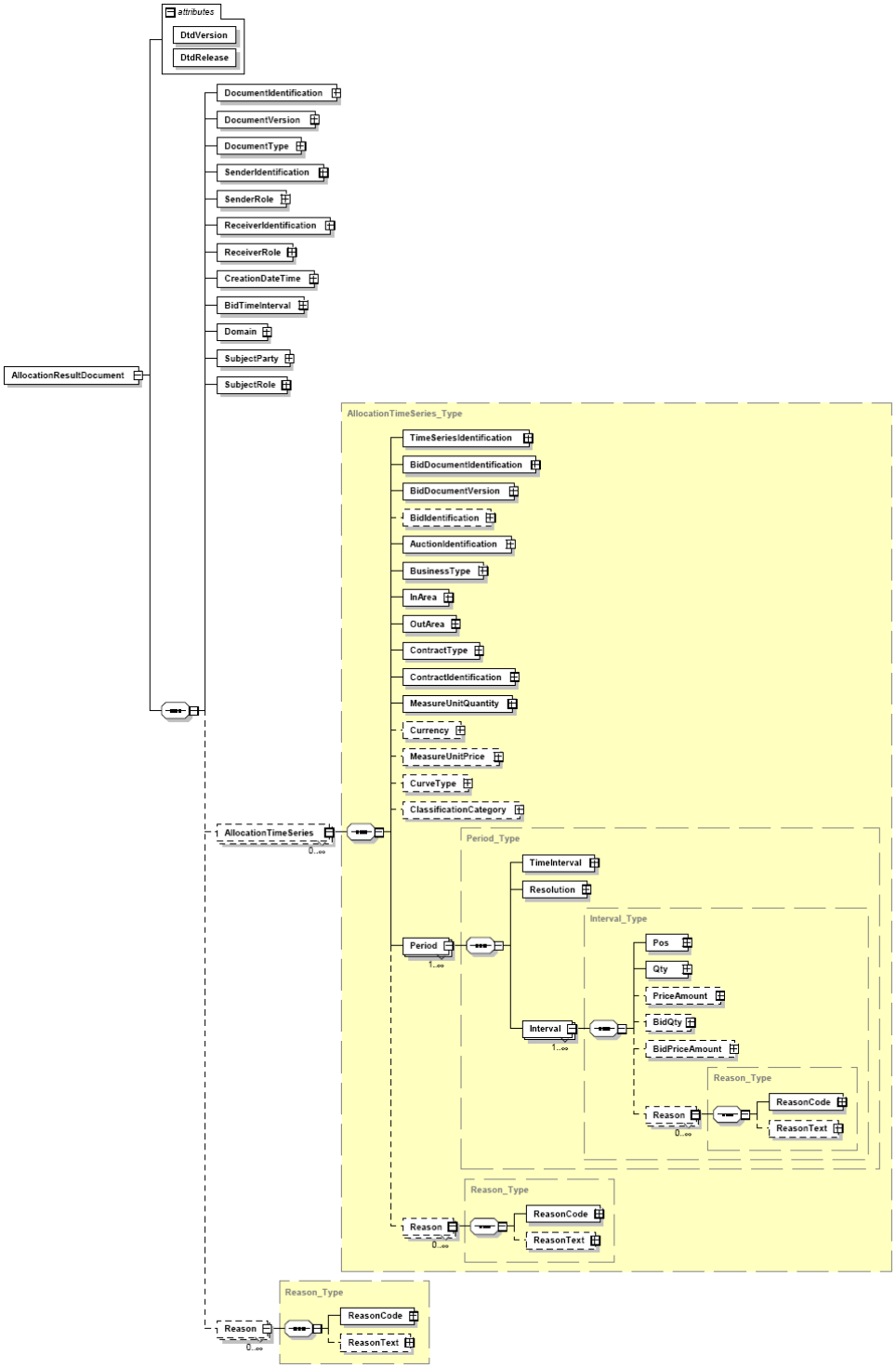

FIGURE 32: ALLOCATION RESULTS DOCUMENT SCHEMA MODEL

9.4.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="PriceAmount" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BidQty" type="ecc:QuantityType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BidPriceAmount" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="AllocationTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeSeriesIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
```

