



European Network of  
Transmission System Operators  
for Electricity

*CENTRAL INFORMATION  
TRANSPARENCY PLATFORM  
-  
BUSINESS REQUIREMENTS  
SPECIFICATION*

2023-11-10

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APPROVED  
VERSION 3 / RELEASE 4

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## 101 REVISION HISTORY

Version	Release	Date	Comments
1	3	2014-01-28	Final document for inclusion in Manual of Procedures
2	0	2016-11-28	<p>Amended within the scope of the general revision of the manual of procedures.</p> <p>Amendments by ENTSO-E secretariat legal team.</p> <p>Incorporation of corrigendum.</p> <p>General editorial overhaul.</p> <p>Introduced flow-based allocations, amending chapters on articles 11.1.a, 12.1.e and allocation configuration.</p> <p>Inclusion of impact becomes conditional in articles 10.1.a&amp;b.</p> <p>Introduced validation against overlapping outages. Clarified that recurring outages are to be submitted as several time series.</p> <p>7.1.a&amp;b: Aggregated values only are published. Introduced curves instead of constant available capacity.</p> <p>9.1: Can be submitted also as a PDF report.</p> <p>12.1.a: Alternative submission of auction revenue in disaggregated format. Prices are not mandatory if allocated capacity is zero.</p> <p>12.1.b: Separate publications of values for intraday, day-ahead and long-term.</p> <p>12.1.e: Removed link between specific capacity allocation and net positions.</p> <p>12.1.f: Separate publications of values for day-ahead and intraday.</p> <p>12.1.g: Clarified that priorities must be the same in both directions.</p> <p>12.1.h: Added support for implicit allocations on borders with third countries.</p> <p>13.1.a: Redispatched energy will be submitted instead of capacity.</p>

Version	Release	Date	Comments
			<p>Introduced distinction between internal and cross-border redispatching. Added possibility to include comments.</p> <p>13.1.b Added possibility to include comments.</p> <p>14.1.b: No monitoring of installed capacity. Added publication of (de)commissioning date(s).</p> <p>14.1.d: Replaced single forecast by three separate per time horizon.</p> <p>15.1.a-d: Added optional filter for production or generation unit. Introduced curves instead of constant available capacity.</p> <p>17.1.b: Introduced new source type "mixed".</p> <p>17.1.d: Removed offered capacity.</p> <p>17.1.e: Unit of measurement set to MWh only.</p> <p>17.1.f: Prices may be positive as well as negative.</p> <p>17.1.h: Introduced distinction made between surplus and deficit.</p>
3	0	2018-03-20	<p>Amendments in Balancing domain due to GL EB. Added chapters on new data items corresponding to GL EB articles 12.3.a – l.</p> <p>Introduced optional Type of Product in article 17.1.f.</p> <p>Added attribute for data status in article 17.1.g.</p> <p>Introduced mandatory Reserve Type in article 17.1.j.</p> <p>Minor amendments to articles 17.1.a, 17.1.e and 17.1.h.</p>
3	1	2018-10-11	<p>Amendments in Balancing domain in response to feedback on draft MoP from ACER. Added dedicated chapter for GL EB article 12.3.a.</p> <p>Deprecated references to TR articles 17.1.a, d, e and j.</p> <p>Replaced term Market Balance Area by Scheduling Area.</p>

Version	Release	Date	Comments
			<p>Replaced term Balancing Time Unit by Imbalance Settlement Period (ISP).</p> <p>Introduced concepts of Imbalance area and Imbalance price area.</p> <p>Specified in further detail data monitoring rules for TR article 17.1.f.</p> <p>Introduced possibility to report separate market values for GL EB article 12.3.h.</p> <p>Added attribute for difference in TR article 17.1.h.</p> <p>Clarified web page navigation details due to new classification of Balancing data.</p>
3	2	2019-06-21	<p>When publishing offered capacity in implicit allocations, it will be possible to define also a round.</p> <p>All modifications to offered capacity in intraday allocations will be published under TR article 11.1.a.</p> <p>Introduced possibility to report market values, costs and benefits aggregated on regional level under EB GL articles 12.3.h&amp;i.</p> <p>Amended the area types for which PDFs shall be published under EB GL articles 12.3.d&amp;g&amp;j.</p>
3	3	2022-05-04	<p>Introduced local balancing product. Corrected cross-validation rule and clarified publication in TR article 17.1.f.</p> <p>Updates to TR art. 17.1.f to handle higher resolution of prices from aFRR platform. Also clarified price types.</p> <p>For GL EB art. 12.3.b, addition of cross-reference to detailed reason for changes to bid availability. Also added reason and activation purpose for unavailable bids.</p> <p>Introduced ability to distinguish mFRR direct and scheduled activation for EB GL art. 12.3.e.</p>



Version	Release	Date	Comments
			<p>Addition of new process for IN under EB GL art. 12.3.k.</p> <p>Under TR art. 17.1.g, h and i; editorial change of status for published document.</p> <p>Merged publications of TR art. 17.1.b&amp;c. Contract type made optional, procurement timestamp and type of product introduced.</p> <p>Corresponding updates made to EB GL art. 12.3.f: Time horizon optional, introduced procurement timestamp.</p> <p>Aligned TR 17.1.g with methodology for harmonized imbalance settlement: Introduced optional price components, single or dual pricing, deprecated separate prices for generation and consumption.</p> <p>Volumes and prices of balancing energy bids based on standard aFRR product, but selected for activation locally by TSO, will be reported separately under TR art. 17.1.f and EB GL art. 12.3.e.</p>
3	4	2023-11-10	<p>Introduced continuous allocations:</p> <p>Publication of TR 11.1.a Evolution of offered capacity is in scope for continuous allocations only. This is the only publication in scope for continuous allocations.</p> <p>Publication under TR 12.1.d renamed to Energy Prices and introduced support for optional publication of intraday prices, possibly with several rounds covering the same delivery period.</p> <p>Under TR 12.1.e, introduced the possibility to publish congestion income per round.</p> <p>Publications under TR.12.1.e Intraday net positions replaced by Total net positions.</p> <p>Added publication of net positions under TR 12.1.f.</p>

Version	Release	Date	Comments
			<p>Suppressed distinction market coupling/splitting which was recorded internally in transparency platform for informational purposes only.</p> <p>Clarified visibility of transmission assets, consumption units and production and generation units toward different categories of users.</p> <p>Under TR article 11.1.b, de-anonymisation of the transmission assets and publication of additional parameters relevant to flow-based allocations. Added attributes F_uaf and minRAM_target for Core region.</p>

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105 REFERENCE DOCUMENTS

- 106 [1] Commission Regulation (EU) N° 543/2013 of 14 June 2013 on submission and  
107 publication of data in electricity markets and amending Annex I to Regulation (EC) No  
108 714/2009 of the European Parliament and of the Council, referred to as TR in this document
- 109 [3] Detailed Data Descriptions – MoP Ref02
- 110 [4] Implementation Guides – MoP Ref05 through Ref09
- 111 [5] ENTSO-E Acknowledgement Document (EAD) Implementation Guide – version 5.1
- 112 [6] EMR Glossary: [link](#)
- 113 [7] ETSO Problem Statement Document Implementation Guide version 2.0 – MoP Ref16
- 114 [8] The Harmonised Electricity Market Role Model
- 115 [9] Manual of Procedures
- 116 [11] ECAN Implementation Guide v5r0: [link](#)
- 117 [12] Commission Regulation (EU) N° 2195/2017 of 23 November 2017 establishing a  
118 guideline on electricity balancing, referred to as GL EB in this document
- 119 [13] Implementation guide for the Transparency Platform EB GL process – MoP Ref22

120 Note concerning wording used in this document:

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

123 · MUST: This word, or the terms “REQUIRED” or “SHALL”, means that the definition is  
124 an absolute requirement of the specification.

125 · MUST NOT: This phrase, or the phrase “SHALL NOT”, means that the definition is an  
126 absolute prohibition of the specification.

127 · SHOULD: This word, or the adjective “RECOMMENDED”, means that there may exist  
128 valid reasons in particular circumstances to ignore a particular item, but the full implications  
129 must be understood and carefully weighed before choosing a different course.

130 · SHOULD NOT: This phrase, or the phrase “NOT RECOMMENDED”, means that there  
131 may exist valid reasons in particular circumstances when the particular behaviour is acceptable  
132 or even useful, but the full implications should be understood and the case carefully weighed  
133 before implementing any behaviour described with this label.

134 MAY: This word, or the adjective «OPTIONAL», means that an item is truly optional.  
135 One vendor may choose to include the item because a particular marketplace requires it or  
136 because the vendor feels that it enhances the product while another vendor may omit the same  
137 item. An implementation which does not include a particular option MUST be prepared to  
138 interoperate with another implementation which does include the option, though perhaps with  
139 reduced functionality. In the same vein an implementation which does include a particular  
140 option MUST be prepared to interoperate with another implementation which does not include  
141 the option (except, of course, for the feature the option provides.)

142 Diagrams are for illustrative purposes only and do not constitute fully detailed definition of data  
143 structures.

## 1 INTRODUCTION

The current transparency platform of the ENTSO for Electricity, entsoe.net, was developed as a tool for compliance with the *Congestion Management Guidelines* (CMG) and the *Guidelines of Good Practice on Information Management and Transparency in Electricity Markets* (GGP-IMT).

The European Commission has issued a new Transparency Regulation [1] on submission and publication of data in electricity markets. The requirements arising from the Transparency Regulation implies a significant extension of the scope of the existing entsoe.net transparency platform. The ENTSO for Electricity is responsible for ensuring that the transparency platform complies with the Transparency Regulation and proposes to develop a new platform, the central information transparency platform, hereafter referred to as “the platform”, which will support the full scope of the Transparency Regulation.

The project objectives are:

- To develop and maintain the platform in accordance and compliance with the Transparency Regulation,
- To establish standardised methods of communication between the platform and the data providers and the users,
- Be responsive to user and customer needs,
- To ensure a high-quality publication process of the data available to the users of the platform,
- To facilitate publication of the mandated information,
- Enable “transparency” data to be understandable based on a consolidated picture of the ENTSO-E data,
- Follow the ENTSO-E policies, standards and guidelines,
- To provide, if possible, a migration path from the existing entsoe.net Transparency Platform.

It is the responsibility of The Working Group Market Information and Transparency (WG MIT) and the Transparency Platform Coordinators group (TPC) of ENTSO-E, along with stakeholders, to define the Business Requirements for the publication of the relevant information.

As foreseen under article 12(5) of the Guideline on electricity balancing (GL EB), this document has been amended to incorporate also the business requirements for the publication of the relevant information as required under article 12(3) of the GL EB.

## 2 OBJECTIVE

It is the objective of the Business Requirements Specification to define:

- Data to be published on the platform
- The requirements from the Data Provider point of view (submission)
- The requirements from the platform point of view (collection, assembling and publication)
- The high-level functionalities offered by the platform to the Information Receiver

## 3 TERMS, ACRONYMS AND ABBREVIATIONS

### 3.1 ACRONYMS AND ABBREVIATIONS

CCrd	Capacity Coordinator
ECAN	ENTSO-E Capacity Allocation and Nomination system
EDI	Electronic Data Interchange
FCR	Frequency Containment Reserves
FRR	Frequency Restoration Reserves
ISP	Imbalance Settlement Period
MTU	Market Time Unit
PX	Power Exchange
TCA	Transmission Capacity Allocator
TSO	Transmission System Operator
RR	Replacement Reserves
UTC	Universal Time Coordinated

### 3.2 TERMS

Term(s)	Matching with the Detailed Data	Matching with EDI	Definition for the BRS

	Descriptions [3]		
Area	yes	Yes: matches an "Area" or a "Domain"	An Area is a space allocated for a specific purpose
Bidding Zone	Yes	Yes	See Transparency Regulation [1]
Bidding Zone Aggregation	Not used	No	A bidding Zone aggregation consists of two or more bidding Zones that share the same neighbouring bidding Zone.
Bidding Period	Not used	Yes (see [11])	The date and time when an auction opens for bidding until the date and time when bidding is stopped.  For implicit auctions, the time period when market participants can send their orders books.
Capacity Allocation Period	Not used	Not used	This is the period of time during an auction when capacity allocation is calculated
Classification Category	Not used	Yes (see [11])	The classification category provides the basic category of the auction and describes what hours of the day are being auctioned (base, peak, off-peak, hourly)
Classification Sequence	Not used	Yes (see [11])	This defines the sequence 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.
Conducting Party	Not used	No	A conducting party is a party that conducts an Explicit Auction. In the case of split explicit auctions, the capacity is split between two conducting parties, each one carrying out an explicit auction

			with the split capacity (usually 50/50).
Contract Type	Not used	Yes (see [11])	The contract type defines the conditions under which the capacity was allocated and handled (daily, weekly, monthly, etc. auctions). This also applies to capacity reservations for balancing and activation of reserves.
Day-ahead cut-off time	not used	No	This is the time after the daily matching process when no correction is possible on nominations.
Frequency Containment Reserve	Yes	No	See [3]
Data Provider	Not used	Yes	Refer to Harmonised Role Model
Frequency Restoration Reserve	Yes	No	See [3]
Gate closure time of the day-ahead market	Yes	No	This is the time when order books for energy trade are closed for day-ahead market by the power exchange.
Generation Unit	Yes	Yes: matches a Resource Object which itself is a special type of Asset	See Transparency Regulation [1]
In Area / Out Area	yes	Yes	- In Area: the Area where the energy is to be put  - Out Area: the Area where the energy is coming from
Information Receiver	Not used	Yes	Refer to Harmonised Role Model



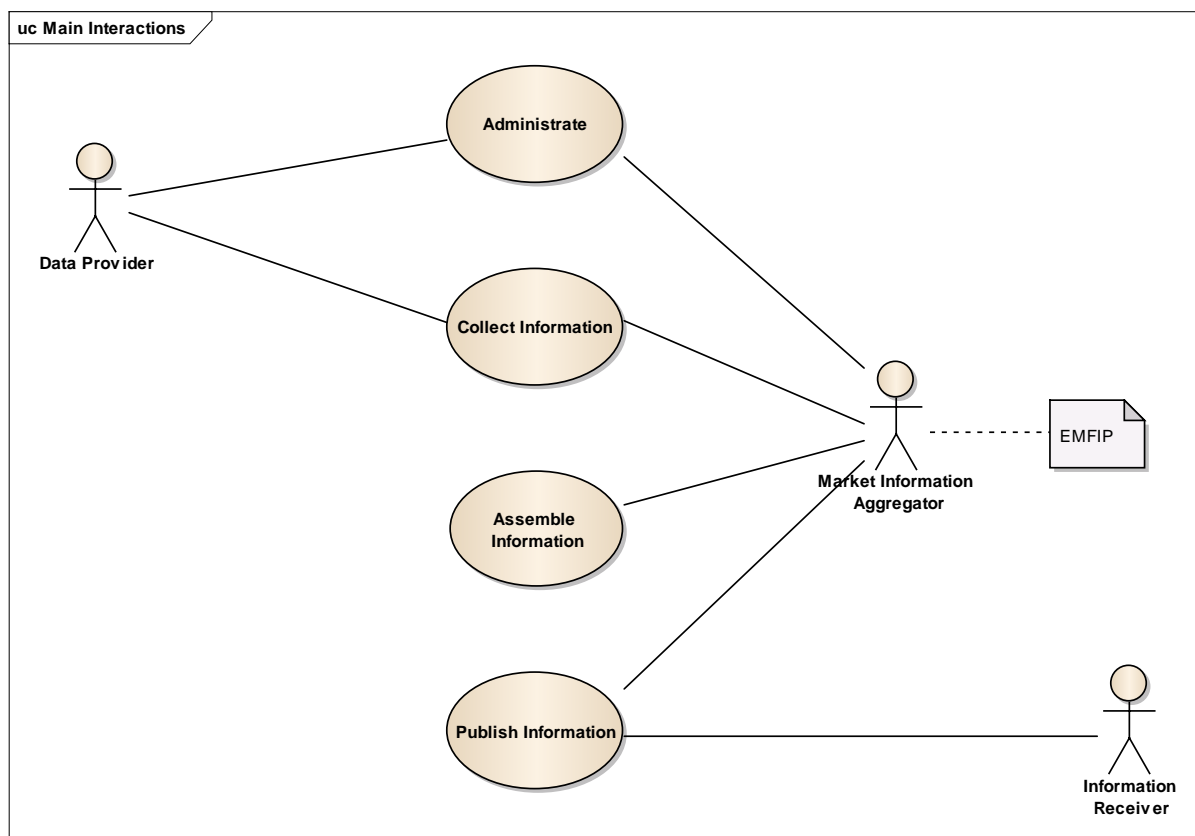
Interconnector	Not used	No	See Regulation (EC) N° 714/2009.
Market Information Aggregator	Not used	Yes	Refer to Harmonised Role Model
Market Time Unit	Yes	No	See Transparency Regulation [1]
Production Type	Yes	No	Manual of Procedures [9] will define Production Type and establish list of permitted values
Production Unit	Yes	Yes: matches a Resource Object which itself is a special type of Asset	See Transparency Regulation [1]
Region	Not used	Yes	A Region is an aggregation of Areas in the context of implicit auctions. CWE (Central West Europe), CEE (Central East Europe) are examples of regions.
Replacement Reserve	Yes	No	See [3]
Resource Object	Not used	Yes	A resource that can produce, consume or transmit energy. This is used to describe Generation, Production and Consumption Units and Transmission Assets.
Technical Profile	Yes: this is "Profile"	Yes: matches "Domain": a Bidding Zone aggregation used to define a Technical Profile is equivalent to a Domain	See Definitions [3] ("Profile")
Total Load	Yes	No	See Definitions [3]

Transmission Asset	yes	No (EDI only refers to Line and Tieline)	- Transmission assets are assets used for transmission. They can be DC Link, AC Link or Transformer
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## 4 BUSINESS PROCESS VIEWS

### 4.1 ACTORS AND USE CASES



There are three actors. The following descriptions intend to describe the context in which they are acting and should not be considered as definitions of the actors. The actors and their roles are formally defined in [8].

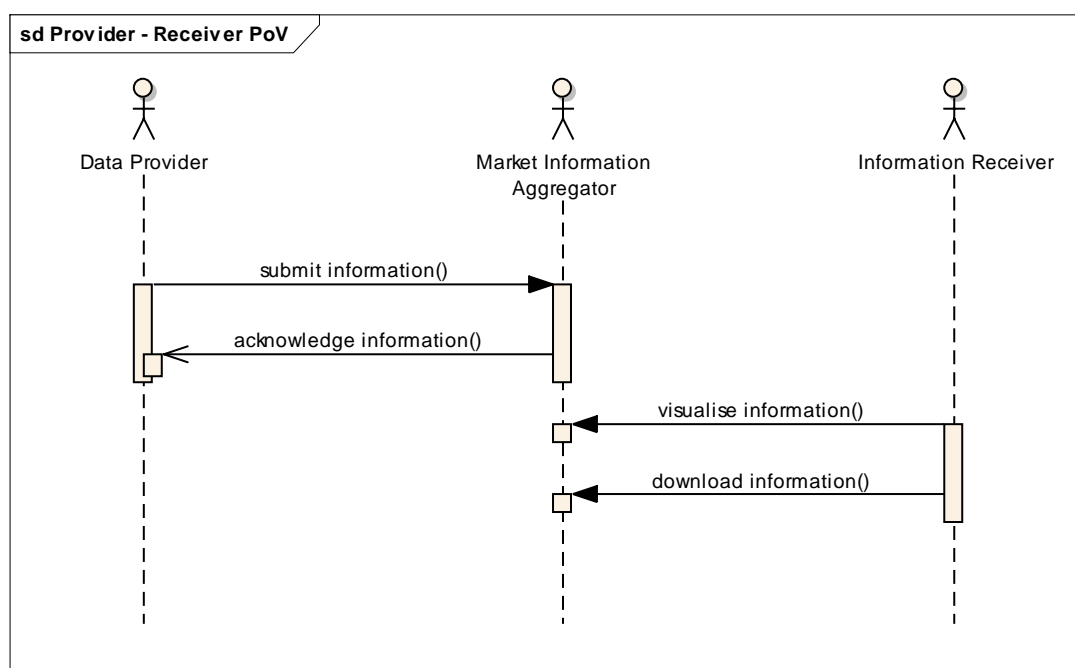
- Data Provider can either be a TSO or a third party acting as data provider. The Data Provider is not necessarily the primary owner of information but it is the entity that submits information to the Market Information Aggregator
- Market Information Aggregator: Embodied by the platform in this context, this actor is responsible for the assembling of the collected information (integration, processing and storage) and the publishing (formatting and presentation) to Information Receiver
- Information Receiver: Represents an individual or organisation that receives information from the Market Information Aggregator. In practice, it corresponds to a user of the platform that views or downloads information

The current document covers the three main types of interaction: Collection, assembling and publication.

Beside these three interactions lies the administration of the platform, which can be done by someone on the Data Provider side (self-service mode) or by someone on the Market Information Aggregator side (centralised mode).

## 4.2 EXTERNAL POINT OF VIEW SEQUENCE DIAGRAM

The diagram below presents the data submission and publication sequence from the point of view of both the Data Provider and the Market Information Receiver.



- Data Providers submits information to the platform
- Data Providers receive acknowledgement from the platform in accordance with [5]. The acknowledgement distinguishes between technical problems (syntax for example) and application problems (bidding zone not recognised, for example).
- Information Receivers visualise information in a synchronous way on the web page of the platform
- Information Receivers download information from the platform, in a “pull” way. Whenever feasible, format of downloaded data shall coincide with format for upload. Details are provided in [4].

## 5 GENERAL BUSINESS REQUIREMENTS

### 5.1 SUBMISSION

#### 5.1.1 BUSINESS RULES

For some data items, the document time interval is not fixed. In such situations and when a resolution has been defined, the submitted document time interval must be a multiple of the resolution.

All submission deadlines given in the document are general business rules applicable to common cases. However, if for some reasons (for legal reasons or for business process reasons), the general submission deadline has to be superseded, this possibility will be offered by the platform to platform administrators.

- In nominal mode, all information shall be submitted in XML documents through the allowed protocols to the platform.
- In some cases, a man-machine interface is provided in order to permit the online capture of the information. Such interfaces may serve as a backup to automated data transmissions or as a complete substitute for them when machine-to-machine solutions are not feasible from the Data Provider's point of view.
- The data interchange process and XML documents shall comply with ENTSOE standards
- All submissions must be done in accordance with [4]

#### 5.1.2 UPDATES

For all data items it shall be possible to submit updates. The latest received values shall replace any previously sent values. Exact details will be provided by [4].

Under normal circumstances, updated values are submitted through a new version of an already submitted document. This implies that the new version of the document must cover the same time interval as the previous version. However for all data items it must also be possible to update values for a larger time interval by submitting one single document. For example, if a Data Provider has undertaken twelve monthly submissions of a given data item during one year, then at the end of the year the Data Provider shall be able to submit one single document with updated values for the whole year.

Data Providers shall be able to revoke/withdraw data that has been submitted by mistake. This shall be possible before as well as after submission deadlines. Revoked/Withdrawn data is not physically deleted on the platform - rather it is no longer published. The exact mechanism will be defined in [4] when it is possible by machine-to-machine exchange. When this is impossible, Operational and Technical Support will perform the action.

254

## 255 5.1.3 REQUIREMENTS

256 The platform shall be able to manage a register of authorised Data Providers.

257 Data may be submitted by humans as well as machines, one record at a time and in bulk  
258 mode.

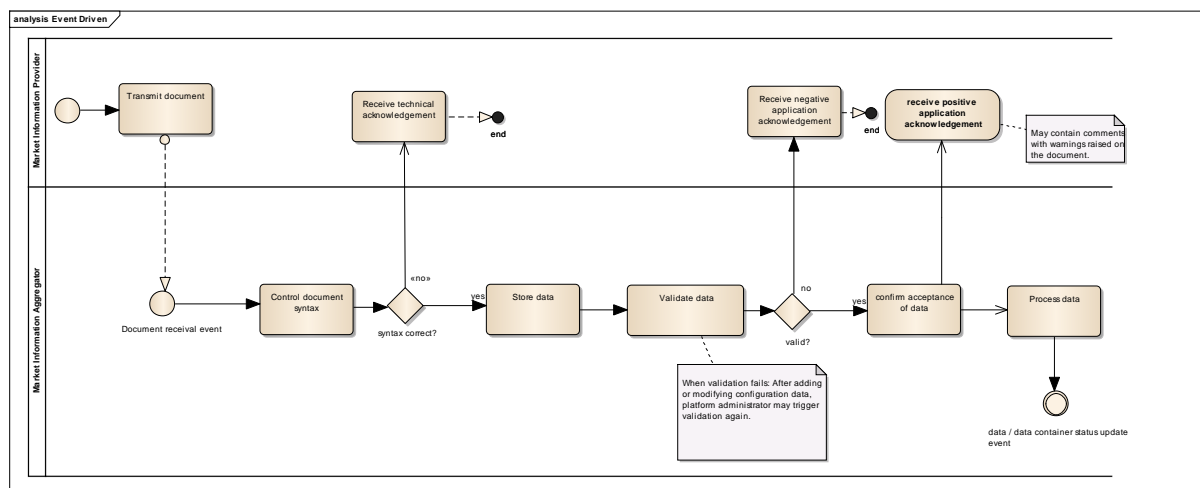
259 The platform shall support a variety of data submission frequencies (yearly, monthly, daily,  
260 hourly, etc).

261 It shall be possible to submit incomplete data while respecting the syntax of the document. For  
262 example, if Data Provider is lacking values for some entries in a time series, it shall be possible  
263 to submit the available values. Subsequently Data Provider shall be able to submit an updated  
264 version of the document with the missing values.

## 265 5.2 INTEGRATION

### 266 5.2.1 BEHAVIOUR ON DOCUMENT RECEIPT EVENT

267 The following diagram describes the general behaviour of the platform upon receipt of a  
268 document.



269

270 When a Data Provider transmits a document to the platform, it triggers a “document receipt  
271 event” on the platform<sup>1</sup> which starts the integration process. This process is made up of the  
272 following steps:

273 1) Control document syntax

274 The document is controlled against the corresponding XML Schema as specified in [4].  
275 Business values (code existence, range of values, etc.) are not controlled at this step. Once  
276 a document is considered as valid in terms of syntax, its content is stored in the platform’s  
277 database, using UTC convention for time. If not, the document is rejected entirely.

278 If a problem is detected at this first step of control, the Data Provider is notified with a  
279 “technical acknowledgement”.

280 2) Validate data content

281 Once the content of the document is stored in the platform’s database, the platform  
282 performs checks on the values of data, like code existence, respect of the range of values,  
283 completeness and dependencies between values. Once data is considered as valid in  
284 terms of its content, it is ready for further processing.

285 If a problem is detected at this second step of control, the Data Provider is notified with an  
286 “application acknowledgement”. If the submitted document passes also this second step  
287 an “application acknowledgement” is issued, accepting the submitted document in its  
288 entirety.

289 Validations may also generate warnings. A warning is not reason to reject the document.  
290 Warnings could for example be generated when reference data is missing. Data Provider  
291 may consult warnings on the web pages requiring privileged access<sup>2</sup>.

292 **5.2.2 REQUIREMENTS**

293 Configuration and reference data shall be stored in a structured manner. Where feasible and  
294 necessary, it shall be possible to effective date this data.

295 Successfully validated data content shall be eligible for further processing and publication.

296 If validation of a document fails, normally the data provider would submit a new version of the  
297 document. Additionally, the platform offers the option to repeat the validation. This would  
298 typically be the case when some reference data has not been configured properly on the

---

<sup>1</sup> This is from a business point of view. The precise technical mechanism for chaining activities will be solved during the implementation phase.

<sup>2</sup> Currently, EDI documents cannot be used to transmit warnings.

299 platform. Validation may be repeated as long as the version of the document remains the  
300 highest (i.e. no update received).

301 All submitted data shall be stored as received, for audit purposes.

302 Data submitted by Data Providers shall always be stored with versions and timestamps (in  
303 UTC). Configuration data is versioned and time stamped when applicable.

304 Daylight saving times and leap years shall be taken into account.

305 The platform shall be able to handle the market data of the domains Load, Generation,  
306 Transmission, Congestion Management, Balancing and Outages. Within each of the data  
307 domains, there will be distinct data types. For example, under Generation there will be data  
308 items such as "Actual generation per unit" or "Day ahead generation forecasts for wind and  
309 solar". For future evolution of the platform, it shall be possible to add more domains of market  
310 data, as well as introducing new data types under existing domains.

311 Submission of documents and issuing of acknowledgements will abide by the standards  
312 prescribed by references [4] and [5], respectively. Additionally, reports about erroneous data  
313 may be made available using email or SMS and published on the web (with access for  
314 privileged users only).

315 Data Provider only will have access to invalid data.

## 316 5.3 PROCESSING

317 For some data items, the Platform is requested to perform aggregation of submitted data. In  
318 such instances, submissions from all allowed Data Providers for the given data item will be  
319 aggregated by the platform.

320 As new data or updates to existing data are continuously submitted, the platform shall be able  
321 to update already processed data.

## 322 5.4 MONITORING

323 Data items may have just a single Data Provider or several ones. This is controlled by pre-  
324 configuration where the allowed Data Provider(s) for a given data item is/are listed.

325 For every data item, it shall be possible, but not necessary<sup>3</sup>, to configure a submission  
326 deadline. It will be possible to define exceptions to the deadline. Reason is that there may be  
327 deviations due to local market practice.

328 It shall be possible to configure whether data is expected or not.

---

<sup>3</sup> For example, due to the nature of data items describing Outages, there will not be a submission deadline.



329 The platform shall be capable of monitoring data submission, generate reminders and report  
330 on submission status.

331 The platform shall notify Data Provider of missing data with a “Problem Statement Document”  
332 as prescribed in reference [7]. Additionally, reports about missing data may be made available  
333 using email or SMS and published on the web (with access for privileged users only). Data  
334 Provider shall be capable of disabling email and SMS notification.

335 For each data item that is being monitored, it shall be possible to switch on and off monitoring  
336 for every declared Data Provider.

#### 337 5.4.1 MONITORING OF DATA ITEMS REQUIRING AGGREGATION

338 For data items that require aggregation, data will not be considered complete until all declared  
339 Data Providers have made their contributions. The exception to this general rule is for Outages,  
340 where due to the nature of the data items the submitted data will be aggregated and  
341 subsequently published without any expectation whatsoever of receiving data from all allowed  
342 Data Providers.

#### 343 5.4.2 DECLARATION OF EXPECTATION AND SUBMISSION DEADLINES

344 As described above, any valid data is destined to be stored by the platform. Yet, by default,  
345 the platform does not monitor anything regarding the completeness of data and their arrival on  
346 time. By default, no data is expected for publication by the platform.

347 In order to make it possible to activate monitoring, the considered data has to be declared as  
348 **expected** by the Data Provider or by the Administrator of the platform. This pre-configuration  
349 consists of:

350 - the **declaration of expectation** (e.g. declaration that the platform shall expect an “forecasted  
351 monthly transfer capacity” between France and Belgium, starting from a certain date)

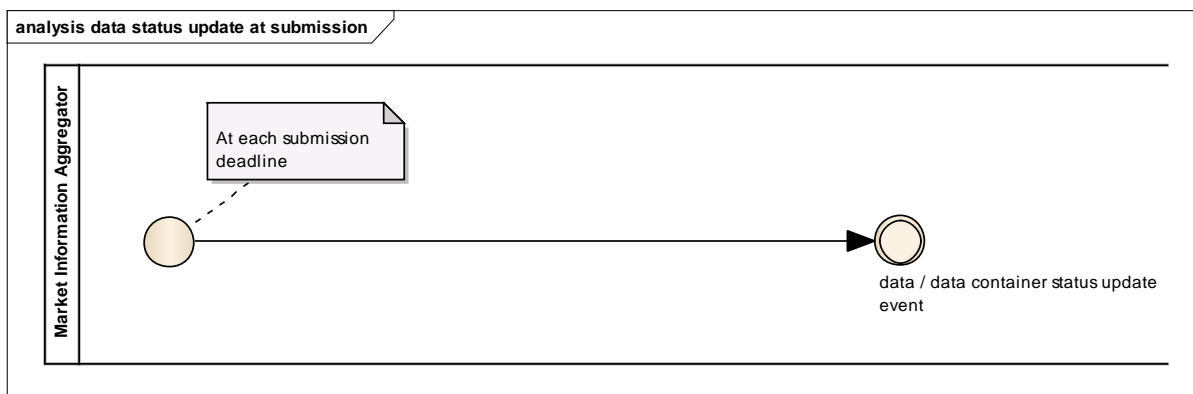
352 - the **definition of the submission deadline** (e.g. declaration that this “forecasted monthly  
353 transfer capacity” has to be submitted no later than the 15<sup>th</sup> of the preceding month).

#### 354 5.4.3 MONITORING FREQUENCY

355 Monitoring consists in changing the status of each expected data item for every applicable  
356 period of time.

357 This data status update is performed at predetermined times, which can be:

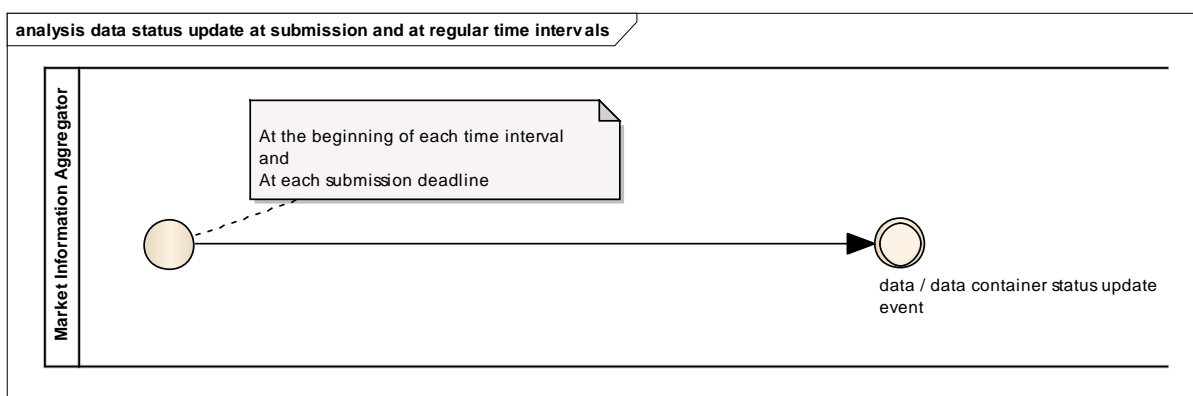
358 - at each submission deadline



359

360 or

361 - at a regular frequency in addition to the monitoring at each submission deadline (typically, at  
362 the beginning of each time interval)



363

## 364 5.5 DATA CONTAINER STATUS / DATA STATUS

365 For expected and monitored data, two types of events are likely to update the status of data:

366 - a data receipt event

367 - a monitoring event

368 For expected and monitored data, three schemes are possible:

369 - None / Ready for publication / Missing scheme

370 - None / Waiting for Publication / Ready for publication / Missing scheme

371 - None / Waiting for Publication x 2 / Ready for publication / Missing scheme

372 For expected but not monitored data (i.e. with no submission deadline), only one type of event  
373 is likely to update the status of data:

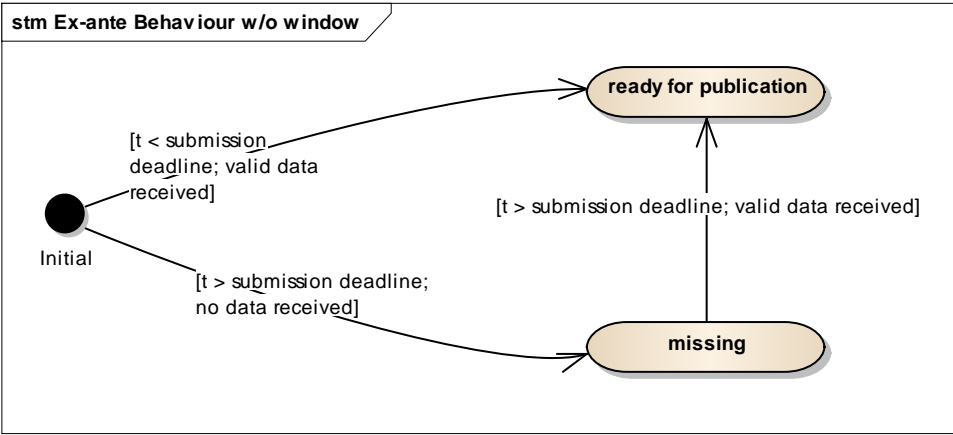
- a data receipt event
- For expected but not monitored data (i.e. with no submission deadline), only one scheme is possible:
- None / Ready for publication scheme
- Data that is not expected will be rejected by platform.

### 5.5.1 NONE / READY FOR PUBLICATION / MISSING SCHEME

- Until submission deadline, data can have the following additional status: none or ready for publication. Indeed, for this data item, data is to be published as soon as possible
- After submission deadline, data can have the following additional status: missing or ready for publication. Indeed, for this data item, the behaviour is based on a submission deadline and data not received at that deadline are considered as missing by the platform.

<until Submission Deadline>	<after Submission Deadline>
None	Missing
ready for publication	ready for publication

The following state diagram describes the different possible states for an expected data and the transition between them.



Whenever the platform receives data or at submission deadline, the platform checks state transition conditions to update the status of expected data.

## 5.5.2 NONE / WAITING FOR PUBLICATION / READY FOR PUBLICATION / MISSING SCHEME

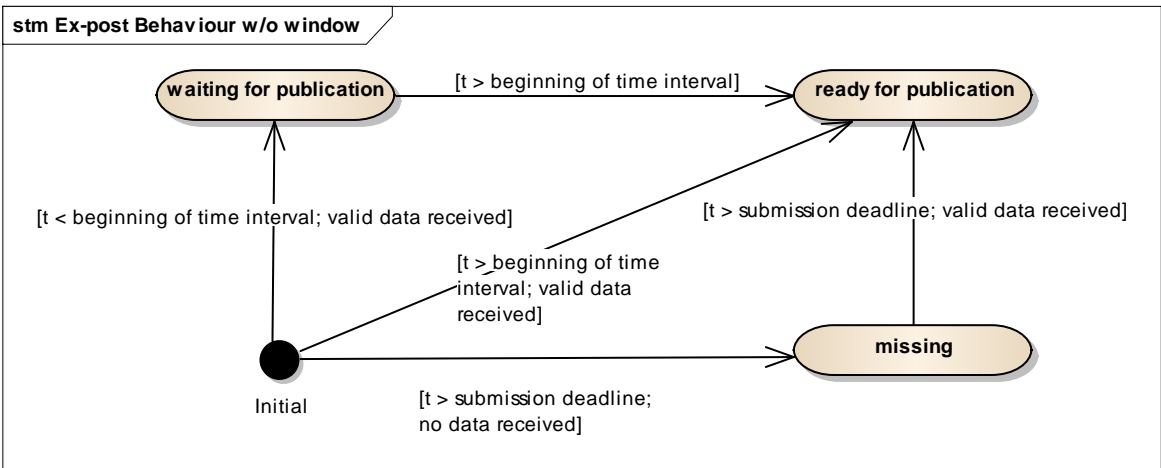
- Until the beginning of the time interval, data can have the following additional status: none or waiting for publication. Indeed, this data item should refer to ex-post information and should not be published before the beginning of the operating period<sup>4</sup>.

- Between the beginning of the time interval and the submission deadline, data can have the following additional status: none or ready for publication. In this interval, data is to be published as soon as available on the platform.

- After submission deadline, data can have the following additional status: missing or ready for publication.

<until the beginning of the time interval>	<between the beginning of the time interval and Submission Deadline>	<after Submission Deadline>
none	none	Missing
waiting for publication	ready for publication	ready for publication

The following state diagram describes the different possible states for an expected data and the transition between them.



<sup>4</sup> Ex-post data referring to a time interval is considered to be ready for publication at the beginning of the time interval and not the end of the time interval

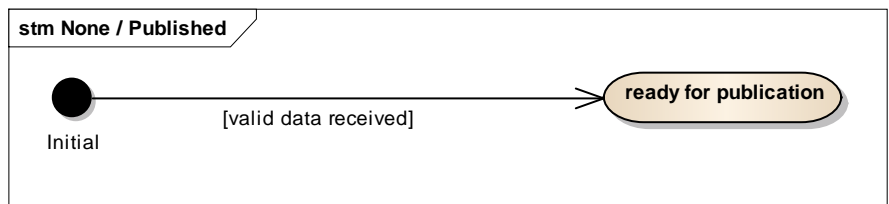
Whenever the platform receives data, at the beginning of the time interval or at submission deadline, the platform checks state transition conditions to update the status of expected data.

### 5.5.3 NONE / READY FOR PUBLICATION SCHEME

- Until valid data is received, data has the status none.
- Once valid data is received, data will have the status ready for publication. Indeed, for this data item, the behaviour is to publish as soon as received by the platform. There is no submission deadline.

<until valid data is received>	<after valid data is received>
none	ready for publication

The following state diagram describes the different possible states for an expected data and the transition between them.



Whenever the platform receives data, the platform checks state transition conditions to update the status of expected data.

### 5.5.4 NONE / WAITING FOR PUBLICATION x 2 / READY FOR PUBLICATION / MISSING SCHEME

This scheme is intended for data items representing ex-post information that should not be published before the submission deadline.

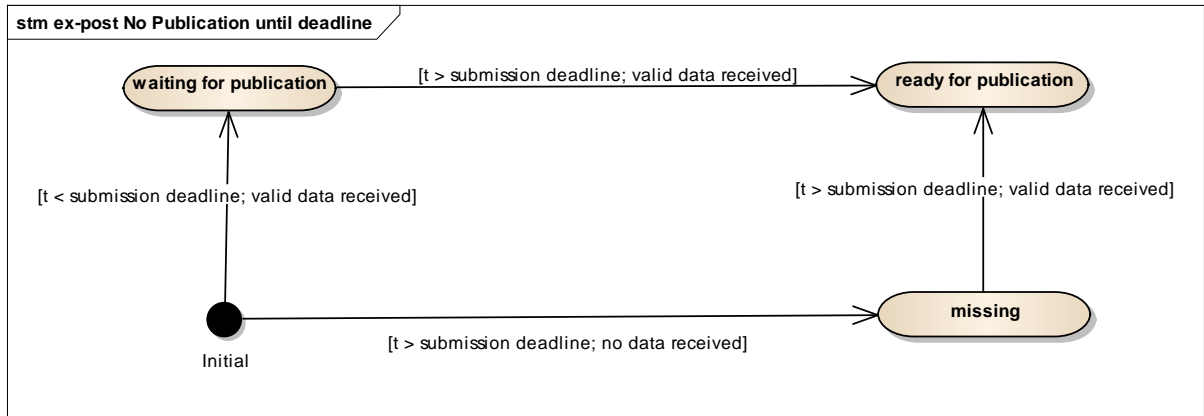
Until the submission deadline, data can have the following status: None or waiting for publication.

After submission deadline, data can have the following status: missing or ready for publication.

<until the beginning of the time interval>	<between the beginning of the time interval and Submission Deadline>	<after Submission Deadline>

none		none	Missing
waiting for publication	for	waiting for publication	ready for publication

The following state diagram describes the different possible states for an expected data and the transition between them.



Whenever the platform receives data, at the beginning of the time interval or at submission deadline, the platform checks state transition conditions to update the status of expected data.

## 5.6 PUBLICATION

- If a data has been declared as expected with a submission deadline, it is published whenever it is ready for publication
- When no submission deadline is required<sup>5</sup>, data will get published if declared as expected.
- Without further user interaction, only the latest version of the data is displayed by the platform, except where explicitly indicated otherwise. Older versions will be available online, by expanding the view.
- Status of data shall be visible.
- The last update time of published data (i.e. the document creation date and time) is available to the end user on the platform. End users shall be able to choose whether or not the last update time for the selected data is included or not when viewing and downloading data. By default, it is not displayed. Exception is made for Outages.

<sup>5</sup> This is the case for outages where no submission deadline is required

- 444 For every data item, it shall be possible to configure the publication schedule.
- 445 It shall be possible to distinguish between missing data and data not being expected.
- 446 Before submission deadline has been reached for a data item, it shall be visible to data  
447 providers and platform administrator whether data has been submitted or not.
- 448 When submission deadline is reached for a data item, there shall be visibility of the status of  
449 the data, i.e. whether it is overdue or not.
- 450 When filtering and sorting criteria are available, all applicable criteria will be displayed for the  
451 user to choose among. The criteria shall not be displayed If no data matching data is available  
452 – when for example there is no declared data provider for a given area, that area shall not  
453 appear as a filter criteria.
- 454 It shall be possible to filter data using value range criteria applied on the attributes of the data  
455 item.
- 456 Incomplete data shall not be published. For example: Unique code of production unit has been  
457 submitted with unavailability under data item [15.1.c], however reference data describing the  
458 production unit as per chapter 9.9 is missing. As a consequence, the unavailability will not be  
459 published.

## 460 5.7 ADMINISTRATION OF USERS AND ORGANISATIONS

- 461 The system shall support the creation, modification, suspension, reactivation and deletion of  
462 user accounts. Every user account shall be associated with an organisation.
- 463 It shall be possible to create, modify and delete user Roles, having different sets of privileges.  
464 The following roles and privileges are foreseen:

Role	Privileges
General public	Read-only access to published data
Analysts <sup>6</sup>	Read-only access to published data and reference data.
Data Providers	Read-only access to other organisations' published data and reference data.  Submit data on behalf of own organisation.  Update own organisation's reference data, to the extent access granted by Platform administrator.

<sup>6</sup> Role intended for staff working at Data Providers and ENTSO-E secretariat. It could also be assigned to users from data owners, ACER and other organisations.

Platform administrator at ENTSO-E secretariat	<p>Read-only access to published data.</p> <p>Update all organisations' reference data. Grant permissions to Data Providers to update select reference data.</p> <p>Create new user accounts. Reset passwords. Disable and re-enable user accounts.</p>
Back-end support (vendor)	<p>Update global settings.</p> <p>Execute ad-hoc queries.</p>

465

466 General public and analysts are considered as the “end users” of the application.

467 Platform shall be able to model organisations and Data Providers. It shall be possible to  
468 associate a Data Provider with one or several areas.

469 Platform shall be able to model countries and regions. It shall be possible to group  
470 organisations into regions. It shall be possible to group countries into regions.

471 The platform must be able to restrict access to web pages, functionality and data to users with  
472 specific privileges.

## 473 5.8 WEB ACCESS

474 It shall be possible to access select data, i.e. per Regulation (see reference [1]), without any  
475 registration or login authentication. This data shall be provided on publicly available web  
476 pages.

477 Web site design must provide a high level of usability, with access to data through a minimum  
478 number of navigation steps. It shall have a consistent layout and metaphor use. Structure of  
479 web site is expected to mirror the division of data into the domains Balancing, Transmission,  
480 Generation, Outages, Congestion Management and Load.

481 The web site will include “Who is who” data. There shall be help pages providing basic  
482 instructions on how to use the site, a glossary and Frequently Asked Questions pages.

483 The platform shall contain a message board capable of displaying administration messages  
484 posted by system administrators and automatically generated messages concerning system  
485 events.

486 Data shall be made available by the means of web services, download and display on  
487 webpage. For data displayed on webpage, the formats table, chart and map shall be  
488 supported. Downloads will be available in xml and xls formats.

489 By default, data is displayed in Brussels time. Display and download are possible in UTC as  
490 well as in any available time zone.