```
</xsd:element>
<xsd:element name="BidDocumentIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BidDocumentVersion" type="ecc:VersionType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BidIdentification" type="ecc:IdentificationType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="AuctionIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BusinessType" type="ecc:BusinessType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="InArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="OutArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContractType" type="ecc:ContractType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContractIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="Currency" type="ecc:CurrencyType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="CurveType" type="ecc:CurveType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ClassificationCategory" type="ecc:CategoryType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
```

```
                <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
                <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
            </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="AllocationResultDocument">
            <xsd:complexType>
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                    <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="DocumentVersion" type="ecc:VersionType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="DocumentType" type="ecc:MessageType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SenderIdentification" type="ecc:PartyType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SenderRole" type="ecc:RoleType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="ReceiverRole" type="ecc:RoleType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="BidTimeInterval" type="ecc:TimeIntervalType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="Domain" type="ecc:AreaType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SubjectParty" type="ecc:PartyType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
                    <xsd:element name="SubjectRole" type="ecc:RoleType">
                        <xsd:annotation>
                            <xsd:documentation/>
                        </xsd:annotation>
                    </xsd:element>
```

```
                                        <xsd:element name="AllocationTimeSeries" type="AllocationTimeSeries_Type"
minOccurs="0" maxOccurs="unbounded"/>
                                        <xsd:element name="Reason" type="Reason_Type" minOccurs="0"
maxOccurs="unbounded"/>
                                </xsd:sequence>
                                <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                                <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                        </xsd:complexType>
                </xsd:element>
                <xsd:complexType name="Reason_Type">
                        <xsd:annotation>
                                <xsd:documentation/>
                        </xsd:annotation>
                        <xsd:sequence>
                                <xsd:element name="ReasonCode" type="ecc:ReasonCodeType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                        </xsd:sequence>
                </xsd:complexType>
</xsd:schema>
```


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9.5 TOTAL ALLOCATION RESULTS DOCUMENT

9.5.1 SCHEMA STRUCTURE

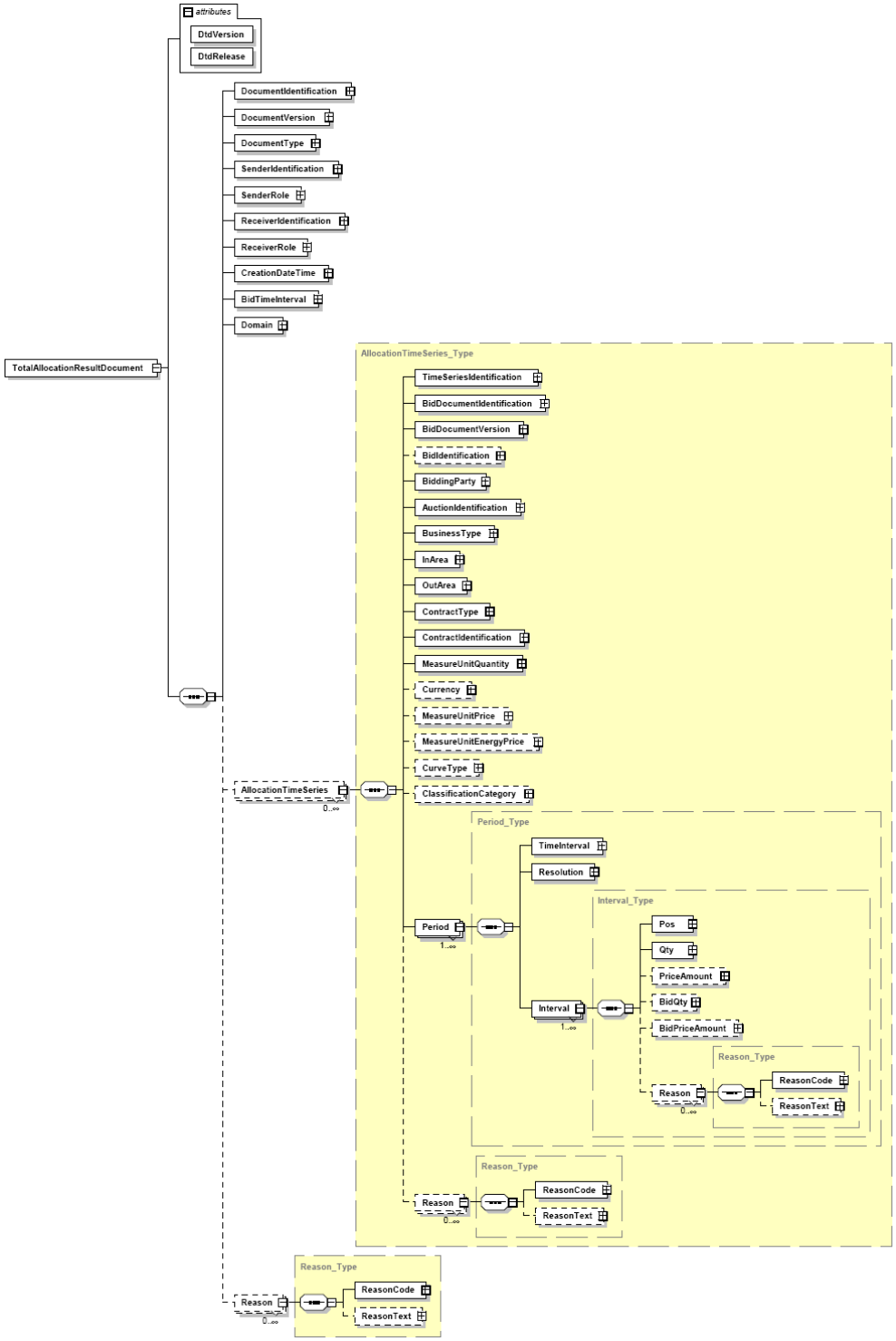

FIGURE 33: TOTAL ALLOCATION RESULTS DOCUMENT SCHEMA MODEL

9.5.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="PriceAmount" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BidQty" type="ecc:QuantityType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="BidPriceAmount" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="AllocationTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeSeriesIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
```

```