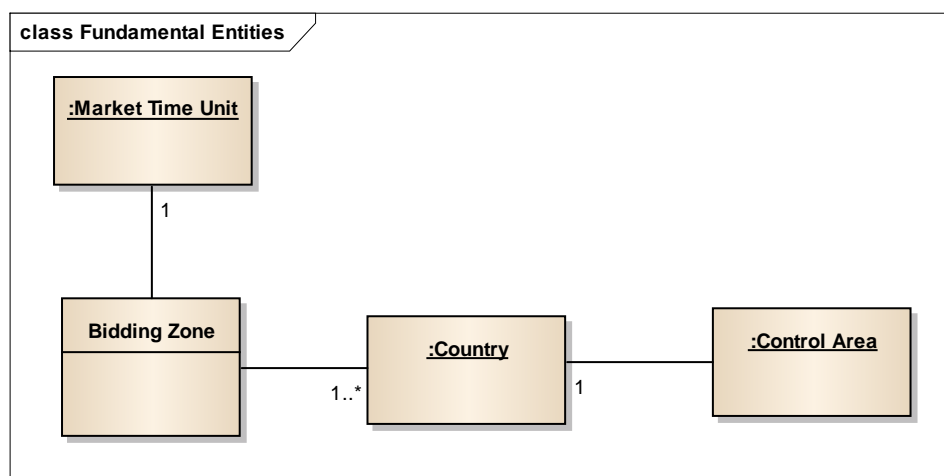


## 6 LOAD

### 6.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 6.1.1 FUNDAMENTAL ENTITIES

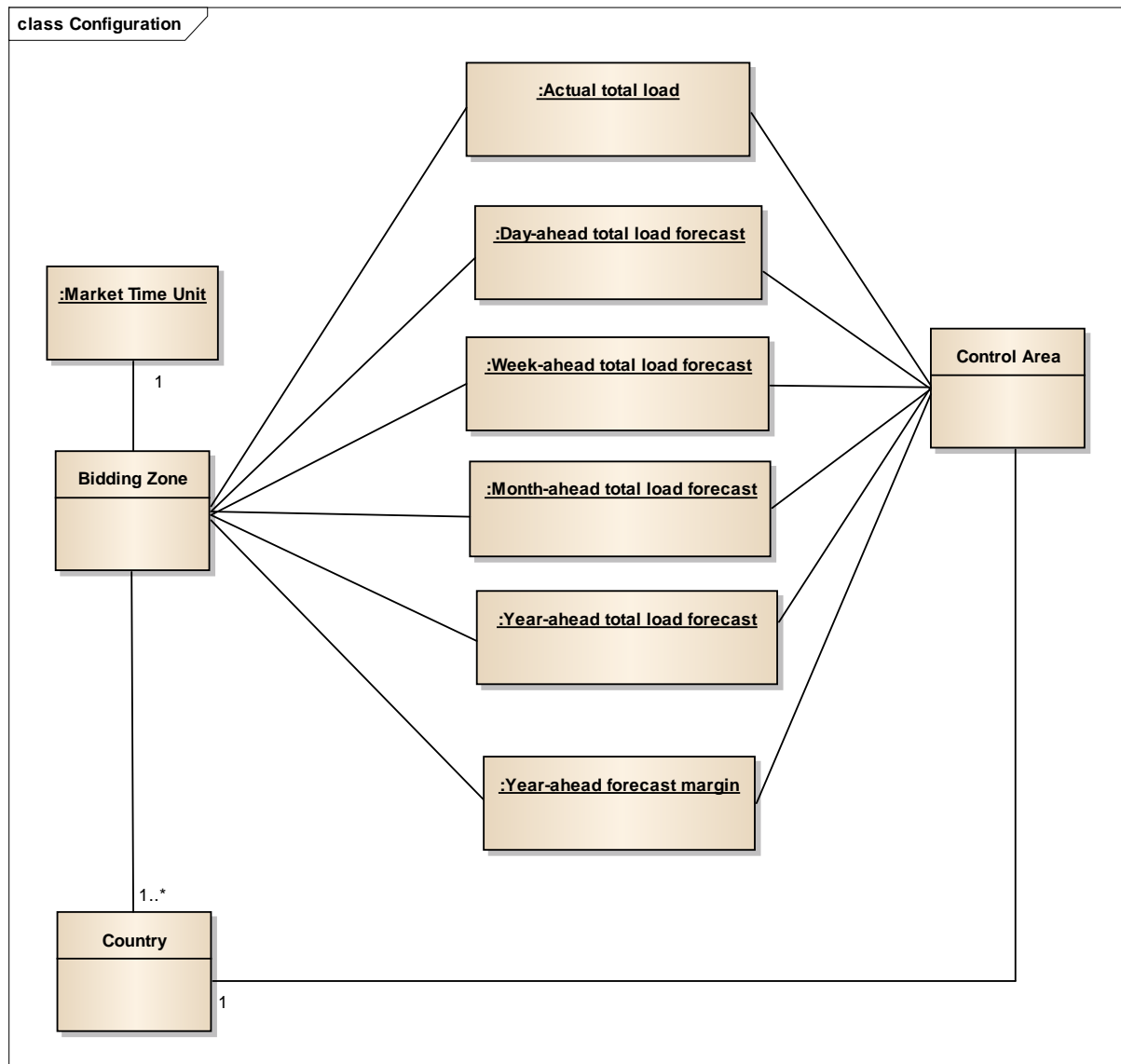
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- For a given Bidding Zone, there is one Market Time Unit
- Country will be deduced based on Control Area and Bidding Zone

It must be possible to determine to which bidding zone and control area data contained in submitted documents refer<sup>7</sup>

<sup>7</sup> If format of data does not permit explicit declaration of Control Area it may be deduced from Sender.



501

## 502 6.1.2 PRE-CONFIGURATION

503 The platform administrator at ENTSO-E shall pre-configure application with the following  
504 reference data:

505 - [C-LD-1] a list of Bidding Zones (common with Generation domain, refer to section 9.1)

506 - [C-LD-2] a list of Control Areas (common with Generation domain, refer to section 9.1)

507 - [C-LD-3] for each Bidding Zone, the value of the Market Time Unit (common with  
508 Generation domain, refer to section 9.1)

509 - [C-LD-6] a list of countries and for each country, the corresponding Control Area(s). This is  
510 the same configuration as for Generation, refer to section 9.1

511 - [C-LD-7] for each Bidding Zone, Control Area and data item, the single authorized Data  
512 Provider. When a Bidding Zone consists of several Control Areas, it shall be possible to  
513 configure for each data item either a single Data Provider for the whole Bidding Zone or  
514 separate Data Providers per Control Area. The latter case implies that the contribution of all  
515 these parties is necessary in order to aggregate and publish the single value for the whole  
516 Bidding Zone

517 - [C-LD-11]] for those bidding zones consisting of more than one Control Area, an indicator  
518 whether submitted values shall be displayed per Control Area in addition to the aggregated  
519 value for the whole Bidding Zone Note that in some instances there will be one single Data  
520 Provider for several Bidding Zones.

521 The following reference data will be managed by Data Providers:

522 - [C-LD-8] for each Bidding Zone and data item, an indicator whether data is expected or not.  
523 By default it will be expected. This reference data is intended to be effective dated, meaning  
524 that it will have a validity period, defined by a start date and optionally an end date. This  
525 indicator is used for monitoring and publication purposes.

### 526 6.1.3 DATA CONTAINER STATUS / DATA STATUS

527 The ex-post data item “Actual Total Load” [6.1.a] follows the “none / waiting for publication /  
528 ready for publication / missing” scheme.

529 All other data items follow the “None / Ready for publication / Missing” scheme.

### 530 6.1.4 PUBLICATION

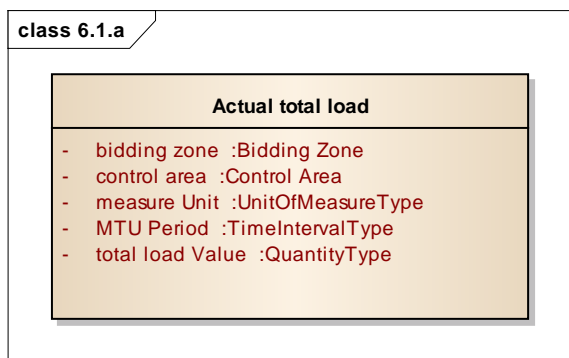
531 Data for a given bidding zone is being published as soon as it is complete, i.e. when all Data  
532 Providers have submitted their contributions.

533 For all data items, end user will have the choice between displaying data in a table or in a  
534 chart.

## 6.2 ACTUAL TOTAL LOAD PER BIDDING ZONE [6.1.A]

### 6.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, actual total load is described with one total load value per Market Time Unit period, expressed in measure Unit (MW).

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area attribute shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

### 6.2.2 PRE-CONFIGURATION

[PC-6.1.a-1] For each Bidding Zone, there is a submission deadline: At the latest one hour (H+1) after the end of the MTU period.

*Example: if the Bidding Zone in question has a Market Time Unit of 30 minutes, and if the considered Period is November 17<sup>th</sup>, 2012, between 08:00 and 08:30 UTC, the document describing the actual total load during this Period must be submitted before November 17<sup>th</sup>, 2012, 09:30 UTC.*

### 6.2.3 ASSUMPTIONS

There are no assumptions specific to this data item.

### 6.2.4 INTEGRATION

- The Bidding Zone and Control Area shall be recognised by the platform

- The sender of the document shall be consistent with the identified Bidding Zone and Control Area

- Data should not be submitted before the end of the MTU Period. This validation will generate a warning only. Configuration of platform can be changed to completely suppress this warning.

## 6.2.5 MONITORING

For a given Bidding Zone, Control Area and MTU Period, compliance with submission deadline described in [PC-6.1.a-1] will be monitored.

## 6.2.6 PROCESSING

Submitted values for load and power used for energy storage (if provided) are aggregated per Country, Bidding Zone and MTU Period. Aggregation here means adding up the submitted values.

Aggregation per country will be performed with the help of pre-configuration [C-LD-6].

## 6.2.7 PUBLICATION

### 6.2.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country or Bidding Zone (selection is mandatory)
- Control Area (selection is optional and available only when Bidding Zone consists of several Control Areas)
- Day (Selection is mandatory)

### 6.2.7.2 DISPLAY

This data shall be displayed in the following section:

#### **- Load / Actual Load**

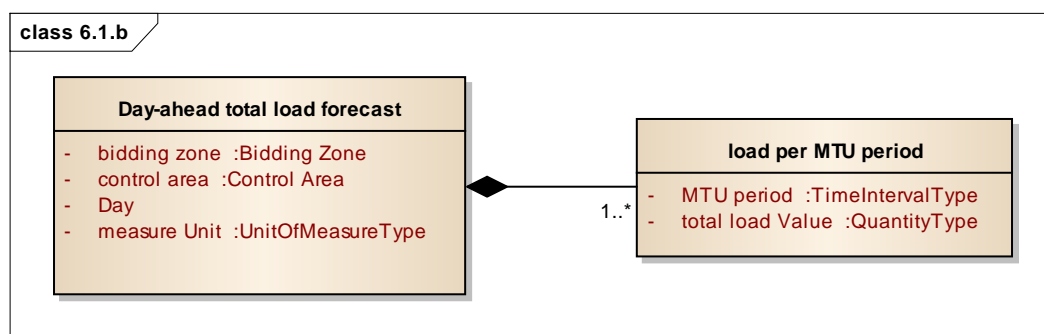
The following attributes of data shall be displayed:

- Title
- Country, Bidding Zone or Control Area name
- Day
- Measurement Unit
- For each Market Time Unit period within the selected Day, the total load

## 6.3 DAY-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.B]

### 6.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the day-ahead total forecast is described as the forecast of the total load during one day, with one total load Value per Market Time Unit period, in measure Unit (MW).

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area attribute shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

### 6.3.2 PRE-CONFIGURATION

[PC-6.1.b-4] In every Bidding Zone there is a daily submission deadline for this data item. Submission must be done at the latest two hours (H-2) before the gate closure time of the day-ahead market if such a gate closure time exists. If there are several gate closure times<sup>8</sup>, the latest one shall be considered.

*Example: if the gate closure time of the day-ahead market for the Bidding Zone in question is 14:00 UTC, the day-ahead total load forecast for November 17th, 2012 must be submitted before November 16th, 2012, 12:00 UTC.*

If such a gate closure time does not exist, submission must be done at the latest on D-1 at 12:00 in local time zone of the Bidding Zone.

*Example: if there is no gate closure time, the day-ahead total load forecast for November 17th, 2012 must be submitted before November 16th, 2012, 12:00 in Local Time Zone.*

<sup>8</sup> The Bidding Zone could for example be concerned by an explicit auction across one border and an implication auction across another border.

### 6.3.3 ASSUMPTIONS

There are no assumptions specific to this data item.

### 6.3.4 INTEGRATION

- The Bidding Zone and Control Area shall be recognised by the platform

- The sender of the document shall be consistent with the identified Bidding Zone and Control Area

### 6.3.5 MONITORING

For a Bidding Zone, Control Area and day, compliance with submission deadline described in [PC-6.1.b-4] will be monitored.

### 6.3.6 PROCESSING

Submitted load values are aggregated per Country, Bidding Zone and Market Time Unit period. Aggregation here means adding up the submitted values.

Aggregation per country will be performed with the help of pre-configuration [C-LD-6].

### 6.3.7 PUBLICATION

#### 6.3.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country or Bidding Zone (selection is mandatory)

- Control Area (selection is optional and available only when Bidding Zone consists of several Control Areas)

- Day (Selection is mandatory)

#### 6.3.7.2 DISPLAY

This data shall be displayed in the following section:

##### - Load / Day-ahead forecast

The following attributes of data shall be displayed:

- Title

- Country, Bidding Zone or Control Area name

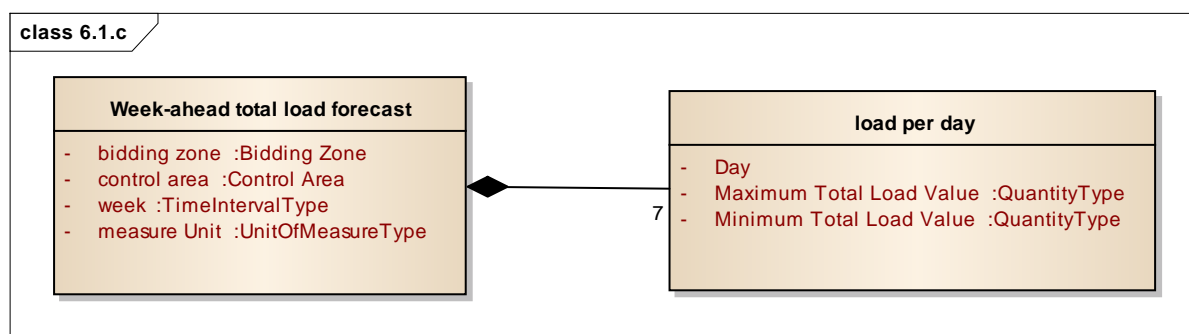
- 630 - Selected day
- 631 - Measurement Unit
- 632 - For each Market Time Unit period during the selected day, the forecast total load value
- 633



## 6.4 WEEK-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.C]

### 6.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the week-ahead total forecast is described as the forecast of the total load for one week, with one minimum total load value and one maximum total load value per day, in measure Unit (MW).

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area attribute shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

Week is starting on Monday at 00:00 and ending on Sunday at 24:00, local time<sup>9</sup>.

### 6.4.2 PRE-CONFIGURATION

[PC-6.1.c-4] For each Bidding Zone there is a weekly submission deadline. Submission must be done at the latest on Friday the week before, two hours (H-2) before the gate closure time of the day-ahead market.

*Example: if the gate closure time of the day-ahead market for the Bidding Zone in question is 14:00 UTC, the week-ahead total load forecast for the week spanning Monday November 19th, 2012 to Sunday November 25th, 2012, must be submitted before Friday November 16th, 2012, 12:00 UTC.*

If such a gate closure time does not exist, submission must be done at the latest on Friday the week before at 14:00 in local time zone of the Bidding Zone.

<sup>9</sup> For some bidding zones where forecasts are made for Saturday – Friday, a first submission will provide data for Monday – Friday and an update will provide data for Saturday – Sunday as soon as it becomes available.

655 *Example: if there is no gate closure time, the week-ahead total load forecast for the week*  
656 *spanning Monday November 19th, 2012 to Sunday November 25th, 2012, must be submitted*  
657 *before November 16th, 2012, 14:00 in Local Time Zone.*

658 For bidding zones where forecasts are made for Saturday – Friday, submission deadline will  
659 be adjusted accordingly for monitoring purposes.

### 660 6.4.3 ASSUMPTIONS

661 Data Provider may submit data with higher resolution, up to MTU period.

### 662 6.4.4 INTEGRATION

663 - The Bidding Zone and Control Area shall be recognised by the platform

664 - The sender of the document shall be consistent with the identified Bidding Zone and Control  
665 Area

666 - Per day, maximum value must be greater or equal to minimum value

### 667 6.4.5 MONITORING

668 For a Bidding Zone, Control Area and week, compliance with submission deadline described  
669 in [PC-6.1.c-4] will be monitored.

### 670 6.4.6 PROCESSING

671 If data has been submitted with higher resolution than day, platform shall establish the  
672 minimum value per day. For example if data is submitted in hourly values a computation must  
673 be made to compute the lowest hourly value for every given day. Similarly, the maximum value  
674 per day shall be established. This processing is identical to the one performed for forecasted  
675 and offered transfer capacities, refer to chapter 7.10.6.

676 Once values per day have been established, submitted load values are aggregated per  
677 Country, Bidding Zone and day. Aggregation here means adding up the submitted values  
678 (minimum values with minimum values and maximum values with maximum values).

679 Aggregation per country will be performed with the help of pre-configuration [C-LD-6].

### 680 6.4.7 PUBLICATION

#### 681 6.4.7.1 FILTERING AND SORTING CRITERIA

682 Data shall be visually accessed by selecting the following:

683 - Country or Bidding Zone (selection is mandatory)

684 - Control Area (selection is optional and available only when Bidding Zone consists of several  
685 Control Areas)

686 - Week (Selection is mandatory)

#### 687 6.4.7.2 DISPLAY

688 This data shall be displayed in the following section:

##### 689 - **Load / Week-ahead forecast**

690 The following attributes of data shall be displayed:

691 - Title

692 - Country, Bidding Zone or Control Area name

693 - Selected week

694 - Measurement Unit

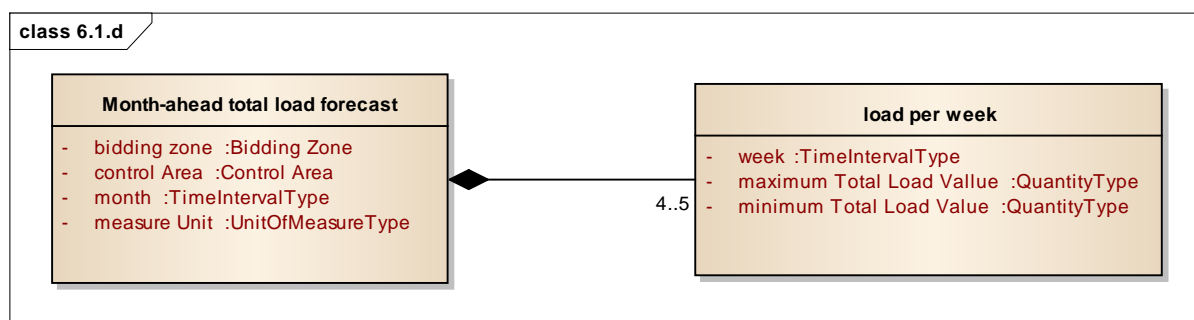
695 - For each day during the selected week, the forecast minimum total load value and maximum  
696 total load value

697

## 6.5 MONTH-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.D]

### 6.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the month-ahead total forecast is described as the forecast of the total load for one month, with one minimum total load value and one maximum total load value per week, in measure Unit (MW).

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area attribute shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

### 6.5.2 PRE-CONFIGURATION

[PC-6.1.d-4] For each Bidding Zone, submission must be done at the latest one week (W-1) before the month described by the document.

*Example: The month-ahead total load forecast for the month of November 2012 must be submitted before October 25<sup>th</sup> 2012, 00:00 UTC.*

### 6.5.3 ASSUMPTIONS

Data Provider may submit data with higher resolution, up to MTU period.

### 6.5.4 INTEGRATION

- The Bidding Zone and Control Area shall be recognised by the platform

- The sender of the document shall be consistent with the identified Bidding Zone and Control Area

- Per week, maximum value must be greater or equal to minimum value

## 720 6.5.5 MONITORING

721 For a Bidding Zone, Control Area and month, compliance with submission deadline  
722 described in [PC-6.1.d-4] will be monitored.

## 723 6.5.6 PROCESSING

724 If data has been submitted with higher resolution than week, platform shall establish the  
725 minimum value per week. Similarly, the maximum value per week shall be established.

726 Once values per week have been established, submitted load values are aggregated per  
727 Country, Bidding Zone and week. Aggregation here means adding up the submitted values  
728 (minimum values with minimum values and maximum values with maximum values).

729 Aggregation per country will be performed with the help of pre-configuration [C-LD-6].

## 730 6.5.7 PUBLICATION

### 731 6.5.7.1 FILTERING AND SORTING CRITERIA

732 Data shall be visually accessed by selecting the following:

- 733 - Country or Bidding Zone (selection is mandatory)
- 734 - Control Area (selection is optional and available only when Bidding Zone consists of several  
735 Control Areas)
- 736 - Month (Selection is mandatory)

### 737 6.5.7.2 DISPLAY

738 This data shall be displayed in the following section:

#### 739 - Load / Month-ahead forecast

740 The following attributes of data shall be displayed:

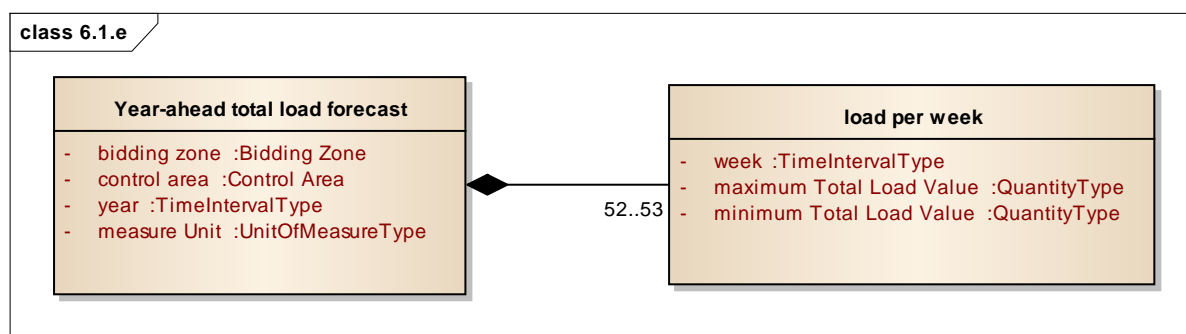
- 741 - Title
- 742 - Country, Bidding Zone or Control Area name
- 743 - Selected month
- 744 - Measurement Unit
- 745 - For each week within the selected month, the forecast minimum total load value and  
746 maximum total load value

747

## 6.6 YEAR-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.E]

### 6.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the forecast of the total load for one year is described by one minimum total load value and one maximum total load value per week, in measure Unit (MW).

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area attribute shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

### 6.6.2 PRE-CONFIGURATION

[PC-6.1.e-4] Submission must be done at the latest the 15th calendar day of the month before the year in question.

*Example: For year 2013, document must be submitted before December 16th 2012, 00:00 UTC.*

### 6.6.3 ASSUMPTIONS

Data Provider may submit data with higher resolution, up to MTU period.

### 6.6.4 INTEGRATION

- The Bidding Zone and Control Area shall be recognised by the platform
- The sender of the document shall be consistent with the identified Bidding Zone and Control Area
- Per week, maximum value must be greater or equal to minimum value

## 770 6.6.5 MONITORING

771 For a Bidding Zone, Control Area and year, compliance with submission deadline described  
772 in [PC-6.1.e-4] will be monitored.

## 773 6.6.6 PROCESSING

774 If data has been submitted with higher resolution than week, platform shall establish the  
775 minimum value per week. Similarly, the maximum value per week shall be established.

776 Once values per week have been established, submitted load values are aggregated per  
777 Country, Bidding Zone and week. Aggregation here means adding up the submitted values  
778 (minimum values with minimum values and maximum values with maximum values).

779 Aggregation per country will be performed with the help of pre-configuration [C-LD-6].

## 780 6.6.7 PUBLICATION

### 781 6.6.7.1 FILTERING AND SORTING CRITERIA

782 Data shall be visually accessed by selecting the following:

783 - Country or Bidding Zone (selection is mandatory)

784 - Control Area (selection is optional and available only when Bidding Zone consists of several  
785 Control Areas)

786 - Year (Selection is mandatory)

### 787 6.6.7.2 DISPLAY

788 This data shall be displayed in the following section:

#### 789 - Load / Year-ahead forecast

790 The following attributes of data shall be displayed:

791 - Title

792 - Country, Bidding Zone or Control Area name

793 - Selected year

794 - Measurement Unit

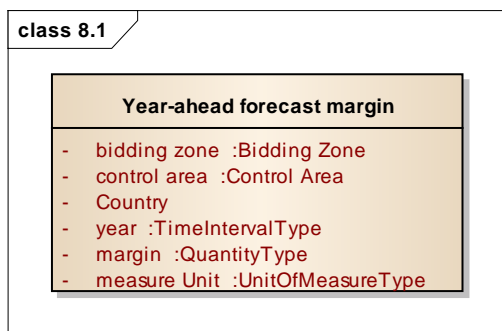
795 - For each week within the selected year, the forecast minimum total load value and maximum  
796 total load value

797

## 6.7 YEAR-AHEAD FORECAST MARGIN [8.1]

### 6.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the year-ahead forecast margin is described as one forecast margin value for the whole year, expressed in measure Unit (MW). In this case, Country shall not be populated.

When data is submitted for a whole Bidding Zone consisting of several Control Areas, the Control Area and Country attributes shall not be populated. See item [C-LD-7] in chapter 6.1.2 for details.

When data is submitted for a whole country, the Bidding Zone and Control Area attributes shall not be populated.

### 6.7.2 PRE-CONFIGURATION

[PC-8.1-3] If there are yearly explicit auctions concerning the Bidding Zone, the latest end date of the bidding periods for all yearly explicit auctions will be used as reference to calculate the submission deadline. This end date will be called the end of the latest performed yearly auction.

Submission must be done at the latest one week (W-1) before end of the latest performed yearly auction if yearly auctions exist: this is the submission deadline for this data item.

*Example: if the end of the latest performed yearly auction for the Bidding Zone in question and for the year 2013 is November 15<sup>th</sup>, 2012, the year-ahead forecast margin for the year 2013, must be submitted before November 8<sup>th</sup>, 2012, 00:00 UTC.*

If such a reference does not exist, submission must be done at the latest the 15<sup>th</sup> calendar day of the month before the year in question.

*Example: if there is no yearly auction for the Bidding Zone in question, the year-ahead forecast margin for year 2013 must be submitted before December 16<sup>th</sup> 2012, 00:00 UTC.*



### 6.7.3 ASSUMPTIONS

If the Bidding Zone consists of several Control Areas, Data Providers will agree between themselves a single value for the forecast margin regarding the whole Bidding Zone and perform a single submission of that value. Additionally, they may submit separate forecast margins for their respective Control Areas.

If the Bidding Zone covers more than one Country or when there is more than one Control Area in a Country, Data Providers will agree a single value for the forecast margin regarding the Country and perform a single submission of that value.

### 6.7.4 INTEGRATION

- The Bidding Zone and Control Area shall be recognised by the platform

- The sender of the document shall be consistent with the identified Bidding Zone and Control Area

### 6.7.5 MONITORING

For a Bidding Zone, Control Area and year, compliance with submission deadline described in [PC-8.1-3] will be monitored.

### 6.7.6 PROCESSING

No further processing is performed on this data item.

### 6.7.7 PUBLICATION

#### 6.7.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country or Bidding Zone (selection is mandatory)

- Control Area (selection is optional and available only when Bidding Zone consists of several Control Areas)

- Year (Selection is mandatory)

#### 6.7.7.2 DISPLAY

This data shall be displayed in the following section:

**- Load / Year-ahead forecast margin**

The following attributes of data shall be displayed:

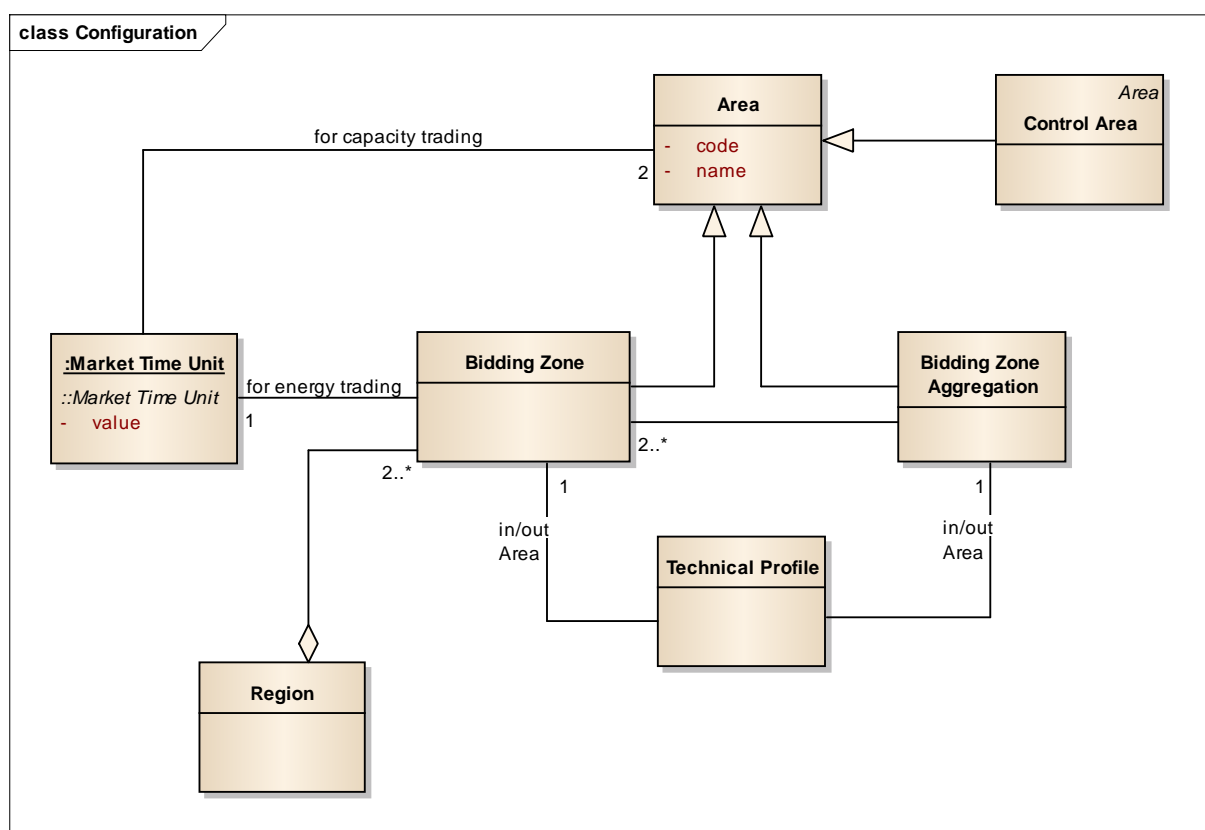
- 852 - Title
- 853 - Country, Bidding Zone or Control Area name
- 854 - Selected year
- 855 - Measurement Unit
- 856 - For the year, the forecast margin value

## 7 TRANSMISSION

### 7.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 7.1.1 FUNDAMENTAL ENTITIES

The following class diagram describes the fundamental entities to be taken into account within the scope of this chapter in order to pre-configure the platform.



- Energy is traded within a **Bidding Zone**, where there is an associated **Market Time Unit**
- Capacity is traded between **Areas**, which can be a Control Area, a **Bidding Zone** or a **Bidding Zone Aggregation**. There is a **Market Time Unit** for capacity trading between two Areas<sup>10</sup>.
- A **Technical Profile** defines an oriented geographical boundary between one Bidding Zone and several neighbouring Bidding Zones (i.e. a Bidding Zone aggregation).

<sup>10</sup> For a given pair of Areas, the MTU for capacity trading will be the same for all capacity products (yearly, monthly, daily, etc.)

- 869     • A Region consists of two or more Bidding Zones.

## 870     7.1.2 TRANSMISSION CAPACITY ALLOCATIONS

871     Cross-border capacity can be allocated through Implicit, Explicit or Continuous Allocation. An  
872     allocation is characterized by the type of products that are being sold, as determined by the  
873     Contract Type; Yearly, Monthly, Daily, etc. The Contract Type<sup>11</sup> determines the length of the  
874     Delivery Period associated with the auction, which is the time interval when the capacity will  
875     be used.

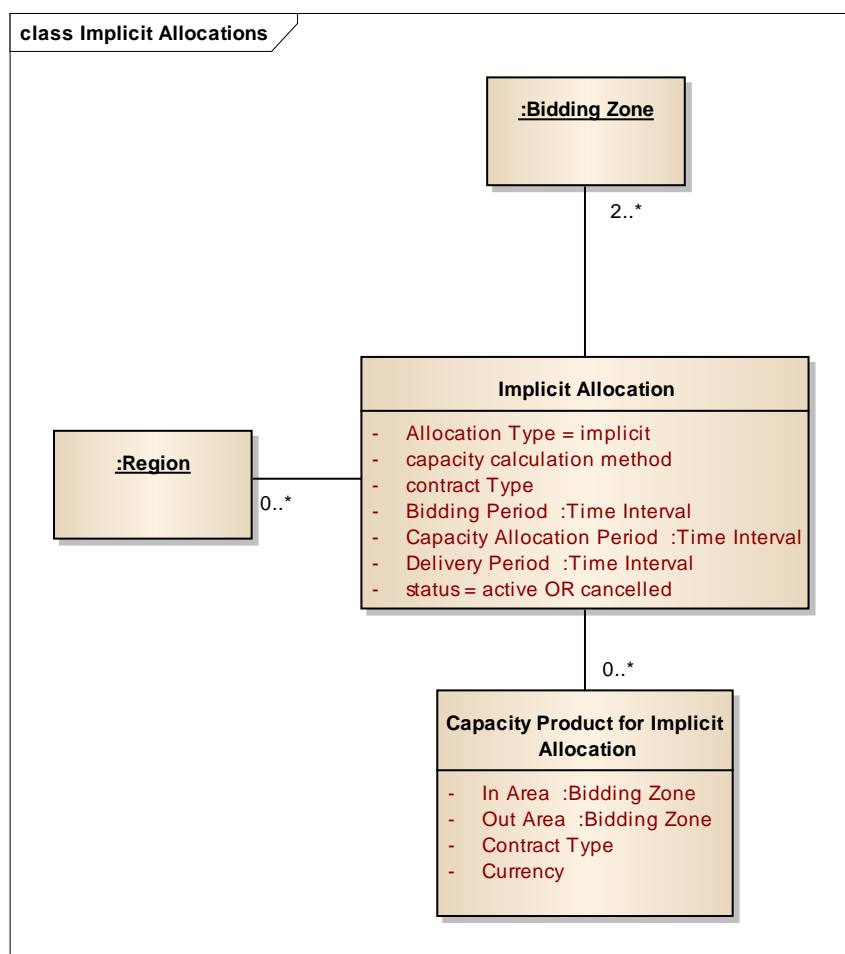
876     All Allocations present a Bidding Period, which is the time period where market participants  
877     can submit bids and a Capacity Allocation Period, which is the time period where the  
878     attribution of capacities to the participants is realised. The Bidding Period is optional and for  
879     information purposes only. Submission deadlines for many data items depend on the  
880     capacity allocation period which is mandatory.

### 881     7.1.2.1     IMPLICIT ALLOCATIONS

882     In implicit allocations transfer capacity is made implicitly available together with the energy. An  
883     Implicit Allocation that covers two or more Bidding Zones may be associated with a Region.

---

<sup>11</sup> Sometimes referred to as "Time Horizon".



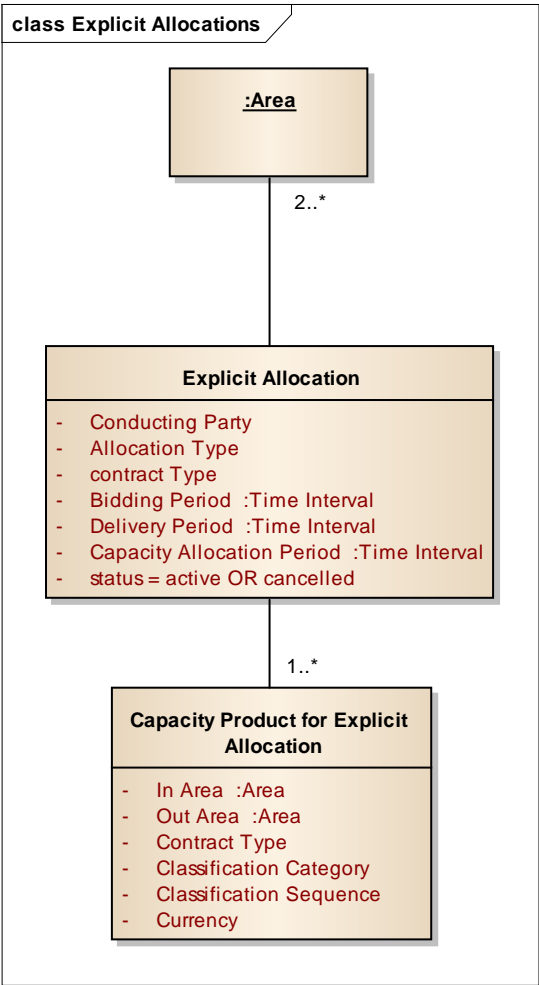
884

885 An implicit allocation offers daily and intraday capacity products only, each one being  
886 characterised by an In Area and an Out Area, a Currency and optionally a Sequence  
887 Classification (also referred to as round). Capacity calculation method is either ATC-based or  
888 flow-based. For allocations using flow-based capacity calculation method, capacity products  
889 do not apply.

## 890 7.1.2.2 EXPLICIT ALLOCATIONS

891 In explicit allocations the transfer capacity is made available (via an auction, a first-come/first-  
892 serve system, or any another method) in a first step. Energy is traded separately on commodity  
893 markets in a second step. An Explicit Allocation occurs between several (2 to n) Areas and is  
894 optionally associated with a Conducting Party<sup>12</sup>.

<sup>12</sup> This is to cater for split auctions



895

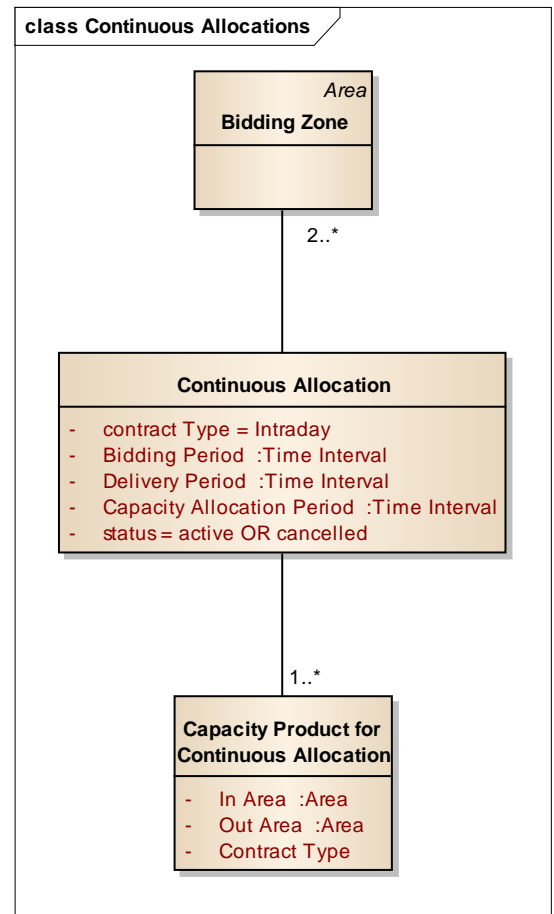
896 An explicit allocation offers several capacity products, each one being characterised by an In  
897 Area, an Out Area, a Contract Type (for example Intraday, Daily, Weekly ...), a Classification  
898 Category (for example, Base, Peak, ...), a Currency and a Classification Sequence (by default  
899 equal to 1), to distinguish several products which can be offered with the same contract Type  
900 and during the same Delivery Period.

901 By default, the Allocation Type is not specified. However there is a particular case where  
902 Allocation Type is “shadow auction”. This is a fall-back solution, replacing a daily implicit  
903 auction. Platform will not perform any monitoring of data submissions related to shadow  
904 auctions.

905

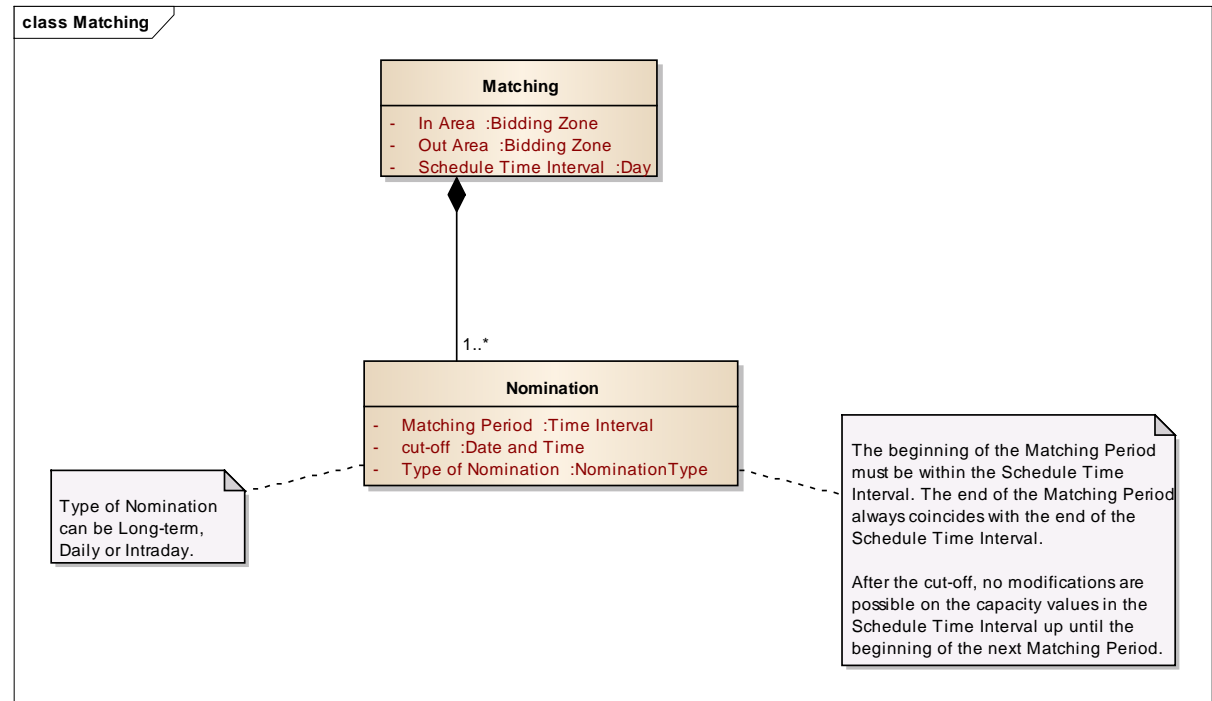
### 7.1.2.3 CONTINUOUS ALLOCATIONS

In continuous allocations bids from buyers and sellers are continuously matched while allocating available transmission capacity on the basis of first-come-first/served. A continuous allocation occurs between several (2 to n) Areas.



A continuous allocation offers several capacity products, each one being characterised by an In Area and an Out Area. Contract type is always intraday. The Allocation Type is not specified. For continuous allocations only offered capacity can be published. No price publication is foreseen.

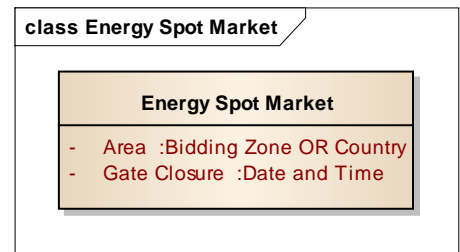
### 7.1.3 MATCHING



The matching process between TSOs is part of the nomination process (or nomination round). Matching may occur on a long-term, daily and also intraday basis for every couple of In and Out Areas. Matching is performed after the cut-off time. The cut-off time is the deadline for submission of nominations by the market to the respective TSOs.

For a given couple of Bidding Zones and day (the Schedule Time Interval), the Matching Period represents the period of the Schedule for which matching process is completed. A Nominations process is considered finished for the Schedule Time Interval after the matching process is complete and until the beginning of the next nomination round with has its own specific Matching Period.

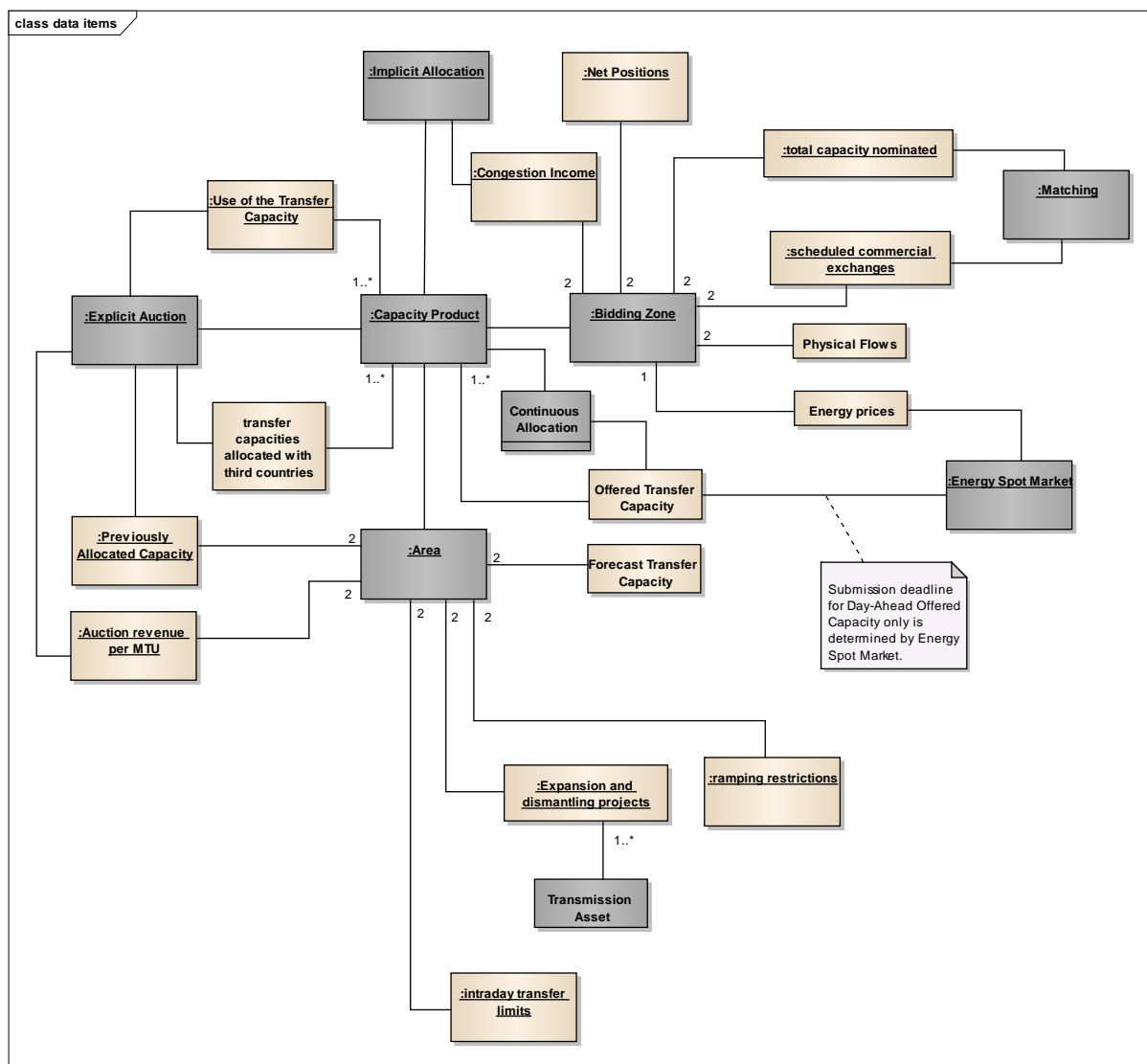
### 7.1.4 ENERGY SPOT MARKET





929 In every Bidding Zone or Country<sup>13</sup> there is an Energy Spot Market that has a daily gate  
930 closure.

## 931 7.1.5 DATA ITEMS



932

933 For several data items, applicable Bidding Zones or Areas will be deduced from the capacity  
934 products associated with the given allocation instance. Further, the instance's allocation period  
935 will influence the submission deadline. Hence, the configuration of the allocation process will  
936 indirectly control monitoring of submission compliance, both in terms of completeness and  
937 timing.

<sup>13</sup> This is the case for the bidding zone that covers Germany and Austria.

938 The applicable areas and submission deadlines of the data items that record offered transfer  
939 capacities (chapters 7.8 through 7.13) will depend on the configuration of the allocation  
940 process. Forecasted transfer capacities have their own independent configuration of applicable  
941 areas and submission deadlines.

942 For implicit allocations, applicable bidding zones and submission deadlines for data item  
943 Congestion Income (see chapter 7.24) depend on the implicit auction's capacity allocation  
944 period.

945 Similarly for explicit allocations, the applicable areas and submission deadlines for the data  
946 items Previously Allocated Capacity (see chapter 7.21), Use of the Transfer Capacity (see  
947 chapter 7.18) and Transfer Capacities Allocated with Third Countries (see chapter 7.27)  
948 depend on the explicit allocation's capacity allocation period.

949 The submission deadlines for the data items Total Nominated Capacity (see chapter 7) and  
950 Scheduled Day-Ahead Commercial Exchanges (see chapter 7) depend on the configuration of  
951 the matching process.

952 For the data item Energy Prices, (see chapter 7.22), the submission deadlines depend on the  
953 Energy Spot Market configuration.

## 954 7.1.6 PRE-CONFIGURATION

955 The platform administrator at ENTSO-E shall pre-configure the platform with the following  
956 reference data:

- 957 - [C-TRM-1] a list of Bidding Zones (e.g. FR). This is the same reference data as in  
958 Generation and Load domains.
- 959 - [C-TRM-2] a list of Bidding Zone Aggregations (for Technical Profiles) (e.g. DE-CZ-SK)
- 960 - [C-TRM-3] a list of Technical Profiles (e.g. PL -> DE-CZ-SK)
- 961 - [C-TRM-4] for each Bidding Zone, the Market Time Unit for energy trading
- 962 - [C-TRM-5] for each couple of Areas, the Market Time Unit for capacity trading (if applicable)
- 963 - [C-TRM-6] a list of Regions and for each region the Bidding Zones that constitute the  
964 Region
- 965 - [C-TRM-7] a list of Contract Types (for example Intraday, Daily, Weekly, quarterly,  
966 semester,...)
- 967 - [C-TRM-8] a list of Classification Categories (for example, Base, Peak, ...)
- 968 - [C-TRM-9] for each Bidding Zone, the Currency. This is used for validation in data item  
969 Energy Prices [12.1.d]

970 - [C-TRM-10] a list of countries and for each country, the corresponding Control Area(s). This  
971 is the same reference data as in Generation and Load domains. It will be used to facilitate  
972 search and filtering of published data by country.

973 - [C-TRM-11] for each Bidding Zone the country or countries that it covers completely or  
974 partially. This is the same reference data as in Load domain. It will be used to facilitate  
975 search and filtering of published data by country.

976 - [C-TRM-12] a list of valid Roles. This is used to validate Role of Data Provider in the  
977 context of Forecast transfer capacity [11.1].

978 Data Providers will be responsible for pre-configuring the platform with:

979 - Allocations and associated Capacity Products. Details are provided in chapter 7.28

980 - For Matching: Per couple of In and Out Bidding Zones, cut-offs and corresponding time  
981 intervals. Details as in chapter 7.1.3

982 - For Energy Spot Markets: Gate closure per Bidding Zone. Details as in chapter 7.1.4

### 983 7.1.7 DATA CONTAINER STATUS / DATA STATUS

984 For all data items except the reports [11.3] and [11.4], data follows the “None / Ready for  
985 publication / Missing” scheme if properly declared as expected and if the submission  
986 deadline has been configured.

### 987 7.1.8 PUBLICATION

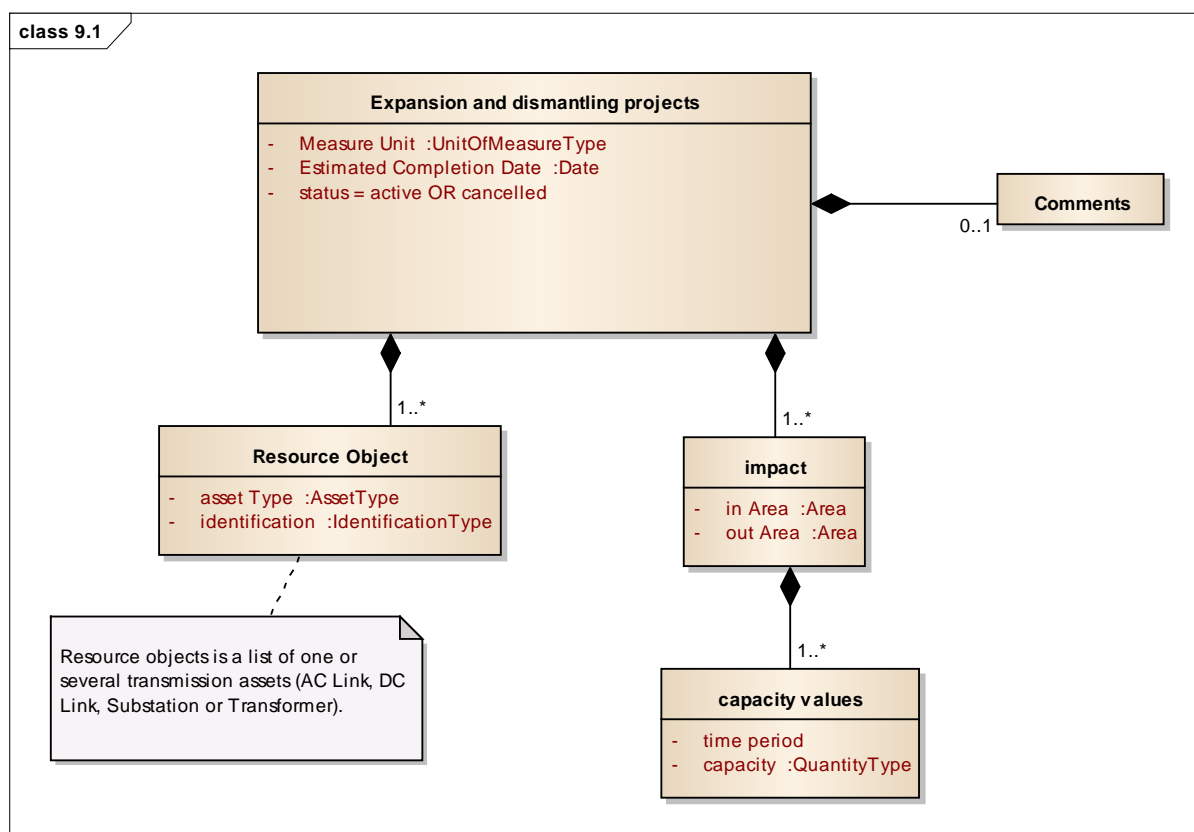
988 For all data items except the report data items [11.3] and [11.4], data shall be available on web  
989 site in all three formats; table, map and chart, unless explicitly stated otherwise in the chapters  
990 dedicated to each data item.

991

## 7.2 EXPANSION AND DISMANTLING PROJECTS [9.1]

### 7.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Expansion and dismantling projects are described with the estimated impact on the transfer capacity between two Areas, for each direction. The impact is expressed in a unit of measure (MW). The completion date of the project shall also be estimated.

The concerned transmission assets are described by a list of resource objects of type AC Link, DC Link, Substation or Transformer. Transmission asset does not necessarily have to be a cross-border line – it could also be internal to the Control Area of the Data Provider.

Status of project is active or cancelled.

Optionally, comments may be provided.

Alternatively, data providers may choose to submit this data as a report, see chapter 7.3.

## 1005 7.2.2 PRE-CONFIGURATION

- 1006 - A list of Area couples for which the data item "Expansion and Dismantling Projects"  
1007 may be submitted
- 1008 - For each Area couple, one or several Data Providers

## 1009 7.2.3 ASSUMPTIONS

- 1010 Transmission Assets have been declared with the mechanism described in chapter 11.11.
- 1011 Monitoring is not feasible for this data item, since projects cannot be anticipated.
- 1012 If more than one Data Provider submits data for given border, those Data Providers will  
1013 coordinate between themselves the submitted data. Single submission for all of ENTSO-E  
1014 could also be coordinated at the level of ENTSO-E secretariat.

## 1015 7.2.4 INTEGRATION

- 1016 - Area couple shall be recognised by the platform
- 1017 - The Data Provider shall be consistent with the identified Area couple
- 1018 - Transmission Assets are recognised by platform
- 1019 - Estimated impact is equal to or greater than 100 MW (configurable)

## 1020 7.2.5 MONITORING

- 1021 Monitoring is not performed on this data item.

## 1022 7.2.6 PROCESSING

- 1023 No processing is performed by the platform on this data item.

## 1024 7.2.7 PUBLICATION

### 1025 7.2.7.1 PUBLICATION BEHAVIOUR

- 1026 Latest version shall be published, however previous versions shall remain available on  
1027 platform.

### 1028 7.2.7.2 FILTERING AND SORTING CRITERIA

- 1029 End user shall be able to select data for display by specifying:

- 1030 - Country (optional - If selected, In and/or Out Areas that at least partially cover the Country  
1031 will be used as filtering criteria)
- 1032 - One or two Areas with direction (optional)
- 1033 - year or year range (mandatory)
- 1034 - status (optional)
- 1035 **7.2.7.3 DISPLAY**
- 1036 This data shall be displayed in the following section:
- 1037 Transmission / Expansion and dismantling projects
- 1038 The following attributes of data shall be displayed for all projects whose estimated completion  
1039 date falls within the selected year or year range:
- 1040 - Title
- 1041 - Unit of measurement (MW)
- 1042 - status (active or cancelled)
- 1043 - For each couple of Areas and direction, the estimated impact and the estimated date of  
1044 completion, and any comments. The concerned assets shall be published as a list, with links  
1045 to pages providing further details on each asset.
- 1046 Data shall be displayed in table format only.
- 1047

## 7.3 EXPANSION AND DISMANTLING PROJECTS (REPORT) [9.1]

### 7.3.1 DATA DESCRIPTION

This data item consists of a report in the form of a PDF file, describing the expansion and dismantling projects in a given control area. The report has a publication date and a date range for which it is valid. A data provider that wishes to express the impact of projects as a value range would submit this information in a PDF report.

Alternatively, data providers may submit this data in structured format, see chapter 7.2.

### 7.3.2 PRE-CONFIGURATION

Data Providers shall be able to configure the following reference data on the platform:

- A list of Control Areas
- For each Control Area, the unique Data Provider

### 7.3.3 ASSUMPTIONS

Data is submitted as a report. No monitoring is performed on this data item.

### 7.3.4 INTEGRATION

Data Provider shall on the platform's web site, on the same page where these reports are published, be able to upload a PDF file and associated it with one Control Area. Platform shall validate that the Data Provider is authorized for the given Control Area.

### 7.3.5 MONITORING

No monitoring is performed on this data item.

### 7.3.6 PROCESSING

No processing is performed on this data item.

### 7.3.7 PUBLICATION

#### 7.3.7.1 PUBLICATION BEHAVIOUR

Documents are published immediately after upload. All versions shall be published.

1073    **7.3.7.2      FILTERING AND SORTING CRITERIA**

1074        -    Country or Control Area (mandatory)

1075        -    Date range (optional)

1076    **7.3.7.3      DISPLAY**

1077    This data shall be displayed in the following section:

1078    **Transmission / Expansion and dismantling projects (report)**

1079    Each report shall be available for download by clicking a link.

1080    For every report, the publication date and validity date range shall be displayed.

1081

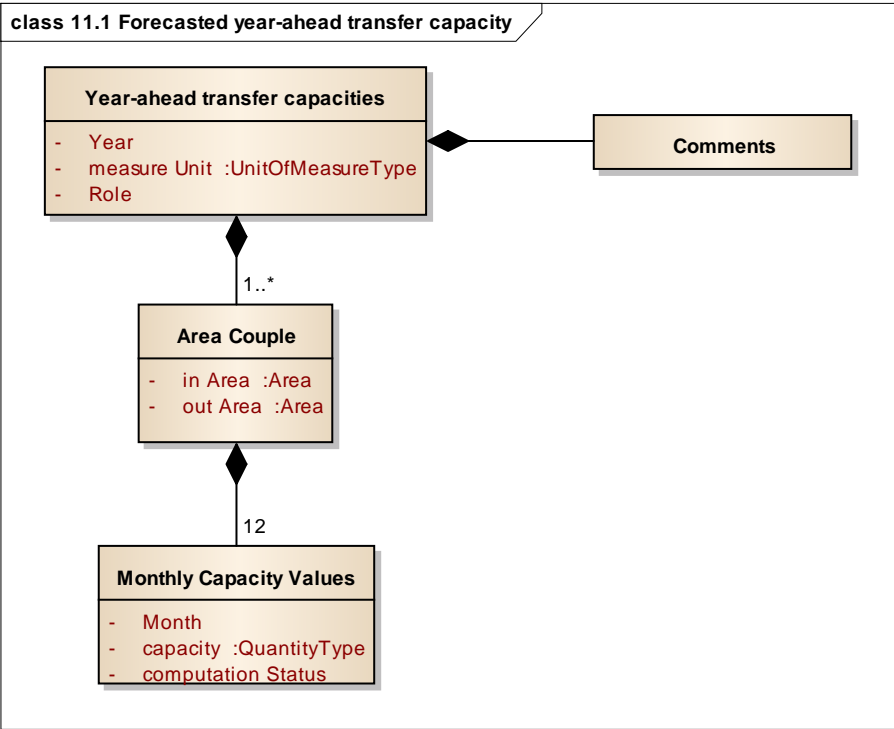


## 7.4 FORECASTED YEAR-AHEAD TRANSFER CAPACITIES

### [11.1]

#### 7.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several area couples.

Forecasted year-ahead transfer capacities are described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), for one year, with a capacity value by month expressed in Measure Unit, together with a computation Status ("minimum value" or "computed minimum value"). Role of Data Provider is included in submission.

Optionally, Forecasted year-ahead transfer capacities can be complemented with comments.

**Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.

#### 7.4.2 PRE-CONFIGURATION

- A list of Area couples where forecasted year-ahead transfer capacities are expected.

- 1096 - For each couple of Areas mentioned above, one or several Data Providers.
- 1097 - For each couple of Areas mentioned above, the yearly submission deadline:
- 1098 At the latest one week (W-1) before the yearly allocation process
- 1099 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1100 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*  
1101 *from 15<sup>th</sup> November 2012, 20:00 UTC until 18<sup>th</sup> November 22:00 UTC, the document shall*  
1102 *be submitted before November 8<sup>th</sup>, 2012, 20:00 UTC.*
- 1103 or
- 1104 at the latest December 15 the preceding year at 24:00 UTC.
- 1105 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1106 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1107 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*
- 1108 **7.4.3 ASSUMPTIONS**
- 1109 Values should be given per month, but a higher resolution is possible (up to the Market Time  
1110 Unit used by the couple of Areas).
- 1111 Submission can be done by multiple Data Providers.
- 1112 **7.4.4 INTEGRATION**
- 1113 - Areas shall be recognised by the platform
- 1114 - The Data Provider shall be consistent with pre-configuration described in 7.4.2
- 1115 - The time interval of the submitted document is one year
- 1116 - Role of Data Provider is recognised, as per [C-TRM-12]
- 1117 **7.4.5 MONITORING**
- 1118 Platform shall monitor that forecasted yearly transfer capacity values are submitted for all area  
1119 couples declared in pre-configuration, see section 7.4.2, before the submission deadline  
1120 described in same section. If no data has been submitted, all declared Data Providers will be  
1121 notified.
- 1122 **7.4.6 PROCESSING**
- 1123 The following processing applies:

- 1124 - In case the resolution of the submitted document is higher than a month, the lowest value of  
1125 the submitted data should be calculated for each month. For example if data is submitted in  
1126 daily values a computation must be made to compute the lowest daily value for every given  
1127 month of the submitted year. This makes it possible to compare this data with data submitted  
1128 with a monthly resolution.
- 1129 - Once values are computed per month, the platform must apply the following business rule  
1130 [PR-11.1], when processing submitted data for a given oriented couple of Areas and month in  
1131 order to determine whether data shall be marked as "minimum value" or "computed minimum  
1132 value".
- 1133 • If data is received for a given couple of Areas from a Data Provider the data will be  
1134 marked (computation status) as "minimum value".
  - 1135 • If data is received for the same oriented couple of Areas, from a different Data Provider  
1136 the platform must compute the 'minimum' value from the two received values and  
1137 isolate this value as the value to be published with a "computed minimum value"  
1138 computation status. The previously marked "minimum value" computation status must  
1139 be deleted.
  - 1140 • If data is marked as "minimum value" and the same Data Provider sends a new version  
1141 to the platform, the platform will consider this latest version for publication by marking  
1142 it as "minimum value" and delete the previous "minimum value" computation status.
  - 1143 • If data is computed and marked as "computed minimum value" and either Data Provider  
1144 involved sends a new version of the document, the platform must compute the  
1145 'minimum' value from the received value and the value from the other Data Provider  
1146 and will isolate this value as the value to be published, with the "computed minimum  
1147 value" computation status. The "computed minimum value" computation status must  
1148 be deleted from the previous version of the value.
  - 1149 • If data is received for a given couple of Areas from a Data Provider with the role  
1150 "Capacity Coordinator (CCrd) or "Transmission Capacity Allocator (TCA)", the data will  
1151 be marked as "computed minimum value".
  - 1152 • If data is marked as "computed minimum value" and the Data Provider with the role  
1153 "CCrd" or "TCA" sends a new version to the platform, the platform will consider this  
1154 latest version of the information for display by marking it as "computed minimum value"  
1155 and delete from the previous version the "computed minimum value" computation  
1156 status.
- 1157

## 1158 7.4.7 PUBLICATION

### 1159 7.4.7.1 PUBLICATION BEHAVIOUR

1160 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1161 computation status. Data without any computation status shall not be published. This rule takes  
1162 precedence over the common rule which states that all versions of the data are available on  
1163 the platform.

### 1164 7.4.7.2 FILTERING AND SORTING CRITERIA

1165 Data shall be visually accessed by selecting the following:

1166 Year (Selection is mandatory)

1167 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1168 partially or completely cover the Country)

1169 Optionally, user may specify Area, couple of Areas and direction.

### 1170 7.4.7.3 DISPLAY

1171 This data shall be displayed in the following section:

#### 1172 - **Forecasted transfer capacities / year-ahead**

1173 The following attributes of data shall be displayed:

1174 - Title

1175 - Measurement Unit

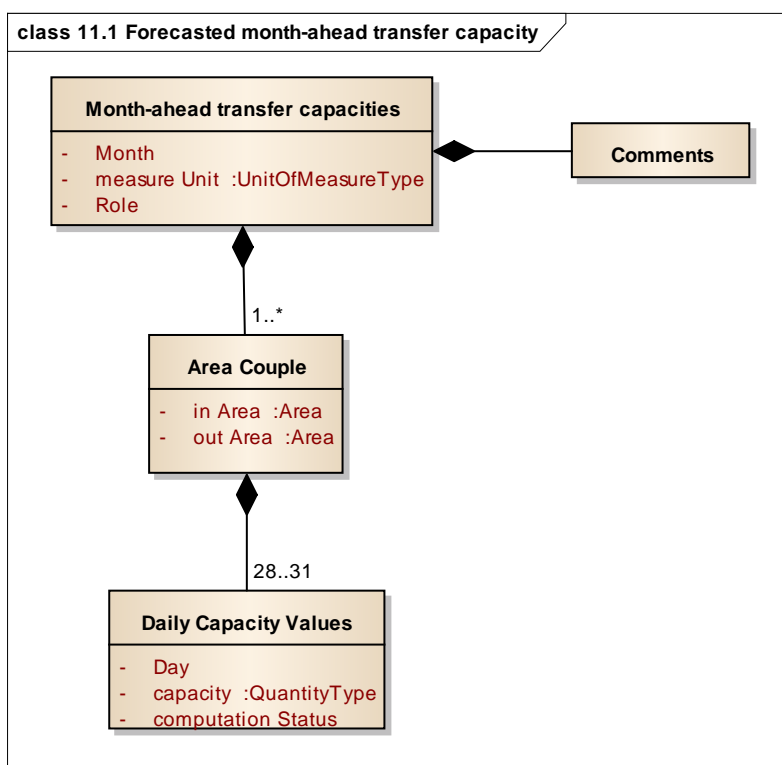
1176 - Comments

1177 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1178 each month within the selected year, the capacity value and its computation status  
1179

## 7.5 FORECASTED MONTH-AHEAD TRANSFER CAPACITIES [11.1]

### 7.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

Forecasted month-ahead transfer capacities are described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), for one month, with a capacity value expressed in Measure Unit for every day, together with a computation Status ("minimum value" or "computed minimum value"). Role of Data Provider is included in submission.

Optionally, forecasted month-ahead transfer capacities can be complemented with comments.

**Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

### 7.5.2 PRE-CONFIGURATION

- A list of Area couples where forecasted month-ahead transfer capacities are expected

- For each couple of Areas mentioned above, one or several Data Providers

- 1195 - For each couple of Areas mentioned above, the monthly submission deadline:
- 1196 For a given month, submission must be done at the latest two working days (D-2) before
- 1197 the monthly allocation process.

1198 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*

1199 *the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity*

1200 *Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the document shall*

1201 *be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*

### 1202 7.5.3 ASSUMPTIONS

1203 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit

1204 used by the couple of Areas).

1205 Submission can be done by multiple Data Providers.

### 1206 7.5.4 INTEGRATION

- 1207 - Areas shall be recognised by the platform
- 1208 - The Data Provider shall be consistent with pre-configuration described in 7.5.2
- 1209 - The time interval of the submitted document is one month
- 1210 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1211 7.5.5 MONITORING

1212 Platform shall monitor that forecasted monthly transfer capacity values are submitted for all

1213 area couples declared in pre-configuration, see section 7.5.2, before the submission deadline

1214 described in same section. If no data has been submitted, all declared Data Providers will be

1215 notified.

### 1216 7.5.6 PROCESSING

1217 The following processing applies:

- 1218 - In case the resolution of the submitted document is higher than a day, the lowest value of the
- 1219 submitted data should be calculated for each day. For example if data is submitted per MTU
- 1220 period a computation must be made to compute the lowest daily value for every given day of
- 1221 the submitted month. This makes it possible to compare this data with data submitted with a
- 1222 daily resolution.
- 1223 - Once values are computed per day, the platform must apply the business rule [PR-11.1],
- 1224 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas

1225 and day in order to determine whether data shall be marked as “minimum value” or “computed  
1226 minimum value”.

## 1227 7.5.7 PUBLICATION

### 1228 7.5.7.1 PUBLICATION BEHAVIOUR

1229 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1230 computation status. Data without any computation status shall not be published. This rule takes  
1231 precedence over the common rule which states that all versions of the data are available on  
1232 the platform.

### 1233 7.5.7.2 FILTERING AND SORTING CRITERIA

1234 Data shall be visually accessed by selecting the following:

1235 Month (Selection is mandatory)

1236 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1237 partially or completely cover the Country)

1238 Optionally, user may specify Area, couple of Areas and direction.

### 1239 7.5.7.3 DISPLAY

1240 This data shall be displayed in the following section:

#### 1241 - **Forecasted transfer capacities / month-ahead**

1242 The following attributes of data shall be displayed:

1243 - Title

1244 - Month

1245 - Measurement Unit

1246 - Comments

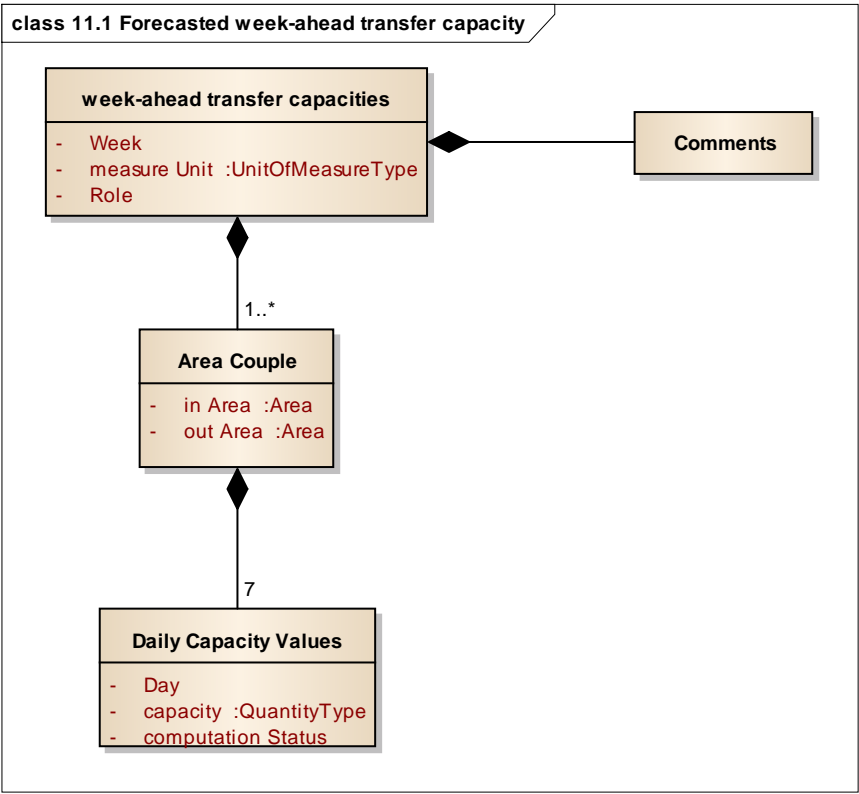
1247 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1248 each day within the selected month the capacity value and its computation status  
1249

# 7.6 FORECASTED WEEK-AHEAD TRANSFER CAPACITIES

## [11.1]

### 7.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

Forecasted week-ahead transfer capacities are described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), for one week, with a capacity value per day expressed in Measure Unit, together with a computation Status (“minimum value” or “computed minimum value”). Role of Data Provider is included in submission.

Optionally, forecasted week-ahead transfer capacities can be complemented with comments.

**Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

### 7.6.2 PRE-CONFIGURATION

- A list of Area couples where forecasted week-ahead transfer capacities are expected



- 1264 - For each couple of Areas mentioned above, one or several Data Providers
- 1265 - For each couple of Areas mentioned above, the weekly submission deadline: Friday before
- 1266 the week for which values refer to.
- 1267 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
- 1268 *and the week for which forecasts are to be provided is Week 11, 2012 (12<sup>th</sup> of March to 18<sup>th</sup> of*
- 1269 *March), the document shall be submitted before Friday March 9<sup>th</sup>, 2012, 24:00 UTC.*

### 1270 7.6.3 ASSUMPTIONS

- 1271 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit
- 1272 used by the couple of Areas).
- 1273 Submission can be done by multiple Data Providers.

### 1274 7.6.4 INTEGRATION

- 1275 - Areas shall be recognised by the platform
- 1276 - The Data Provider shall be consistent with pre-configuration described in 7.6.2
- 1277 - The time interval of the submitted document is one week
- 1278 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1279 7.6.5 MONITORING

- 1280 Platform shall monitor that forecasted weekly transfer capacity values are submitted for all area
- 1281 couples declared in pre-configuration, see section 7.6.2, before the submission deadline
- 1282 described in same section. If no data is submitted, all declared Data Providers will be notified.

### 1283 7.6.6 PROCESSING

- 1284 The following processing applies:
- 1285 - In case the resolution of the submitted document is higher than a day, the lowest value of the
- 1286 submitted data should be calculated for each day. For example if data is submitted in hourly
- 1287 values a computation must be made to compute the lowest hourly value for every given day of
- 1288 the submitted week. This makes it possible to compare this data with data submitted with a
- 1289 daily resolution.
- 1290 - Once values are computed per day, the platform must apply the business rules [PR-11.1],
- 1291 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas
- 1292 and day in order to determine whether data shall be marked as “minimum value” or “computed
- 1293 minimum value”.

## 1294 7.6.7 PUBLICATION

### 1295 7.6.7.1 PUBLICATION BEHAVIOUR

1296 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1297 computation status. Data without any computation status shall not be published. This rule takes  
1298 precedence over the common rule which states that all versions of the data are available on  
1299 the platform.

### 1300 7.6.7.2 FILTERING AND SORTING CRITERIA

1301 Data shall be visually accessed by selecting the following:

1302 Week (Selection is mandatory)

1303 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1304 partially or completely cover the Country)

1305 Optionally, user may specify Area, couple of Areas and direction.

### 1306 7.6.7.3 DISPLAY

1307 This data shall be displayed in the following section:

#### 1308 - **Forecasted transfer capacities / week-ahead**

1309 The following attributes of data shall be displayed:

1310 - Title

1311 - Week

1312 - Measurement Unit

1313 - Comments

1314 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1315 each day within the week the capacity value and its computation status

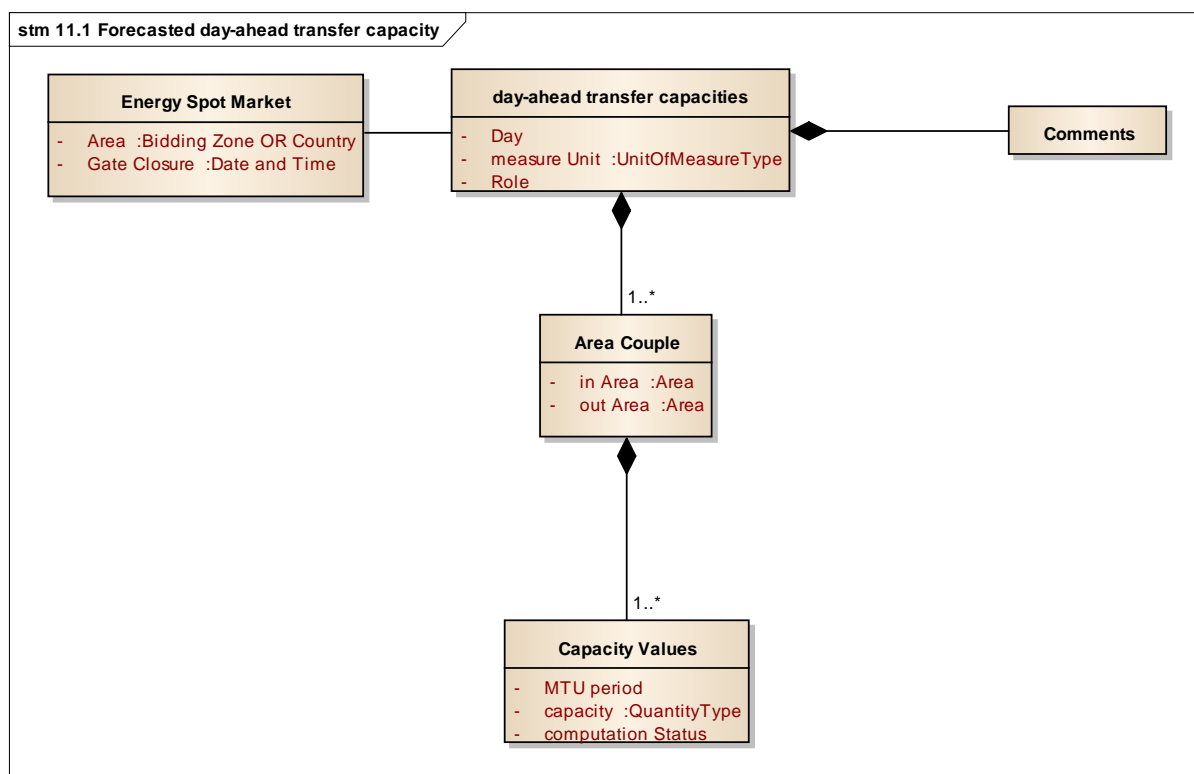
1316

## 7.7 FORECASTED DAY-AHEAD TRANSFER CAPACITIES

### [11.1]

#### 7.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

Forecasted day-ahead transfer capacities are described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), for one day, with a capacity value per MTU period expressed in Measure Unit, together with a computation Status ("minimum value" or "computed minimum value"). Role of Data Provider is included in submission.

Optionally, day-ahead week-ahead transfer capacities can be complemented with comments.

**Note:** This is a data item which is not demanded by [1]. Hence, data submissions are voluntary.

#### 7.7.2 PRE-CONFIGURATION

- A list of Area couples where forecasted day-ahead transfer capacities are expected

- For each couple of Areas mentioned above, one or several Data Providers

1332 - For each couple of Areas mentioned above, the daily submission deadline: 1 hour before  
1333 spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of energy  
1334 spot markets.

1335 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1336 *and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval of*  
1337 *March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00 UTC.*

### 1338 7.7.3 ASSUMPTIONS

1339 Submission can be done by multiple Data Providers.

### 1340 7.7.4 INTEGRATION

1341 - Areas shall be recognised by the platform

1342 - The Data Provider shall be consistent with pre-configuration described in 7.6.2

1343 - The time interval of the submitted document is one day

1344 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1345 7.7.5 MONITORING

1346 Platform shall monitor that forecasted daily transfer capacity values are submitted for all area  
1347 couples declared in pre-configuration, see section 7.6.2, before the submission deadline  
1348 described in same section. If no data is submitted, all declared Data Providers will be notified.

### 1349 7.7.6 PROCESSING

1350 The platform must apply the business rules [PR-11.1], refer to chapter 7.4.6, when processing  
1351 submitted data for a given oriented couple of Areas and day in order to determine whether  
1352 data shall be marked as “minimum value” or “computed minimum value”.

### 1353 7.7.7 PUBLICATION

#### 1354 7.7.7.1 PUBLICATION BEHAVIOUR

1355 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1356 computation status. Data without any computation status shall not be published. This rule takes  
1357 precedence over the common rule which states that all versions of the data are available on  
1358 the platform.

#### 1359 7.7.7.2 FILTERING AND SORTING CRITERIA

1360 Data shall be visually accessed by selecting the following:

1361 Day (Selection is mandatory)

1362 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1363 partially or completely cover the Country)

1364 Optionally, user may specify Area, couple of Areas and direction.

### 1365 7.7.7.3 DISPLAY

1366 This data shall be displayed in the following section:

#### 1367 - **Forecasted transfer capacities / day-ahead**

1368 The following attributes of data shall be displayed:

1369 - Title

1370 - Day

1371 - Measurement Unit

1372 - Comments

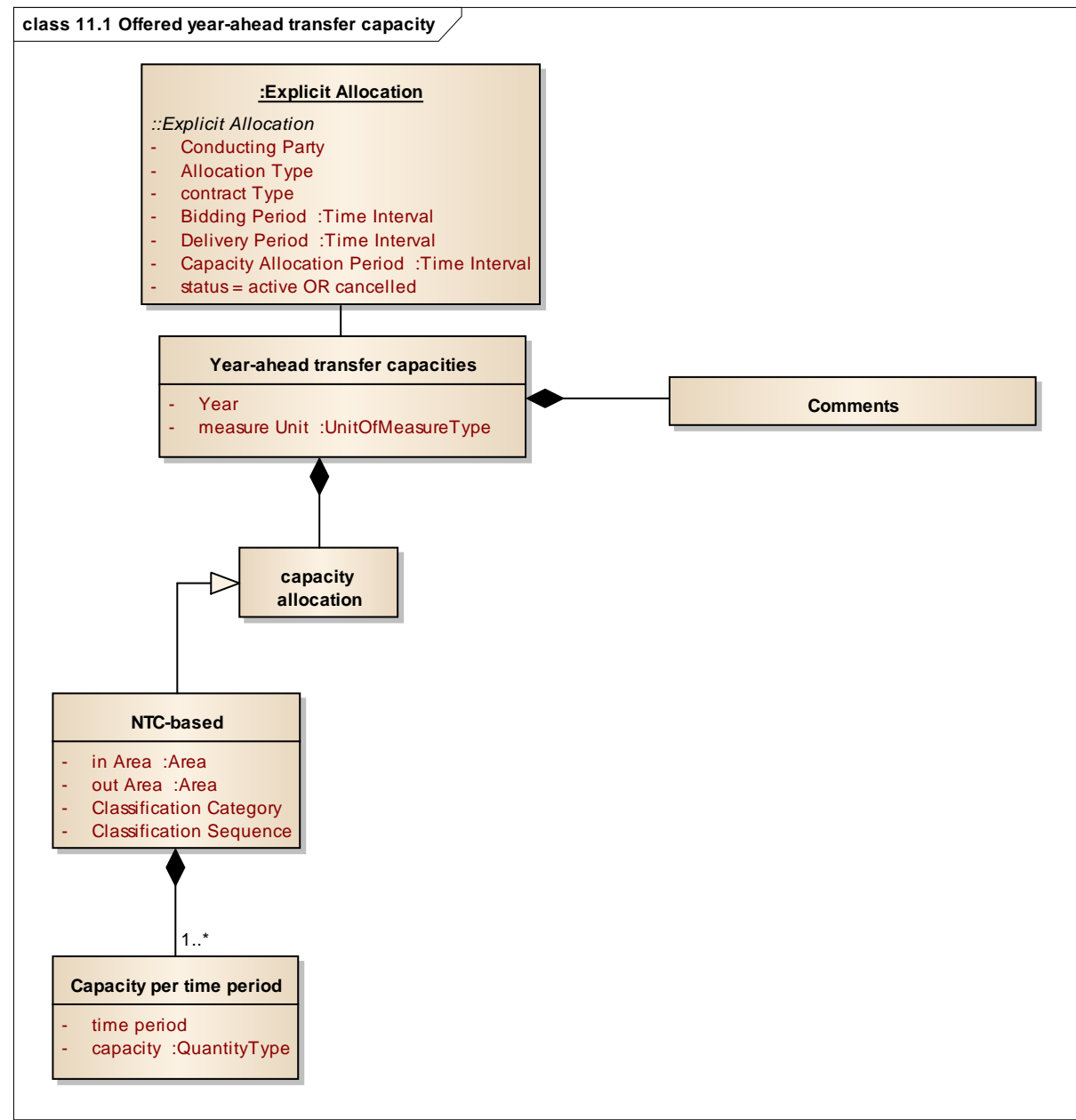
1373 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1374 each MTU period within the day the capacity value and its computation status  
1375

## 7.8 OFFERED YEAR-AHEAD TRANSFER CAPACITIES

### [11.1]

#### 7.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall cover the offered capacities related to one auction only.

- 1382 Yearly offered transfer capacities are associated with a yearly explicit transmission auction.
- 1383 Offered year-ahead transfer capacities are described between an In Area (the Area flows come  
1384 into) and an out Area (the Area flows come out), for one year, with a single capacity value for  
1385 the whole year expressed in Measure Unit.
- 1386 Capacity values are submitted separately per Classification Category and Classification  
1387 Sequence.
- 1388 Optionally, offered year-ahead transfer capacities can be complemented with comments.
- 1389 **Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.

## 1390 7.8.2 PRE-CONFIGURATION

- 1391 - Year-ahead transfer capacities are expected for all couples of Areas covered by a yearly  
1392 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1393 auction's capacity products.
- 1394 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1395 configuration. Refer to chapter 7.28.1.3 for details.
- 1396 The submission deadline is one week (W-1) before the yearly allocation process, but no later  
1397 than the 15<sup>th</sup> of December. Therefore, there shall be a default submission deadline set to one  
1398 week before the start of the yearly auction's capacity allocation period. Additionally, it must  
1399 be possible to specify another deadline that supersedes the default.
- 1400 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1401 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*  
1402 *from November 2012, 15<sup>th</sup> 20:00 UTC to 18<sup>th</sup> 22:00 UTC, the document shall be submitted*  
1403 *before November 8<sup>th</sup>, 2012, 20:00 UTC.*
- 1404 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1405 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1406 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*
- 1407 The submission deadline is the same for all area couples covered by the auction's capacity  
1408 products.

## 1409 7.8.3 ASSUMPTIONS

- 1410 A single value should be provided for the whole year, but a higher resolution is possible (up to  
1411 the Market Time Unit used by the couple of Areas).
- 1412 There is not more than one Data Provider per auction instance.

#### 1413 7.8.4 INTEGRATION

- 1414 - Areas shall be recognised by the platform
- 1415 - The Data Provider shall be consistent with the auction configuration
- 1416 - The time interval of the submitted document is one year

#### 1417 7.8.5 MONITORING

- 1418 For a given instance of an auction, platform shall monitor that offered transfer capacity values
- 1419 are submitted for all area couples as deduced from the auction's capacity products. The
- 1420 submission deadline described in section 7.8.2 will be monitored.
- 1421 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
- 1422 Classification Categories and Classification Sequences).

#### 1423 7.8.6 PROCESSING

- 1424 No processing is performed on this data item.

#### 1425 7.8.7 PUBLICATION

##### 1426 7.8.7.1 PUBLICATION BEHAVIOUR

- 1427 No specific publication behaviour applies.

##### 1428 7.8.7.2 FILTERING AND SORTING CRITERIA

- 1429 Data shall be visually accessed by selecting the following:
- 1430 Year (Selection is mandatory)
- 1431 Country (selection is optional: If selected, Areas will be filtered to include only those that
- 1432 partially or completely cover the Country)
- 1433 Optionally, user may specify Area, couple of Areas and direction.

##### 1434 7.8.7.3 DISPLAY

- 1435 This data shall be displayed in the following section:
- 1436 - **offer of transfer capacities / year-ahead**
- 1437 The following attributes of data shall be displayed:
- 1438 - Title



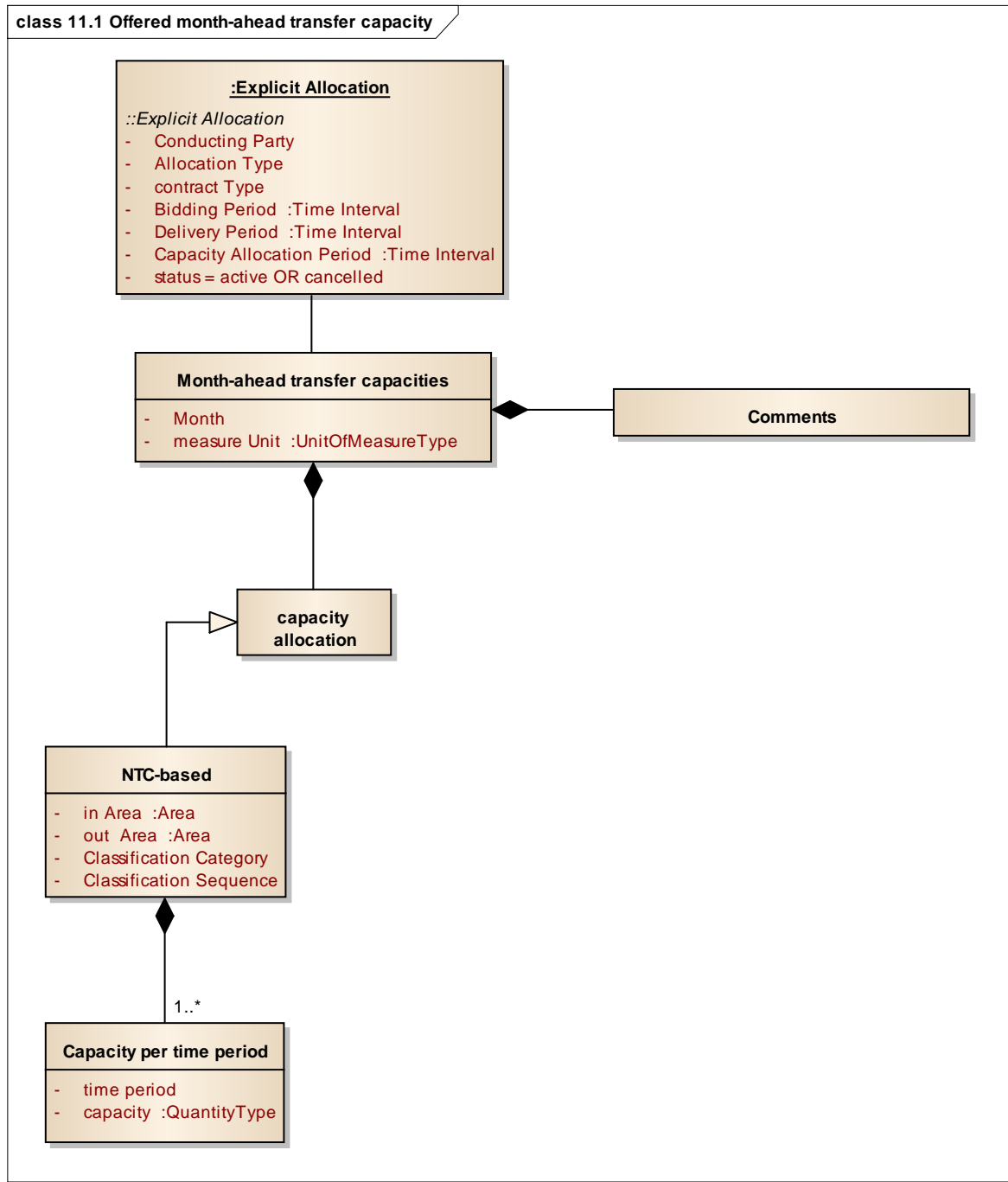
- 1439 - Measurement Unit
- 1440 - Comments
- 1441 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
- 1442 capacity value (for every classification category and classification sequence)
- 1443 If capacity values vary during the year, it shall be possible to expand the view so that they are
- 1444 displayed as a curve and in a table.
- 1445

## 7.9 OFFERED MONTH-AHEAD TRANSFER CAPACITIES

### [11.1]

#### 7.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



- 1451 The document shall cover the offered capacities related to one auction only.
- 1452 Monthly offered transfer capacities are associated with a monthly explicit transmission auction.
- 1453 Offered month-ahead transfer capacities are described between an In Area (the Area flows  
1454 come into) and an out Area (the Area flows come out from), for one month, with a single  
1455 capacity value expressed in Measure Unit.
- 1456 Capacity values are submitted separately per Classification Category and Classification  
1457 Sequence.
- 1458 Optionally, offered month-ahead transfer capacities can be complemented with comments.
- 1459 **Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

## 1460 7.9.2 PRE-CONFIGURATION

- 1461 - Month-ahead offered transfer capacities are expected for all couples of Areas covered by a  
1462 monthly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration  
1463 of an auction's capacity products.
- 1464 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1465 configuration. Refer to chapter 7.28.1.3 for details.
- 1466 For a given month, submission must be done at the latest two working days (D-2) before  
1467 the start of the Allocation Period of the associated monthly explicit auction bidding.
- 1468 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1469 *the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity*  
1470 *Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the document shall*  
1471 *be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*
- 1472 The submission deadline applies to all area couples covered by the auction.