</xsd:element>
<xsd:element name="BidDocumentIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BidDocumentVersion" type="ecc:VersionType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BidIdentification" type="ecc:IdentificationType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BiddingParty" type="ecc:PartyType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="AuctionIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="BusinessType" type="ecc:BusinessType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="InArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="OutArea" type="ecc:AreaType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContractType" type="ecc:ContractType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="ContractIdentification" type="ecc:IdentificationType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="Currency" type="ecc:CurrencyType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
<xsd:element name="MeasureUnitEnergyPrice" type="ecc:UnitOfMeasureType" minOccurs="0">
	<xsd:annotation>
		<xsd:documentation/>
	</xsd:annotation>
</xsd:element>
```

```
                        <xsd:element name="CurveType" type="ecc:CurveType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="ClassificationCategory" type="ecc:CategoryType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
                        <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="TotalAllocationResultDocument">
                <xsd:complexType>
                        <xsd:annotation>
                                <xsd:documentation/>
                        </xsd:annotation>
                        <xsd:sequence>
                                <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="DocumentVersion" type="ecc:VersionType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="DocumentType" type="ecc:MessageType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="SenderIdentification" type="ecc:PartyType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="SenderRole" type="ecc:RoleType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReceiverRole" type="ecc:RoleType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="BidTimeInterval" type="ecc:TimeIntervalType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Domain" type="ecc:AreaType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
```

```
2857                                    <xsd:element name="AllocationTimeSeries" type="AllocationTimeSeries_Type"
2858 minOccurs="0" maxOccurs="unbounded"/>
2859                                    <xsd:element name="Reason" type="Reason_Type" minOccurs="0"
2860 maxOccurs="unbounded"/>
2861                                </xsd:sequence>
2862                                <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
2863                                <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
2864                        </xsd:complexType>
2865                </xsd:element>
2866                <xsd:complexType name="Reason_Type">
2867                        <xsd:annotation>
2868                                <xsd:documentation/>
2869                        </xsd:annotation>
2870                        <xsd:sequence>
2871                                <xsd:element name="ReasonCode" type="ecc:ReasonCodeType">
2872                                        <xsd:annotation>
2873                                                <xsd:documentation/>
2874                                        </xsd:annotation>
2875                                </xsd:element>
2876                                <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
2877                                        <xsd:annotation>
2878                                                <xsd:documentation/>
2879                                        </xsd:annotation>
2880                                </xsd:element>
2881                        </xsd:sequence>
2882                </xsd:complexType>
2883 </xsd:schema>
```