## 1473 7.9.3 ASSUMPTIONS

- 1474 A single value should be given for the whole month, but a higher resolution is possible (up to  
1475 the Market Time Unit used by the couple of Areas).
- 1476 There is not more than one Data Provider per auction instance.

## 1477 7.9.4 INTEGRATION

- 1478 - Areas shall be recognised by the platform
- 1479 - The Data Provider shall be consistent with the auction configuration
- 1480 - The time interval of the submitted document is one month

## 1481 7.9.5 MONITORING

1482 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1483 are submitted for all area couples as deduced from the auction's capacity products. There is  
1484 a submission deadline as described in section 7.9.2.

1485 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1486 Classification Categories and Classification Sequences).

## 1487 7.9.6 PROCESSING

1488 No processing is performed on this data item.

## 1489 7.9.7 PUBLICATION

### 1490 7.9.7.1 PUBLICATION BEHAVIOUR

1491 No specific publication behaviour applies.

### 1492 7.9.7.2 FILTERING AND SORTING CRITERIA

1493 Data shall be visually accessed by selecting the following:

1494 Month (Selection is mandatory)

1495 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1496 partially or completely cover the Country)

1497 Optionally, user may specify Area, couple of Areas and direction.

### 1498 7.9.7.3 DISPLAY

1499 This data shall be displayed in the following section:

#### 1500 - offer of transfer capacities / month-ahead

1501 The following attributes of data shall be displayed:

1502 - Title

1503 - Month

1504 - Measurement Unit

1505 - Comments

1506 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1507 capacity value (for every classification category and classification sequence)

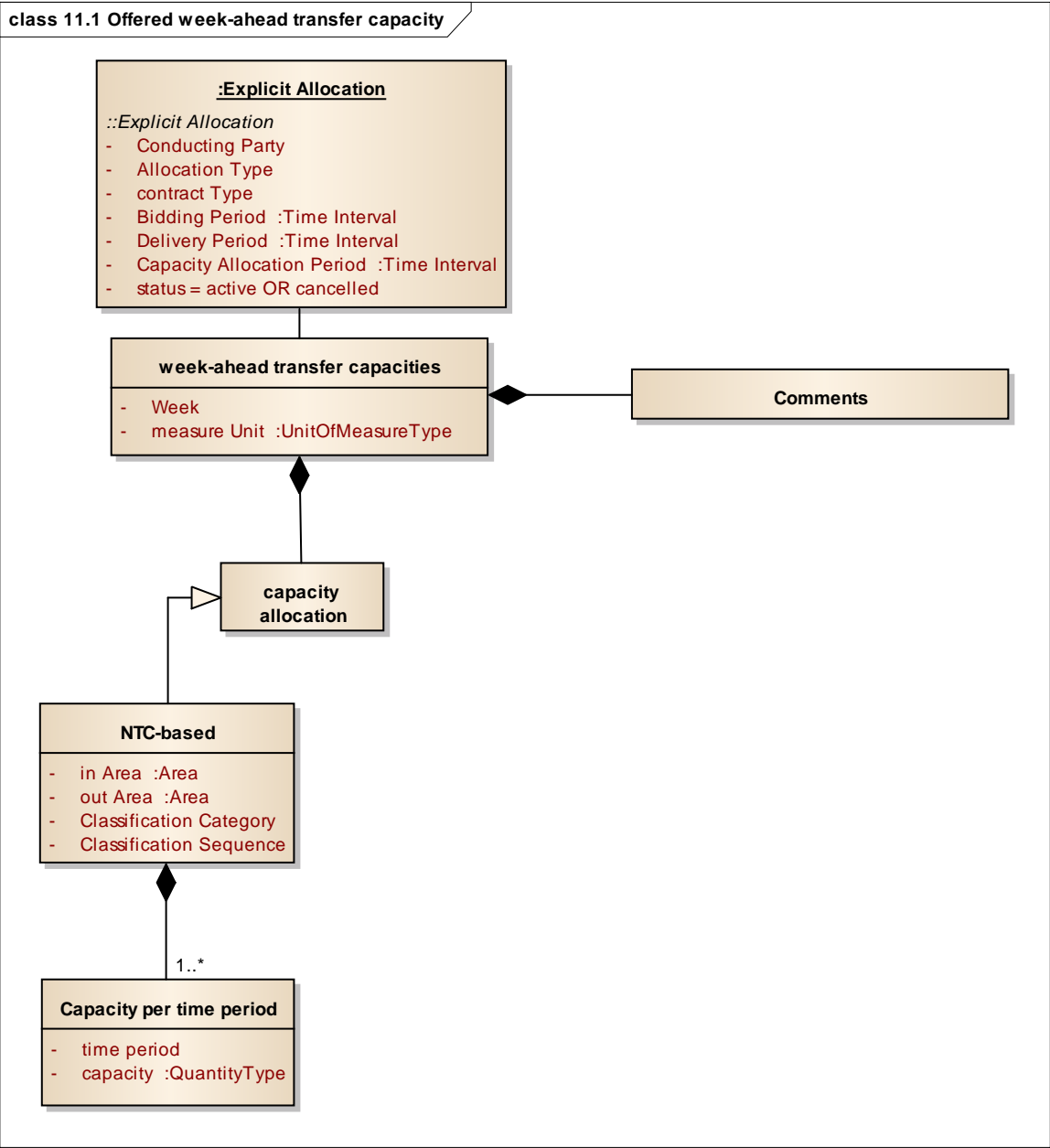
- 1508 If capacity values vary during the month, it shall be possible to expand the view so that they  
1509 are displayed as a curve and in a table.

7.10 OFFERED WEEK-AHEAD TRANSFER CAPACITIES

[11.1]

7.10.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall cover the offered capacities related to one auction only.

- 1516 Weekly offered transfer capacities are associated with a weekly explicit transmission auction.
- 1517 Offered week-ahead transfer capacities are described between an In Area (the Area flows  
1518 come into) and an out Area (the Area flows come out from), for one week, with a single capacity  
1519 value for the whole week expressed in Measure Unit.
- 1520 Capacity values are submitted separately per Classification Category and Classification  
1521 Sequence.
- 1522 Optionally, offered week-ahead transfer capacities can be complemented with comments.
- 1523 **Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

## 1524 7.10.2 PRE-CONFIGURATION

- 1525 - Week-ahead offered transfer capacities are expected for all couples of Areas covered by a  
1526 weekly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration  
1527 of an auction's capacity products.
- 1528 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1529 configuration. Refer to chapter 7.28.1.3 for details.
- 1530 - The submission deadline for offered week-ahead transfer capacity is one day (D-1) before  
1531 the weekly allocation process:
- 1532 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1533 *the weekly capacity allocation period starts on Friday 10:00 UTC and the week for which*  
1534 *offers are to be provided is Week 11, 2012 (12<sup>th</sup> of March to 18<sup>th</sup> of March), the document*  
1535 *shall be submitted before Thursday March 8<sup>th</sup>, 2012, 10:00 UTC.*
- 1536 The submission deadline is the same for all couples of Areas covered by the auction's  
1537 capacity products.

## 1538 7.10.3 ASSUMPTIONS

- 1539 A single value should be provided for the whole week, but a higher resolution is possible (up  
1540 to the Market Time Unit used by the couple of Areas).
- 1541 There is not more than one Data Provider per auction instance.

## 1542 7.10.4 INTEGRATION

- 1543 - Areas shall be recognised by the platform
- 1544 - The Data Provider shall be consistent with the capacity allocation configuration
- 1545 - The time interval of the submitted document is one week

## 1546 7.10.5 MONITORING

1547 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1548 are submitted for all area couples as deduced from the auction's capacity products. The  
1549 submission deadline described in section 7.10.2 will be monitored.

1550 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1551 Classification Categories and Classification Sequences).

## 1552 7.10.6 PROCESSING

1553 No processing is performed on this data item.

## 1554 7.10.7 PUBLICATION

### 1555 7.10.7.1 PUBLICATION BEHAVIOUR

1556 No specific publication behaviour applies.

### 1557 7.10.7.2 FILTERING AND SORTING CRITERIA

1558 Data shall be visually accessed by selecting the following:

1559 Week (Selection is mandatory)

1560 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1561 partially or completely cover the Country)

1562 Optionally, user may specify Area, couple of Areas and direction.

### 1563 7.10.7.3 DISPLAY

1564 This data shall be displayed in the following section:

#### 1565 - offer of transfer capacities / week-ahead

1566 The following attributes of data shall be displayed:

1567 - Title

1568 - Week

1569 - Measurement Unit

1570 - Comments

1571 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1572 capacity value (for every classification category and classification sequence)

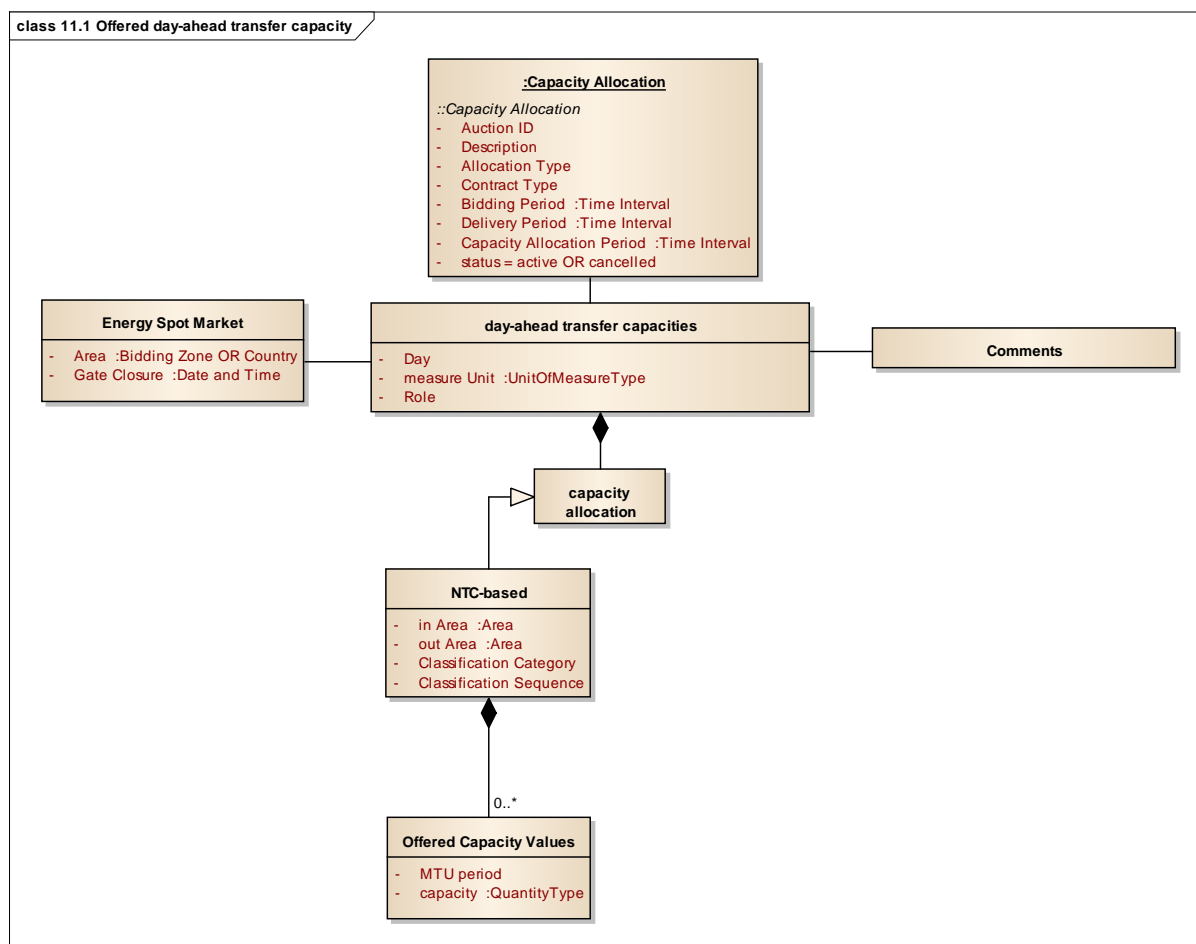


- 1573 If capacity values vary during the week, it shall be possible to expand the view so that they  
1574 are displayed as a curve and in a table.

## 7.11 Offered DAY-AHEAD TRANSFER CAPACITY [11.1]

### 7.11.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For NTC-based allocation of capacities, the document shall cover the offered capacities related to one auction only.

Day-ahead offered transfer capacities are associated with a daily capacity allocation (either implicit or explicit).

Offered day-ahead transfer capacity is described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), for one day, by Market Time Unit period, with a capacity value expressed in Measure Unit.

If there are several Capacity Products, capacity values are submitted separately per Classification Category and Classification Sequence (this is the case for explicit auctions). For implicit allocations, optionally the classification sequence may be indicated.

1589 NTC-based values are applicable between two Areas.

1590 Optionally, Offered day-ahead transfer capacity can be complemented with comments.

1591 In some situations there may not be any capacity values to submit because of no allocation on  
1592 a specific day.

## 1593 7.11.2 PRE-CONFIGURATION

1594 - Day-ahead transfer capacities are expected for all couples of Areas covered by a daily  
1595 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1596 auction's capacity products.

1597 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1598 configuration. Refer to chapter 7.28.1.3 for details.

1599 The submission deadline for offered day-ahead transfer capacity is 1 hour (H-1) before  
1600 energy spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of  
1601 energy spot markets.

1602 *Example: if the oriented couple of Areas is France Bidding Area to Germany Bidding Area,*  
1603 *and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval of*  
1604 *March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00 UTC.*

## 1605 7.11.3 ASSUMPTIONS

1606 There is not more than one Data Provider per auction instance.

1607 The deadline determined by spot market gate closure is the same for In Area and Out Area.

## 1608 7.11.4 INTEGRATION

1609 - Areas shall be recognised by the platform

1610 - The Data Provider shall be consistent with the auction configuration

1611 - The time interval of the submitted document is one day

## 1612 7.11.5 MONITORING

1613 For a given instance of an auction, platform shall monitor that transfer capacity values are  
1614 submitted for all area couples as deduced from the auction's capacity products. The  
1615 submission deadline as described in section 7.11.2 will be monitored.

1616 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1617 Classification Categories and Classification Sequences). This is applicable for explicit

1618 auctions. If classification sequence is defined for an implicit allocation, monitoring shall verify  
1619 that values are submitted accordingly.

#### 1620 7.11.6 PROCESSING

1621 No processing is performed on this data item.

#### 1622 7.11.7 PUBLICATION

##### 1623 7.11.7.1 PUBLICATION BEHAVIOUR

1624 No specific publication behaviour applies.

##### 1625 7.11.7.2 FILTERING AND SORTING CRITERIA

1626 Data shall be visually accessed by selecting the following:

1627 Day (Selection is mandatory)

1628 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1629 partially or completely cover the Country)

1630 Optionally, user may specify Area, couple of Areas and direction.

##### 1631 7.11.7.3 DISPLAY

1632 This data shall be displayed in the following section:

##### 1633 - offer of transfer capacities / Day-ahead

1634 The following attributes of data shall be displayed:

1635 - Title

1636 - Day selection

1637 - Measurement Unit

1638 - Comments

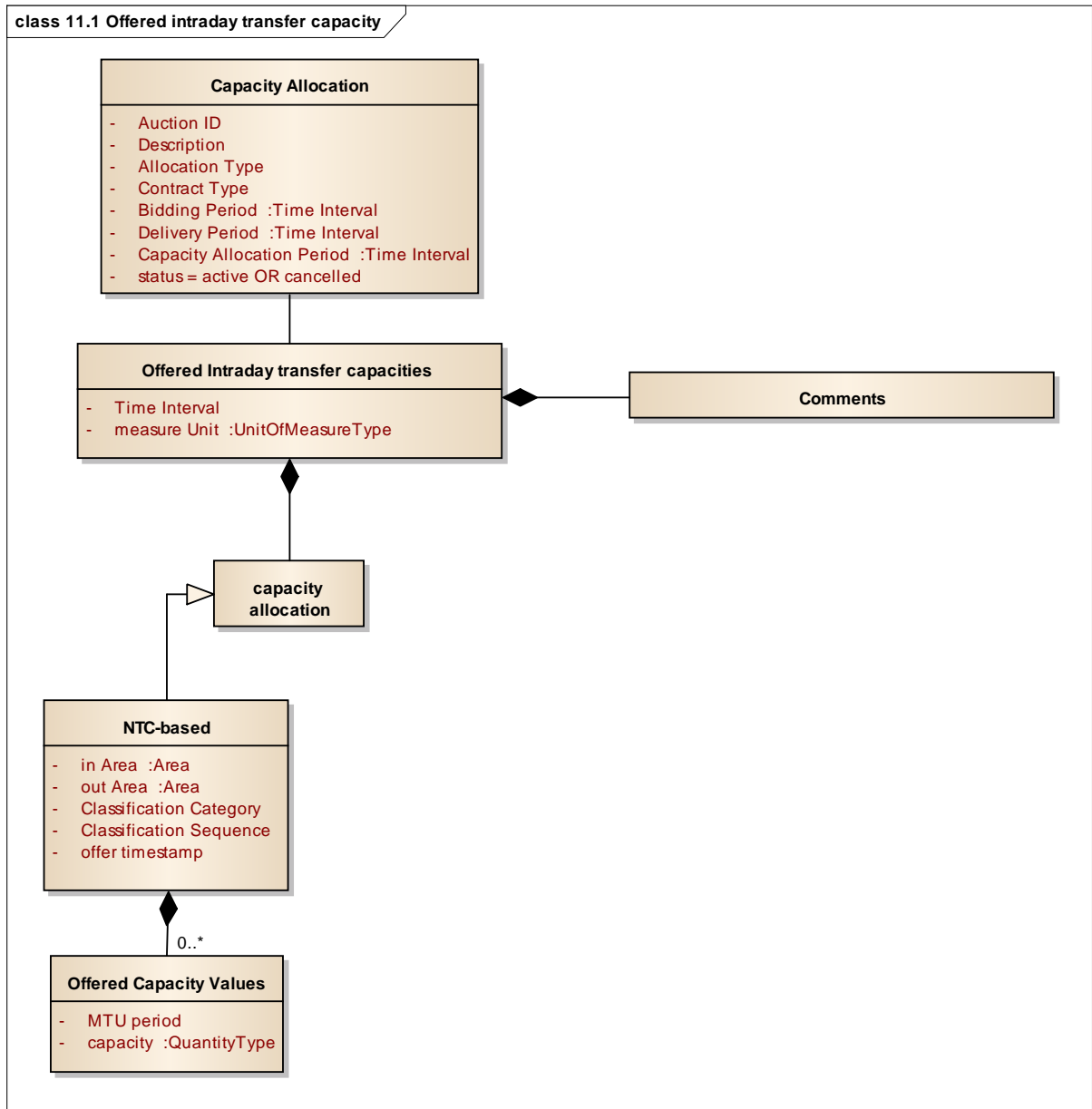
1639 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1640 each Market Time Unit within the selected day the capacity value (for every classification  
1641 category and classification sequence, when applicable)

1642

7.12 Offered INTRADAY TRANSFER CAPACITY [11.1]

7.12.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Intraday offered transfer capacities are associated with an intraday explicit or implicit capacity allocation as well as with continuous allocations.

1650 Offered intraday transfer capacities are described between an In Area and an Out Area, for a  
1651 time interval spanning up to a day. Values are provided for each MTU Period, with a capacity  
1652 value expressed in Measure Unit (MW).

1653 For explicit allocations, capacity values are submitted separately per Classification Category  
1654 and Classification Sequence. For implicit allocations, optionally a classification sequence may  
1655 be indicated.

1656 Optionally, offered intraday transfer capacity can be complemented with comments.

1657 For continuous allocations, if there are updates to the offered capacity a timestamp shall be  
1658 included. Each updated set of values shall be submitted with its timestamp to the transparency  
1659 platform.

1660 In some situations there may not be any capacity values to submit.

## 1661 7.12.2 PRE-CONFIGURATION

1662 - Intraday transfer capacities are expected for all couples of Areas covered by the intraday  
1663 capacity allocation's capacity products. Refer to chapter 7.28.1.2 for details on the  
1664 configuration of an auction's capacity products.

1665 - For each capacity allocation, the Data Provider is the one indicated in the capacity  
1666 allocation configuration. Refer to chapter 7.28.1.3 for details.

1667 - The submission deadline for offered intraday transfer capacity is one hour (H-1) before the  
1668 start of the capacity allocation period for the first allocation. For any subsequent intraday  
1669 allocations, the deadline is 15 minutes before the start of the capacity allocation period. For  
1670 continuous allocations, submissions will be performed close to real-time, for example 5  
1671 minutes before the start of the allocation period.

1672 *Example: If the oriented couple of Areas is France to Germany Bidding Zones, and if*  
1673 *intraday capacity allocation periods are as follows for day D:*

1674 - *1<sup>st</sup> Capacity Allocation Period: D-1, 18:00-19:00 UTC for the delivery period D, 00:00-*  
1675 *24:00 UTC*

1676 - *2<sup>nd</sup> Capacity Allocation Period: D, 03:00-04:00 UTC for the delivery period D, 05:00-24:00*  
1677 *UTC*

1678 - *3<sup>rd</sup> Capacity Allocation Period: D, 09:00-10:00 UTC for the delivery period D, 11:00-24:00*  
1679 *UTC*

1680 - *4<sup>th</sup> Capacity Allocation Period: D, 15:00-16:00 UTC for the delivery period D, 17:00-24:00*  
1681 *UTC*

1682 - *5<sup>th</sup> Capacity Allocation Period: D, 20:00-21:00 UTC for the delivery period D, 22:00-24:00*  
1683 *UTC*

1684        *Data shall be submitted for the delivery period D, 00:00-24:00 UTC, no later than D-1,*  
1685        *17:00 UTC. Data shall be submitted for the delivery period D, 05:00-24:00 UTC, by D,*  
1686        *02:45 UTC, etc.*

1687        The submission deadline is the same for all couples of Areas covered by the capacity  
1688        allocation's products.

### 1689    7.12.3        ASSUMPTIONS

1690        There is not more than one Data Provider per capacity allocation instance.

### 1691    7.12.4        INTEGRATION

1692        - Areas shall be recognised by the platform

1693        - The Data Provider shall be consistent with the capacity allocation configuration

1694        - The time interval in the document shall be up to one day

### 1695    7.12.5        MONITORING

1696        For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1697        are submitted for all area couples as deduced from the capacity allocation's products. The  
1698        submission deadline as described in section 7.12.2 shall be monitored. Monitoring shall verify  
1699        that values are submitted for all Capacity Products (i.e. for all Classification Categories and  
1700        Classification Sequences).

### 1701    7.12.6        PROCESSING

1702        No processing is performed on this data item.

### 1703    7.12.7        PUBLICATION

#### 1704    7.12.7.1      PUBLICATION BEHAVIOUR

1705        The most recent values of the offered capacity shall be published on the Transparency  
1706        Platform at least once every 15 minutes. If no update has occurred during a given quarter hour,  
1707        no values will be published for that quarter hour. The entire evolution of the offered capacity  
1708        shall be available for download no later than 24 hours after the end of the allocation period.

#### 1709    7.12.7.2      FILTERING AND SORTING CRITERIA

1710        Data shall be visually accessed by selecting the following:

1711        Allocation type: Explicit, implicit or continuous (single choice)

1712 Day (Selection is mandatory)

1713 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1714 partially or completely cover the Country)

1715 Couple of Areas and direction (mandatory).

### 1716 7.12.7.3 DISPLAY

1717 This data shall be displayed in the following section:

#### 1718 - offer of transfer capacities / Intraday

1719 The following attributes of data shall be displayed:

1720 - Title

1721 - Selected day

1722 - Measurement Unit

1723 - Comments

1724 - For each oriented couple of Areas the following data is repeated for each Market Time Unit  
1725 period within the selected day, the capacity value (for every classification category and  
1726 classification sequence, when applicable)

1727 - For continuous allocations: If there were updates to the offered capacity, the most recent  
1728 capacity values at the end of every quarter hour.

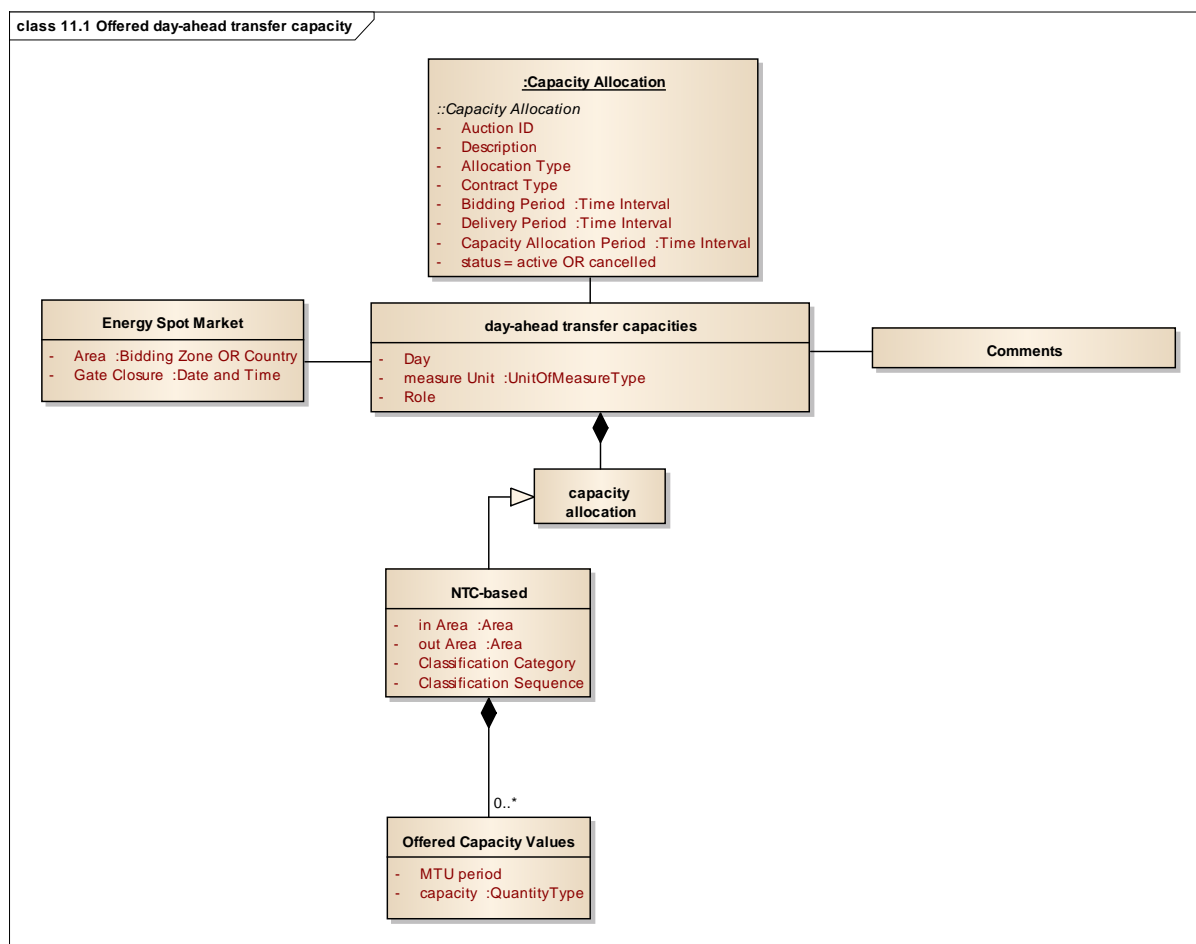
1729  
1730 For continuous allocations: When downloading the entire evolution of the offered capacity, all  
1731 updates to the capacity values are included, along with their timestamps.



## 7.13 OTHER OFFERED TRANSFER CAPACITIES [11.1]

### 7.13.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall cover the offered capacities related to one allocation only.

Other offered transfer capacities are associated with a semester, quarter, weekend and other explicit transmission allocations that are not covered by the data items described in chapters 7.8 through 7.

Other offered transfer capacities are described between an In Area (the Area flows come into) and an out Area (the Area flows come out from), during a time interval corresponding to the allocation's delivery period, with a single capacity value for the whole time interval expressed in Measure Unit.

Capacity values are submitted separately per Classification Category and Classification Sequence.

1746 Optionally, other offered transfer capacities can be complemented with comments.

1747 **Note:** Flow-based parameters are not in scope for other offered transfer capacities.

## 1748 7.13.2 PRE-CONFIGURATION

1749 - Other offered transfer capacities are expected for all couples of Areas covered by an explicit  
1750 allocation's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1751 auction's capacity products.

1752 - For each allocation, the Data Provider is the one indicated in the capacity allocation  
1753 configuration. Refer to chapter 7.28.1.3 for details.

1754 - The submission deadline for other offered transfer capacities is a configurable time before  
1755 the allocation process:

1756 *Example: The oriented couple of Areas is Netherlands Bidding Zone to Belgium Bidding*  
1757 *Zone, the weekend capacity allocation period starts on Friday 10:00 UTC and deadline is*  
1758 *D-1. The weekend for which offers are to be provided is 17<sup>th</sup> of March to 18<sup>th</sup> of March. The*  
1759 *document shall be submitted before Thursday March 15<sup>th</sup>, 2012, 10:00 UTC.*

1760 The submission deadline is the same for all couples of Areas covered by the allocation's  
1761 capacity products.

## 1762 7.13.3 ASSUMPTIONS

1763 A single value should be provided for the whole time interval, but a higher resolution is possible  
1764 (up to the Market Time Unit used by the couple of Areas).

1765 There is not more than one Data Provider per auction instance.

## 1766 7.13.4 INTEGRATION

1767 - Areas shall be recognised by the platform

1768 - The Data Provider shall be consistent with the capacity allocation configuration

1769 - The time interval of the submitted document corresponds to the capacity allocation's delivery  
1770 period

## 1771 7.13.5 MONITORING

1772 For a given instance of an allocation, platform shall monitor that offered transfer capacity  
1773 values are submitted for all area couples as deduced from the allocation's capacity products.  
1774 The submission deadline described in section 7.13.2 will be monitored.

1775 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1776 Classification Categories and Classification Sequences).

### 1777 7.13.6 PROCESSING

1778 No processing is performed on this data item.

### 1779 7.13.7 PUBLICATION

#### 1780 7.13.7.1 PUBLICATION BEHAVIOUR

1781 No specific publication behaviour applies.

#### 1782 7.13.7.2 FILTERING AND SORTING CRITERIA

1783 Data shall be visually accessed by selecting the following:

1784 Contract Type (Selection is mandatory)

1785 Time interval (Selection is mandatory)

1786 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1787 partially or completely cover the Country)

1788 Optionally, user may specify Area, couple of Areas and direction.

#### 1789 7.13.7.3 DISPLAY

1790 This data shall be displayed in the following section:

1791 **- offer of transfer capacities / other**

1792 The following attributes of data shall be displayed:

1793 - Title

1794 - Contract Type

1795 - Time interval

1796 - Measurement Unit

1797 - Comments

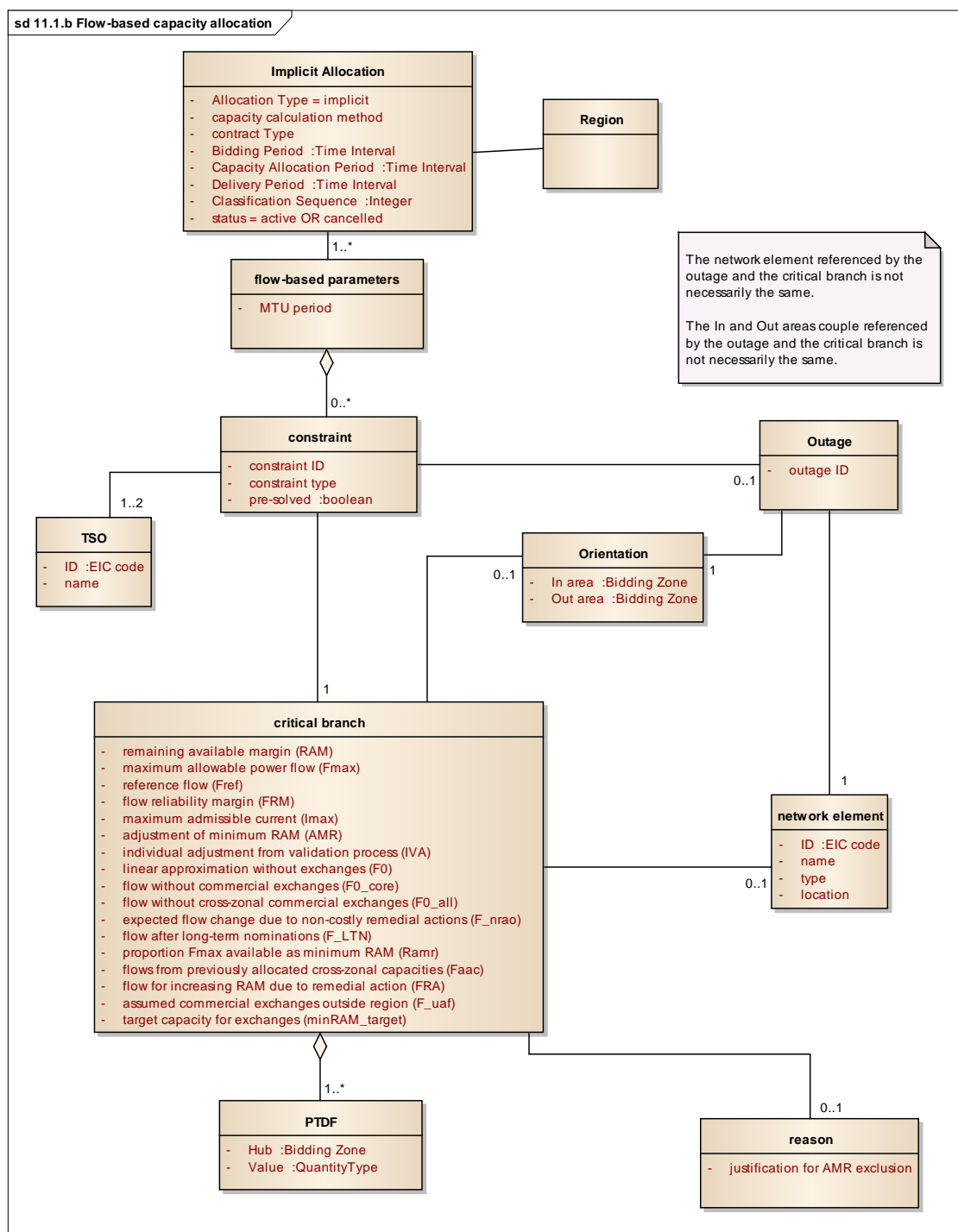
1798 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1799 capacity value (for every classification category and classification sequence)

- 1800 If capacity values vary during the time interval, it shall be possible to expand the view so that  
1801 they are displayed as a curve and in a table.

## 1802 7.14 Flow-based Capacity Allocation [11.1.B]

### 1803 7.14.1 DATA DESCRIPTION

1804 This item can be described by the following class diagram:



1805

- 1806 The document shall contain the flow-based parameters related to one allocation instance only.  
1807 The interval covered by the document shall coincide with the delivery period of the allocation  
1808 instance.
- 1809 The contract type of the allocation instance may be daily or intraday.
- 1810 For each MTU period, the flow-based parameters consist of zero, one or several constraints.  
1811 Each constraint has an ID and is either pre-solved or not. When applicable, it shall be indicated  
1812 that the constraint is external, anonymous or combined dynamic.
- 1813 For both critical branches and outages, the In and Out areas are published (referred to as  
1814 Orientation in diagram above), unless the constraint is anonymous. The In and Out areas are  
1815 the same in case of a network element internal to a bidding zone.
- 1816 External, anonymous and combined dynamic constraints are not explicitly published as such.  
1817 The objective of the indicator described above is to ensure data consistency and facilitate its  
1818 validation. These types of constraints will not contain any references to network elements for  
1819 the critical branch and will not contain any outage. Further, an anonymous constraint will not  
1820 contain any Orientation for the critical branch.
- 1821 The TSO(s) that introduced the constraint are indicated. This is normally only one TSO but  
1822 may be two for cross-border constraints.
- 1823 A constraint consists of exactly one critical branch and may optionally be associated with  
1824 exactly one outage. An outage has an ID and consists of exactly one network element. A critical  
1825 branch corresponds to exactly one network element.
- 1826 For a critical branch, the following attributes are always published:
- 1827 - remaining available margin (RAM)  
1828 - maximum allowable power flow (Fmax)  
1829 - reference flow (Fref)  
1830 - flow reliability margin (FRM)  
1831 - adjustment of minimum RAM (AMR)  
1832 - the power transfer distribution factors PTDF per bidding zone  
1833 - maximum admissible current (Imax) in Ampere  
1834 - individual value adjustment resulting from TSO validation process (IVA)  
1835
- 1836 The following attributes are applicable and mandatory only to the Core region:
- 1837 - flow without commercial exchanges F0\_wce (also referred to as F0\_core)  
1838 - flow without commercial exchanges between bidding zones or other synchronous  
1839 areas (F0\_all)  
1840 - expected flow change due to non-costly remedial actions (F\_nrao)  
1841 - flow after consideration of long-term nominations (F\_LTN)  
1842 - coordinated value adjustment (CVA)

- 1843 - the percentage of  $F_{max}$  that need to be available as minimum RAM ( $R_{amr}$ )  
1844 - flow resulting from assumed commercial exchanges outside the region ( $F_{uaf}$ )  
1845 - target capacity for exchanges by deducing the exchanges not related to the region  
1846 ( $minRAM\_target$ ) expressed as a percentage  
1847

1848 The following attributes are applicable and mandatory only to the Nordic region:

- 1849 - the linear approximation of a flow in the reference net position in a situation without any  
1850 cross-zonal exchanges ( $F_0$ )  
1851 - flows resulting from previously allocated cross-zonal capacities ( $F_{aac}$ )  
1852 - flow for increasing the RAM due to remedial action ( $F_{RA}$ )  
1853

1854 The reference flow ( $F_{ref}$ ) and the expected flow change due to non-costly remedial actions  
1855 ( $F_{nrao}$ ) may be positive or negative.

1856 The PTDF may be positive as well as negative.

1857 Unless explicitly indicated otherwise above, all values are expressed in MW.

1858 For each published network element the name, type, location and EIC are published. If  
1859 calculation failed for a given MTU period, no network elements whatsoever are published for  
1860 that MTU period.

## 1861 7.14.2 PRE-CONFIGURATION

1862 - The flow-based parameters are expected for the Region covered by the flow-based allocation.  
1863 Refer to chapter 7.28.1.1 for details on the configuration of the flow-based allocation.

1864 - For a given flow-based capacity allocation, the Data Provider is the one indicated in the  
1865 capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

1866 The network elements are recorded in the Transparency Platform's master data. Data  
1867 provider will submit the EIC code only, while all related information shall be retrieved from  
1868 master data. For external, combined dynamic and anonymous constraints no EIC codes are  
1869 expected and hence no master data can or will be retrieved.

1870 The submission deadline for the flow-based parameters shall be configurable by data  
1871 providers and will be related to the allocation period.

1872 *Example: For the daily flow-based allocation in the CWE region, the allocation starts at*  
1873 *12:00 CET D-1. The submission deadline could then be set to one hour in advance, i.e. to*  
1874 *11:00 CET D-1.*

### 1875 7.14.3 ASSUMPTIONS

1876 There is not more than one Data Provider for an instance of a flow-based capacity allocation.

### 1877 7.14.4 INTEGRATION

1878 - Region and bidding zones shall be recognised by the platform

1879 - Referenced network elements are recognised by the platform

1880 - The Data Provider shall be consistent with the allocation configuration

1881 - The time interval of the submitted document covers exactly the allocation instance's delivery  
1882 period

1883 Due to the size of the data, data provider may make separate submissions per MTU period.  
1884 Publications on Transparency Platform will always cover an entire day though for day-ahead  
1885 publications and the allocation time horizon for intra-day publications.

### 1886 7.14.5 MONITORING

1887 For a given instance of a flow-based capacity allocation, platform shall monitor that the flow-  
1888 based parameters are submitted. The submission deadline as described in section 7.14.2 will  
1889 be monitored.

### 1890 7.14.6 PROCESSING

1891 No processing is performed on this data item.

### 1892 7.14.7 PUBLICATION

#### 1893 7.14.7.1 PUBLICATION BEHAVIOUR

1894 No specific publication behaviour applies.

#### 1895 7.14.7.2 FILTERING AND SORTING CRITERIA

1896 Data shall be visually accessed by selecting the following:

1897 Day (Selection is mandatory)

1898 Region (selection is mandatory)

1899 Contract type: Daily or intraday (selection is mandatory)

1900 Constraint is pre-solved: Yes/No (selection is optional)



1901 Area or In/Out area couple (optional)

### 1902 7.14.7.3 DISPLAY

1903 If selection criteria have been provided for Area or In/Out area couple, those shall be used to  
1904 filter for the published values in Orientation. If Orientation of either critical branch or Outage  
1905 matches, the data shall be visible.

1906 This data shall be displayed in the following section:

#### 1907 - **flow-based capacity allocation**

1908 The following attributes of data shall be displayed:

1909 - Title

1910 - Region

1911 - Day selection

1912 - Contract type

1913 - Measurement Units

1914  
1915 - For each MTU period, the flow-based parameters are presented; the list of constraint IDs,  
1916 indicator whether constraint is pre-solved or not.

1917 - For each constraint: If applicable, an outage ID and the associated network element.

1918 - For each critical branch and outage: In and Out areas, when available

1919 - For each constraint: The network element associated with the critical branch (when provided),  
1920 the applicable attributes (depending on region) and the PTDF value for each bidding zone.

1921 - For every network element its EIC code, name, location, type

## 1922 7.15 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1923 RAMPING RESTRICTIONS

### 1924 7.15.1 DATA DESCRIPTION

1925 This data item consists of a report in the form of a PDF file, describing the ramping or other  
1926 restrictions applied on a Transmission Asset of type DC Link. The two areas connected by the  
1927 DC Link are also recorded inside the report.

### 1928 7.15.2 PRE-CONFIGURATION

1929 Data Providers shall be able to configure the following reference data on the platform:

- 1930 - A list of Control Areas where ramping restrictions may apply
- 1931 - For each Control Area, the unique Data Provider

### 1932 7.15.3 ASSUMPTIONS

1933 Data to be submitted as a report. No monitoring is performed on this data item, due to its  
1934 unpredictability.

### 1935 7.15.4 INTEGRATION

1936 Data Provider shall on the platform's web site, on the same page where these reports are  
1937 published, be able to upload a PDF file and associated it with one Control Area. Platform  
1938 shall validate that the Data Provider is authorized for the given Control Area.

### 1939 7.15.5 MONITORING

1940 No monitoring is performed on this data item.

### 1941 7.15.6 PROCESSING

1942 No processing is performed on this data item.

### 1943 7.15.7 PUBLICATION

#### 1944 7.15.7.1 PUBLICATION BEHAVIOUR

1945 Documents are published immediately after upload. All versions shall be published.

1946    **7.15.7.2    FILTERING AND SORTING CRITERIA**

1947        -    Country or Control Area (mandatory)

1948        -    Date range (optional)

1949    **7.15.7.3    DISPLAY**

1950    This data shall be displayed in the following section:

1951    **Transmission / Cross Border Capacity of DC Links**

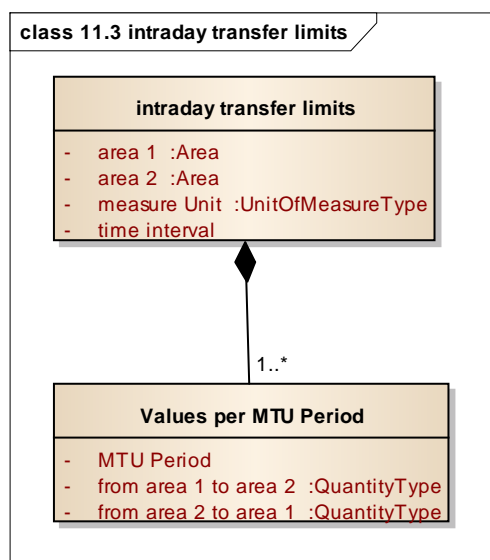
1952    Each report shall be available for download by clicking a link.

1953    For every report, the publication date shall be displayed.

1954

## 1955 7.16 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1956 INTRADAY TRANSFER LIMITS

### 1957 7.16.1 DATA DESCRIPTION



1958

1959 Document may contain data related to more than one area couple.

1960 For two connected Areas, this data item describes intraday transfer limits in each direction,  
1961 applied on Transmission Assets of type DC Link, during a time interval up to one day. Values  
1962 are provided per MTU period and expressed in measure unit (MW).

1963 Note that the transfer limits may be negative.

### 1964 7.16.2 PRE-CONFIGURATION

1965 Data Providers shall be able to configure the following reference data on the platform:

- 1966 - A list of Area couples where ramping restrictions may apply
- 1967 - For each Area couple, up to two Data Providers

### 1968 7.16.3 ASSUMPTIONS

1969 It is not necessary to provide references or details of the concerned transmission asset (of type  
1970 DC Link).

1971 No monitoring is performed on this data item, due to its unpredictability.

1972    **7.16.4        INTEGRATION**

1973    Platform shall validate that it recognises the Area couple.

1974    Platform shall validate that the Data Provider is authorized for the given Area couple.

1975    Time interval covered by document is up to one day.

1976    **7.16.5        MONITORING**

1977    No monitoring is performed on this data item.

1978    **7.16.6        PROCESSING**

1979    If two Data Providers submit data relating to the same Area couple, platform shall for each  
1980    direction and MTU period select the minimum value for publication.

1981    **7.16.7        PUBLICATION**

1982    **7.16.7.1      PUBLICATION BEHAVIOUR**

1983    Documents are published immediately after upload.

1984    Latest version only shall be published.

1985    **7.16.7.2      FILTERING AND SORTING CRITERIA**

1986        -    Area couple (mandatory)

1987        -    Date or date range (mandatory)

1988    **7.16.7.3      DISPLAY**

1989    This data shall be displayed in the following section:

1990    **Transmission / Cross Border Capacity of DC Links**

1991    The following attributes of the data shall be displayed:

1992        - Title

1993        - Unit of measurement (MW)

1994        - Area couple

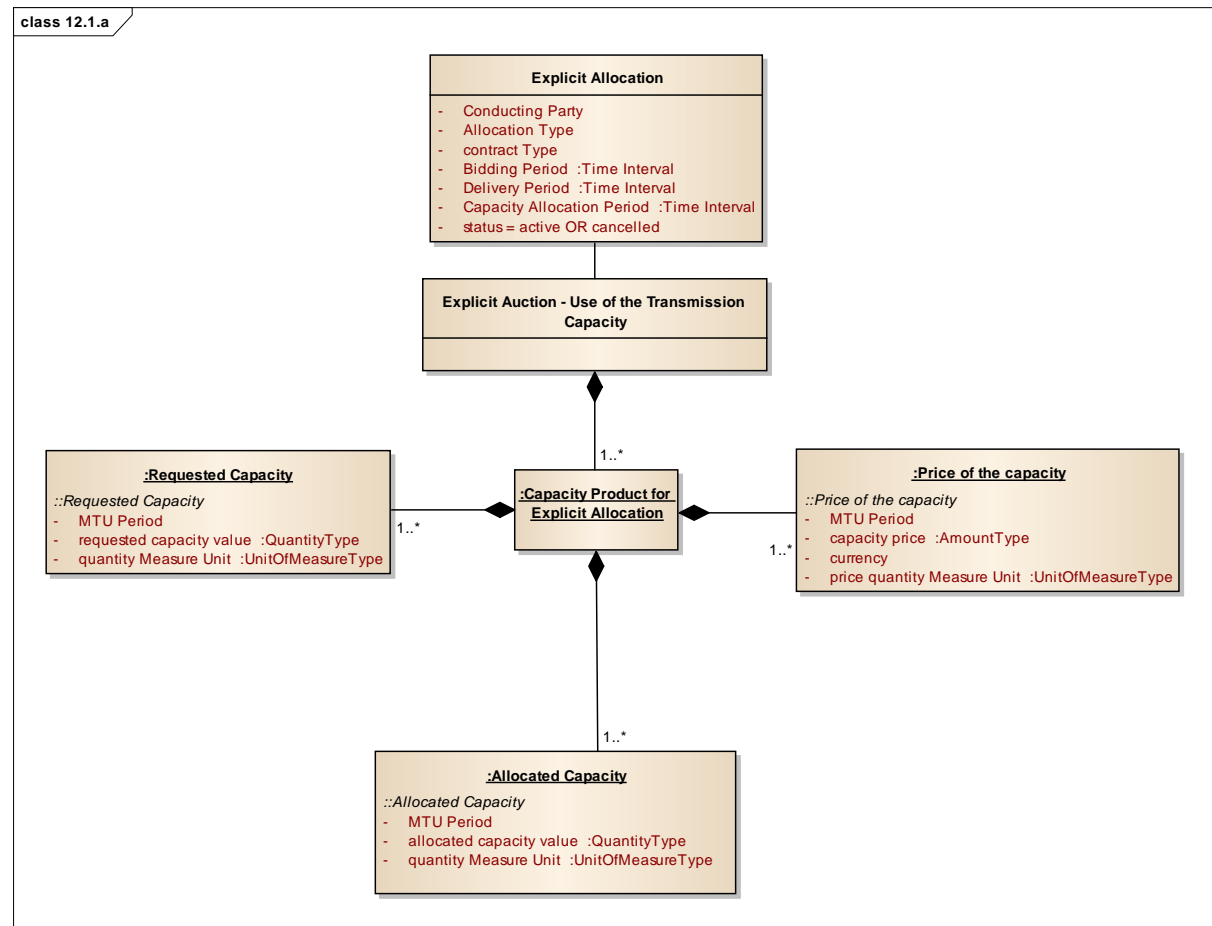
1995        - For each direction between the Areas and for each MTU period, the transfer limit

1996	<b>7.17 YEARLY REPORT ABOUT CRITICAL NETWORK</b>
1997	<b>ELEMENTS LIMITING OFFERED CAPACITIES [11.4]</b>
1998	<b>7.17.1 DATA DESCRIPTION</b>
1999	This data item consists of a file that shall be associated with one or several Control Areas. No
2000	monitoring will be performed.
2001	<b>7.17.2 PRE-CONFIGURATION</b>
2002	ENTSO-E administrator shall be able to manage the reference data that indicates the list of
2003	allowed Data Providers per Control Area for this data item.
2004	<b>7.17.3 INTEGRATION</b>
2005	Data Provider shall on the platform's web site, on the same page where these reports are
2006	published, be able to upload a file and associated it with one or several Control Areas.
2007	Platform shall validate combination of Control Area and Data Provider.
2008	<b>7.17.4 PUBLICATION</b>
2009	<b>7.17.4.1 PUBLICATION BEHAVIOUR</b>
2010	Documents are published immediately after upload.
2011	All versions shall be published.
2012	<b>7.17.4.2 FILTERING AND SORTING CRITERIA</b>
2013	End user shall be able to select data for display by specifying:
2014	- Country or Control Area (optional)
2015	- Publication year (optional)
2016	<b>7.17.4.3 DISPLAY</b>
2017	This data shall be displayed in the following section:
2018	Transmission / Critical network elements
2019	Each report shall be available for download by clicking a link.
2020	For every report, the publication date shall be displayed.
2021	

## 7.18 EXPLICIT ALLOCATIONS - USE OF THE TRANSFER CAPACITY [12.1.A]

### 7.18.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to one auction only. Results of an Explicit Auction<sup>14</sup> are given by capacity product for the Explicit Auction's Delivery Period, i.e. the time interval during which the transfer capacity will be used. The length of the time interval depends on the auction's Contract Type (one year, one month, one day, etc.). The results consist of:

<sup>14</sup> The Explicit Auction in question is the same as the Explicit Auction described in « Total Capacity Already Allocated [12.1.c] »

2032 - the Requested Capacity with a quantity in quantity Measure Unit (MW) for each Market Time  
2033 Unit period within the time interval

2034 - the Allocated Capacity with a quantity in quantity Measure Unit (MW) for each Market Time  
2035 Unit period within the time interval

2036 - the Price of the Capacity with a price in Currency per Price Quantity Measure Unit (MWh) for  
2037 each Market Time Unit period within the time interval

## 2038 7.18.2 PRE-CONFIGURATION

2039 - For each Explicit Auction instance's capacity products, the data item "Use of the Transmission  
2040 Capacity", shall be expected by the platform<sup>15</sup>. Refer to chapter 7.28.1.2 for details on the  
2041 configuration of an auction's capacity products.

2042 - For each Explicit Auction instance, the unique allowed Data Provider is the one indicated by  
2043 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2044 - For each explicit auction instance, the submission deadline:

- 2045 • For a given Explicit Auction instance, submission must be done at the latest one hour  
2046 (H+1) after the end of the Capacity Allocation Period.

2047 *Example: if the capacity product is Yearly Base 1 between France and German Bidding*  
2048 *Zones for the time interval of year 2013, and if the Capacity Allocation Period ends on*  
2049 *November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the use of transmission*  
2050 *capacity in this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

2051 Submission deadline is the same for all results associated with all of the Auction instance's  
2052 capacity products.

## 2053 7.18.3 ASSUMPTIONS

2054 No specific assumptions apply to this data item.

## 2055 7.18.4 INTEGRATION

2056 - The Data Provider shall be consistent with the configuration of the capacity allocation

2057 - Capacity Product shall be consistent with the configuration of the capacity allocation

2058 - Currency shall be consistent with the capacity product

---

<sup>15</sup> If Allocation Type is "continuous", prices will not be expected.



2059 - The time interval described in the document shall be complete (e.g. a whole day for the results  
2060 of a Daily Auction)

2061 - If there is no allocated capacity for a given time interval, prices do not have to be included.

## 2062 7.18.5 MONITORING

2063 The submission deadline described in section 7.18.2 shall be monitored for each of the  
2064 auction's capacity products.

2065 If Allocation Type is "continuous", no monitoring will be performed.

## 2066 7.18.6 PROCESSING

2067 No processing is performed by the platform at this step.

## 2068 7.18.7 PUBLICATION

### 2069 7.18.7.1 PUBLICATION BEHAVIOUR

2070 No particular behaviour applies to this data item.

### 2071 7.18.7.2 FILTERING AND SORTING CRITERIA

2072 Data shall be visually accessed by selecting the following:

2073 - Contract Type (Selection is Mandatory)

2074 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2075 partially or completely cover the Country)

2076 - Areas couple (Selection is Mandatory)

2077 - Direction (both by default) (Selection is Mandatory)

2078 - Classification Category (Selection is optional)

2079 - Classification Sequence (Selection is optional)

2080 - Conducting Party (Selection is optional)

2081 - Time interval (Start and End date) (Selection is mandatory)

### 2082 7.18.7.3 DISPLAY

2083 This data shall be displayed in the following section:

2084 - **Explicit Auctions** (together with the Total Capacity Already Allocated / [12.1.c])

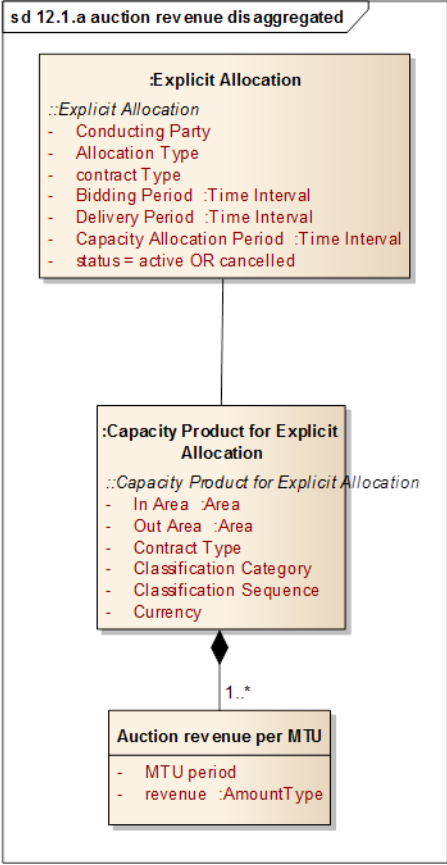
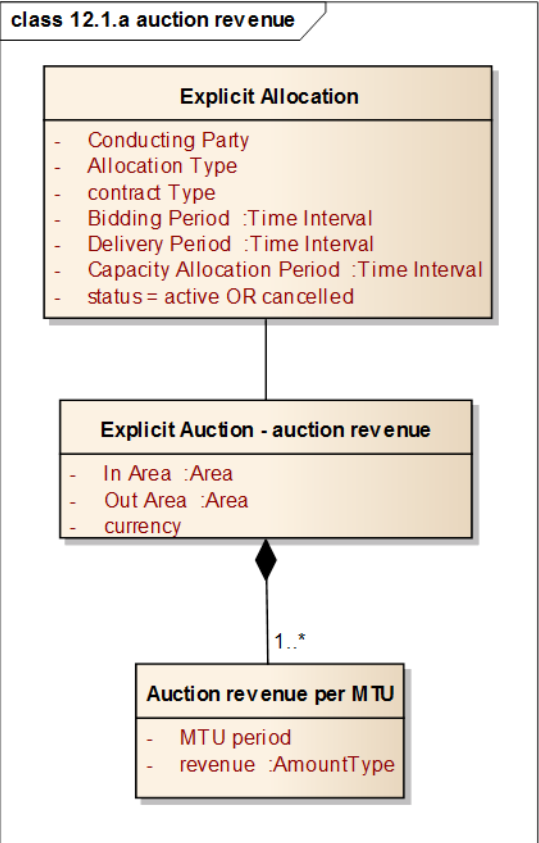
- 2085 The following attributes of data shall be displayed:
- 2086 - Title
- 2087 - Areas name
- 2088 - Contract Type
- 2089 - Conducting Party
- 2090 - Time interval
- 2091 - Measurement Unit for requested and allocated capacity
- 2092 - Currency for capacity price
- 2093 - Measurement Unit for capacity price
- 2094 - For each MTU Period within the time interval, the requested capacity value, the allocated
- 2095 capacity value and the capacity price value. This is repeated per direction, Classification
- 2096 Category and Classification Sequence.
- 2097

# 7.19 EXPLICIT ALLOCATIONS – AUCTION REVENUE

## [12.1.A]

### 7.19.1 DATA DESCRIPTION

This item can be described by the following two alternative class diagrams:



The document shall contain data related to one auction only. Two alternative submission modes are available: In aggregated format, revenue from an Explicit Auction<sup>16</sup> is given by Area couple. In disaggregated format, the revenue is submitted per capacity product, i.e. per In and Out Area, classification category and classification sequence. In both modes, values are provided for the whole Delivery Period, i.e. the time interval during which the transfer capacity will be used. The length of the time interval depends on the auction's Contract Type (one year, one month, one day, etc.). Revenue is expressed in a Currency. Resolution is MTU period.

<sup>16</sup> The Explicit Auction in question is the same as the Explicit Auction described in « Total Capacity Already Allocated [12.1.c] »

2110 It is possible to submit revenue in the disaggregated format together with the use of the transfer  
2111 capacity described in chapter 7.18. Aggregated revenue has to be submitted separately  
2112 though. For further details please refer to the implementation guide.

## 2113 7.19.2 PRE-CONFIGURATION

2114 - For each Area couple covered by an Explicit Auction instance's capacity products, the data  
2115 item "Explicit Auctions – Auction Revenue" shall be expected by the platform<sup>17</sup>. Refer to  
2116 chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2117 - For each Explicit Auction instance, the single allowed Data Provider is the one indicated by  
2118 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2119 - For each explicit auction instance, the submission deadline:

- 2120 • For a given Explicit Auction instance, submission must be done at the latest one hour  
2121 (H+1) after the end of the Capacity Allocation Period.

2122 *Example: if the Explicit Auction instance is Yearly Base 1 between France and German*  
2123 *Bidding Zones for the time interval of year 2013, and if the Capacity Allocation Period ends*  
2124 *on November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the auction revenue in*  
2125 *this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

2126 Submission deadline is the same for all Area couples covered by the Auction instance's  
2127 capacity products.

## 2128 7.19.3 ASSUMPTIONS

2129 Not more than one Data Provider per Explicit Auction instance.

2130 There are two alternative submission modes: Aggregated per oriented border and  
2131 disaggregated per capacity product, respectively. For a given allocation and border, only one  
2132 mode will be used.

2133 Delivery Periods are the same in both directions across a border. Only one currency is  
2134 applicable in both directions across a border.

## 2135 7.19.4 INTEGRATION

2136 - The Data Provider shall be consistent with the capacity allocation configuration

2137 - Area couple shall be consistent with capacity product, as per capacity allocation configuration

2138 - Currency shall be consistent with the capacity products covering the Area couple

---

<sup>17</sup> When Allocation Type is "continuous", data is not expected.

## 2139 7.19.5 MONITORING

2140 The submission deadline described in section 7.18.2 shall be monitored for all Area couples  
2141 covered by the auction's capacity products.

## 2142 7.19.6 PROCESSING

2143 Platform aggregates the total revenue for the whole delivery period by summing up the values  
2144 submitted per MTU period.

2145 Once total revenue values for a given delivery period have been submitted for both directions,  
2146 platform aggregates a grand total for the border.

## 2147 7.19.7 PUBLICATION

### 2148 7.19.7.1 PUBLICATION BEHAVIOUR

2149 A delay in submission of values in a given direction shall not withhold publication of already  
2150 submitted values in the opposite direction. Publication of aggregated sum per border is  
2151 performed independently of publication of values per direction. Aggregated sum per border  
2152 shall be published as soon as values in both directions have been submitted.

### 2153 7.19.7.2 FILTERING AND SORTING CRITERIA

2154 Data shall be visually accessed by selecting the following:

- 2155 - Contract Type (selection is mandatory)
- 2156 - Country (selection is optional: If selected, Area couples will be filtered to include only those  
2157 that partially or completely cover the Country)
- 2158 - Areas couple (selection is mandatory)
- 2159 - Date or date range (selection is mandatory)

### 2160 7.19.7.3 DISPLAY

2161 This data shall be displayed in the following section:

2162 - **Explicit Auctions** (together with the previously allocated Capacity / [12.1.c])

2163 The following attributes of data shall be displayed:

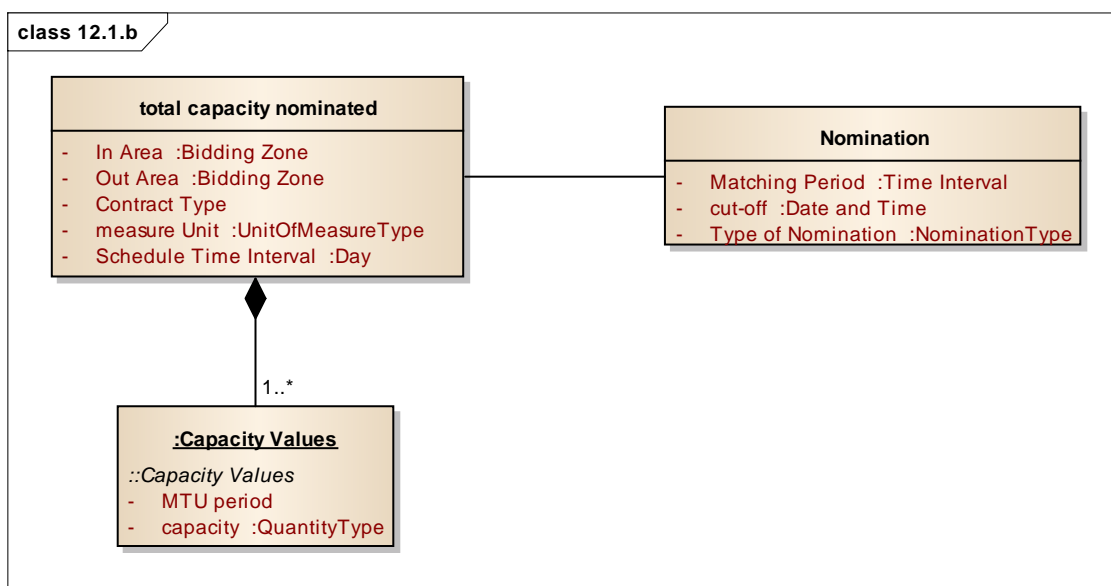
- 2164 - Title
- 2165 - Area couple

- 2166 - Contract Type
- 2167 - Currency
- 2168 - Delivery Period
- 2169 - For each delivery period during the selected date range, the following details of auction
- 2170 revenue are displayed:
- 2171 - In each direction and per MTU period
- 2172 - aggregated revenue in each direction for the whole Delivery Period
- 2173 - aggregated revenue for the border, for the whole Delivery Period

## 7.20 TOTAL CAPACITY NOMINATED [12.1.B]

### 7.20.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of bidding zones and directions.

Values are expected for one day and are given by Market Time Unit period. Values for the time horizons long-term, day-ahead and intraday are published separately. For some borders, intraday values may not be applicable. For other borders, long-term may not be applicable.

### 7.20.2 PRE-CONFIGURATION

- A list of In and Out Area couples where the data item “Total Capacity Nominated” is expected

- For each In and Out Area couple, the allowed Data Provider(s), with their priorities

- For each In and Out Area couple, indicators whether intraday and/or long-term nominations are expected or not

- For each In and Out Area couple, the applicable submission deadlines for day-ahead and if applicable intraday and long-term time horizons, respectively:

- Submission must be done H+1 after the respective cut-off time of the concerned nomination round on this given In and Out Area couple.

- 2192 *Example A: The couple of Bidding Zones is France - Germany, the long-term cut-off time*  
2193 *is at 20:00 UTC and the day-ahead cut-off time is at 22:00 UTC for the delivery day March*  
2194 *13<sup>th</sup>, 2012. A first document shall be submitted with long-term values before March 12<sup>th</sup>,*  
2195 *2012, 21:00 UTC and contain capacity values for the whole day of March 13<sup>th</sup>, 2012.*
- 2196 *A second document, containing values for the day-ahead time horizon that are updated*  
2197 *with the day-ahead nomination, shall be submitted no later than March 12th, 2012, 23:00*  
2198 *UTC.*
- 2199 *Example B: The couple of Bidding Zones is France – Spain and in addition to long-term*  
2200 *and daily nominations there are also intraday nominations:*
- 2201 *long-term nomination round with cut-off at D-1, 12:00 UTC for the delivery period D, 00:00*  
2202 *– 24:00 UTC*
- 2203 *daily nomination round with cut-off at D-1, 18:00 UTC for the delivery period D, 00:00 –*  
2204 *24:00 UTC*
- 2205 *1<sup>st</sup> intraday nomination round with cut-off at D-1, 20:00 UTC for the delivery period D,*  
2206 *06:00-24:00 UTC*
- 2207 *2<sup>nd</sup> intraday nomination round with cut-off at D, 04:00 UTC for the delivery period D, 12:00-*  
2208 *24:00 UTC*
- 2209 *3<sup>rd</sup> intraday nomination round with cut-off at D, 12:00 UTC for the delivery period D, 18:00-*  
2210 *24:00 UTC*
- 2211 *The following documents shall be submitted:*
- 2212 *A first document containing the values for the long-term time horizon for the whole delivery*  
2213 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 13:00 UTC*
- 2214 *A second document containing the values for the day-ahead time horizon for the whole*  
2215 *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 19:00 UTC.*
- 2216 *A third document containing the values for the intraday time horizon for the whole delivery*  
2217 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 21:00 UTC.*
- 2218 *A higher version of the third document containing the values for the intraday time horizon*  
2219 *(including 2nd intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2220 *shall be submitted no later than D, 05:00 UTC.*
- 2221 *A higher version of the third document containing the values for the intraday time horizon*  
2222 *(including 3rd intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2223 *shall be submitted no later than D, 13:00 UTC.*
- 2224 *The matching process, including cut-off times, is described in chapter 7.1.3.*



### 2225 7.20.3 ASSUMPTIONS

2226 If intraday nominations are applicable on a given border, platform will monitor submission  
2227 deadline for the first intraday nomination only.

2228 Platform does not perform any aggregation.

### 2229 7.20.4 INTEGRATION

2230 - Area couple shall be recognised by the platform

2231 - The Data Provider shall be consistent with the identified Area couple

2232 - The Schedule Time Interval in the submitted document is one day

### 2233 7.20.5 MONITORING

2234 This data item is expected one or several times per day for all declared In and Out Area  
2235 couples. For each couple of In and Out Areas, the submission deadlines for long-term, day-  
2236 ahead and intraday values described in section 7.20.2 shall be monitored. If no data has  
2237 been submitted, all declared Data Providers will be notified.

### 2238 7.20.6 PROCESSING

2239 If data has been submitted for a given Bidding Zone couple, direction, time horizon and  
2240 schedule Time Interval (day) by more than one Data Provider, platform shall publish data  
2241 coming from Data Provider with highest priority.

2242

### 2243 7.20.7 PUBLICATION

#### 2244 7.20.7.1 PUBLICATION BEHAVIOUR

2245 Long-term, day-ahead and intraday values shall be published separately.

#### 2246 7.20.7.2 FILTERING AND SORTING CRITERIA

2247 Data shall be visually accessed by selecting the following:

2248 - Day (Selection is mandatory)

2249 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only  
2250 those that partially or completely cover the Country)

2251 - Bidding Zones couple or Bidding Zone

### 2252 7.20.7.3 DISPLAY

2253 This data shall be displayed in the following section:

#### 2254 - **Transmission / Total nominated capacity**

2255 The following attributes of data shall be displayed:

2256 - Title

2257 - Schedule Time Interval (i.e. selected Day)

2258 - Measurement Unit

2259 - MTU

2260 - Bidding Zone couple

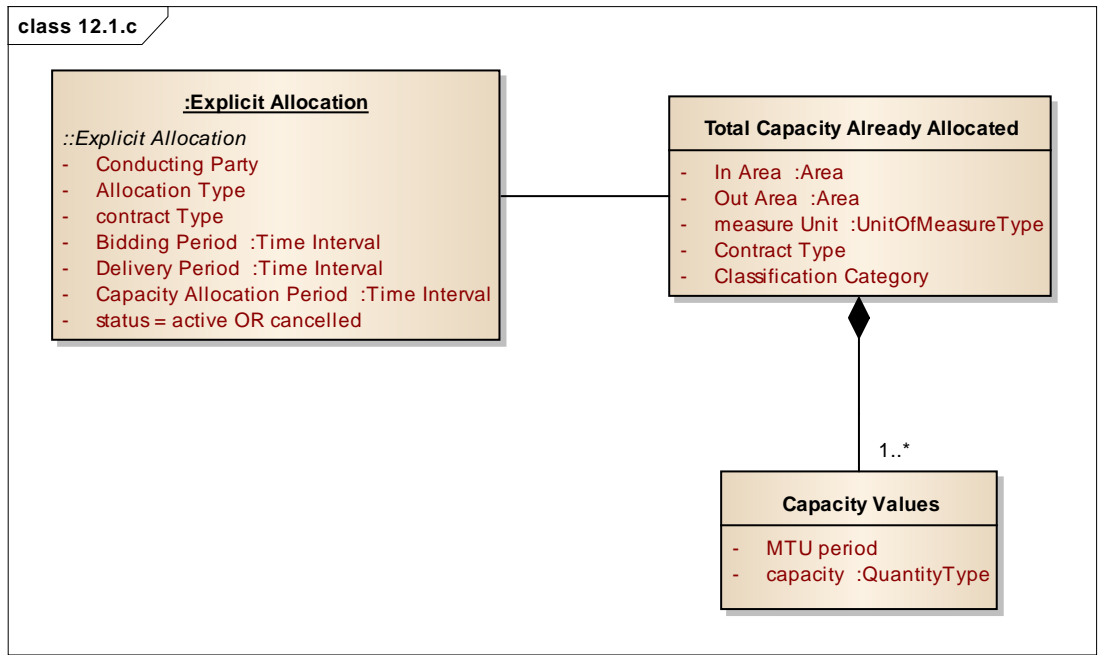
2261 - In each direction, the long-term, day-ahead and intraday values for each MTU

2262 Data is published in table and chart formats.

7.21 TOTAL CAPACITY ALREADY ALLOCATED [12.1.c]

7.21.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to exactly one auction instance. The total capacity already allocated is described by In and Out Areas and per Contract Type and Classification Category, with one capacity value in measure Unit for each Market Time Unit period within a time interval corresponding to the auction’s Delivery Period.

This data item is relevant for explicit allocations only.

*Example: Before a daily base auction, a single document shall be submitted to the platform, containing the total capacity already allocated, taking into account earlier allocations (i.e. yearly, monthly and weekly auctions) and explicit resales or use it or sell it (UIOSI). Capacity values shall be provided for each MTU period of the delivery period of the daily auction. Contract Type of document is Daily and Classification Category is Base.*

7.21.2 PRE-CONFIGURATION

- For each Explicit Allocation instance, the data item “Total Capacity Already Allocated” may be expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of a capacity allocation.

2281 - For each Explicit Allocation instance, the unique allowed Data Provider is the one indicated  
2282 in the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2283 - For a given allocation, the submission deadline depends on the Contract Type (monthly,  
2284 weekly, etc.) and is the same as for the offered transfer capacity [11.1], refer to sections 7.11.2  
2285 through 7.12.2.

### 2286 7.21.3 ASSUMPTIONS

2287 Data providers have performed all calculations, taking into account earlier allocations and  
2288 explicit resales or use it or sell it (UIOSI). Platform will not perform any calculation.

### 2289 7.21.4 INTEGRATION

2290 - The Data Provider shall be consistent with the configuration of the capacity allocation, refer  
2291 to chapter 7.28.1.3 for details

2292 - The time interval described in the document shall be complete (e.g. a whole day for a Daily  
2293 auction)

### 2294 7.21.5 MONITORING

2295 For a given instance of an Explicit Allocation, platform shall monitor that the data item "Total  
2296 Capacity Already Allocated" is submitted

2297 Submission deadlines depend on the auction as explained in chapter 7.21.2.

### 2298 7.21.6 PROCESSING

2299 No processing performed on this data item.

### 2300 7.21.7 PUBLICATION

#### 2301 7.21.7.1 PUBLICATION BEHAVIOUR

2302 Standard publication behaviour applies.

#### 2303 7.21.7.2 FILTERING AND SORTING CRITERIA

2304 Data shall be visually accessed by selecting the following:

2305 - Contract Type (Selection is Mandatory)

2306 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2307 partially or completely cover the Country)

2308 - Areas couple (Selection is Mandatory)

2309 - Direction (both by default) (Selection is Mandatory)

2310 - Time window (Start and End date) (Selection is mandatory)

### 2311 7.21.7.3 DISPLAY

2312 This data shall be displayed in the following section:

#### 2313 - **Explicit Auctions / Total Capacity Already Allocated**

2314 The following attributes of data shall be displayed:

2315 - Title

2316 - Areas name

2317 - Contract Type

2318 - Classification Category

2319 - Time window

2320 - Measurement Unit

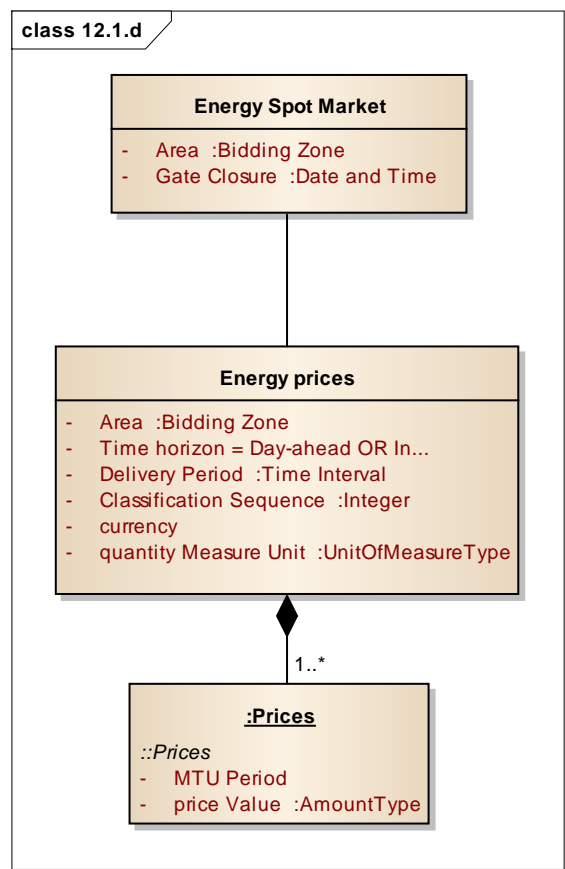
2321 - For each MTU Period within the time window, the total capacity already allocated. This is  
2322 repeated per direction.

2323

## 7.22 ENERGY PRICES [12.1.D]

### 7.22.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given bidding zone, time horizon and delivery period, prices are given for every MTU period and expressed in currency per MWh.

There may be several intraday delivery periods that partially or completely. In case there are two identical delivery periods, the Classification Sequence (also referred to as round) becomes mandatory. Delivery period may cover up to 29 consecutive hours, i.e. partially covering two days.

**Note:** In some bidding zones, there may be several prices for the same time horizon having different resolutions (i.e. different length of MTU period), typically 15 and 60 minutes for the day-ahead time horizon.

## 2338 7.22.2 PRE-CONFIGURATION

2339 Energy prices are expected for any bidding zone covered by an implicit transmission capacity  
2340 allocation for the day-ahead time horizon. Optionally, prices may be published for bidding  
2341 zones covered by implicit transmission capacity allocations for the intraday time horizon.

2342 - For each bidding zone and time horizon, the unique allowed Data Provider

2343 - For each bidding zone, time horizon (and per delivery period, possibly also Classification  
2344 Sequence for intraday time horizon), the submission deadline. One hour (H+1) after the gate  
2345 closure of energy spot market for the day-ahead time horizon, as controlled by pre-  
2346 configuration, refer to chapter 7.1.4 for details.

## 2347 7.22.3 ASSUMPTIONS

2348 There shall be only one Data Provider for a given bidding zone and time horizon.

## 2349 7.22.4 INTEGRATION

2350 - Bidding zone shall be recognised by the platform

2351 - The Data Provider shall be consistent with the bidding zone

2352 - Currency shall be consistent with pre-configuration [C9]

2353 - Bidding zone and time horizon (and delivery period and Classification Sequence, when  
2354 applicable) shall be consistent with pre-configuration

## 2355 7.22.5 MONITORING

2356 For every bidding zone where energy prices data are expected, the submission deadline(s)  
2357 shall be monitored.

## 2358 7.22.6 PROCESSING

2359 No processing is performed by the platform on this data item.

## 2360 7.22.7 PUBLICATION

### 2361 7.22.7.1 PUBLICATION BEHAVIOUR

2362 No particular behaviour applies to this data item.

### 2363 7.22.7.2 FILTERING AND SORTING CRITERIA

2364 Data shall be visually accessed by selecting the following:

2365 - Bidding zone (Selection is Mandatory)

2366 - Day (Selection is mandatory)

2367 - Classification Sequence (selection is optional)

2368 - Resolution (selection is mandatory when there is more than one resolution)

### 2369 7.22.7.3 DISPLAY

2370 This data shall be displayed in the following section:

#### 2371 - **Energy prices**

2372 The following attributes of data shall be displayed:

2373 - Title

2374 - Bidding Zone

2375 - Selected day

2376 - Currency

2377 - Quantity Measurement Unit (MWh)

2378 - Resolution

2379 - Time horizon(s): Day-ahead and/or intraday

2380 - Delivery period(s)

2381 - Classification Sequence(s), when applicable

2382 - For each MTU period during the selected day, the energy price per time horizon and  
2383 delivery period and Classification Sequence (when applicable).

2384  
2385 Data shall be visualised in a table and in a graph.

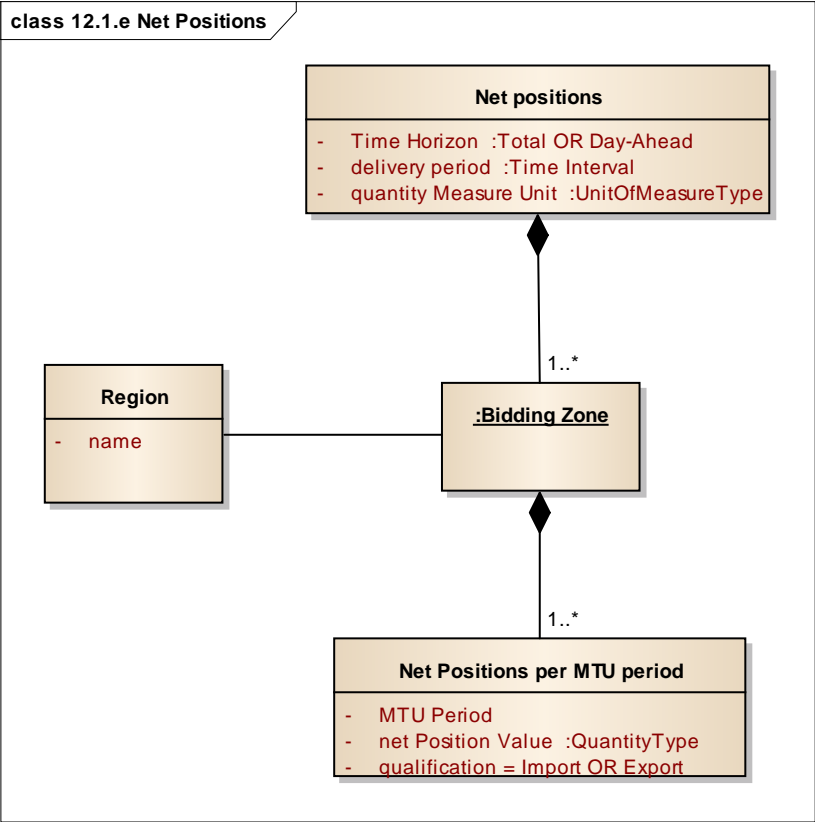
2386



## 7.23 IMPLICIT ALLOCATIONS – NET POSITIONS [12.1.E]

### 7.23.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Implicit net positions are given by Bidding Zone for an entire day. There are separate publications for day-ahead time horizon and total net positions. The Net Positions consist of a value for each Market Time Unit period during the day, in Quantity Measure Unit (MW). Note that net position is always a positive value or zero. The Net Position is described as “import” or “export”.

### 7.23.2 PRE-CONFIGURATION

- For each bidding zone there will be configuration whether net positions are expected and separately for day-ahead and total time horizons.

- For each bidding zone and time horizon, the single allowed Data Provider.

2401 - For each bidding zone and time horizon, the daily submission deadline, which typically will  
2402 be situated one hour after the last day-ahead allocation for the publication of day-ahead  
2403 values. For the publication of total values, the deadline is one hour after the first intraday  
2404 allocation. The total values shall be updated, if need be, no later than one hour after each  
2405 subsequent intraday allocation.

2406

### 2407 7.23.3 ASSUMPTIONS

2408 Updates to the total values are submitted not more frequently than once every 15 minutes.

### 2409 7.23.4 INTEGRATION

2410 - The Data Provider shall be consistent with bidding zone and time horizon as per pre-  
2411 configuration described in 7.23.2

2412 - Data is delivered for the entire day

### 2413 7.23.5 MONITORING

2414 For a given bidding zone and time horizon, the submission deadline shall be monitored.

2415 Updates are submitted only if the net position has been modified. As a consequence,  
2416 monitoring of submission deadlines for updates are not feasible and will not be performed.

### 2417 7.23.6 PROCESSING

2418 No processing is performed by the platform.

### 2419 7.23.7 PUBLICATION

#### 2420 7.23.7.1 PUBLICATION BEHAVIOUR

2421 No specific behaviour applies to this data item.

#### 2422 7.23.7.2 FILTERING AND SORTING CRITERIA

2423 Data shall be visually accessed by selecting the following:

2424 - Country (selection is optional: If selected, bidding zones will be filtered to include only those  
2425 that partially or completely cover the Country)

2426 - One Bidding Zone (Selection is Mandatory)

2427 - Day (Selection is mandatory)

2428 - Time horizon: Day-Ahead or Total

### 2429 7.23.7.3 DISPLAY

2430 This data shall be displayed in the following section:

#### 2431 - **Implicit Allocations – Net positions**

2432 The following attributes of data shall be displayed:

2433 - Title

2434 - Day

2435 - Measurement Unit (MW)

2436 - Bidding zone

2437 - For each MTU Period within the selected day, the net position and whether it is “import” or  
2438 “export” and with separate values per time horizon.

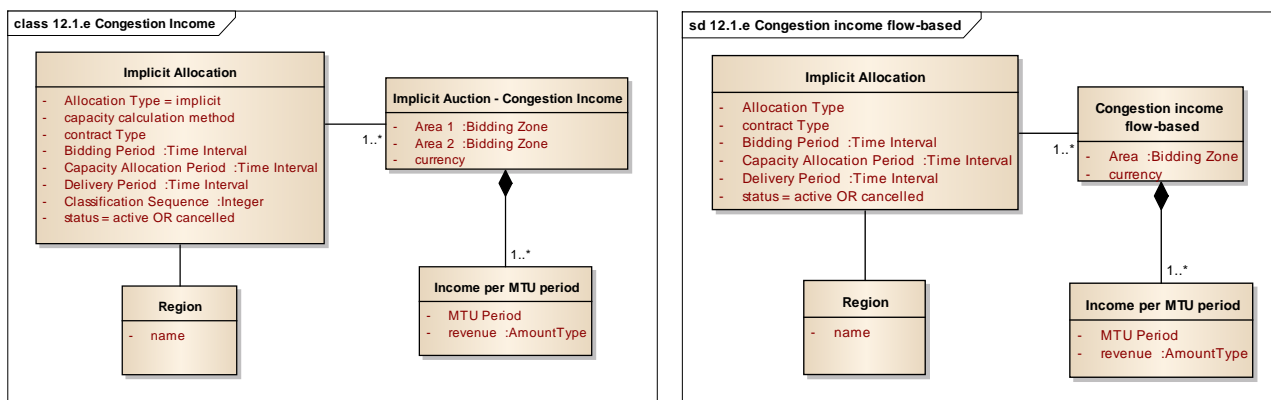
2439

## 7.24 IMPLICIT ALLOCATIONS – CONGESTION INCOME

### [12.1.E]

#### 7.24.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Congestion income for an Implicit Allocation<sup>18</sup> is given per Area couple for a given time interval corresponding to the implicit allocation's delivery period (for which transfer capacity was auctioned and will be used), possibly also per Classification Sequence. For flow-based allocations, the congestion income is given per bidding zone.

When Contract Type is Day-Ahead, length of Delivery Period is exactly one day. When Contract Type is Intraday, length of Delivery Period is up to one day.

The congestion revenue is described by a value for each Market Time Unit period during the Delivery Period, in currency.

#### 7.24.2 PRE-CONFIGURATION

- For each Area covered by all the implicit allocation's capacity products, Congestion Income shall be expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of an allocation's capacity products.

- For each Area couple covered by the implicit allocation, the single allowed Data Provider is the one indicated by the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

<sup>18</sup> The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Net Positions » (chapter 7.23)

- 2459 - For flow-based allocations, a single allowed Data Provider for all bidding zones in the  
2460 region is indicated.
- 2461 - For each Implicit Allocation, the submission deadline:
- 2462 • For a given Implicit Allocation instance, submission must be done at the latest one hour  
2463 (H+1) after the end of the Capacity Allocation Period.
- 2464 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*  
2465 *Zones for the time interval of March 13<sup>th</sup>, 2012, and if the Capacity Allocation Period ends*  
2466 *on March 12<sup>th</sup>, 2012, at 12:00 UTC, the documents describing the Congestion Income for*  
2467 *this time interval must be submitted before March 12<sup>th</sup>, 2012, 13:00 UTC.*
- 2468 Submission deadline is the same for all Area couples covered by the Implicit Allocation.  
2469 For flow-based allocations, the submission deadline is the same for all bidding zones in  
2470 the region.

### 2471 7.24.3 ASSUMPTIONS

- 2472 Only one Data Provider per Area couple or per region (for flow-based).
- 2473 There is not more than one Implicit Allocation per Region.
- 2474 Data is submitted for NTC-based allocations per area couple, delivery period and possibly also  
2475 Classification Sequence. For flow-based allocations data is submitted per bidding zone.  
2476 Platform does not have to perform any calculation.

### 2477 7.24.4 INTEGRATION

- 2478 - Currency shall be consistent with the capacity products covering the Area couple or with the  
2479 bidding zone (for flow-based)
- 2480 - The Data Provider shall be consistent with the implicit allocation as per pre-configuration  
2481 described in 7.24.2
- 2482 - The Delivery Period described in the document shall be complete

### 2483 7.24.5 MONITORING

- 2484 For a given instance of an Implicit Allocation, the submission deadline common to all Area  
2485 couples or bidding zones (for flow-based) covered by the capacity products shall be  
2486 monitored.

### 2487 7.24.6 PROCESSING

- 2488 No processing is performed by the platform at this step.

## 2489 7.24.7 PUBLICATION

### 2490 7.24.7.1 PUBLICATION BEHAVIOUR

2491 No specific behaviour applies to this data item.

### 2492 7.24.7.2 FILTERING AND SORTING CRITERIA

2493 Data shall be visually accessed by selecting the following:

2494 - Region (for flow-based)

2495 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only those  
2496 that partially or completely cover the Country)

2497 - One or several Bidding Zones (Selection is Mandatory)

2498 - Contract Type

2499 - One or several Classification Sequence(s) (selection is optional)

2500 - Day (Selection is mandatory)

### 2501 7.24.7.3 DISPLAY

2502 This data shall be displayed in the following section:

#### 2503 - **Implicit Auctions**

2504 The following attributes of data shall be displayed:

2505 - Title

2506 - Capacity calculation method (ATC- or flow-based)

2507 - Region (for flow-based)

2508 - Day

2509 - Contract Type

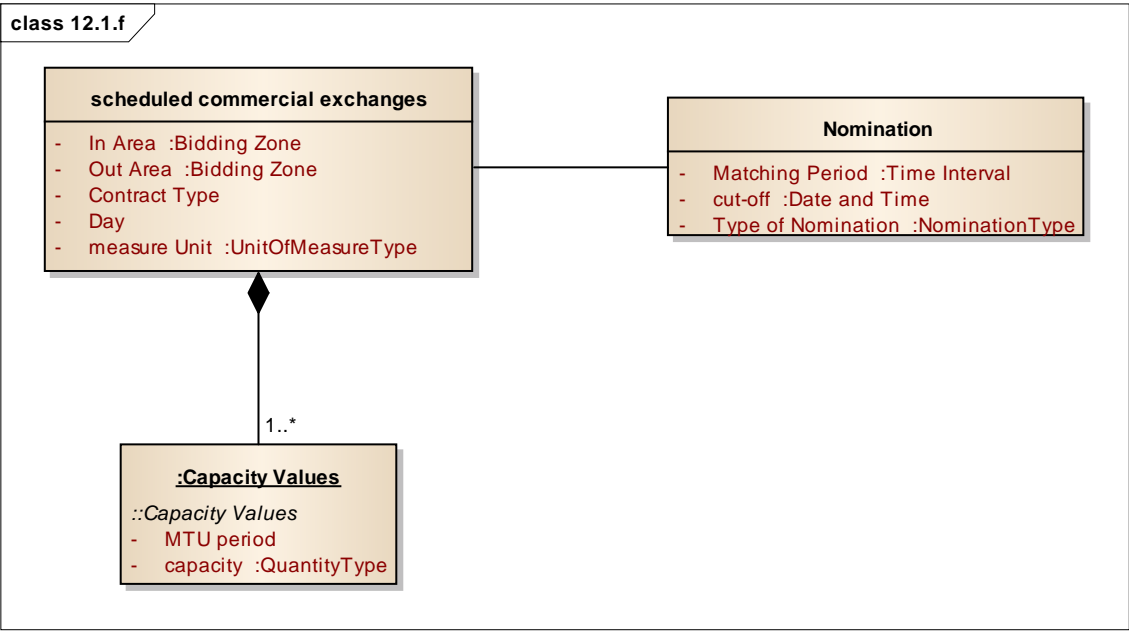
2510 - sequence number (if applicable)

2511 - The following is repeated for each border or Bidding Zones (for flow-based): Name of Bidding  
2512 Zone(s) and currency and for each MTU Period within the selected day, delivery period and  
2513 Classification Sequence (if applicable), the revenue amount.

7.25 SCHEDULED COMMERCIAL EXCHANGES [12.1.F]

7.25.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of bidding zones and directions. Values for the day-ahead and total time horizons are published separately. Values are expected for one day and are given by Market Time Unit period. Values are published for both directions across the borders as well as the net position per bidding zone.

The net positions will be calculated by the transparency platform based on the submitted cross-zonal values. When downloading the net positions, the In and Out areas will be populated with a combination of bidding zone and Region to indicate import or export. The precise convention will be detailed in the implementation guide. .

For net positions, there shall not be more than one non-zero, positive value for a given area and MTU period.

7.25.2 PRE-CONFIGURATION

The data item “Scheduled commercial exchanges” is expected for all In and Out Area couples covered by a matching process. Refer to chapter 7.1.3 for details on the matching processes.

- For each In and Out Area couple, the allowed Data Provider(s) with their priorities

2532 - For each In and Out Area couple there is a daily submission deadline for the day-ahead  
2533 values at one hour (H+1) after the day-ahead cut-off time.

2534 *Example: if the couple of Bidding Zones is France - Germany, and if the day-ahead cut-off*  
2535 *time is 20:00 UTC, for the delivery day March 13<sup>th</sup>, 2012, the day-ahead values shall be*  
2536 *submitted before March 12<sup>th</sup>, 2012, 21:00 UTC.*

2537 Further, if there are several intraday nominations or allocations on the In and Out Area  
2538 couple and such intraday nomination or allocation results in an update to the scheduled  
2539 commercial exchange, updated total values shall be submitted no later than two hours  
2540 (H+2) after each intraday nomination or allocation.