9.6 IMPLICIT ALLOCATION RESULTS DOCUMENT

9.6.1 SCHEMA STRUCTURE

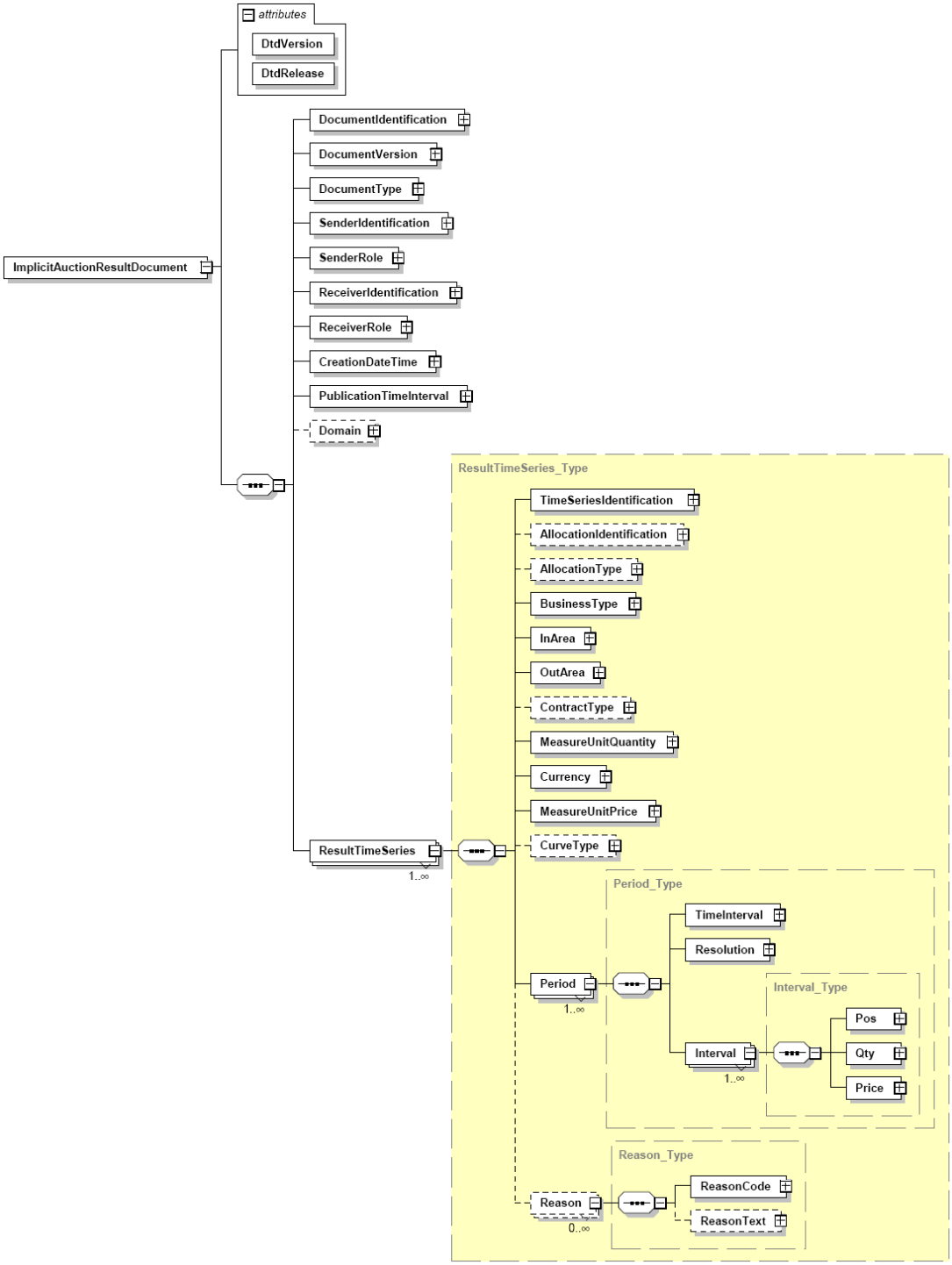

FIGURE 34: IMPLICIT AUCTION RESULTS DOCUMENT SCHEMA MODEL

9.6.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Price" type="ecc:AmountType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="ResultTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeSeriesIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AllocationIdentification" type="ecc:IdentificationType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AllocationType" type="ecc:AuctionType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
```

```
                        <xsd:element name="BusinessType" type="ecc:BusinessType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="InArea" type="ecc:AreaType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="OutArea" type="ecc:AreaType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="ContractType" type="ecc:ContractType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="Currency" type="ecc:CurrencyType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="CurveType" type="ecc:CurveType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
                        <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="ImplicitAuctionResultDocument">
                <xsd:complexType>
                        <xsd:annotation>
                                <xsd:documentation/>
                        </xsd:annotation>
                        <xsd:sequence>
                                <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="DocumentVersion" type="ecc:VersionType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="DocumentType" type="ecc:MessageType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="SenderIdentification" type="ecc:PartyType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="SenderRole" type="ecc:RoleType">
```

```
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReceiverRole" type="ecc:RoleType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="PublicationTimeInterval" type="ecc:TimeIntervalType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="Domain" type="ecc:AreaType" minOccurs="0">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ResultTimeSeries" type="ResultTimeSeries_Type"
maxOccurs="unbounded"/>
                        </xsd:sequence>
                        <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                        <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                </xsd:complexType>
        </xsd:element>
        <xsd:complexType name="Reason_Type">
                <xsd:annotation>
                        <xsd:documentation/>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="ReasonCode" type="ecc:ReasonCodeType">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
                                <xsd:annotation>
                                        <xsd:documentation/>
                                </xsd:annotation>
                        </xsd:element>
                </xsd:sequence>
        </xsd:complexType>
</xsd:schema>
```

9.7 PUBLICATION DOCUMENT

9.7.1 SCHEMA STRUCTURE

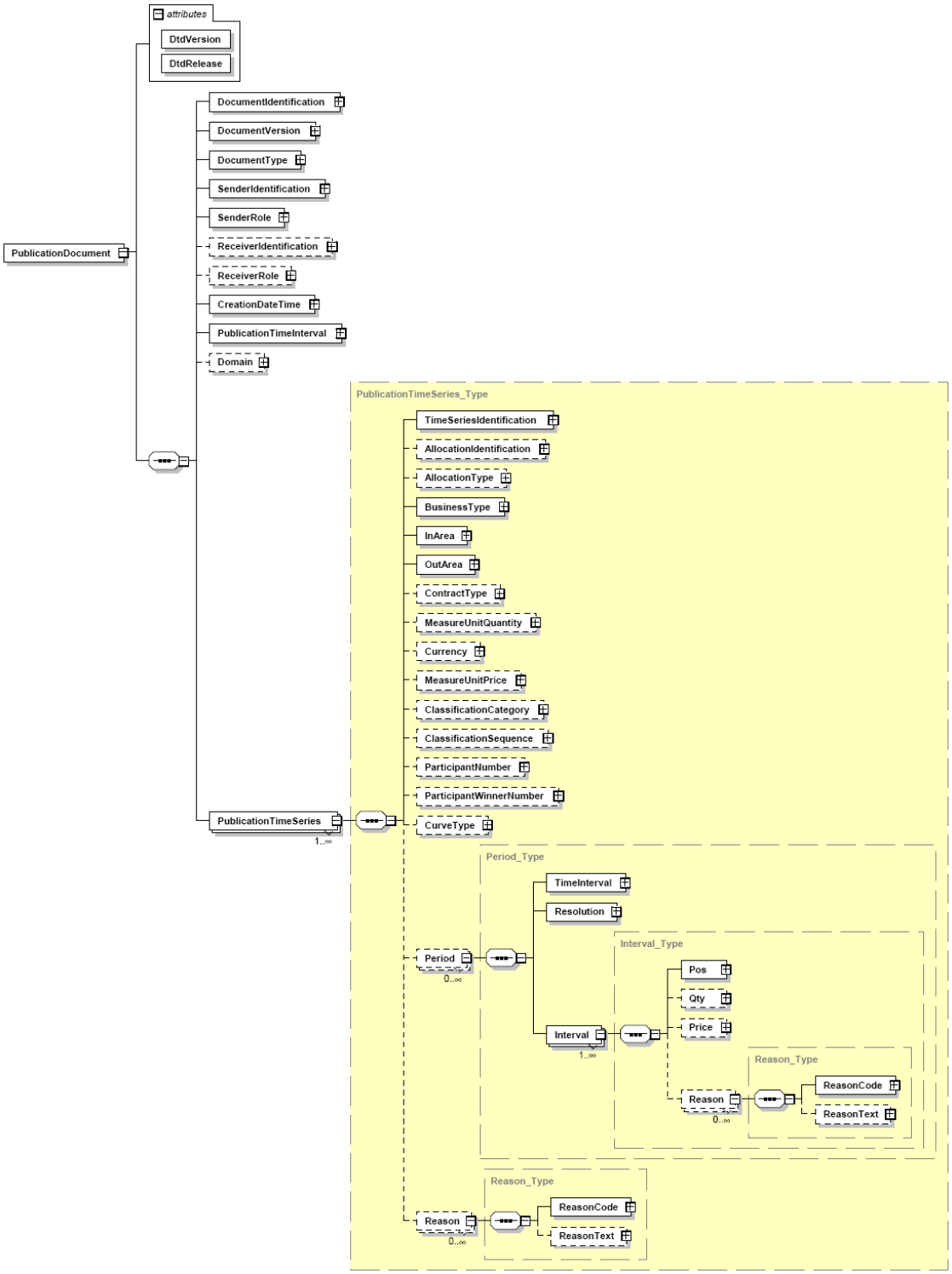

FIGURE 35: PUBLICATION DOCUMENT SCHEMA MODEL

9.7.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Qty" type="ecc:QuantityType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Price" type="ecc:AmountType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="Period_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Resolution" type="ecc:ResolutionType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="Interval" type="Interval_Type" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:complexType name="PublicationTimeSeries_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="TimeSeriesIdentification" type="ecc:IdentificationType">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AllocationIdentification" type="ecc:IdentificationType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
			</xsd:element>
			<xsd:element name="AllocationType" type="ecc:AuctionType" minOccurs="0">
				<xsd:annotation>
					<xsd:documentation/>
				</xsd:annotation>
```

```
3155                    </xsd:element>
3156                    <xsd:element name="BusinessType" type="ecc:BusinessType">
3157                        <xsd:annotation>
3158                            <xsd:documentation/>
3159                        </xsd:annotation>
3160                    </xsd:element>
3161                    <xsd:element name="InArea" type="ecc:AreaType">
3162                        <xsd:annotation>
3163                            <xsd:documentation/>
3164                        </xsd:annotation>
3165                    </xsd:element>
3166                    <xsd:element name="OutArea" type="ecc:AreaType">
3167                        <xsd:annotation>
3168                            <xsd:documentation/>
3169                        </xsd:annotation>
3170                    </xsd:element>
3171                    <xsd:element name="ContractType" type="ecc:ContractType" minOccurs="0">
3172                        <xsd:annotation>
3173                            <xsd:documentation/>
3174                        </xsd:annotation>
3175                    </xsd:element>
3176                    <xsd:element name="MeasureUnitQuantity" type="ecc:UnitOfMeasureType" minOccurs="0">
3177                        <xsd:annotation>
3178                            <xsd:documentation/>
3179                        </xsd:annotation>
3180                    </xsd:element>
3181                    <xsd:element name="Currency" type="ecc:CurrencyType" minOccurs="0">
3182                        <xsd:annotation>
3183                            <xsd:documentation/>
3184                        </xsd:annotation>
3185                    </xsd:element>
3186                    <xsd:element name="MeasureUnitPrice" type="ecc:UnitOfMeasureType" minOccurs="0">
3187                        <xsd:annotation>
3188                            <xsd:documentation/>
3189                        </xsd:annotation>
3190                    </xsd:element>
3191                    <xsd:element name="ClassificationCategory" type="ecc:CategoryType" minOccurs="0">