### 2541 7.25.3 ASSUMPTIONS

2542 Updates are submitted only if schedule has been modified. As a consequence, monitoring of  
2543 submission deadlines for updates are not feasible and will not be performed.

2544 Platform does not perform any aggregations for day-ahead or total values. Platform shall  
2545 calculate net positions though based on the submitted cross-zonal values.

2546 Platform will monitor the separate submission deadlines for day-ahead and total values. If  
2547 there is more than one intraday nomination on the given border, platform will monitor the first  
2548 submission of total values only.

2549 Updates to the total values are submitted not more frequently than once every 15 minutes.

### 2550 7.25.4 INTEGRATION

2551 - Bidding Zones shall be recognised by the platform

2552 - The Data Provider shall be consistent with the identified Bidding Zones

2553 - The time interval in the submitted document is of one day

### 2554 7.25.5 MONITORING

2555 For each couple of In and Out Areas, the submission of day-ahead and first submission of  
2556 total values described in section 7.25.2 shall be monitored. If no data has been submitted, all  
2557 declared Data Providers will be notified.

### 2558 7.25.6 PROCESSING

2559 If for a given Bidding Zone couple and MTU period more than one Data Provider has submitted  
2560 data, platform will publish the value from the Data Provider with highest priority.



2561 Platform shall calculate the net positions for day-ahead and total time horizons, respectively,  
2562 based on the submitted cross-zonal values. If one or more cross-zonal values are missing, the  
2563 corresponding net position shall not be published.

## 2564 7.25.7 PUBLICATION

### 2565 7.25.7.1 PUBLICATION BEHAVIOUR

2566 Day-ahead and total values will be published separately on the same data view.

### 2567 7.25.7.2 FILTERING AND SORTING CRITERIA

2568 Data shall be visually accessed by selecting the following:

2569 - Day (Selection is mandatory)

2570 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only  
2571 those that partially or completely cover the Country)

2572 - Bidding Zones couple or Bidding Zone

### 2573 7.25.7.3 DISPLAY

2574 This data shall be displayed in the following section:

#### 2575 - **Transmission / Scheduled commercial exchanges**

2576 The following attributes of data shall be displayed:

2577 - Title

2578 - selected Day

2579 - Measurement Unit

2580 - MTU

2581 - for each couple of Bidding Zones, for each MTU period within the selected day, the day-  
2582 ahead and total values per direction across each Bidding Zone border

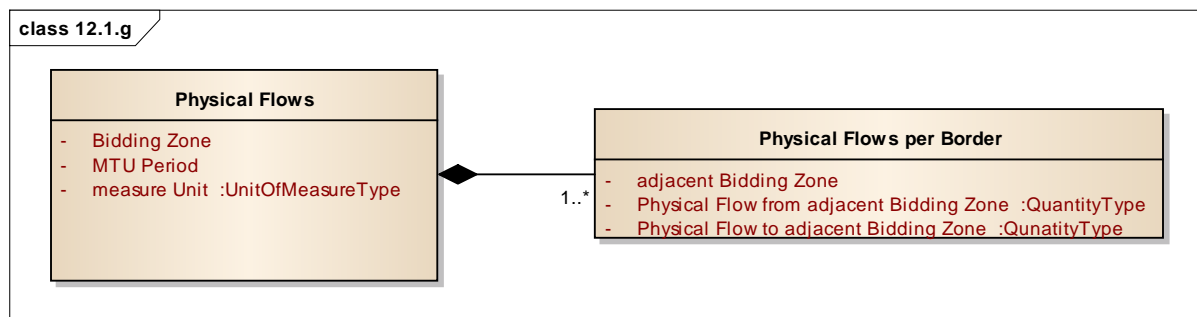
2583 - for each bidding zone, for each MTU period within the selected day, the day-ahead and total  
2584 net positions

2585

## 7.26 PHYSICAL FLOWS [12.1.G]

### 7.26.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Physical Flows are described between two Bidding Zones, or in some cases two countries, with one flow value per Market Time Unit period in each direction, in Measure Unit (MW).

### 7.26.2 PRE-CONFIGURATION

- A list of couples of Bidding Zones or countries where Physical Flows are expected
- For each couple of Bidding Zones or countries where Physical Flows are expected, as of what date and time it shall be expected by the platform. Optionally an end date and time may be configured as well.
- For each couple of Bidding Zones or countries, the allowed Data Providers, and their priorities for each direction across the border between the Bidding Zones
- For each couple of Bidding Zones or countries and Data Provider, an indicator whether netted or non-netted values are expected. By default, netted values are expected.
- For each couple of Bidding Zones or countries where Physical Flows are expected, the submission deadline (to be configured if needed to override the default submission deadline):
  - For a given couple of Bidding Zones or countries, submission must be done at the latest one hour (H+1) after the end of the MTU Period.

*Example: if the couple of Bidding Zones is France - Germany, for a MTU Period of March 13<sup>th</sup>, 2012, between 10:00 and 10:30 UTC, the document describing the physical flows during this MTU Period must be submitted before March 13<sup>th</sup>, 2012, 11:30 UTC.*

### 7.26.3 ASSUMPTIONS

Data Provider must have the same priority for both directions.

## 2610 7.26.4 INTEGRATION

- 2611 - Bidding Zones or countries shall be recognised by the platform
- 2612 - The Data Provider shall be consistent with the identified couple of Bidding Zones or countries
- 2613 - Data will be rejected if data provider configured as sending netted values sends non-netted  
2614 values
- 2615 - Data will be rejected if data provider configured as sending non-netted values actually sends  
2616 netted values (i.e. submits values in one direction only).

## 2617 7.26.5 MONITORING

- 2618 For a given couple of Bidding Zones or countries where Physical Flows are expected, the  
2619 submission deadline described above shall be monitored for every MTU Period. If no data  
2620 has been received, all declared Data Providers will be notified.

## 2621 7.26.6 PROCESSING

- 2622 If Data Provider is configured as submitting non-netted values for a given couple of Bidding  
2623 Zones (or countries) and MTU period, platform shall calculate net value.
- 2624 If Data Provider is configured as submitting netted values, the absence of a value in a given  
2625 direction and MTU period shall be treated as a zero value.
- 2626 Values from all senders (when applicable) are to be stored in the database, with the indication  
2627 of the associated priority.

## 2628 7.26.7 PUBLICATION

### 2629 7.26.7.1 PUBLICATION BEHAVIOUR

- 2630 The following precedence rule applies, when more than one party is responsible for the  
2631 submission of data:
- 2632 - For a given direction between a couple of Bidding Zones (or countries) and a given MTU  
2633 Period, the platform shall publish the net value available from the party with the highest priority
- 2634 - If, for a given MTU Period, data is missing from the provider with the highest priority, then the  
2635 net value from the Data Provider with the inferior priority shall be displayed if available (and so  
2636 on if more than two providers).

### 2637 7.26.7.2 FILTERING AND SORTING CRITERIA

- 2638 Data shall be visually accessed by selecting the following:

2639 - Day (Selection is mandatory)

2640 - Country or Bidding Zone, alternatively couple of countries or Bidding Zones

2641

### 2642 7.26.7.3 DISPLAY

2643 This data shall be displayed in the following section:

#### 2644 - **Cross-Border Physical Flows**

2645 The following attributes of data shall be displayed:

2646 - Title

2647 - Selected day

2648 - Measurement Unit

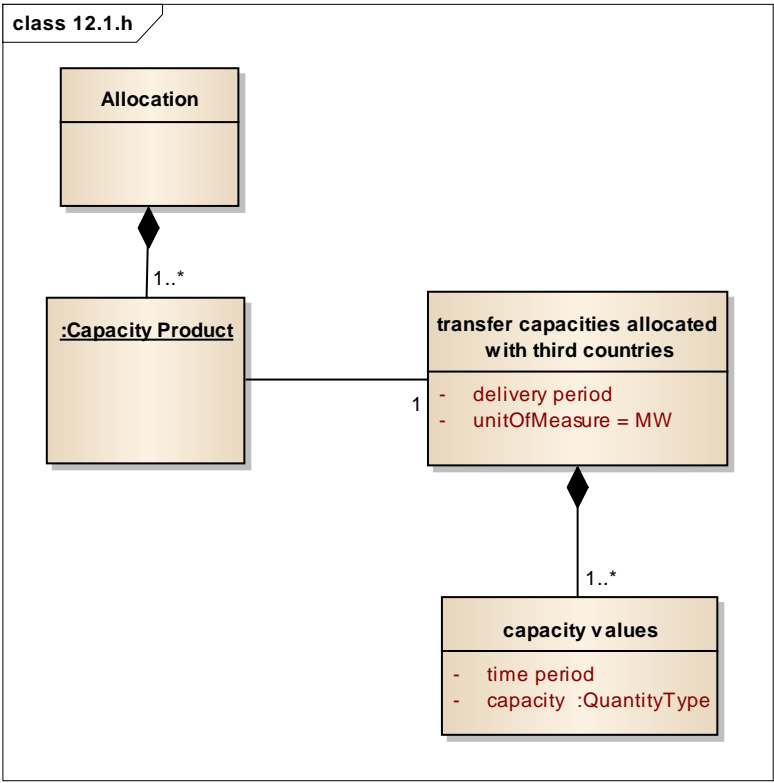
2649 - For each Bidding Zone or country couple, for each Market Time Unit within the selected day,  
2650 the netted physical flow values in each direction

2651

## 7.27 TRANSFER CAPACITIES ALLOCATED WITH THIRD COUNTRIES [12.1.H]

### 7.27.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to not more than one auction. The allocation may be explicit as well as implicit. For each capacity product, the allocated transfer capacity is described for the whole Delivery Period. The length of the delivery period depends on the auction's Contract Type (yearly, daily, etc.).

The allocated capacity may be described as a constant value or may vary during the delivery period, with a resolution up to MTU.

Measure Unit is fixed to MW.

For this data item, the capacity product's In Area or Out Area may be a third country.

### 7.27.2 PRE-CONFIGURATION

- A list of third countries

2667 - If for a given auction instance the In Area or Out Area of a capacity product is a third country,  
2668 the data "Transfer Capacities allocated with third countries" shall be expected by the platform.  
2669 Refer to chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2670 - For each capacity product, the unique allowed Data Provider is the one indicated by the  
2671 Transmission Auction configuration. Refer to chapter 7.28.1.3 for details.

2672 - For each auction instance, the submission deadline: One hour after end of the capacity  
2673 allocation period.

2674 Submission deadline is the same for all the Auction's products.

### 2675 7.27.3 ASSUMPTIONS

2676 No specific assumptions apply to this data item.

### 2677 7.27.4 INTEGRATION

2678 - The Data Provider shall be consistent with the capacity product

### 2679 7.27.5 MONITORING

2680 The submission deadline shall be monitored for each explicit auction's capacity products that  
2681 cover a third country.

### 2682 7.27.6 PROCESSING

2683 No processing is performed by the platform on this data item.

### 2684 7.27.7 PUBLICATION

#### 2685 7.27.7.1 PUBLICATION BEHAVIOUR

2686 No particular behaviour applies to this data item.

#### 2687 7.27.7.2 FILTERING AND SORTING CRITERIA

2688 Data shall be visually accessed by selecting the following:

2689 - Allocation type: Explicit or implicit

2690 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the  
2691 Country will be used as filtering criteria)

2692 - Areas couple (Selection is Mandatory)

2693 - Direction (Selection is Optional)

2694 - Date or date range (Selection is mandatory)

2695 - capacity product (i.e. contract type), selection is optional

### 2696 7.27.7.3 DISPLAY

2697 This data shall be displayed in the following section:

#### 2698 - **Transmission / Transfer capacities allocated with third countries**

2699 The following attributes of data shall be displayed:

2700 - Title

2701 - Allocation type

2702 - Areas name

2703 - Date or date range

2704 - Contract Type

2705 - Measurement Unit

2706 - Attributes of the applicable capacity product(s): contract type, classification category,  
2707 classification sequence and allocated capacity value.

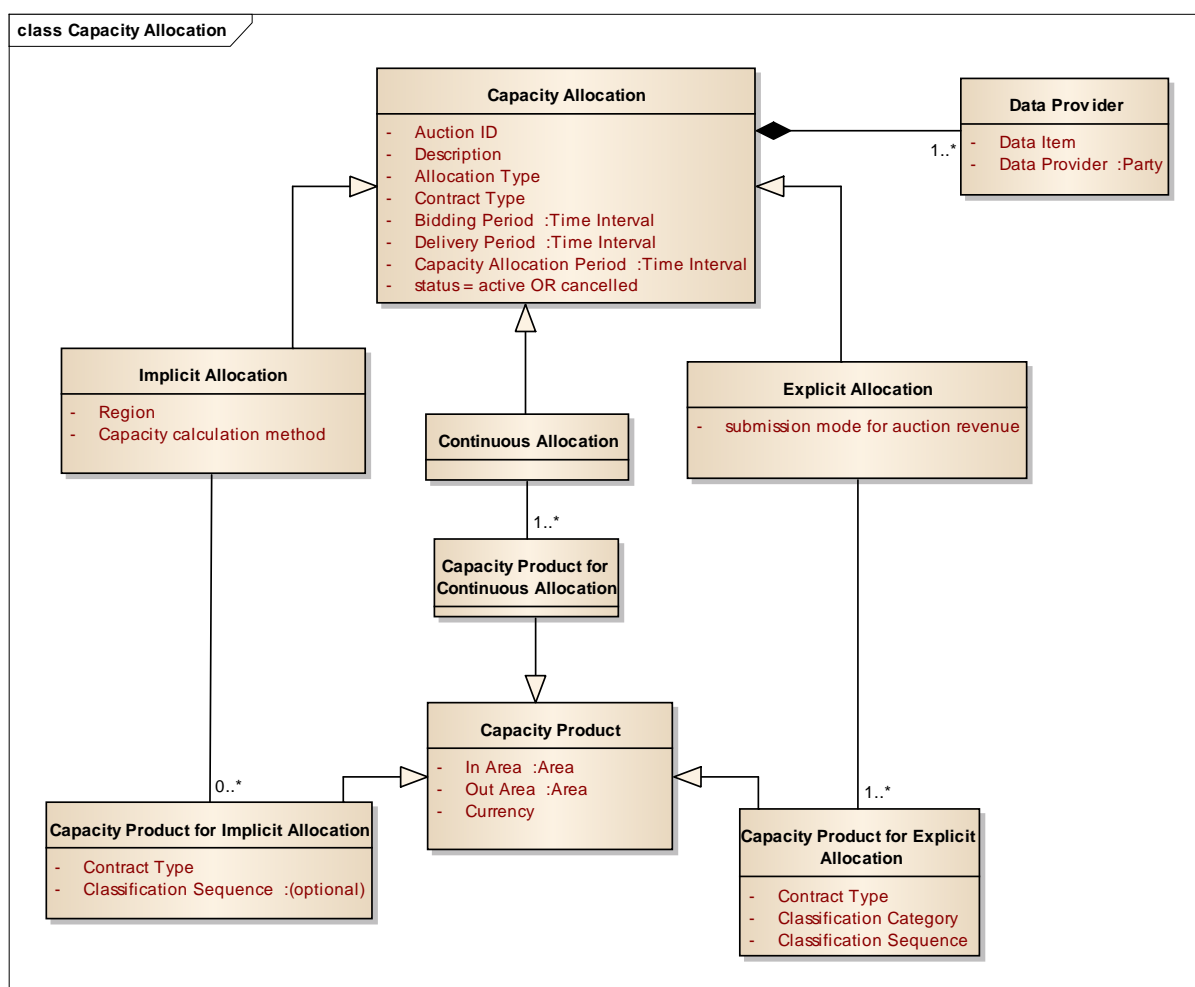
2708 If capacity values vary during the delivery period, it shall be possible to expand the view so  
2709 that they are displayed as a curve and in a table.

## 7.28 CONFIGURATION OF TRANSMISSION CAPACITY ALLOCATION

### 7.28.1 DATA DESCRIPTION

#### 7.28.1.1 CAPACITY ALLOCATIONS

A Transmission Capacity Allocation can be described by the following class diagram:



For each Capacity Allocation, the following attributes are mandatory: Type (implicit, explicit or continuous) and a unique Auction ID. An optional free-text description may be associated with an allocation.

For implicit allocations, the capacity calculation method is either ATC-based or flow-based. For explicit auctions, the allocation type may in particular cases be further qualified as “shadow



- 2721 auction". Capacity calculation method is always ATC-based for explicit and continuous  
2722 allocations.
- 2723 For implicit allocations, optionally a Region may be indicated. Region is mandatory when  
2724 capacity calculation method is flow-based.
- 2725 For explicit allocations, optionally a Conducting Party may be declared. For explicit allocations,  
2726 the submission mode for auction revenue shall be indicated: Aggregated or disaggregated,  
2727 refer to chapter 7.19 for details.
- 2728 The Auction ID may never be modified once an Allocation has been created.
- 2729 Instances of capacity allocations have specific bidding, allocation and delivery periods.
- 2730 Allocations typically take place on a recurring basis, for example in December every year to  
2731 sell capacity products for use during the following year (i.e. yearly products). The Contract  
2732 Type determines the frequency, i.e. once a year, once a month, every day, etc.  
2733 Exceptionally, there may also be non-recurring allocations, held at a single occasion only.  
2734 For every allocation, it shall be possible to record the date(s) and time(s) when it is being  
2735 held. It shall be possible to select the date(s) using a calendar.
- 2736 For recurring allocations, it shall be possible to record exceptions to the configuration that  
2737 apply on a specific instance of the allocation (i.e. on a specific date). Examples of exceptions  
2738 are extending the capacity allocation period, excluding or adding one or several capacity  
2739 products from/to the capacity allocation or cancelling the whole capacity allocation instance.
- 2740 It shall be possible to cancel a capacity allocation instance. When a capacity allocation is  
2741 cancelled, as a consequence platform will not expect any data submissions related to the  
2742 capacity allocation or its products.

## 2743 7.28.1.2 CAPACITY PRODUCTS

- 2744 Each capacity allocation is associated with one or several capacity products. Each capacity  
2745 product is described by the following mandatory attributes: In Area, Out Area, Currency and  
2746 Contract Type. For implicit allocations, Contract Type must be Day-Ahead or Intraday. For  
2747 continuous allocations only Intraday applies. For products associated with explicit allocations,  
2748 additionally the attributes Classification Category and Classification Sequence are  
2749 mandatory. For implicit allocations, optionally Classification Sequence may be defined.
- 2750 All capacity products associated with a given capacity allocation must have the same  
2751 contract type as the capacity allocation, i.e. yearly products for a yearly auction only, etc.
- 2752 By default the capacity product will be applicable during the capacity allocation's Delivery  
2753 Period. As a consequence, platform will expect data for the Capacity Product and  
2754 corresponding Bidding Zones. When a capacity product exceptionally has been excluded

2755 from a capacity allocation instance<sup>19</sup>, platform shall not expect any data submissions related  
2756 to that product.

2757 For implicit allocations having flow-based capacity calculation method, capacity products do  
2758 not apply.

### 2759 7.28.1.3 DATA PROVIDERS

2760 For a transmission capacity allocation, as specified by the combination of Auction ID,  
2761 Contract Type and capacity products, the relevant Data Providers must be configured as  
2762 well. For each applicable data item, the unique Data Provider is to be selected.

2763 For implicit allocations with ATC-based capacity calculation method as well as explicit  
2764 capacity allocations:

2765 - Offered Transfer Capacity [11.1]

2766 - Transfer Capacities Allocated with Third Countries [12.1.h]

2767 For implicit allocations with flow-based capacity calculation method:

2768 - Flow-based capacity allocation [11.1]

2769 For implicit capacity allocations:

2770 - Congestion Income [12.1.e]

2771 For explicit capacity allocations:

2772 - Use of the Transfer Capacity [12.1.a]

2773 - Auction revenue [12.1.a]

2774 - Total Capacity already Allocated [12.1.c]

2775 For continuous allocations:

2776 - Offered Transfer Capacity [11.1]

2777

### 2778 7.28.2 MONITORING

2779 No monitoring will be performed on the submission of capacity allocation configuration.

---

<sup>19</sup> Example: For the yearly auction held in December 2014 between two given bidding zones there will be no capacity product with classification category peak.

### 2780 7.28.3 CREATION OF CAPACITY ALLOCATION

2781 Capacity allocations may be created through machine-to-machine data submission and via  
2782 human-to-machine submission. For human-to-machine submission, there shall be a webpage,  
2783 where creation or modification of capacity allocations will require authentication<sup>20</sup>.

2784 Data Providers shall be permitted to create capacity allocations. Platform administrator in  
2785 ENTSO-E shall be able to create and modify capacity allocations on behalf of Data Providers.

2786 When capacity allocation is created, the uniqueness of the ID shall be verified by checking that  
2787 no other capacity allocation on platform with same ID already exists. Note that the assignment  
2788 of ID assumes a manual procedure that is outside the scope of the central platform.

2789 When creating or modifying capacity allocations, the values of the following attributes shall be  
2790 validated against list of permitted values held in platform's master data: Type, sub-type, In  
2791 Area, Out Area, combination of In and Out Areas, Contract Type, Classification Category and  
2792 Currency.

2793 When creating a capacity allocation via the webpage, it shall be possible to use an already  
2794 defined capacity allocation as template when defining a new one.

### 2795 7.28.4 UPDATES TO CAPACITY ALLOCATIONS

2796 The Data Provider that created the capacity allocation may update the data at any time. ID will  
2797 be used to match updated data to Auction.

2798 Platform shall validate that capacity allocation with quoted ID already exists. If not, update will  
2799 be rejected.

2800 Platform will validate that Data Provider performing update is consistent with the Data Provider  
2801 recorded for the capacity allocation. Platform administrator in ENTSO-E shall be able to update  
2802 capacity allocation on behalf of Data Provider.

2803 Deletions are not foreseen under normal circumstances, but could be performed in exceptional  
2804 situations by platform administrator in ENTSO-E.

### 2805 7.28.5 QUERIES OF REFERENCE DATA FOR CAPACITY ALLOCATIONS

2806 Data on capacity allocation shall be made available for visual inspection and download via web  
2807 page.

---

<sup>20</sup> For implicit and continuous allocations there will normally not be any auction configuration submitted as a document. Rather, a manual configuration that applies to all days would be set up on the platform.

## 2808 7.28.5.1 FILTERING AND SORTING CRITERIA

2809 It shall be possible to search for a capacity allocation by using ID as search criterion.

2810 Also, it shall be possible to retrieve several capacity allocations at the same time, by specifying  
2811 the following filtering and sorting criteria:

2812 - Country: Selection is optional. If selected, In and/or Out Areas that at least partially cover the  
2813 Country will be used as filtering criteria

2814 - Area: Selection is mandatory, one or several may be chosen

2815 - Date: Selection is mandatory, one day or range may be chosen. By default the current date  
2816 shall be used. This date or date range will be used to filter auctions by delivery period.

2817 - Allocation type: Explicit, implicit or continuous, selection is optional

2818 - Contract type: Selection is optional

## 2819 7.28.5.2 DISPLAY

2820 This data shall be displayed in the following section:

### 2821 - **Transmission / Auctions**

2822 The following attributes of data shall be displayed:

2823 - Description

2824 - ID

2825 - Allocation Type: Explicit, implicit or continuous

2826 - Allocation sub-type (when applicable)

2827 - Conducting Party (when applicable)

2828 - Region (when applicable)

2829 - Effective Date

2830 - Bidding, Capacity Allocation and Delivery Period

2831 - Data Provider that created capacity allocation: Shall only be displayed towards authenticated  
2832 users.

2833 - Capacity Products and their attributes

2834 - Clear indication when capacity allocation has been cancelled or capacity product excluded

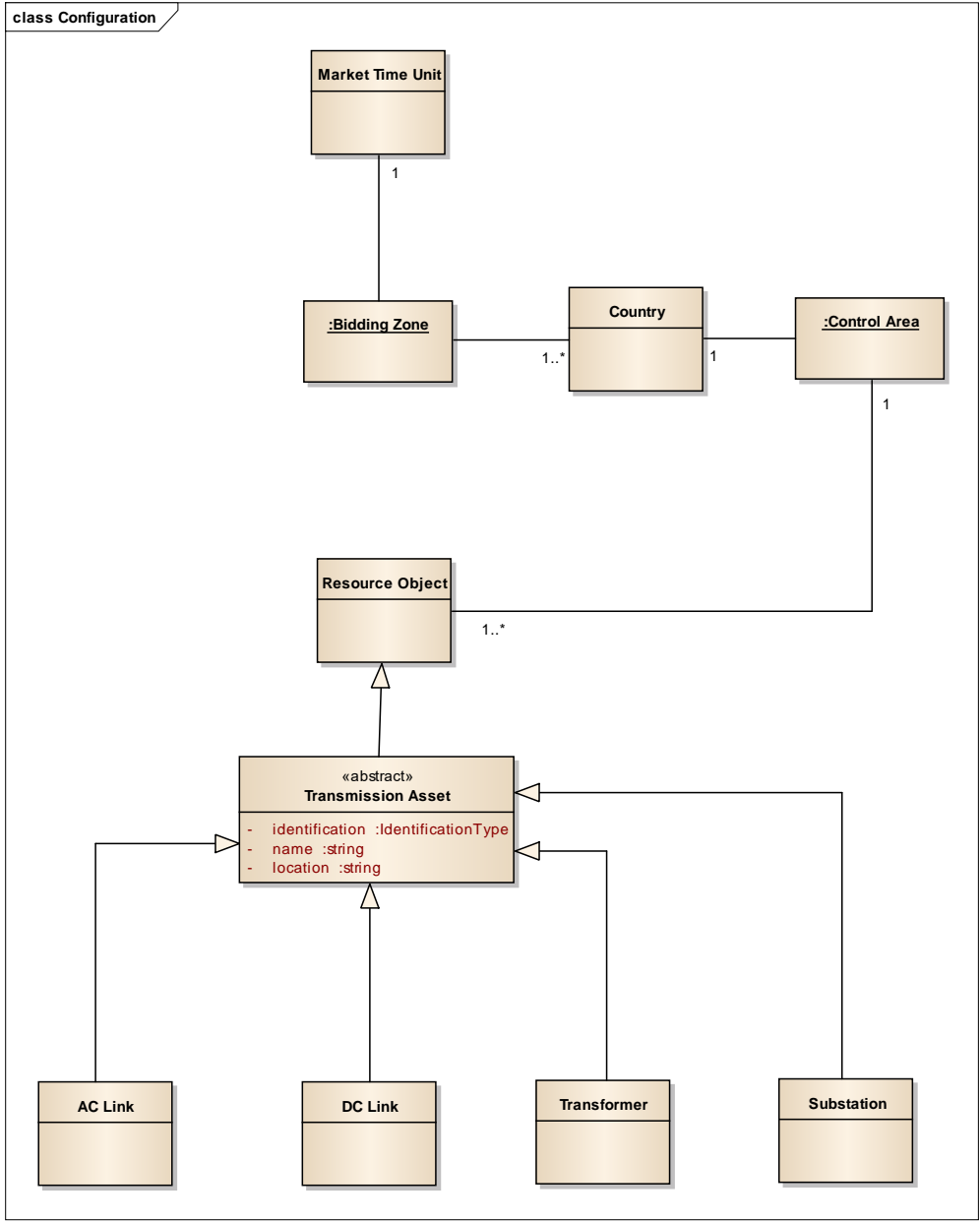
- 2835 - For each applicable data item, the unique Data Provider: Shall only be displayed towards  
2836 authenticated users
- 2837 Data shall be displayed in a Table.
- 2838

## 8 CONGESTION MANAGEMENT

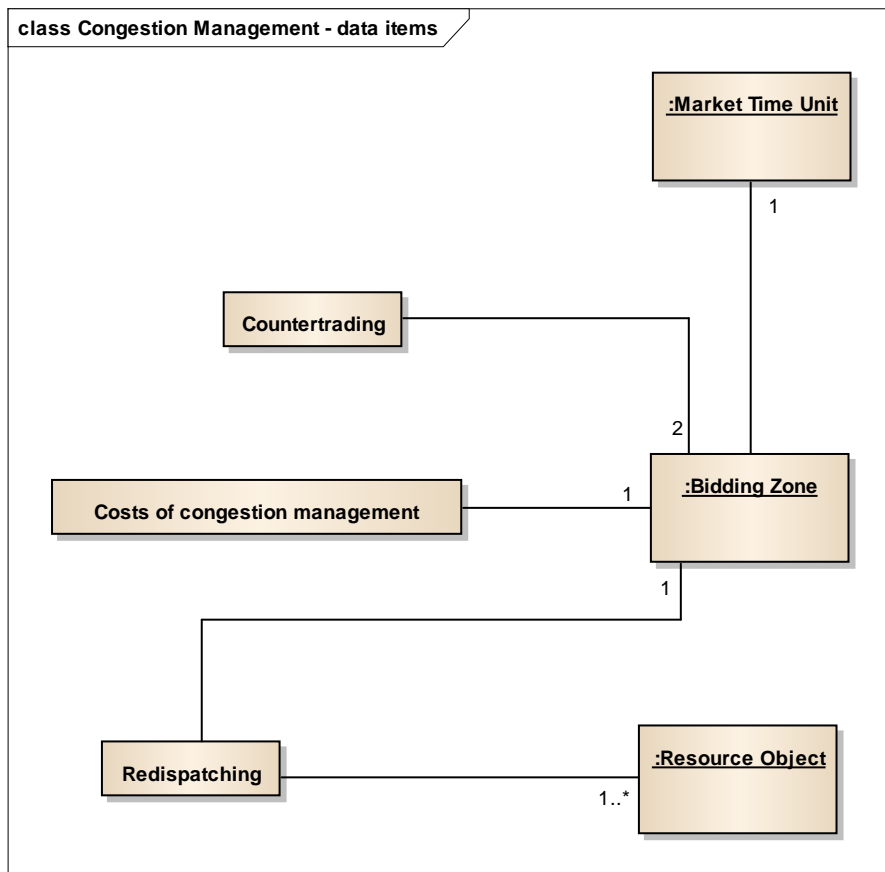
### 8.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 8.1.1 FUNDAMENTAL ENTITIES

For Congestion Management, the fundamental entities are a subset of the ones relevant to the Transmission and Outages domains:



2845 For Congestion Management, the following relations between the fundamental entities and the  
2846 required information have been identified:



2847

## 2848 8.1.2 PRE-CONFIGURATION

2849 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
2850 reference data:

2851 - [C-CGT-1] a list of Bidding Zones. This is the same configuration as for Generation, Load  
2852 and Transmission

2853 - [C-CGT-2] for each Bidding Zone, the Market Time Unit. This is the same configuration as  
2854 for Generation, Load and Transmission

2855 - [C-CGT-3] a list of redispatching actions: Production increase or decrease, load increase or  
2856 decrease

2857 - [C-CGT-4] a list of countertrading actions: Cross-zonal exchange increase or decrease

2858 - [C-CGT-5] for each Control Area, the single authorized Data Provider, identified by a unique  
2859 Code. This is the same configuration as for Generation and Load

2860 - [C-CGT-6] for each Bidding Zone, the Currency. This is the same configuration as for  
2861 Transmission

2862 - [C-CGT-7] a list of Control Areas. This is the same configuration as for Generation and  
2863 Load

2864 - [C-CGT-8] a list of countries and for each country, the corresponding Control Area(s). This is  
2865 the same configuration as for Generation and Load

2866 - [C-CGT-9] a list of reasons for congestion management: "Load flow overload" and "Voltage  
2867 level adjustment"

### 2868 8.1.3 DATA CONTAINER STATUS / DATA STATUS

2869 All data items follow the "None / Ready for publication" scheme.

2870

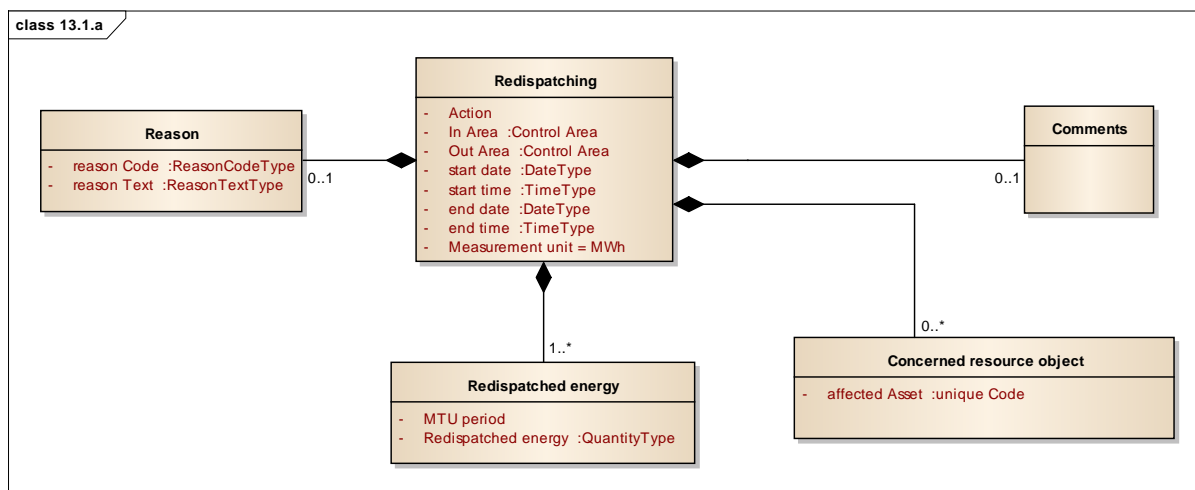
2871



## 8.2 REDISPATCHING [13.1.A]

### 8.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Redispatching is described by start and end dates and times, the action taken, optionally a list of concerned resource objects and optionally a reason. For each MTU period during the time interval the redispatched energy expressed in MWh are specified. For cross-border redispatching, the In and Out areas are provided. For internal redispatching, a single area is submitted and published - In and Out areas will in that case be the same. Optionally, comments may be included.

Resource objects are Transmission Assets, of type AC Link, DC Link, Transformer or Substation.

It is possible to submit and publish separately more than one redispatching action, i.e. there may be at the same time several production increases and/or load decreases.

### 8.2.2 PRE-CONFIGURATION

No specific pre-configuration applies to this data item.

### 8.2.3 ASSUMPTIONS

An update including the reason and/or concerned resource object(s) may be submitted after initial submission of document.

The concerned resource objects have been declared as per chapter 11.11.

Data should be submitted at the latest one hour after the end of the MTU period (H+1). However no monitoring can be performed, due to the nature of the data.

2901  
2902 Data Provider may choose to include in one single data submission values for a time interval  
2903 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
2904 MTU.

2905  
2906 For a given area, there may be several instances of redispatching occurring at the same  
2907 time. No aggregation is performed on platform and every submitted and successfully  
2908 validated instance will be published.

## 2909 8.2.4 INTEGRATION

2910  
2911 - Areas are recognised by platform  
2912  
2913 - Data Provider is consistent with area(s)  
2914  
2915 - Data Provider is consistent with concerned resource objects. This validation shall trigger a  
2916 warning only.  
2917 - Concerned resource objects, if provided, are recognised by the platform.  
2918  
2919 - Concerned resource objects are located within the Area(s). This validation shall trigger a  
2920 warning only.  
2921 - Action is among the values prescribed by pre-configuration [C-CGT-3]  
2922  
2923 - Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]  
2924  
2925 - Document should not be submitted before the start date and time declared within the  
2926 document. Reason being that this is ex-post information. This validation shall trigger a  
2927 warning only.  
2928  
2929 The time interval in the submitted document is of one MTU at least and is a multiple of the  
2930 MTU identified for the area as per [C-CGT-2].

## 2931 8.2.5 MONITORING

2932 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
2933 is performed. Submission deadlines are not relevant to this data item.

## 2934 8.2.6 PROCESSING

2935 No processing is performed on this data item.

## 2936 8.2.7 PUBLICATION

### 2937 8.2.7.1 FILTERING AND SORTING CRITERIA

2938 Data shall be visually accessed by selecting the following:

2939 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2940 partially or completely cover the Country)

2941 - Area(s) (selection is mandatory, at least one must be selected)

2942 - Day or date range (selection is mandatory)

## 2943 8.2.7.2 DISPLAY

2944 This data shall be displayed in the following section:

### 2945 - **Congestion Management / Redispatching**

2946 The following attributes of data shall be displayed:

2947 - Area(s)

2948 - Market Time Unit

2949 - Start and end dates and times

2950 - Measurement Unit

2951 - The action

2952 - For each MTU period during the matching redispatching time intervals, the redispatched  
2953 energy.

2954  
2955 - Reason, if provided

2956  
2957 - Comments, if provided

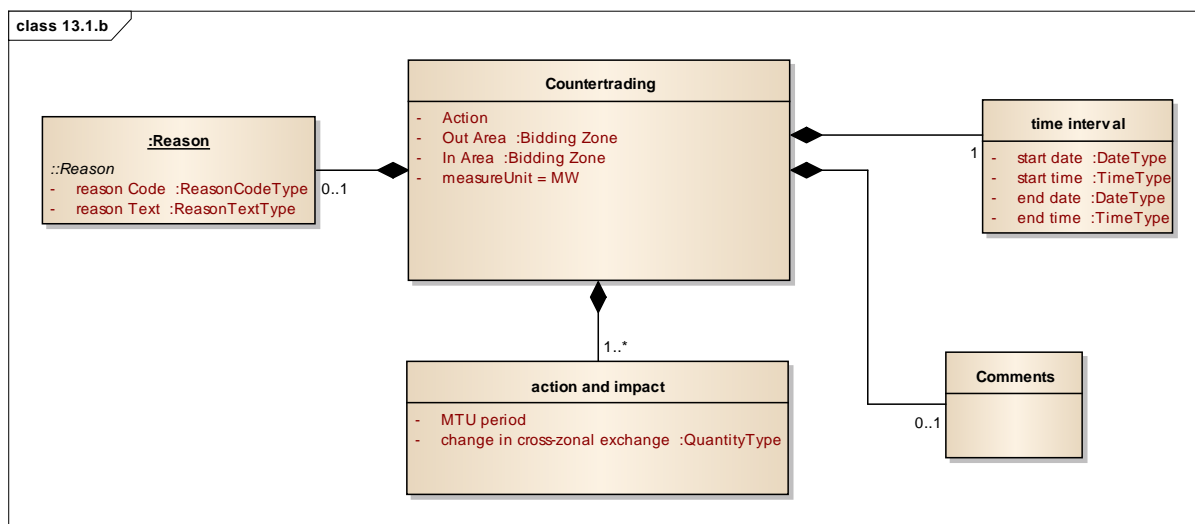
2958  
2959 - A list of concerned resource objects, if available, with links to pages on central platform  
2960 providing more details on the resource objects.

2961  
2962 Data shall be published as a table and as a chart.  
2963

## 8.3 COUNTERTRADING [13.1.B]

### 8.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Control Area, countertrading between start and end dates and times is described for an In Area and an Out Area. Optionally, a reason is included. Optionally, comments are included.

For each Market Time Unit (MTU) period during the time interval, the change in exchange expressed in MW and the Action taken is specified.

The change in cross-zonal exchange is always a positive value.

### 8.3.2 PRE-CONFIGURATION

For this data item there is no specific pre-configuration.

### 8.3.3 ASSUMPTIONS

An update including the reason may be submitted after initial submission of document.

Data should be submitted at the latest one hour after the end of the MTU period (H+1). However no monitoring can be performed, due to the nature of the data.

Data Provider may choose to include in one single data submission values for a time interval longer than one MTU. The time interval would in this case necessarily be a multiple of the MTU.

## 2989 8.3.4 INTEGRATION

- 2990 - Bidding Zones and Control Area are recognised by platform
- 2991
- 2992 - Data Provider is consistent with Control Area
- 2993
- 2994 - Action is among the values prescribed by pre-configuration [C-CGT-4]
- 2995
- 2996 Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 2997
- 2998 - Document should not be submitted before the end of the MTU. Reason being that this is ex-
- 2999 post information. This validation shall trigger a warning only.
- 3000
- 3001 The time interval in the submitted document is of one MTU at least and is a multiple of the
- 3002 MTU identified for the Bidding Zone as per [C-CGT-2].

## 3003 8.3.5 MONITORING

- 3004 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
- 3005 is performed. Submission deadlines are not relevant to this data item.

## 3006 8.3.6 PROCESSING

- 3007 No processing is performed on this data item.

## 3008 8.3.7 PUBLICATION

### 3009 8.3.7.1 FILTERING AND SORTING CRITERIA

- 3010 Data shall be visually accessed by selecting the following:
- 3011 - Country (selection is optional: If selected, couple of Bidding Zones will be filtered to include
- 3012 only those that partially or completely cover the Country)
- 3013 - Bidding Zone couple (selection is mandatory)
- 3014 - Day or date range (selection is mandatory)

### 3015 8.3.7.2 DISPLAY

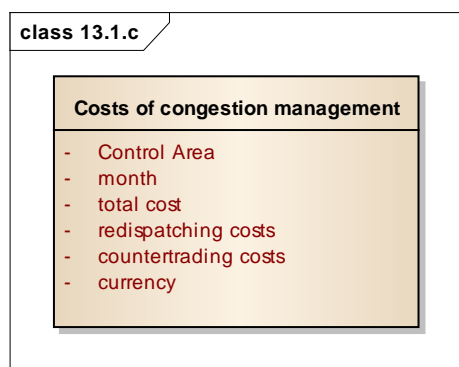
- 3016 This data shall be displayed in the following section:
- 3017 - **Congestion Management / Countertrading**
- 3018 The following attributes of data shall be displayed:
- 3019 - In and Out Areas

- 3020 - Market Time Unit
- 3021 - Start and end dates and times
- 3022 - Measurement Unit
- 3023 - Reason, if available
- 3024 - Comments, if available
- 3025 - For each MTU period during the matching countertrading time intervals, the Action and
- 3026 change in cross-zonal exchange
- 3027
- 3028 Data shall be published as a table and as a chart.
- 3029

## 8.4 COSTS OF CONGESTION MANAGEMENT [13.1.c]

### 8.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Per Control Area and month there is a report on the costs of congestion management. Report contains separate details for the total costs, costs due to redispatching and costs due to countertrading. Platform will calculate costs for other remedial action by subtracting costs of redispatching and countertrading from the total cost.

Document shall cover one single Control Area only.

### 8.4.2 PRE-CONFIGURATION

For this data item there is no specific pre-configuration.

### 8.4.3 ASSUMPTIONS

No monitoring is performed, due to the nature of the data. Hence, no submission deadlines will be configured.

### 8.4.4 INTEGRATION

- Control Area is recognised by platform
- Data Provider is consistent with Control Area
- Currency is consistent with Bidding Zone (indirectly through Control Area), as per pre-configuration [C-CGT-6]

3056    **8.4.5 MONITORING**

3057    Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
3058    is performed. Submission deadlines are not relevant to this data item.

3059    **8.4.6 PROCESSING**

3060    Platform will per Control Area and month calculate costs for other remedial action, by  
3061    subtracting from total cost the costs of redispatching and countertrading.

3062    **8.4.7 PUBLICATION**

3063    **8.4.7.1      FILTERING AND SORTING CRITERIA**

3064    Data shall be visually accessed by selecting the following:

3065    - Country (selection is optional: If selected, Control Area will be filtered to include only those  
3066    that partially or completely cover the Country)

3067    - Control Area (selection is mandatory)

3068    - Month range (selection is mandatory)

3069    **8.4.7.2      DISPLAY**

3070    This data shall be displayed in the following section:

3071    - **Congestion Management / Costs**

3072    The following attributes of data shall be displayed:

3073    - Control Area

3074    - Currency

3075    - Selected month range

3076    - For each month, the total cost, costs of redispatching, costs of countertrading and costs for  
3077    other remedial actions

3078    Data shall be published as a table and chart.

3079

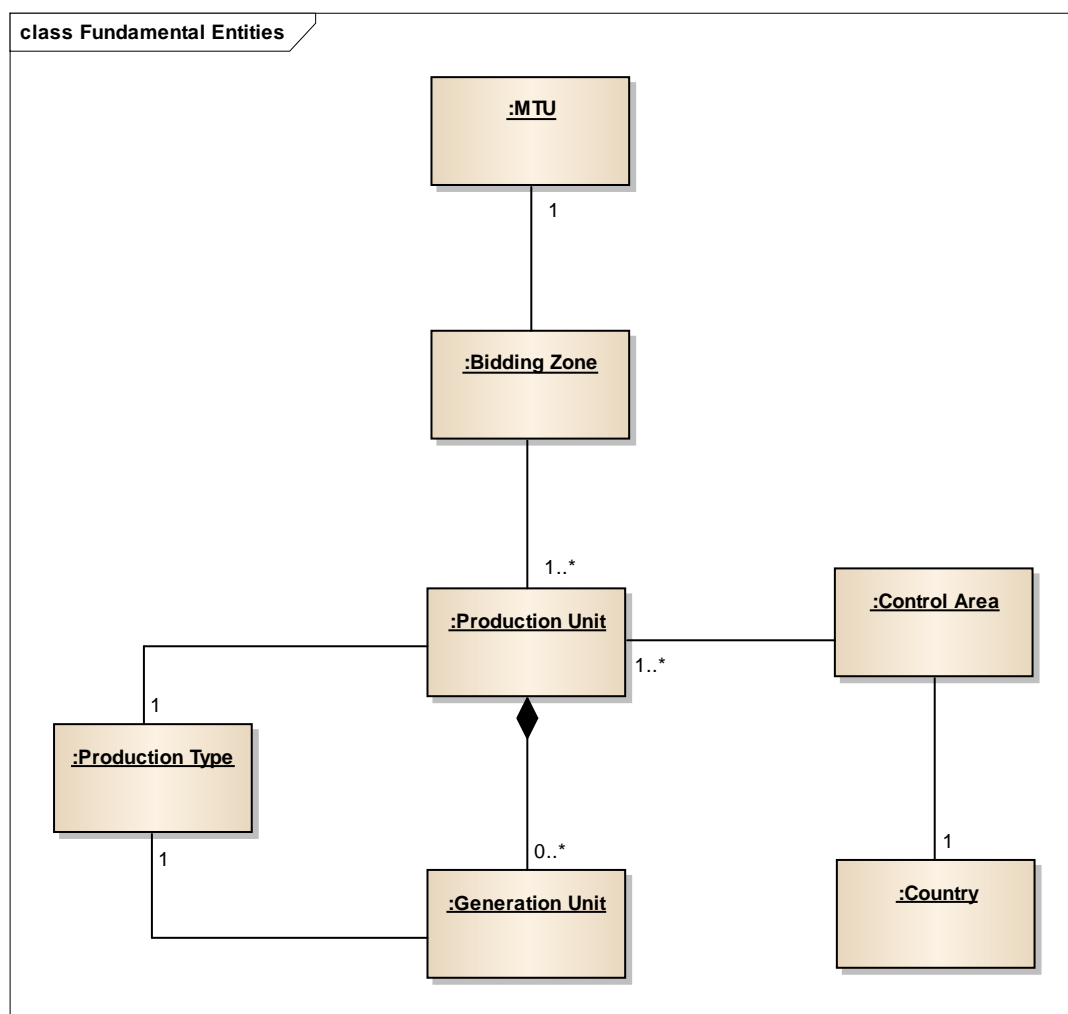


## 9 GENERATION

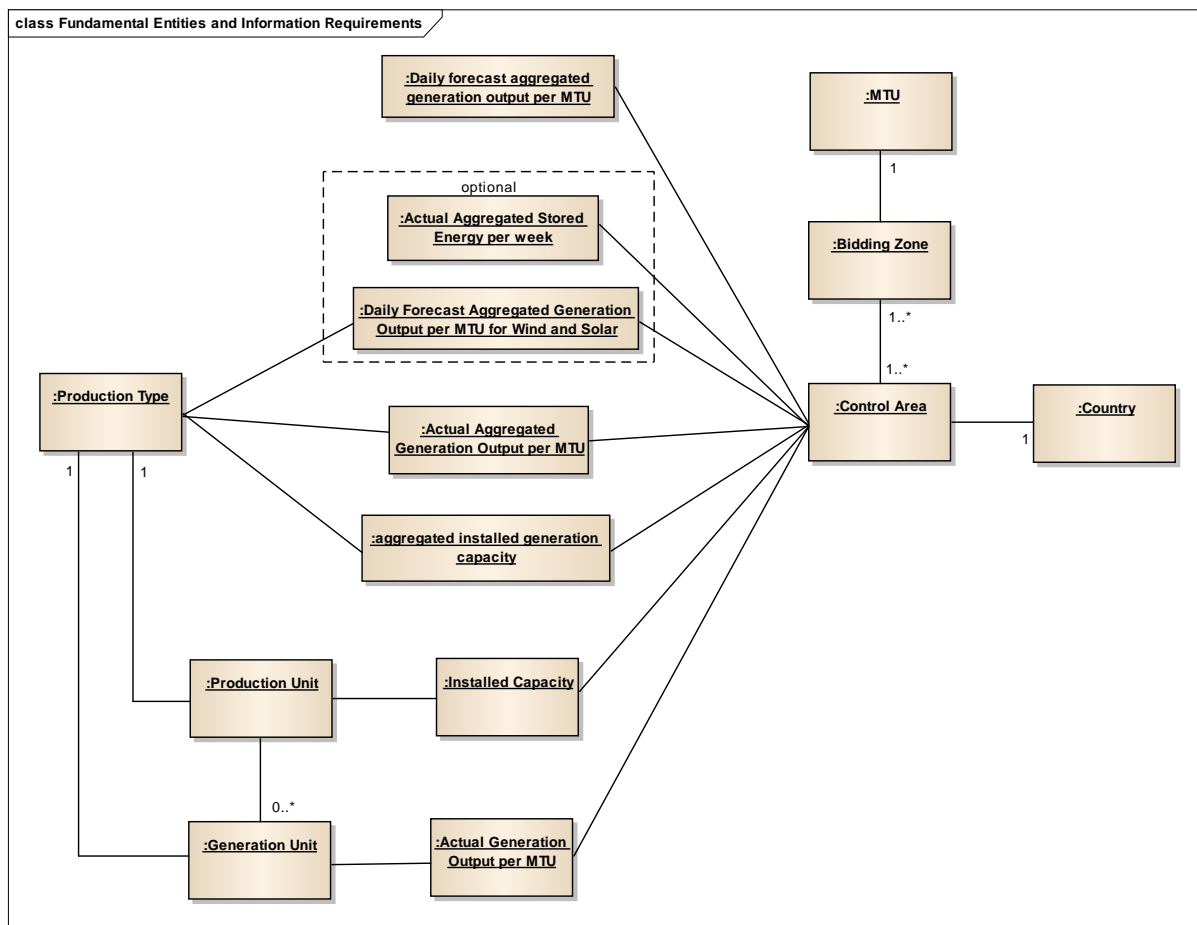
### 9.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 9.1.1 FUNDAMENTAL ENTITIES

The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- For a given Bidding Zone, there will be a Market Time Unit
- For a given Bidding Zone, there will be a list of Production and Generation Units. Every Production and Generation Unit is of exactly one Production Type
- Country will be deduced based on Control Area



3090

3091 Optional means here that submission of data is necessary only when power from  
3092 corresponding Production Types exceed certain thresholds, as stipulated in [1].