3192                        <xsd:annotation>
3193                            <xsd:documentation/>
3194                        </xsd:annotation>
3195                    </xsd:element>
3196                    <xsd:element name="ClassificationSequence" type="ecc:PositionType" minOccurs="0">
3197                        <xsd:annotation>
3198                            <xsd:documentation/>
3199                        </xsd:annotation>
3200                    </xsd:element>
3201                    <xsd:element name="ParticipantNumber" type="ecc:QuantityType" minOccurs="0">
3202                        <xsd:annotation>
3203                            <xsd:documentation/>
3204                        </xsd:annotation>
3205                    </xsd:element>
3206                    <xsd:element name="ParticipantWinnerNumber" type="ecc:QuantityType" minOccurs="0">
3207                        <xsd:annotation>
3208                            <xsd:documentation/>
3209                        </xsd:annotation>
3210                    </xsd:element>
3211                    <xsd:element name="CurveType" type="ecc:CurveType" minOccurs="0">
3212                        <xsd:annotation>
3213                            <xsd:documentation/>
3214                        </xsd:annotation>
3215                    </xsd:element>
3216                    <xsd:element name="Period" type="Period_Type" minOccurs="0" maxOccurs="unbounded"/>
3217                    <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
3218                </xsd:sequence>
3219            </xsd:complexType>
3220            <xsd:element name="PublicationDocument">
3221                <xsd:complexType>
3222                    <xsd:annotation>
3223                        <xsd:documentation/>
3224                    </xsd:annotation>
3225                    <xsd:sequence>
```

```
                                        <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="DocumentVersion" type="ecc:VersionType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="DocumentType" type="ecc:MessageType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SenderIdentification" type="ecc:PartyType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="SenderRole" type="ecc:RoleType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverIdentification" type="ecc:PartyType" minOccurs="0">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="ReceiverRole" type="ecc:RoleType" minOccurs="0">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="PublicationTimeInterval" type="ecc:TimeIntervalType">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="Domain" type="ecc:AreaType" minOccurs="0">
                                                <xsd:annotation>
                                                        <xsd:documentation/>
                                                </xsd:annotation>
                                        </xsd:element>
                                        <xsd:element name="PublicationTimeSeries" type="PublicationTimeSeries_Type"
maxOccurs="unbounded"/>
                                </xsd:sequence>
                                <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
                                <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
                        </xsd:complexType>
                </xsd:element>
                <xsd:complexType name="Reason_Type">
                        <xsd:annotation>
                                <xsd:documentation/>
                        </xsd:annotation>
                        <xsd:sequence>
                                <xsd:element name="ReasonCode" type="ecc:ReasonCodeType">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
                                </xsd:element>
                                <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
                                        <xsd:annotation>
                                                <xsd:documentation/>
                                        </xsd:annotation>
```

```
3297                                    </xsd:element>
3298                                </xsd:sequence>
3299                            </xsd:complexType>
3300                        </xsd:schema>
```

9.8 RIGHTS DOCUMENT

9.8.1 SCHEMA STRUCTURE

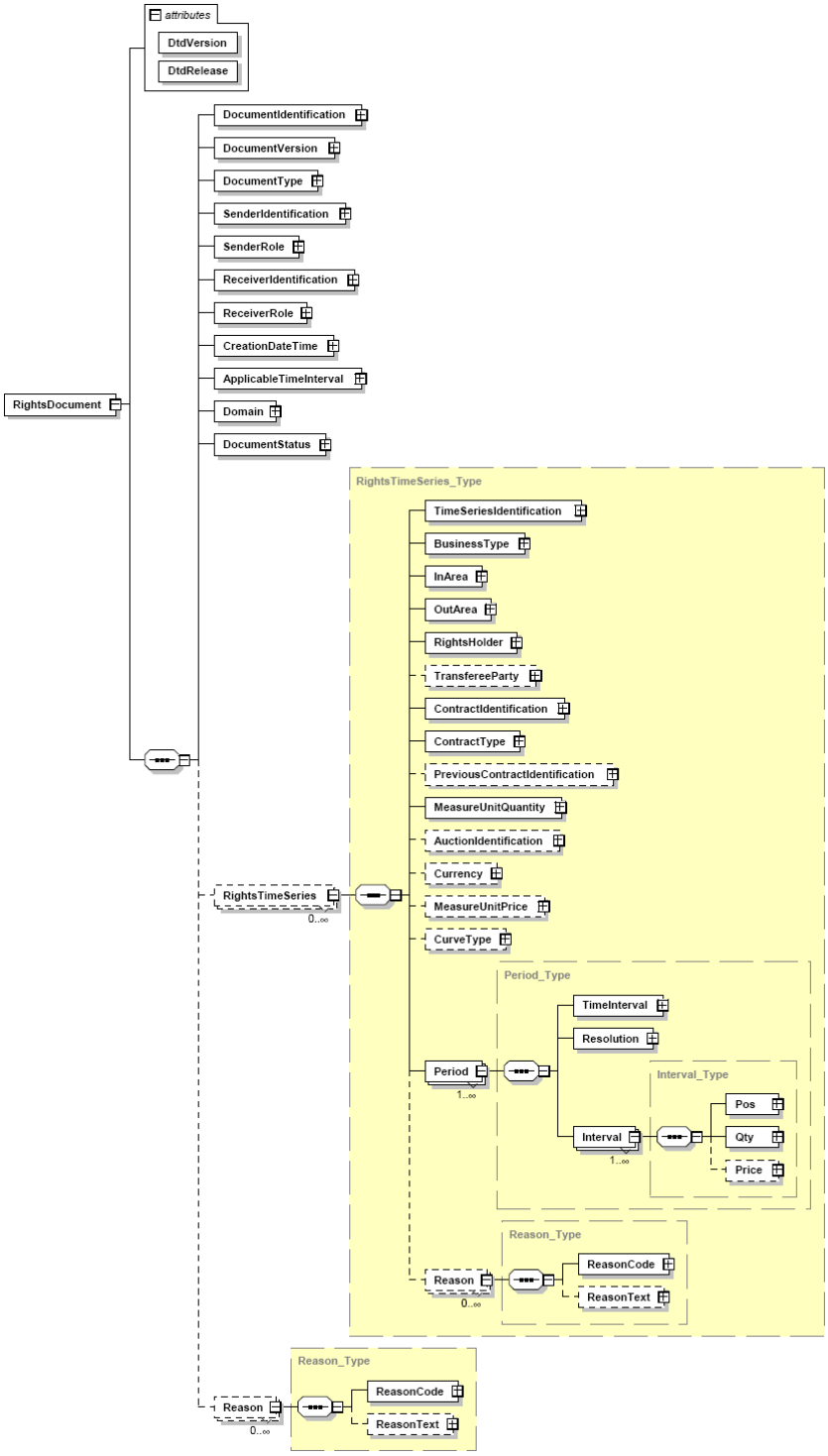

FIGURE 36: RIGHTS DOCUMENT SCHEMA MODEL

9.8.2 SCHEMA DEFINITION

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="13.0">
	<xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
	<!--
		ENTSO-E Document Automatically generated from a UML class diagram using XMI.
		Generation tool version 1.7
	-->
	<xsd:complexType name="Interval_Type">
		<xsd:annotation>
			<xsd:documentation/>
		</xsd:annotation>
		<xsd:sequence>
			<xsd:element name="Pos" type="ecc:PositionType">
				<xsd:annotation>
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10 ANNEX 1 EXTRACT OF EC REGULATION 1228/2003

It should be noted that contracts that have been signed prior to the 26 June 2003 fall within the scope of the EC Regulation No 1228/2003 on conditions for access to the network for cross-border exchanges in electricity. Concerning these contracts two points are to be noted:

1. Priority access rights to an interconnection capacity shall not be assigned to those contracts which breach Articles 81 and 82 of the EC Treaty.
2. Existing long-term contracts shall have no pre-emption rights when they come up for renewal.

Articles 81 and 82 of the EC treaty are:

Article 81

1. The following shall be prohibited as incompatible with the common market: all agreements between undertakings, decisions by associations of undertakings and concerted practices which may affect trade between Member States and which have as their object or effect the prevention, restriction or distortion of competition within the common market, and in particular those which:

   (a) directly or indirectly fix purchase or selling prices or any other trading conditions;

   (b) limit or control production, markets, technical development, or investment;

   (c) share markets or sources of supply;

   (d) apply dissimilar conditions to equivalent transactions with other trading parties, thereby placing them at a competitive disadvantage;