3093 It must be possible to determine to which bidding zone and control area that generation data  
3094 contained in submitted documents refer to<sup>21</sup>.

## 3095 9.1.2 PRE-CONFIGURATION

3096 The platform administrator at ENTSO-E shall pre-configure application with the following  
3097 reference data:

3098 - [C-GNR-1] a list of Bidding Zones

3099 - [C-GNR-2] a list of Production Types

3100 - [C-GNR-3] for each Bidding Zone the Market Time Unit, expressed as duration

<sup>21</sup> If format of data does not permit explicit declaration of Control Area it may be deduced from Sender.

- 3101 - [C-GNR-4] for each Bidding Zone, Control Area and data item subject to publication, the  
3102 allowed Data Providers, identified by unique Codes<sup>22</sup>
- 3103 - [C-GNR-7] a percentage tolerance that indicates how much scheduled or actual capacity  
3104 may exceed installed capacity. This is a single value common to all Generation Units and will  
3105 be set to 25%. If tolerance is exceeded, only a warning will be triggered.
- 3106 The following reference data will be managed by Data Providers:
- 3107 - [C-GNR-5] a list of Production and Generation Units, refer to chapter 9.9 for further details.  
3108 This will be used for validation during the integration step.
- 3109 - [C-GNR-8] a list of Control Areas
- 3110 - [C-GNR-9] a list of countries and for each country, the corresponding Control Area(s)
- 3111 **9.1.3 PUBLICATION**
- 3112 For data items that do not require aggregation, data is published as soon as received, except  
3113 for data item [16.1.a] where publication will be pending a specified delay.
- 3114 For data items that require aggregation, aggregated values only shall be published. Data is  
3115 being published as soon as it is complete, i.e. when all relevant Data Providers have submitted  
3116 their contributions. However, if by the submission deadline data is still pending from one or  
3117 several Data Providers, the aggregated value shall be published with a clear indication that the  
3118 final value is pending further data submissions.

---

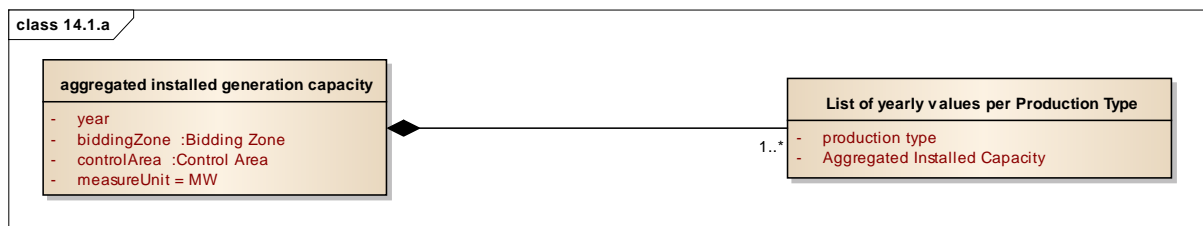
<sup>22</sup> Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

## 9.2 INSTALLED GENERATION CAPACITY AGGREGATED

### [14.1.A]

#### 9.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area, the Aggregated Installed Generation Capacity shall be recorded for all Production Types. Values are to be provided for 1 year. The fixed measure Unit is MW.

#### 9.2.2 PRE-CONFIGURATION

[PC14.1.A-1] This data item shall be configured as expected.

[PC14.1.A-2] For every Bidding Zone, there is a yearly submission deadline. Submission must be performed one week before the year for which data is provided.

*Example: if the first year for which data is provided is year 2013, the document must be submitted before December 25<sup>th</sup>, 00:00 UTC, 2012.*

#### 9.2.3 ASSUMPTIONS

Note that in a given Bidding Zone, there may be multiple Data Providers and submission is not coordinated.

#### 9.2.4 INTEGRATION

- Bidding Zone and Control Area shall be recognised by the platform

- Production Type shall be recognised by the platform

- The Data Provider shall be consistent with the identified Control Area

Note that no validation is possible on the combinations, inclusions or exclusions of Production Types in a given Bidding Zone.

## 3142 9.2.5 MONITORING

3143 For a given Bidding Zone and year data is expected. This is controlled by pre-configuration  
3144 [PC14.1.A-1]. For every Bidding Zone and year at least one Capacity Value is expected for at  
3145 least one Production Type. The submission deadline [PC14.1.A-2] will be monitored for  
3146 compliance.

3147 For a given Bidding Zone, data is not considered complete before all Data Providers declared  
3148 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only  
3149 some Data Providers have submitted data, the data will be considered “missing”.

## 3150 9.2.6 PROCESSING

3151 Submitted Capacity values shall be aggregated per Country, Bidding Zone, Production Type  
3152 and year. Aggregation here means simply adding up the submitted Capacity values.

3153 Submitted Capacity values shall also be aggregated per Country, Bidding Zone and year for  
3154 the purpose of calculating a grand total value for the whole Country or Bidding Zone, common  
3155 to all Production Types.

3156 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3157 9.2.7 DATA CONTAINER STATUS / DATA STATUS

3158 This data item follows the “None / Ready for publication / Missing” scheme.

## 3159 9.2.8 PUBLICATION

### 3160 9.2.8.1 FILTERING AND SORTING CRITERIA

3161 Data shall be visually accessed by selecting the following:

- 3162 - Country or Bidding Zone: selection is mandatory
- 3163 - Production Type: selection is optional, one or several may be chosen
- 3164 - Year: selection is mandatory, single year or a range may be chosen

### 3165 9.2.8.2 DISPLAY

3166 This data shall be displayed in the following section:

#### 3167 - **Generation / Aggregated Installed Capacity**

3168 The following attributes of data shall be displayed:

- 3169 - Country or Bidding Zone name

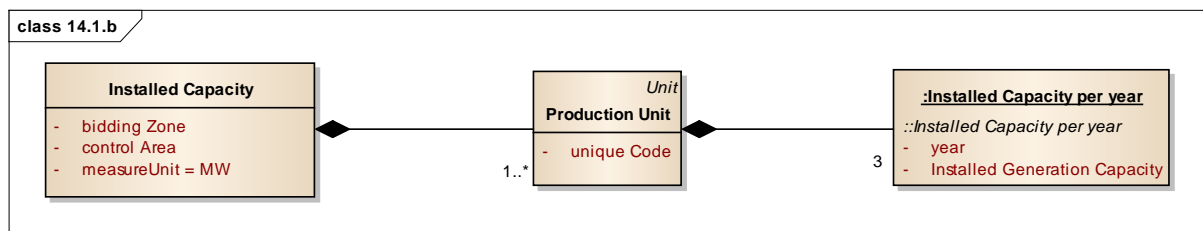
- 3170 - Capacity per Production Type for each year
- 3171 Grand total Capacity for each year shall also be displayed.
- 3172 User shall have the choice between displaying data in a Table, Map or Pie Chart.
- 3173

## 9.3 INSTALLED GENERATION CAPACITY PER UNIT

### [14.1.B]

#### 9.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For every Production Unit in a given Bidding Zone and Control Area, Installed Generation Capacity  $\geq 100$  MW shall be recorded. Values are to be provided for 3 years, with one value per year. The fixed measure Unit is MW.

Production Unit is identified by a unique Code<sup>23</sup>.

#### 9.3.2 PRE-CONFIGURATION

Since installed capacities will be recorded with Master Data (see following section), no specific pre-configuration for this data item is foreseen.

#### 9.3.3 ASSUMPTIONS

Installed capacity has been recorded in Master Data, as described in section 9.9. There is no additional data submission foreseen.

#### 9.3.4 INTEGRATION

Not applicable, since covered by Master Data described in section 9.9.

#### 9.3.5 MONITORING

Since installed capacities are recorded in Master Data, technically monitoring is not feasible for this data item.

<sup>23</sup> Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

3194 **9.3.6 PROCESSING**

3195 No processing performed on this data item.

3196 **9.3.7 DATA CONTAINER STATUS / DATA STATUS**

3197 Not applicable since installed capacities are recorded in Master Data.

3198 **9.3.8 PUBLICATION**

3199 **9.3.8.1 FILTERING AND SORTING CRITERIA**

3200 Data shall be visually accessed by selecting the following:

3201 - Country or Bidding Zone: selection is mandatory

3202 - Production Type: selection is optional, one or several may be chosen

3203 - Year: selection is mandatory, single year or a range to be chosen

3204 **9.3.8.2 DISPLAY**

3205 This data shall be displayed in the following section:

3206 **- Generation / List of Production Units and Installed Capacity**

3207 The following attributes of data shall be displayed:

3208 - Country or Bidding Zone name

3209 - Production Type, unique Code and Name

3210 - For every Production Unit and selected year(s), the installed capacity value(s)

3211 - For every Production Unit, the commissioning date and, if available, decommissioning date

3212 Data shall be displayed in a Table.

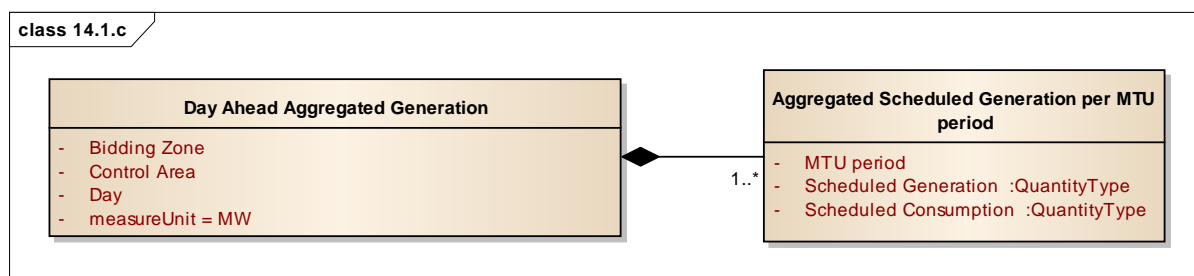
3213 Links to pages on platform with more details on each Production Unit shall be provided.



## 3214 9.4 DAY AHEAD AGGREGATED GENERATION [14.1.c]

### 3215 9.4.1 DATA DESCRIPTION

3216 This item can be described by the following class diagram:



3217  
3218 For a given Bidding Zone and Control Area the Scheduled Generation for the day-ahead shall  
3219 be recorded. The number of values corresponds to the number of Market Time Unit periods in  
3220 one day. The fixed measure Unit is MW.

3221 Optionally, power consumed by production/generation units may be included.

### 3222 9.4.2 PRE-CONFIGURATION

3223 [PC-14.1.c-1] This data item shall be configured as expected.

3224 [PC-14.1.c-2] There is a daily submission deadline, common to all Bidding Zones.

3225 Submission must be performed not later than D-1 at 18:00 CET.

### 3226 9.4.3 ASSUMPTIONS

3227 No specific assumptions apply to this data item.

### 3228 9.4.4 INTEGRATION

3229 - Bidding Zone and Control Area shall be recognised by the platform

3230 - The Data Provider shall be consistent with the identified Control Area

### 3231 9.4.5 MONITORING

3232 For a given Bidding Zone and day, data is expected. This is controlled by pre-configuration

3233 [PC-14.1.c-1]. Compliance with the submission deadline [PC-14.1.c-2] will be monitored.

## 3234 9.4.6 PROCESSING

3235 Submitted Scheduled Generation values shall be aggregated per Country, Bidding Zone and  
3236 Market Time Unit period. Aggregation here means simply adding up the submitted Scheduled  
3237 Generation values.

3238 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3239 9.4.7 DATA CONTAINER STATUS / DATA STATUS

3240 This data item follows the “None / Ready for publication / Missing” scheme.

## 3241 9.4.8 PUBLICATION

### 3242 9.4.8.1 FILTERING AND SORTING CRITERIA

3243 Data shall be visually accessed by selecting the following:

3244 - Country or Bidding Zone: selection is mandatory

3245 - Day: selection is mandatory, one or two consecutive days may be chosen

3246 - Start and end time: selection is mandatory, start and end time within the selected day

### 3247 9.4.8.2 DISPLAY

3248 This data shall be displayed in the following section:

3249 - **Generation / Day Ahead Aggregated Generation**

3250 The following attributes of data shall be displayed:

3251 - Country or Bidding Zone name

3252 - Measure Unit

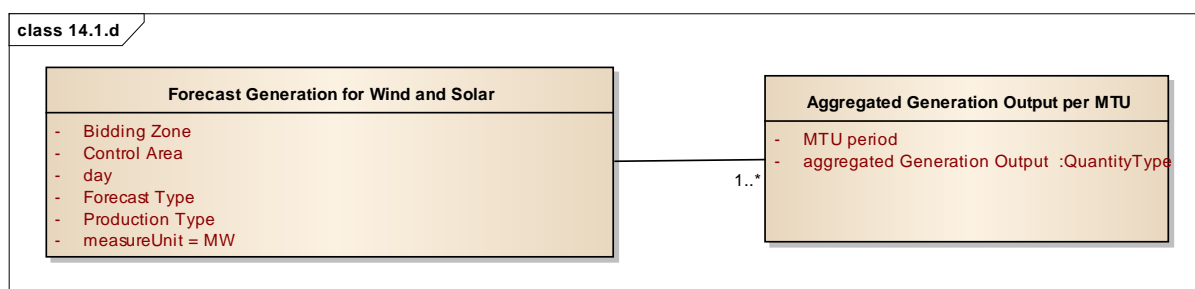
3253 - Selected Day(s)

3254 - For every MTU period within the selected day(s), the scheduled generation values, and  
3255 consumption values (if available). User shall have the choice between displaying data in a  
3256 Table or in a Chart.

## 9.5 DAY-AHEAD GENERATION FORECASTS FOR WIND AND SOLAR [14.1.D]

### 9.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area there shall be a Forecast Aggregated Generation for wind onshore, wind offshore and solar power, respectively. Three separate forecasts may be submitted and published: Day-ahead at 1800 on day D-1, intraday at 0800 on day D and current forecast. Values are provided with a value per Market Time Unit (MTU) period. There is a fixed measure Unit (MW).

Forecasts for wind onshore, wind offshore and solar may be provided in the same or in separate data submissions.

Note that duration of MTU depends on Bidding Zone.

### 9.5.2 PRE-CONFIGURATION

[PC-14.1.d-1] For a given Bidding Zone, Data Providers shall be able to indicate whether data is expected or not for wind onshore, wind offshore and solar, respectively. By default it is not expected.

[PC-14.1.d-2] There is a daily submission deadline for the day-ahead forecast, common to all bidding zones. Submission must be performed not later than D-1 at 18:00 CET. This submission deadline will apply only if data is expected, as per [PC-14.1.d-1].

[PC-14.1.d-3] There is a daily submission deadline for the intraday forecast, common to all bidding zones. Submission must be performed no later than D at 08:00 CET. This submission deadline will apply only if data is expected, as per [PC-14.1.d-1].

There is no submission deadline for the current forecast since submissions cannot be predicted.

### 3282 9.5.3 ASSUMPTIONS

3283 No specific assumptions apply to this data item.

### 3284 9.5.4 INTEGRATION

3285 - Bidding Zone and Control Area shall be recognised by the platform

3286 - The Data Provider shall be consistent with the identified Control Area

### 3287 9.5.5 MONITORING

3288 If for a given Bidding Zone and Production Type the data item has been configured as expected  
3289 per [PC-14.1.d-1], compliance with submission deadlines [PC-14.1.d-2] and [PC-14.1.d-3] will  
3290 be monitored.

3291 Monitoring of the submissions of current forecast at 1800 on day D-1 and at 0800 on day D  
3292 are covered by the monitoring of the day-ahead and intraday forecasts. Any other submissions  
3293 of current forecast cannot be predicted. Hence, no monitoring of current forecast will be  
3294 undertaken.

3295 For a given Bidding Zone, data is not considered complete before all Data Providers have  
3296 submitted their data contributions. If by the deadline only some Data Providers have submitted  
3297 data, the data will be considered “missing”.

### 3298 9.5.6 PROCESSING

3299 Submitted Scheduled Values shall be aggregated per Country, Bidding Zone, Forecast type,  
3300 Production Type (wind onshore, wind offshore and solar, respectively) and Market Time Unit  
3301 period. Aggregation here means simply adding up the submitted Scheduled Values.

3302 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

### 3303 9.5.7 DATA CONTAINER STATUS / DATA STATUS

3304 This data item follows the “None / Ready for publication / Missing” scheme.

### 3305 9.5.8 PUBLICATION

#### 3306 9.5.8.1 FILTERING AND SORTING CRITERIA

3307 Data shall be visually accessed by selecting the following:

3308 - Country or Bidding Zone: selection is mandatory

3309 - Production Type: wind onshore, wind offshore or solar, selection is mandatory, one or several  
3310 may be chosen. By default all are chosen

3311 - Day: selection is mandatory, one or two consecutive days may be chosen

3312 - Start and end time: must be within the selected day(s) and selection is mandatory

### 3313 9.5.8.2 DISPLAY

3314 This data shall be displayed in the following section:

#### 3315 - **Generation / Day Ahead Generation Forecasts for Wind and Solar**

3316 The following attributes of data shall be displayed:

3317 - Country or Bidding Zone name

3318 - Measure Unit

3319 - Selected day(s)

3320 - Forecast type

3321 - For the selected Production Type(s), generation forecast values for each MTU period within  
3322 the selected start and end dates and times

3323 User shall have the choice between displaying data in a Table or in a Chart.

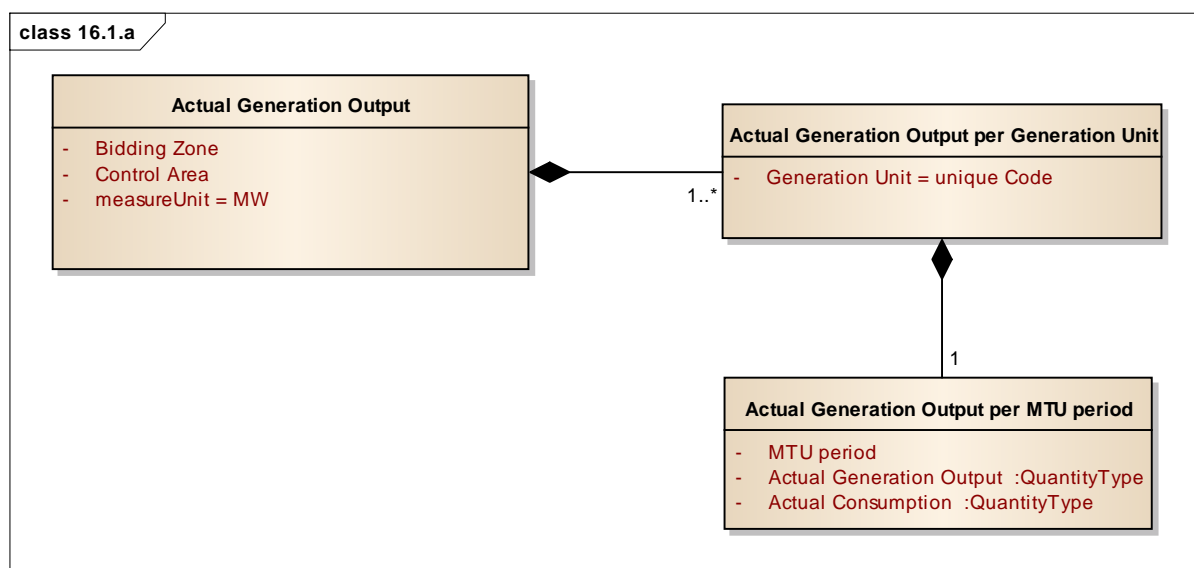
3324

## 9.6 ACTUAL GENERATION OUTPUT PER GENERATION

### UNIT [16.1.A]

#### 9.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone, Control Area and Market Time Unit (MTU) period, the Actual Generation Output shall be recorded per Generation Unit having installed generation capacity  $\geq 100$  MW. Common to all Generation Units there is a fixed measure Unit (MW).

Optionally, power consumed by the generation unit may be included.

Note that duration of MTU depends on Bidding Zone.

#### 9.6.2 PRE-CONFIGURATION

[PC-16.1.a-1] This data item shall be configured as expected.

[PC-16.1.a-2] For every Bidding Zone and MTU period there is a submission deadline. Submission must be performed not later than five days after the end of the MTU period.

*Example: If the MTU duration in the Bidding Zone is 15 minutes, then the document that covers the time March 12 from 14:00 until 14:15 must be submitted by March 17 at 14:15.*

#### 9.6.3 ASSUMPTIONS

Installed Capacity must have been submitted and validated for the Generation Unit and the year as per chapter 9.3. This is necessary in order to succeed in the validation and monitoring

3344 described in the next sections. If installed capacity has not been recorded in the platform, the  
3345 validation will trigger a warning and monitoring will not produce any notification about missing  
3346 data.

3347 Data Provider may choose to include in one single data submission values for a time interval  
3348 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3349 MTU.

## 3350 9.6.4 INTEGRATION

3351 - Bidding Zone and Control Area shall be recognised by the platform

3352 - The Data Provider shall be consistent with the identified Control Area and Generation Unit

3353 - Document should not be submitted before the end of the MTU period. Reason being that this  
3354 is ex-post information. This validation shall trigger a warning only. The warning may be  
3355 suppressed completely by changing configuration.

3356 - The Codes that identify Generation Units must already exist in the platform. This is  
3357 controlled by pre-configuration [C-GNR-5].

3358 - Generation Unit must be within the Control Area. This shall be validated against the  
3359 Generation Unit reference data described in chapter 9.9.

3360 - For each Generation Unit, it shall be validated that the actual generation output does not  
3361 exceed the Installed Capacity, recorded for the same year, by more than the percentage  
3362 tolerance expressed in [C-GNR-7]. Tolerance currently set to 25%. This validation will trigger  
3363 a warning only.

3364 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3365 MTU identified for the Bidding Zone as per [C-GNR-3].

## 3366 9.6.5 MONITORING

3367 For a given Bidding Zone and MTU period, actual generation output is expected. This is  
3368 controlled by pre-configuration [PC-16.1.a-1]. This data is expected for all Generation Units  
3369 with an installed generation capacity  $\geq 100$  MW and that are in status Commissioned during  
3370 the MTU period. The submission deadline [PC-16.1.a-2] will be monitored for compliance.

## 3371 9.6.6 PROCESSING

3372 No further processing is performed on this data item.

## 3373 9.6.7 DATA CONTAINER STATUS / DATA STATUS

3374 The ex-post data item applies the “none / waiting for publication x 2 / ready for publication /  
3375 missing” scheme.

## 3376 9.6.8 PUBLICATION

### 3377 9.6.8.1 FILTERING AND SORTING CRITERIA

3378 Data shall be visually accessed by selecting the following:

- 3379 - Country or Bidding Zone: selection is mandatory
- 3380 - Production Type: selection is optional, one or several may be chosen.
- 3381 - Production or Generation unit, selection is optional
- 3382 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3383 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3384 9.6.8.2 DISPLAY

3385 This data shall be displayed in the following section:

#### 3386 - **Generation / Actual Generation per Generation Unit**

3387 The following attributes of data shall be displayed:

- 3388 - Country or Bidding Zone name
- 3389 - Production Type, Code and Name of every Generation Unit
- 3390 - selected day(s)
- 3391 - For every Generation Unit, the actual generation output and actual consumption, if available,  
3392 per MTU period within the selected start and end dates and times

3393 Data shall be displayed in a Table.

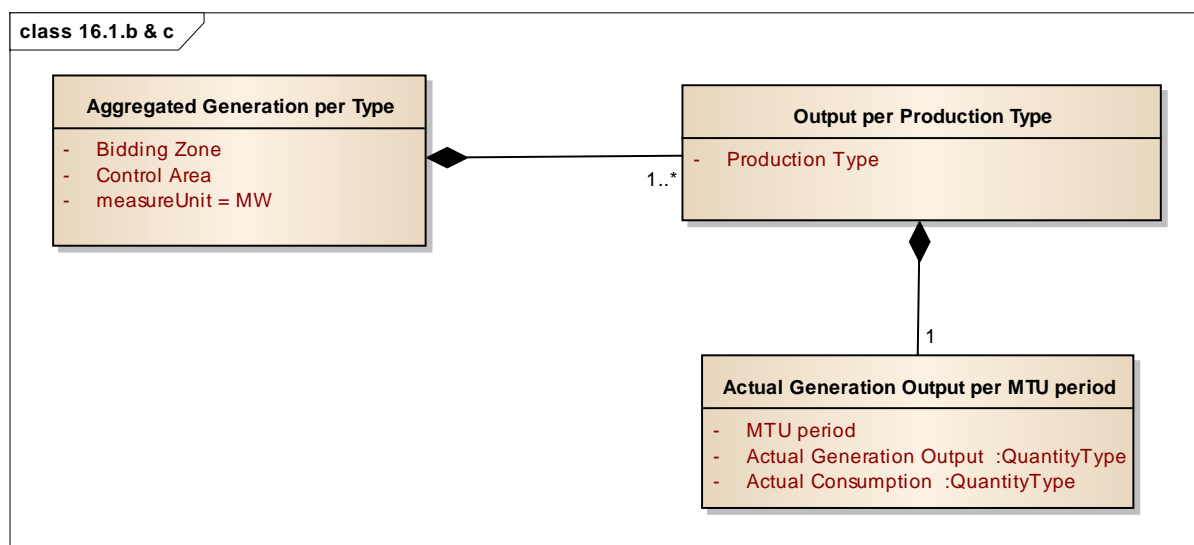
3394 Links shall be provided to pages on central platform that provide additional details on each  
3395 Generation Unit.



## 9.7 AGGREGATED GENERATION PER TYPE [16.1.B&C]

### 9.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone, Control Area and a given Production Type, there shall be an Aggregated Generation Output per Market Time Unit (MTU) period. Common to all Production Types there is a fixed measure Unit (MW).

Optionally, power consumed by production/generation units may be included.

Note that duration of MTU depends on Bidding Zone.

### 9.7.2 PRE-CONFIGURATION

[PC-16.1.bc-1] This data item shall be configured as expected.

[PC-16.1.bc-2] For every Bidding Zone and MTU period there is a submission deadline. Submission must be performed not later than one hour after the end of the MTU period.

*Example: If the MTU duration in the Bidding Zone is 15 minutes, then the document that covers the time 14:00-14:15 must be submitted by 15:15.*

### 9.7.3 ASSUMPTIONS

There is no requirement to configure per production type whether data is expected or not.

3413 Data Provider may choose to include in one single data submission values for a time interval  
3414 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3415 MTU.

#### 3416 9.7.4 INTEGRATION

3417 - Bidding Zone and Control Area shall be recognised by the platform

3418 - Production Type shall be recognised by the platform

3419 - The Data Provider shall be consistent with the identified Control Area

3420 - Document may not be submitted before the end of the MTU period. Reason being that this is  
3421 ex-post information. This validation shall trigger a warning only. The warning may be  
3422 suppressed completely by changing configuration.

3423 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3424 MTU identified for the Bidding Zone as per [C-GNR-3].

#### 3425 9.7.5 MONITORING

3426 For this data item, data is expected. This is controlled by pre-configuration [PC-16.1.bc-1]. For  
3427 a given Bidding Zone and MTU period an actual aggregated generation output value is  
3428 expected for at least one Production Type. The submission deadline [PC-16.1.bc-2] will be  
3429 monitored for compliance.

3430 For a given Bidding Zone, data is not considered complete before all Data Providers declared  
3431 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only  
3432 some Data Providers have submitted data, the data will be considered “missing”.

#### 3433 9.7.6 PROCESSING

3434 Submitted actual generation values shall be aggregated per Country, Bidding Zone, Production  
3435 Type and MTU period. Aggregation here means simply adding up the submitted actual  
3436 generation values.

3437 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

#### 3438 9.7.7 DATA CONTAINER STATUS / DATA STATUS

3439 The ex-post data item applies the “none / waiting for publication / ready for publication /  
3440 missing” scheme.

## 3441 9.7.8 PUBLICATION

### 3442 9.7.8.1 FILTERING AND SORTING CRITERIA

3443 Data shall be visually accessed by selecting the following:

3444 - Country or Bidding Zone: selection is mandatory

3445 - Production Type: selection is optional, one or several may be chosen

3446 - Production and Consumption or Production only: selection is optional, by default Production  
3447 and Consumption are both displayed

3448 - Day: selection is mandatory, one or two consecutive days may be chosen

3449 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3450 9.7.8.2 DISPLAY

3451 This data shall be displayed in the following section:

3452 - **Generation / Actual Aggregated Generation Output per Production Type**

3453 The following attributes of data shall be displayed:

3454 - Country or Bidding Zone name

3455 - Selected day(s)

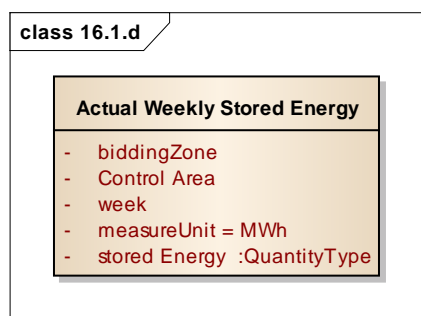
3456 - For the selected Production Type(s), for each MTU period within the selected start and end  
3457 dates and times, the actual aggregated generation output and consumption, if available

3458 Data shall be displayed in a Table and in a Chart.

## 9.8 AGGREGATED FILLING RATE OF WATER RESERVOIRS AND HYDRO STORAGE PLANTS [16.1.D]

### 9.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area there shall be a weekly Stored Energy Value. The Measure Unit is fixed to "MWh".

**Note:** Regulation prescribes that value for same week during previous year shall also be made available. Values corresponding to the year prior to go-live of central platform could be loaded into platform separately, on a voluntary basis as part of initial data population.

### 9.8.2 PRE-CONFIGURATION

[PC-16.1.d-1] For a given Bidding Zone, Data Providers shall be able to indicate whether data is expected or not. By default it is not expected.

[PC-16.1.d-2] For a given bidding zone, there is a weekly submission deadline. Submission must be performed not later than at the end of Wednesday of W+1. This submission deadline will apply only if data is expected, as per [PC-16.1.d-1].

### 9.8.3 ASSUMPTIONS

No specific assumptions apply for this data item.

### 9.8.4 INTEGRATION

- Bidding Zone and Control Area shall be recognised by the platform

- The Data Provider shall be consistent with the identified Bidding Zone

3480 - Submission shall not be performed before the end of the week W. This validation shall trigger  
3481 a warning only. The warning may be suppressed completely by changing configuration.

## 3482 9.8.5 MONITORING

3483 If for a given Bidding Zone the data item has been configured as expected as per [PC-16.1.d-  
3484 1], compliance with submission deadline [PC-16.1.d-2] will be monitored. For a given Bidding  
3485 Zone, data is not considered complete before all Data Providers have submitted their data  
3486 contributions. If by the deadline only some Data Providers have submitted data, the data will  
3487 be considered “missing”.

## 3488 9.8.6 PROCESSING

3489 Submitted Stored Energy Values shall be aggregated per Country and Bidding Zone.  
3490 Aggregation here means simply adding up the submitted Stored Energy Values.

3491 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3492 9.8.7 DATA CONTAINER STATUS / DATA STATUS

3493 This is an ex-post data item that applies the “none / waiting for publication x 2 / ready for  
3494 publication / missing” scheme.

## 3495 9.8.8 PUBLICATION

### 3496 9.8.8.1 FILTERING AND SORTING CRITERIA

3497 Data shall be visually accessed by selecting the following:

- 3498 - Country or Bidding Zone: selection is mandatory
- 3499 - Week: selection is mandatory, a single week or a range (from – to) may be chosen

### 3500 9.8.8.2 DISPLAY

3501 This data shall be displayed in the following section:

#### 3502 - **Generation / water reservoirs and hydro storage plants**

3503 The following attributes of data shall be displayed:

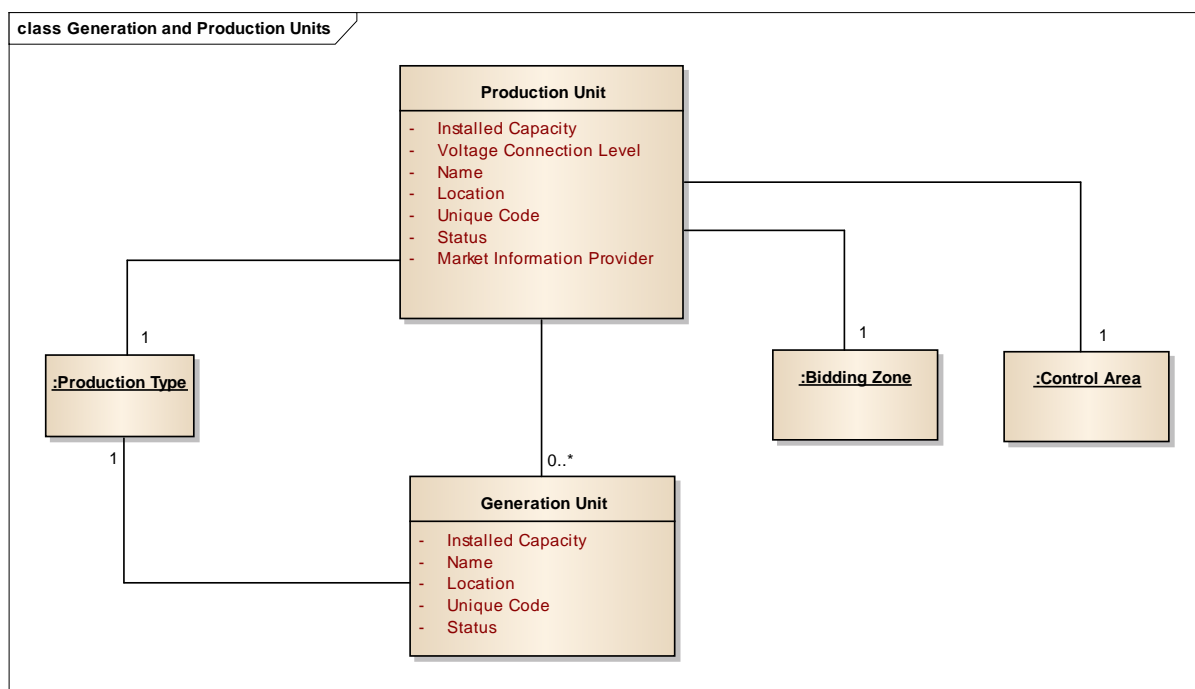
- 3504 - Country or Bidding Zone name
- 3505 - Measure Unit
- 3506 - selected week(s)

- 3507 - Stored Energy Values for the selected week(s) and the same week(s) during previous year
- 3508 User shall have the choice between displaying data in a Table or in a Chart.
- 3509

## 9.9 GENERATION AND PRODUCTION UNITS

### 9.9.1 DATA DESCRIPTION

Generation and Production Units can be described by the following class diagram:



A Production Unit may have zero, one or several Generation Units. A Generation Unit may not be defined on its own, without the corresponding Production Unit.

Status describes whether a Generation or Production Unit is commissioned or decommissioned. If Unit is no longer relevant, its status should be changed to Cancelled<sup>24</sup>. All attributes listed above in diagram are mandatory.

The unique code may never be modified once a Generation or Production Unit has been created. Data representing Generation and Production Units will be effective dated, since in particular Status may change over time.

### 9.9.2 ASSUMPTIONS

Although a Production Unit always has at least one Generation Unit, there is no obligation for Data Providers to register Generation Units with an installed capacity smaller than 100 MW.

<sup>24</sup> This could be useful in a scenario where a project to deploy a Unit is curtailed.

3525 Alignment of Production Type or Status between Production Unit and its Generation Unit(s)  
3526 will not be enforced by the platform.

3527 Data Provider is assumed to be the same for the Production Unit and its Generation Unit(s).

3528 Location is a free text field – guidelines regarding its content to be specified by [3].

3529 Platform will not aggregate installed capacity for generation units.

3530 Platform will not validate installed capacity of production unit against installed capacity of its  
3531 generation units.

### 3532 9.9.3 CREATION OF GENERATION AND PRODUCTION UNITS

3533 Generation and Production Units may be created one by one or several in one go. There shall  
3534 be a webpage to this end, where creation or modification of Generation and Production Units  
3535 will require authentication. Additionally, a machine-to-machine interface shall be available,  
3536 based on EDI mechanism.

3537 Platform administrator in ENTSO-E shall be able to create and modify Generation and  
3538 Production Units on behalf of Data Providers.

3539 When Generation or Production Unit is created, the uniqueness of the Code shall be verified  
3540 by checking that no other Generation or Production Unit on platform with same Code already  
3541 exists.

3542 Note that the assignation of unique Code assumes a manual procedure that is outside the  
3543 scope of the central platform.

3544 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3545 Production Type shall be validated against the list of Production Types [C-GNR-2].

3546 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8]

### 3547 9.9.4 UPDATES TO GENERATION AND PRODUCTION UNITS

3548 The Data Provider associated with the Generation or Production Unit may update the data at  
3549 any time. Code will be used to match updated data to Generation or Production Unit.

3550 Platform shall validate that Generation or Production Unit with quoted Code already exists. If  
3551 not, update will be rejected.

3552 Platform will validate that Data Provider performing update is consistent with the Data Provider  
3553 recorded for the Production Unit.

3554 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].



- 3555 Production Type shall be validated against the list of Production Types [C-GNR-2].
- 3556 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8].
- 3557 Deletions are not foreseen under normal circumstances, but could be performed in exceptional  
3558 situations by platform administrator in ENTSO-E.

## 3559 9.9.5 QUERIES OF REFERENCE DATA FOR GENERATION AND PRODUCTION 3560 UNITS

- 3561 Data on Generation and Production Units shall be made available for visual inspection and  
3562 download via web page.

### 3563 9.9.5.1 FILTERING AND SORTING CRITERIA

- 3564 It shall be possible to search for Generation or Production Unit by using Code as search  
3565 criterion.

- 3566 Also, it shall be possible to retrieve several Generation and Production Units at the same time,  
3567 by specifying the following filtering and sorting criteria:

- 3568 - Country or Bidding Zone: selection is mandatory
- 3569 - Production Type: selection is optional, one or several may be chosen
- 3570 - Status: selection is optional, by default set to Commissioned
- 3571 - Effective Date: selection is optional, one day or from-to range may be chosen. By default the  
3572 current date shall be used

### 3573 9.9.5.2 DISPLAY

- 3574 This data shall be displayed in the following section, accessible to all registered users:

#### 3575 - **Generation / Generation and Production Units**

- 3576 The following attributes of data shall be displayed:

- 3577 - Country or Bidding Zone
- 3578 - Effective Date
- 3579 - List of Production Units, with their Installed Capacity, Production Type, Voltage Connection  
3580 Level, Name, Location, Unique Code and Status.
- 3581 - For each Production Unit, the associated Generation Unit(s) with their Installed Capacity,  
3582 Production Type, Name, Location, Unique Code and Status.

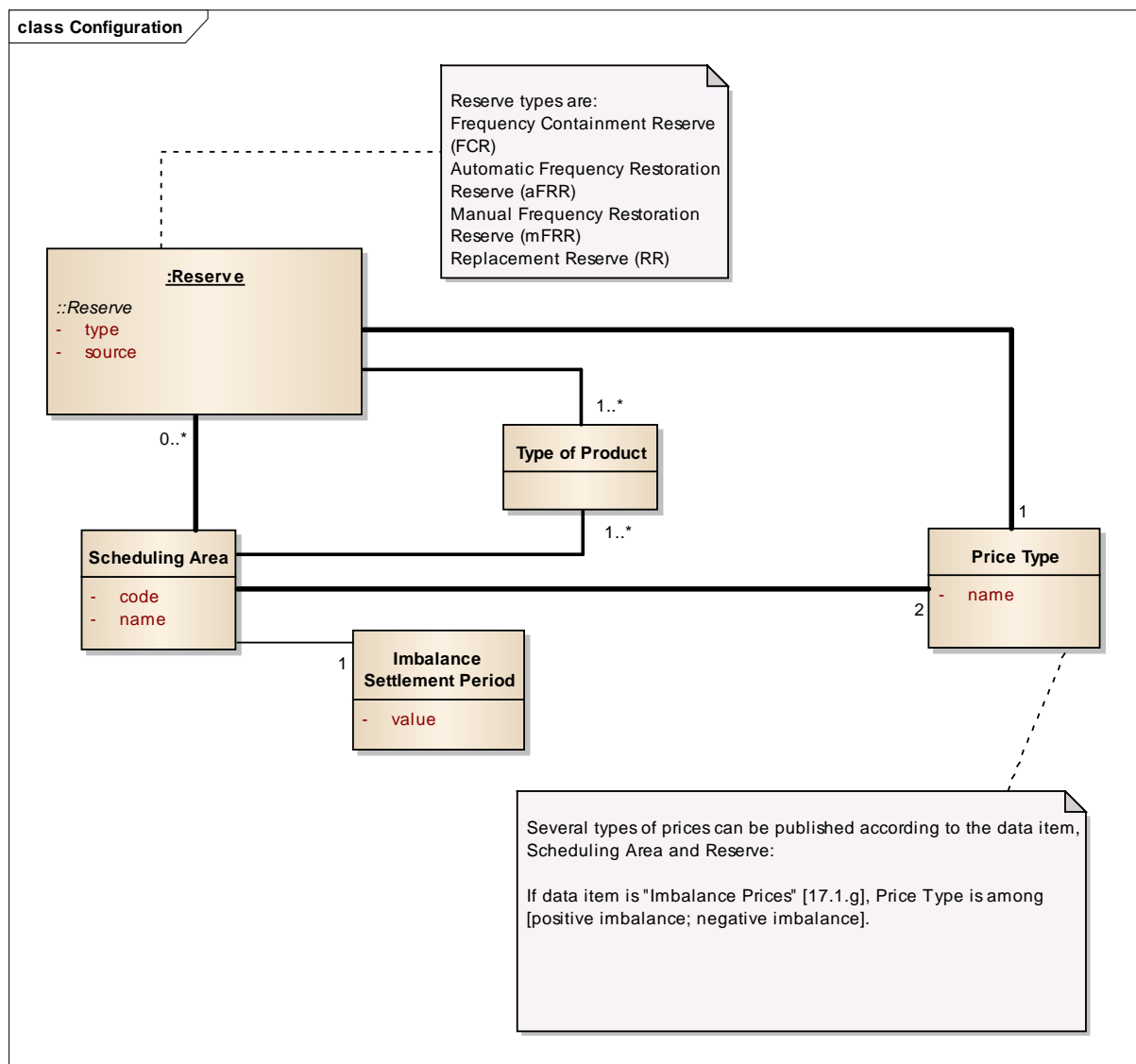
3583 Data shall be displayed in a Table.

## 10 BALANCING

### 10.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 10.1.1 FUNDAMENTAL ENTITIES

The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- Except for “Financial Expenses and Income for Balancing” [17.1.i] which is provided per control area, all information regarding Balancing is by default given per **Scheduling Area**,

3592 however balancing energy prices [17.1.f] and imbalance prices [17.1.g] may in some cases  
3593 be published per imbalance price area and imbalance volume [17.1.h] and current  
3594 balancing state [12.3.a] per imbalance area. For most data items, there is a set of  
3595 applicable Reserves in each Scheduling Area. But in the cases of the data items  
3596 "Imbalance Prices" [17.1.g], "Total Imbalance Volumes" [17.1.h] and "Financial Expenses  
3597 and Income for Balancing" [17.1.i] the Reserves are not relevant.

- 3598 • The **Reserve** is of different **Types**. Reserve may be further differentiated by **source**; load,  
3599 generation or mixed load/generation. However the latter distinction is relevant only for data  
3600 item "Contracted Balancing Reserves" [17.1.b&c]. For mFRR, the reserve type may further  
3601 distinguish between scheduled and direct activation, when applicable.
- 3602 • The **Imbalance Settlement Period (ISP)** is dependent on the Scheduling Area
- 3603 • The **Type of Price** depends on the Scheduling Area and for some data items additionally  
3604 also on the Reserve
- 3605 • For the data item "Imbalance Prices" [17.1.g], the price in question is an imbalance price.
- 3606 • The **Type of Product** depends on the Reserve Type and the Scheduling Area. Initially only  
3607 three types of products are foreseen; Standard, Specific and Local. As the implementation  
3608 of the EB GL progresses, further granularity (i.e. different standard or specific products)  
3609 may be introduced.