   (e) make the conclusion of contracts subject to acceptance by the other parties of supplementary obligations which, by their nature or according to commercial usage, have no connection with the subject of such contracts.

2. Any agreements or decisions prohibited pursuant to this article shall be automatically void.

3. The provisions of paragraph 1 may, however, be declared inapplicable in the case of:

   - any agreement or category of agreements between undertakings,
   - any decision or category of decisions by associations of undertakings,
   - any concerted practice or category of concerted practices,

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which contributes to improving the production or distribution of goods or to promoting technical or economic progress, while allowing consumers a fair share of the resulting benefit, and which does not:

(a) impose on the undertakings concerned restrictions which are not indispensable to the attainment of these objectives;

(b) afford such undertakings the possibility of eliminating competition in respect of a substantial part of the products in question.

Article 82

Any abuse by one or more undertakings of a dominant position within the common market or in a substantial part of it shall be prohibited as incompatible with the common market in so far as it may affect trade between Member States.

Such abuse may, in particular, consist in:

(a) directly or indirectly imposing unfair purchase or selling prices or other unfair trading conditions;

(b) limiting production, markets or technical development to the prejudice of consumers;

(c) applying dissimilar conditions to equivalent transactions with other trading parties, thereby placing them at a competitive disadvantage;

(d) making the conclusion of contracts subject to acceptance by the other parties of supplementary obligations which, by their nature or according to commercial usage, have no connection with the subject of such contracts.

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