## 3610 10.1.2 PRE-CONFIGURATION

- 3611 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
3612 reference data:
- 3613 - [C-BLC-1] a list of Reserves
- 3614 - [C-BLC-3] for each data item a separate list of relevant Scheduling Areas, imbalance areas,  
3615 imbalance price areas or control areas
- 3616 - [C-BLC-4] for select data items, a list of applicable Reserves in each Scheduling Area
- 3617 - [C-BLC-5] a list of Price Types and their dependencies with the data item or combination of  
3618 data item, Scheduling Area and reserve<sup>25</sup>
- 3619 - [C-BLC-6] a list of Imbalance Settlement Periods and their dependencies with the Scheduling  
3620 Area
- 3621 - [C-BLC-8] a list of Contract Types. The same list as for Transmission applies, refer to chapter  
3622 7.1.6
- 3623 - [C-BLC-9] for each Scheduling Area or imbalance price area, the currency

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<sup>25</sup> Dependency on Scheduling Area and reserve is relevant for data item "Prices of Procured Balancing Reserves" [17.1.c] only.

3624 - [C-BLC-11] for each Scheduling Area, imbalance area and imbalance price area, the country  
3625 or list of countries that it covers, to facilitate publication of data per country

3626 - [C-BLC-12] a list of Product Types

### 3627 10.1.3 ASSUMPTIONS

3628 No specific assumptions apply to the data items in the Balancing domain.

### 3629 10.1.4 INTEGRATION

3630 Data Provider shall in one single data submission be able to provide data for a time interval  
3631 longer than one Imbalance Settlement Period. The time interval would in this case necessarily  
3632 be a multiple of the Imbalance Settlement Period. Similarly, for data item Financial Expenses  
3633 and Income for Balancing [17.1.i], the time interval may encompass several months.

### 3634 10.1.5 DATA CONTAINER STATUS / DATA STATUS

3635 All structured data items, with the exception of [17.1.b&c], [12.3.b&c], [12.3.f], 12.3.h] and  
3636 [12.3.i] follow the “none / waiting for publication / published / missing” scheme if properly  
3637 declared as expected and if the submission deadline has been configured.

### 3638 10.1.6 PUBLICATION

3639 For all data items except [12.3.g, 12.3.j-l], data shall be available on web site in both formats;  
3640 table and chart.

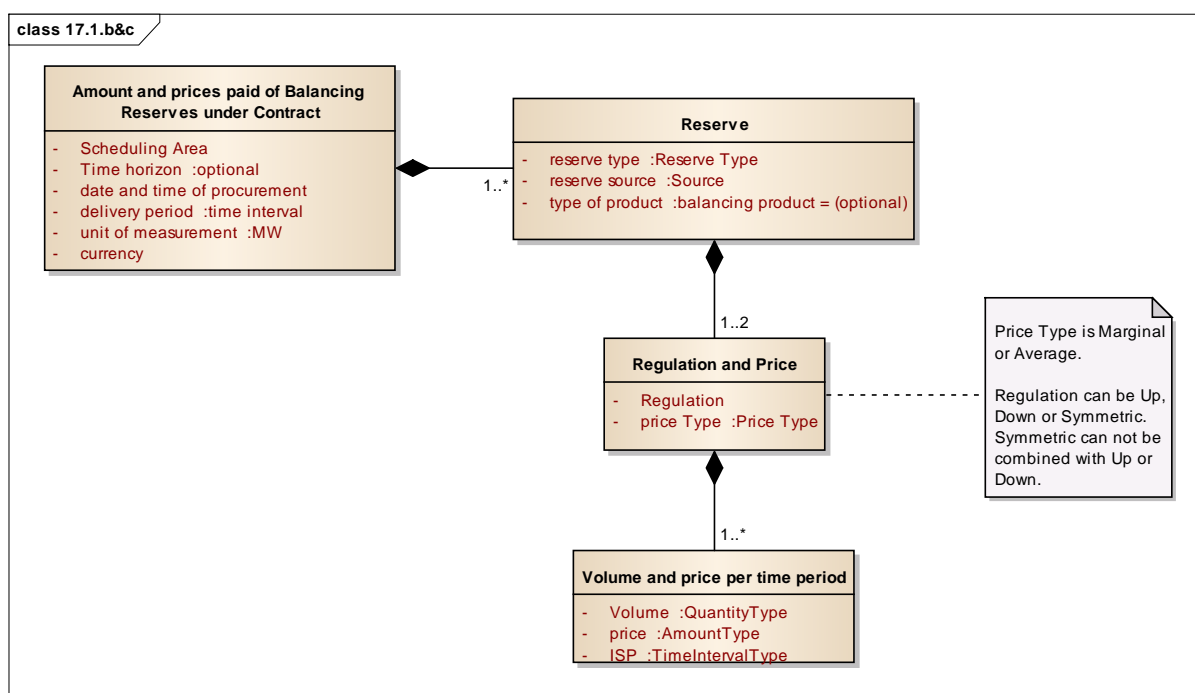
3641

## 10.2 AMOUNT AND PRICES PAID OF BALANCING

### RESERVES UNDER CONTRACT [17.1.B&C]

#### 10.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For this data item, the submitted document shall contain values pertaining to only one Scheduling Area at a time. Not all Reserves have to be submitted in the same document. They could be submitted in separate documents, depending on local process.

This item describes for the applicable Reserves in the considered Scheduling Area and contracted delivery period, the quantity and prices paid of contracted balancing reserves per Regulation in a given fixed measure Unit (MW). For this data item, it is mandatory to qualify Reserve by Source. Date and time of procurement shall be specified.

The following two data consistency rules must be applied by the data provider. The platform will not validate or enforce them:

- 1) Type of product shall be specified when more than one exists in the given scheduling area
- 2) Time horizon is specified when applicable.

Volume and prices are described with resolution equivalent to ISP.

3660 The applicable price type is specified in reference data.

3661 If no volume was contracted for a given Reserve, the Reserve shall not be included in the  
3662 submission.

3663 In case data describing prices and volumes are not available for publication at the same time,  
3664 the prices shall be submitted as an update to the document containing the volumes, or vice  
3665 versa.

## 3666 10.2.2 PRE-CONFIGURATION

3667 - For each applicable Scheduling Area, the unique allowed Data Provider~

3668 - For each applicable scheduling area and reserve, the price type: Average or Marginal

## 3669 10.2.3 INTEGRATION

3670 - The Scheduling Area shall be recognised by the platform

3671 - The Reserve shall be recognised by the platform

3672 - Time horizon and type of product, if provided, shall be recognised by the platform

3673 - The provided Scheduling Area and Reserve shall be associated together with the data item  
3674 [17.1.b&c] in the pre-configuration of reference data, as in [C-BLC-4]

3675 - The Data Provider shall be consistent with the identified Scheduling Area

## 3676 10.2.4 MONITORING

3677 Contracted time intervals and dates and times for procurement processes vary significantly  
3678 among scheduling areas, hence monitoring will not be performed on this data item.

## 3679 10.2.5 PROCESSING

3680 No processing is performed on this data item.

## 3681 10.2.6 DATA CONTAINER STATUS / DATA STATUS

3682 Data follows the "None / Ready for publication" scheme.

## 3683 10.2.7 PUBLICATION

### 3684 10.2.7.1 FILTERING AND SORTING CRITERIA

3685 Data shall be visually accessed by selecting the following:

- 3686 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only
- 3687 those that partially or completely cover the Country)
- 3688 - Scheduling Area (selection is mandatory)
- 3689 - Reserve (selection is optional)
- 3690 - Source (selection is optional)
- 3691 - Time horizon (selection is optional)
- 3692 - Type of product (selection is optional)
- 3693 - Regulation (selection is optional)
- 3694 - Date or date range (selection is mandatory)

#### 3695 10.2.7.2 DISPLAY

3696 This data shall be displayed in the following section:

##### 3697 - **Balancing / Capacity / Volumes and prices of Contracted Reserves**

3698 The following attributes of data shall be displayed:

- 3699 - Title
- 3700 - Scheduling Area name
- 3701 - Selected date or date range
- 3702 - Measurement Unit
- 3703 - Currency
- 3704 - For reserves with contracted delivery period partially or completely within the selected date
- 3705 or date range, the following attributes:
  - 3706 - Reserve Type, Source, price type, Regulation and the contracted delivery period, date
  - 3707 and time of procurement
  - 3708 - If available: Type of product, time horizon
  - 3709 - Contracted volumes and prices with ISP resolution

3710 If volumes and/or prices vary during the contracted delivery period, it shall be possible to

3711 expand the view so that values are displayed as a curve and a table.

3712

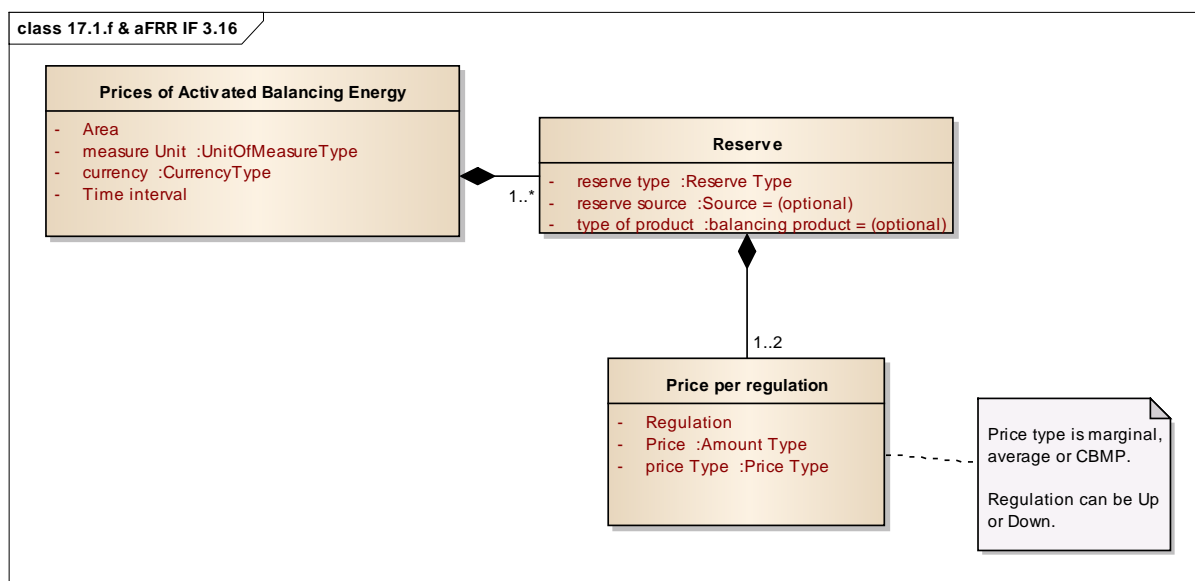
3713



## 10.5 PRICES OF ACTIVATED BALANCING ENERGY [17.1.F] & AFRR CBMPs [AFRR IF 3.16]

### 10.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For this data item, the submitted document shall contain values pertaining to only one area, which may be either a scheduling area or an imbalance price area. For aFRR standard product additionally LFC area may apply.

This item describes for a time interval, by default equal to one ISP, for the applicable Reserves in the considered area, the price of activated balancing energy per Regulation in a given currency and fixed measure Unit (MWh). Price may be positive as well as negative. For aFRR standard product with bids selected for activation centrally by the European platform, a time interval of initially four seconds will be supported.

Source of Reserve and/or Type of Product are optionally included.

If no energy was activated for a given Reserve, no price shall be submitted for that Reserve.

For mFRR standard product, separate prices will be published for scheduled and direct activation, based on reserve type. For aFRR standard product, separate prices will be published for bids selected for activation locally and centrally, respectively, based on reserve type.

## 3733 10.5.2 PRE-CONFIGURATION

- 3734 - For each applicable area and reserve type, the unique allowed Data Provider
- 3735 - For each applicable area, reserve type and optionally also product, the price type
- 3736 - For each applicable area and reserve type, the submission deadline:
- 3737 • For a given ISP, submission must be done at the latest one hour (H+1) after the end of
  - 3738 the ISP.
- 3739 *Example: if the ISP is 30 min for a given Area and Reserve, and the time interval being*
- 3740 *described is January 15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be*
- 3741 *submitted before January 15<sup>th</sup>, 09:30 UTC.*

## 3742 10.5.3 INTEGRATION

- 3743 - The Area shall be recognised by the platform
- 3744 - The Reserve shall be recognised by the platform
- 3745 - If included, the Type of Product shall be recognised by the platform
- 3746 - The provided Area and Reserve shall be associated together with the data item [17.1.f] in the
- 3747 pre-configuration of reference data, as in [C-BLC-4]
- 3748 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple
- 3749 of the ISP, this ISP being identified for the Area as in [C-BLC-6].
- 3750 - The Data Provider shall be consistent with the identified Area and Reserve
- 3751 - Currency shall be consistent with pre-configuration [C-BLC-9]

## 3752 10.5.4 MONITORING

- 3753 For a given Area, the submission deadline described above shall be monitored for each time
- 3754 interval. If a non-zero activated volume was submitted under GL EB article 12.3.e (refer to
- 3755 chapter 10.12), price is expected for the given reserve.
- 3756 For aFRR standard products selected for activation centrally by the European platform, prices
- 3757 with initially four second resolution will be expected for the entire ISP whenever a non-zero
- 3758 activated volume was reported under GL EB article 12.3.e. Due to technical limitations,
- 3759 monitoring is performed per entire ISP also for aFRR standard products.

## 3760 10.5.5 PROCESSING

- 3761 Platform determines Price Type based on Area and Reserve, using pre-configuration [C-BLC-
- 3762 5].

## 3763 10.5.6 PUBLICATION

### 3764 10.5.6.1 FILTERING AND SORTING CRITERIA

3765 Data shall be visually accessed by selecting the following:

3766 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3767 partially or completely cover the Country)

3768 - Area (selection is mandatory)

3769 - Reserve Type (selection is optional)

3770 - Type of Product (selection is optional)

3771 - Day (selection is mandatory)

3772 - Time Window (Start time and end time) (selection is mandatory)

### 3773 10.5.6.2 DISPLAY

3774 This data shall be displayed in the following section:

3775 - **Balancing / Energy / Prices of Activated Balancing Energy**

3776 However for aFRR standard product with bids selected for activation centrally by the European  
3777 platform, data shall be displayed in a dedicated section:

3778 - **Balancing / Energy / CBMPs for aFRR standard product [aFRR IF 3.16]**

3779 The following attributes of data shall be displayed:

3780 - Title

3781 - Area name

3782 - Reserve: Type and Source (if provided)

3783 - Type of Product (if provided)

3784 - ISP for the given Area

3785 - Day

3786 - Measurement Unit

3787 - Currency

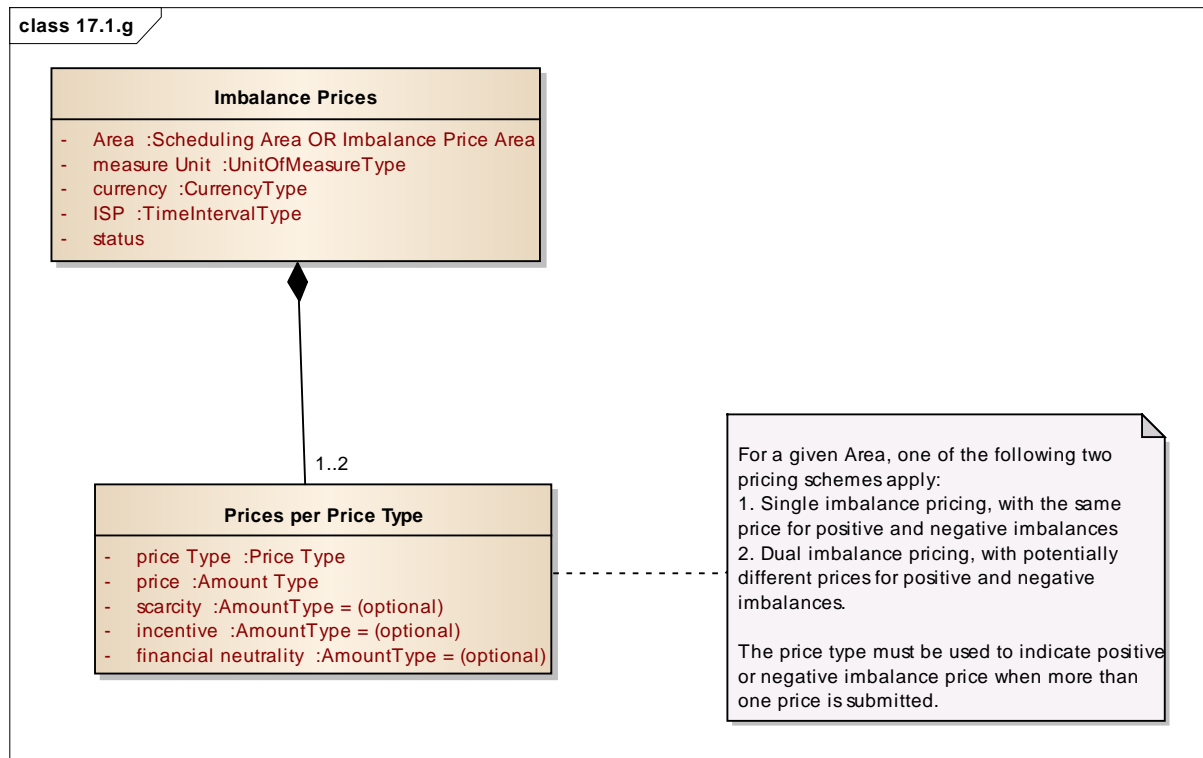
3788 - For each Reserve and product (if provided), the Regulation and Price Type

- 3789 - Prices per ISP within the Time Window, however for aFRR standard product with bids  
3790 selected for activation centrally by the European platform prices are published with four  
3791 seconds resolution
- 3792 For data with four seconds resolution (i.e. aFRR standard product with bids selected for  
3793 activation centrally by the European platform), data shall by default be displayed in a chart.

## 10.6 IMBALANCE PRICES [17.1.G]

### 10.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable area, which may be a scheduling are or an imbalance price area the positive and negative imbalance prices shall be published. For this data item, the submitted document shall contain values pertaining to only one Area.

If the data provider submits a price without distinction between positive and negative imbalance (typically being the case when TSO applies single imbalance pricing), the platform shall publish the same values for positive and negative imbalances.

Optionally, the data provider may supplement the price with one or several of the following three components: Scarcity, incentive and financial neutrality.

For a time interval, equal to one ISP, this publication consists of the imbalance prices (and optionally their components) in a given currency and fixed measure unit (MWh). Prices may be negative, positive or zero. The status of the data (intermediate or final) shall also be indicated.

## 3810 10.6.2 PRE-CONFIGURATION

3811 - For each applicable Area, the unique allowed Data Provider

3812 - For each applicable Area, the submission deadline:

- 3813 • Data shall be submitted as soon as possible. The specific submission deadline will  
3814 depend on Area.

3815 *Example: ISP is 30 min for a given Area where submission deadline is H+2. The time*  
3816 *interval in question is January 15<sup>th</sup> [08:00; 08:30] UTC. Values for this time interval must*  
3817 *be submitted before January 15<sup>th</sup>, 10:30 UTC.*

## 3818 10.6.3 INTEGRATION

3819 - The Area shall be recognised by the platform

3820 - If provided, the Price Types shall be recognised by the platform

3821 - The provided Area shall be associated with the data item [17.1.g] in the pre-configuration of  
3822 reference data, as in [C-BLC-3]

3823 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple  
3824 of the ISP, this ISP being identified for the Area as in [C-BLC-6]

3825 - The Data Provider shall be consistent with the identified Area

3826 - Currency shall be consistent with pre-configuration [C-BLC-9]

## 3827 10.6.4 MONITORING

3828 For a given Area, the submission deadline described above shall be monitored for each time  
3829 interval.

## 3830 10.6.5 PROCESSING

3831 No processing is performed on this data item.

## 3832 10.6.6 PUBLICATION

### 3833 10.6.6.1 FILTERING AND SORTING CRITERIA

3834 Data shall be visually accessed by selecting the following:

- 3835 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3836 partially or completely cover the Country)

- 3837 - Area (selection is mandatory)
- 3838 - Day (selection is mandatory)
- 3839 - Time window within selected day (Start time and end time) (selection is optional)

#### 3840 10.6.6.2 DISPLAY

3841 This data shall be displayed in the following section:

##### 3842 - **Balancing / Imbalance / Imbalance Prices (together with 17.1.h)**

3843 The following attributes of data shall be displayed:

- 3844 - Title
- 3845 - Area name
- 3846 - Day
- 3847 - Measurement Unit
- 3848 - Currency

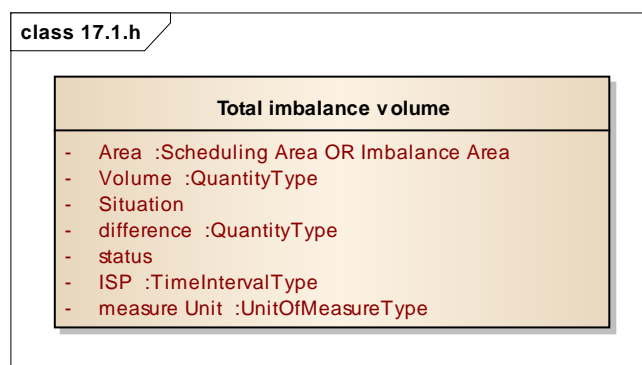
3849 For every ISP within the selected time window and for the selected area:

- 3850 - Status of the data (intermediate or final)
- 3851 - the price separately for positive and negative imbalances
- 3852 - If provided, the component(s) separately for positive and negative imbalances

## 3853 10.7 TOTAL IMBALANCE VOLUME [17.1.H]

### 3854 10.7.1 DATA DESCRIPTION

3855 This item can be described by the following class diagram:



3856  
3857 For each applicable Market Balance Area, there should be a given ISP value. For this data  
3858 item, the submitted document shall contain values pertaining to only one area, which may be  
3859 a scheduling area or an imbalance area.

3860 This item describes for a time interval, equal to one ISP, the total imbalance volume in a given  
3861 fixed measure Unit (MWh). The volume represents either a surplus or a deficit. The difference  
3862 between measured and scheduled flows over all interconnectors shall be published separately.  
3863 The status of the data (Intermediate or final) shall also be indicated. Data shall be submitted  
3864 as absolute values.

3865

### 3866 10.7.2 PRE-CONFIGURATION

3867 - For each applicable area, the unique allowed Data Provider

3868 - For each applicable area, the submission deadline:

- 3869 • For a given time interval, submission must be done at the latest 30 minutes after the
- 3870 end of the time interval.

3871 *Example: if the ISP is 30 min for a given area, and the time interval in question is January*  
3872 *15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be submitted before January 15<sup>th</sup>,*  
3873 *09:00 UTC.*

### 3874 10.7.3 INTEGRATION

3875 - The area shall be recognised by the platform



3876 - The provided area shall be associated together with the data item [17.1.h] in the pre-  
3877 configuration of reference data, as in [C-BLC-3]

3878 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple  
3879 of the ISP, this ISP being identified for the area as in [C-BLC-6]

3880 - The Data Provider shall be consistent with the identified area

#### 3881 10.7.4 MONITORING

3882 For a given area, the submission deadline described above shall be monitored for each time  
3883 interval.

#### 3884 10.7.5 PROCESSING

3885 No processing is performed on this data item.

#### 3886 10.7.6 PUBLICATION

##### 3887 10.7.6.1 FILTERING AND SORTING CRITERIA

3888 Data shall be visually accessed by selecting the following:

3889 - Country (selection is optional: If selected, areas will be filtered to include only those that  
3890 partially or completely cover the Country)

3891 - area (selection is mandatory)

3892 - Day (selection is mandatory)

3893 - Time Window (Start time and end time) (selection is mandatory)

##### 3894 10.7.6.2 DISPLAY

3895 This data shall be displayed in the following section:

3896 - **Balancing / Imbalance** (same section as for “Imbalance prices / 17.1.g”)

3897 The following attributes of data shall be displayed:

3898 - Title

3899 - Area name

3900 - Balancing Time Unit for the given area

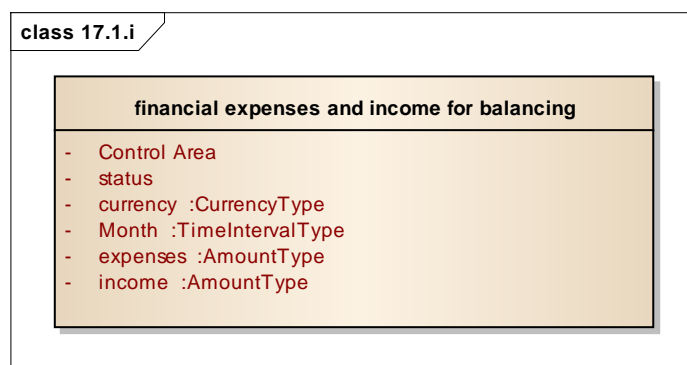
3901 - Day

- 3902 - Measurement Unit (MWh)
- 3903 - Deficit or surplus for each ISP within the Time Window for the given area
- 3904 - Status of data (Intermediate or Final) for each ISP within the Time Window for the given area
- 3905 - The total imbalance volume and difference per ISP within the Time Window for the given area

## 10.8 FINANCIAL EXPENSES AND INCOME FOR BALANCING [17.1.i]

### 10.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Control Area, this item describes for each month the expenses and income, in a given currency, together with a status of this financial information (Intermediate or final).

**Note:** Amounts (whether expense or income) can be both positive and negative.

For this data item, the submitted document shall contain values pertaining to only one Control Area.

### 10.8.2 PRE-CONFIGURATION

- For each applicable Control Area, the unique allowed Data Provider

- For each applicable Control Area, the submission deadline:

- For a given month, submission must be done at the latest at the end of the last calendar day of M+3, where M is the month to which submitted values pertain.

*Example: if the considered month is January 2012, values for this month must be submitted before 30<sup>th</sup> April, 24:00 UTC.*

### 10.8.3 INTEGRATION

- The Control Area shall be recognised by the platform

3926 - The provided Control Area shall be associated with the data item [17.1.i] in the pre-  
3927 configuration of reference data, as in [C-BLC-3]

3928 - The time interval in the submitted document is of one month at least and is necessarily a  
3929 multiple of one month

3930 - The Data Provider shall be consistent with the identified Control Area

3931 - Document is submitted after the end of the month described in the document, reason being  
3932 that this is ex-post data. This validation shall trigger a warning only.

3933 - Currency shall be consistent with pre-configuration [C-BLC-9]

#### 3934 10.8.4 MONITORING

3935 For this item, the monthly submission deadline shall be monitored.

#### 3936 10.8.5 PROCESSING

3937 The following processing is performed by the platform:

3938 - calculate the difference between the expense and the income

#### 3939 10.8.6 PUBLICATION

##### 3940 10.8.6.1 FILTERING AND SORTING CRITERIA

3941 Data shall be visually accessed by selecting the following:

3942 - Country (selection is optional: If selected, Control Areas will be filtered to include only those  
3943 that partially or completely cover the Country)

3944 - Control Area (selection is mandatory)

3945 - Time Window (from one month to a year) (selection is mandatory)

##### 3946 10.8.6.2 DISPLAY

3947 This data shall be displayed in the following section:

3948 - **Balancing / Financial Balance / Financial expenses and income**

3949 The following attributes of data shall be displayed:

3950 - Title

3951 - Control Area name

- 3952 - Time Window
- 3953 - Currency
- 3954 - For each month, the status of data (Intermediate or Final)
- 3955 - For each month, the income
- 3956 - For each month, the expenses
- 3957 - For each month, the calculated difference between the expenses and income

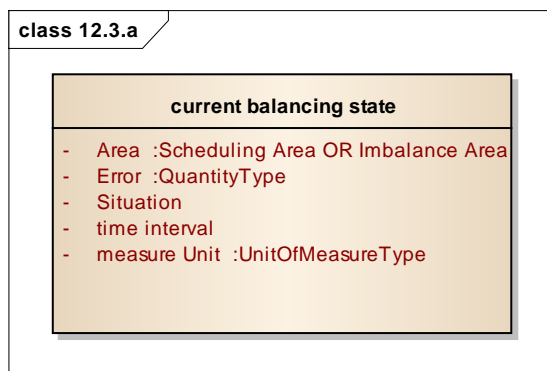
3958

3959

## 10.9 CURRENT BALANCING STATE [GL EB 12.3.A]

### 10.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The submitted document describes for a given area, which may be of type scheduling area, load frequency control area or imbalance area, the open loop control area error, expressed in MW per minute. The volume of this error represents either a surplus or a deficit, as indicated by the Situation attribute. If the system is balanced, a zero volume shall be submitted. Data shall be submitted as absolute values.

### 10.9.2 PRE-CONFIGURATION

- For each applicable area, the unique allowed Data Provider

- For each applicable area, the submission deadline:

- For a given time interval, submission must be done at the latest 30 minutes after the end of the minute being described by the data.

*Example: if the document describes the time interval January 15<sup>th</sup> [08:00; 08:01] UTC, values for this time interval must be submitted before January 15<sup>th</sup>, 08:31 UTC.*

### 10.9.3 INTEGRATION

- The area shall be recognised by the platform

- The provided area shall be associated together with the data item [GL EB 12.3.a] in the pre-configuration of reference data, as in [C-BLC-3]

- The time interval in the submitted document is of one minute at least and is necessarily a multiple of minutes

- The Data Provider shall be consistent with the identified area

## 3983 10.9.4 MONITORING

3984 For a given area, the submission deadline described above shall be monitored for each time  
3985 interval.

## 3986 10.9.5 PROCESSING

3987 No processing is performed on this data item.

## 3988 10.9.6 PUBLICATION

### 3989 10.9.6.1 FILTERING AND SORTING CRITERIA

3990 Data shall be visually accessed by selecting the following:

3991 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3992 partially or completely cover the Country)

3993 - Area (selection is mandatory)

3994 - Day (selection is mandatory)

3995 - Time Window (Start time and end time) (selection is mandatory)

### 3996 10.9.6.2 DISPLAY

3997 This data shall be displayed in the following section:

3998 - **Balancing / Imbalance / Current balancing state**

3999 The following attributes of data shall be displayed:

4000 - Title

4001 - Area

4002 - Day

4003 - Measurement Unit (MW)

4004 - Indicator of deficit or surplus per minute within the Time Window for the given area

4005 - The open loop control area error per minute within the Time Window for the given area



## 4006 10.10 BALANCING ENERGY BIDS [GL EB 12.3.B&C]

### 4007 10.10.1 DATA DESCRIPTION

4008 This data item contains the balancing energy bids for the Scheduling area. The data  
4009 submissions to the central transparency platform shall distinguish the reserve type, the  
4010 direction, the validity and delivery periods, offered volume and price.

4011  
4012 For standard products, it is mandatory to indicate whether the bid is available or  
4013 unavailable. For unavailable bids that were activated locally, it will be possible to declare  
4014 the activation purpose. A free text comment may optionally accompany an unavailable  
4015 bid to provide further explanation and justification.

4016  
4017 For RR standard product bids, the reason for unavailability must be declared. For  
4018 standard product aFRR and mFRR bids, a cross-reference is provided to the detailed  
4019 reason for changes to availability which are published separately.

4020

4021 A complexity indicator will express whether the bid is linked, exclusive or multipart.

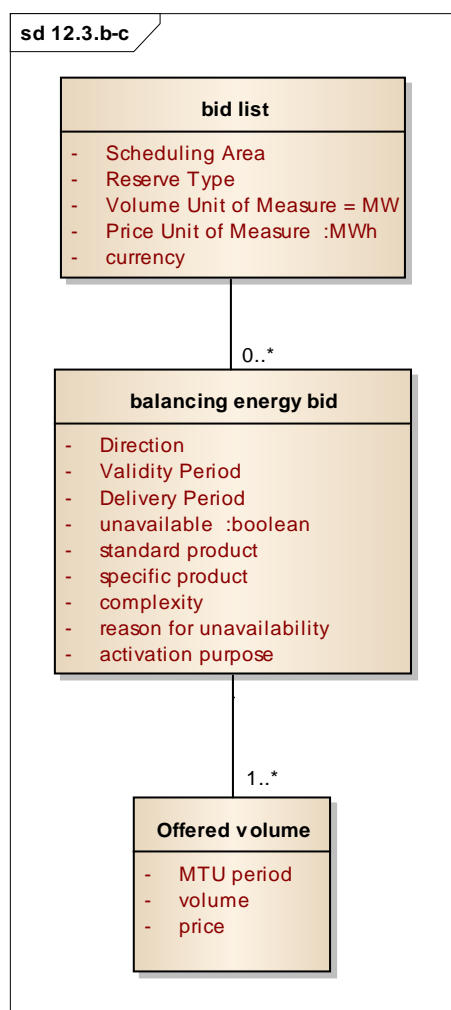
4022 The standard product attribute will be used when the bid refers to a standard product or a  
4023 specific product has been converted into a standard product. The specific product attribute will  
4024 be used when the bid refers to a specific product, when the bid has been converted into a  
4025 standard product or when the bid originates from an integrated scheduling process. The  
4026 specific product attribute shall be used when the bid refers to a local product<sup>26</sup>.

4027

4028

---

<sup>26</sup> Applicable only during the transition period until standard and specific products have been defined as foreseen by EB GL articles 25 and 26



4029

4030 For some scheduling areas and reserve types, the offer price is not available. Hence, the  
4031 central transparency platform shall deem it as an optional attribute.

## 4032 10.10.2 PRE-CONFIGURATION

4033 - For each applicable scheduling area: The applicable reserve types

4034 - For each applicable scheduling area and reserve type: The allowed data providers<sup>27</sup>

## 4035 10.10.3 VALIDATION

4036 - The scheduling area and data provider shall be recognised by the platform

<sup>27</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

- 4037 - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4038 configured reference data
- 4039 - The data provider shall be consistent with the identified scheduling area and reserve type
- 4040 - Only standard product bids may be declared unavailable
- 4041 - Activation purpose may optionally be declared for unavailable bids. If declared, the purpose  
4042 shall be validated.
- 4043 Reason for unavailability is mandatory for RR standard product bids
- 4044 **10.10.4 MONITORING**
- 4045 Gate closure times vary significantly among scheduling areas and reserve types. Further, bids  
4046 are not guaranteed to be submitted, hence monitoring will not be performed on this data item.
- 4047 **10.10.5 PROCESSING**
- 4048 No processing is performed on this data item.
- 4049 **10.10.6 PUBLICATION**
- 4050 **10.10.6.1 FILTERING AND SORTING CRITERIA**
- 4051 Data shall be visually accessed by selecting the following:
- 4052 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4053 those that partially or completely cover the country)
- 4054 - scheduling area (selection is mandatory)
- 4055 - reserve type (selection is mandatory)
- 4056 - date, to be matched against the bids' delivery periods
- 4057 **10.10.6.2 DISPLAY**
- 4058 This data shall be displayed in the following section:
- 4059 - **Balancing / Energy / Bids**
- 4060 The following attributes of data shall be displayed:
- 4061 - scheduling area
- 4062 - reserve type

- 4063 - selected date
- 4064 - unit of measurement
- 4065 - For bids with delivery time interval that fall within the selected date, the following data is
- 4066 displayed:
  - 4067 - validity period
  - 4068 - delivery period
  - 4069 - direction
  - 4070 - offered volumes and prices per MTU period during the delivery period
  - 4071 - standard and/or specific type of product, as applicable
  - 4072 - if applicable, complexity indicator
  - 4073 - Indicator whether the bid is available or unavailable
  - 4074 - Reason for unavailability (when applicable)
  - 4075 - Cross-reference to published detailed reason for changes to bid availability
  - 4076 - Activation purpose (when applicable and available)
  - 4077 - Free text comment (when applicable and available)
- 4078
- 4079

## 4080 10.11 INFORMATION ON CONVERSION INTO STANDARD 4081 PRODUCTS [GL EB 12.3.D]

### 4082 10.11.1 DATA DESCRIPTION

4083 This data item consists of a PDF file per Scheduling Area or Control Area, providing a  
4084 description of how specific products or bids from an integrated scheduling process are  
4085 converted into standard products. This information complements the data published under GL  
4086 EB articles 12.3.b&c. No monitoring will be performed.

### 4087 10.11.2 PRE-CONFIGURATION

4088 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4089 allowed Data Provider per Area for this data item.

### 4090 10.11.3 INTEGRATION

4091 Data Provider shall on the platform's web site, on the same page where these reports are  
4092 published, be able to select an Area, upload a PDF file and indicate the date as of which the  
4093 uploaded document entries into force.

4094 Platform shall validate combination of Area and Data Provider.

### 4095 10.11.4 PUBLICATION

#### 4096 10.11.4.1 PUBLICATION BEHAVIOUR

4097 Documents are published immediately after upload.

4098 All versions shall be published.

#### 4099 10.11.4.2 FILTERING AND SORTING CRITERIA

4100 End user shall be able to select data for display by specifying:

4101 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
4102 partially or completely cover the Country)

4103 - Area (mandatory)

#### 4104 10.11.4.3 DISPLAY

4105 This data shall be displayed in the following section:

4106 **Balancing / Rules and Reports / Information on conversion into standard products**

4107 The following attributes of data shall be displayed:

4108 - Area name

4109 - A link to download each uploaded PDF document

4110 - For each document, the effective date

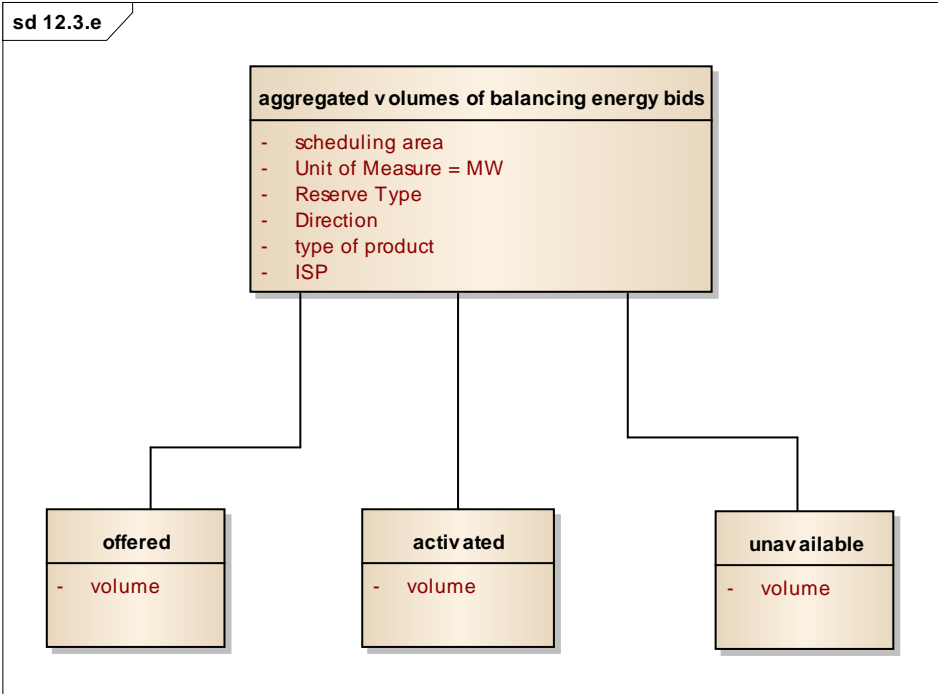
4111

# 10.12 AGGREGATED BALANCING ENERGY BIDS [GL EB 12.3.E]

## 10.12.1 DATA DESCRIPTION

This data item contains the aggregated volumes of activated, offered and unavailable balancing energy, respectively, per scheduling area. The data submissions to the central transparency platform shall distinguish the reserve type, direction, type of product and the ISP.

Offered, activated and unavailable volumes are accounted for separately.



Unavailable volumes are applicable for standard products only.

For reserve type FCR no publication is applicable. For mFRR, separate values of activated volumes will be published for scheduled and direct activation, based on reserve type. For aFRR, separate values of activated volumes will be published for central and local selection of bids, respectively, based on reserve type.

Even when for a given reserve type and scheduling area there was no offered or unavailable volume (and hence no activated volume), the data provider shall still submit a document with zero values, indicating the ISP. Purpose is to enable effective monitoring of the data item.

## 4130 10.12.2 PRE-CONFIGURATION

- 4131 - For each applicable scheduling area: The applicable reserve types
- 4132 - For each applicable scheduling area and reserve type: The allowed data providers<sup>28</sup>
- 4133 - The submission deadline: 30 minutes after every ISP

## 4134 10.12.3 VALIDATION

- 4135 - The scheduling area and data provider shall be recognised by the platform
- 4136 - The provided scheduling area and reserve type shall be consistent with the platform's pre-
- 4137 configured reference data
- 4138 - The data provider shall be consistent with the identified scheduling area

## 4139 10.12.4 MONITORING

- 4140 For every applicable combination of scheduling area, reserve type and type of product, the
- 4141 designated data provider shall submit a document for every ISP.

## 4142 10.12.5 PROCESSING

- 4143 Platform shall for every scheduling area, direction and ISP aggregate totals separately for
- 4144 standard and specific products by summing up the values for all reserve types taken together.
- 4145 Platform shall for every scheduling area, reserve type, direction and ISP aggregate totals for
- 4146 offered and activated volumes, by summing up the values provided per type of product.
- 4147 Platform shall aggregate the grand totals for all reserve types taken together, summing up for
- 4148 every scheduling area, direction and ISP the offered, activated and unavailable volumes.

## 4149 10.12.6 PUBLICATION

### 4150 10.12.6.1 FILTERING AND SORTING CRITERIA

- 4151 Data shall be visually accessed by selecting the following:
- 4152 - Country (selection is optional: If selected, scheduling areas will be filtered to include only
- 4153 those that partially or completely cover the country)

---

<sup>28</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.



4154 - scheduling area (selection is mandatory)

4155 - date (selection is mandatory)

4156 - reserve type (selection is optional)

4157 - direction (selection is optional)

## 4158 10.12.6.2 DISPLAY

4159 This data shall be displayed in the following section:

4160 - **Balancing / Energy / Aggregated bids**

4161 The following attributes of data shall be displayed:

4162 -- scheduling area

4163 - selected date

4164 - unit of measurement (MW)

4165 - For all ISP during the selected day, the following data is displayed:

4166 - offered, activated and unavailable volumes per direction

4167 - offered and activated volumes for standard, specific and local products per direction,  
4168 respectively

4169 - offered, activated and unavailable volumes per reserve type and direction

4170 - offered and activated volumes for standard and specific products per direction and reserve  
4171 type, respectively

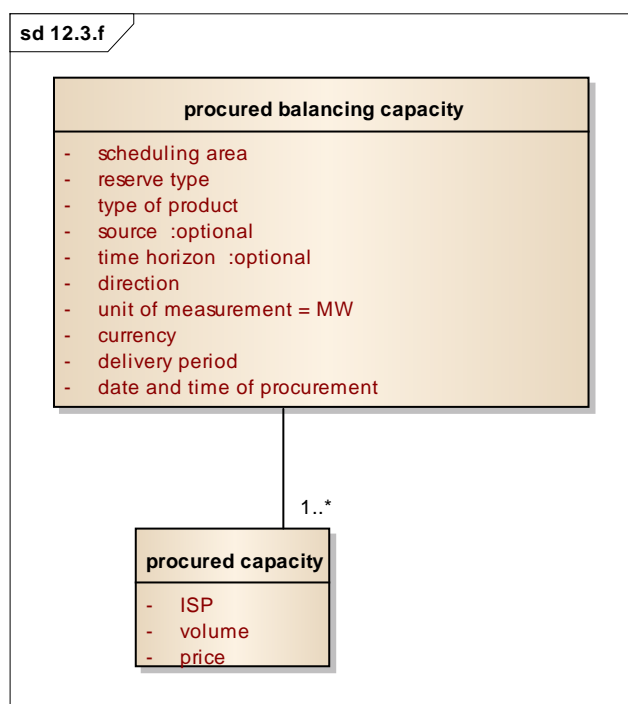
4172

4173

## 4174 10.13 PROCURED BALANCING CAPACITY [GL EB 12.3.F]

### 4175 10.13.1 DATA DESCRIPTION

4176 This data item contains the procured balancing capacity per scheduling area. For every  
4177 accepted bid, data provider shall submit to the central transparency platform the reserve  
4178 type, type of product, delivery period and direction. Source may optionally be included as  
4179 well. When applicable, time horizon may be specified. Date and time of procurement shall be  
4180 specified. Offered volume and price are provided for every ISP of the delivery period.



4181  
4182 Type of Product shall at least distinguish between standard, specific and local products.

4183 Assumptions:

- 4184 - Data describes individual, accepted bids/offers. Data provider does not perform any
- 4185 aggregation.

4186

### 4187 10.13.2 PRE-CONFIGURATION

4188 - For each applicable scheduling area: The applicable reserve types

4189 - For each applicable scheduling area and reserve type: The single allowed data provider

### 4190 10.13.3 VALIDATION

- 4191 - The scheduling area and data provider shall be recognised by the platform
- 4192 - The provided scheduling area and reserve type shall be consistent with the platform's pre-
- 4193 configured reference data
- 4194 - The data provider shall be consistent with the identified scheduling area

### 4195 10.13.4 MONITORING

- 4196 Dates and times for procurement processes vary significantly among scheduling areas and
- 4197 there is no guarantee that bids will be accepted, hence monitoring will not be performed on
- 4198 this data item.

### 4199 10.13.5 PROCESSING

- 4200 Not applicable.

### 4201 10.13.6 PUBLICATION

#### 4202 10.13.6.1 FILTERING AND SORTING CRITERIA

- 4203 Data shall be visually accessed by selecting the following:
- 4204 - Country (selection is optional: If selected, scheduling areas will be filtered to include only
- 4205 those that partially or completely cover the country)
- 4206 - scheduling area (selection is mandatory)
- 4207 - date or date range (selection is mandatory)
- 4208 - reserve type (selection is optional)
- 4209 - type of product (selection is optional)
- 4210 - source (selection is optional)
- 4211 - time horizon (selection is optional)
- 4212 - direction (selection is optional)

#### 4213 10.13.6.2 DISPLAY

- 4214 This data shall be displayed in the following section:
- 4215 - **Balancing / Capacity / Procured bids**

- 4216 The following attributes of data shall be displayed:
- 4217 - scheduling area
- 4218 - reserve type
- 4219 - unit of measurement (MW) for capacity
- 4220 - unit of measurement (currency/MW/ISP) for prices
- 4221 - For all procured capacity offers whose delivery periods partially or completely fall within the  
4222 select date or date range, the following data is displayed:
- 4223 - type of product
- 4224 - source (if available)
- 4225 - direction
- 4226 - time horizon (if available)
- 4227 - date and time of procurement
- 4228 - delivery period
- 4229 - offered capacity and price per ISP

## 4230 10.14 TERMS AND CONDITIONS [GL EB 12.3.G]

### 4231 10.14.1 DATA DESCRIPTION

4232 This data item consists of a PDF file per Control Area or load frequency control area (consisting  
4233 of two or more control areas). No monitoring will be performed.

4234 Note: Published document also covers the requirements of TR article 17.1.a.

### 4235 10.14.2 PRE-CONFIGURATION

4236 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4237 allowed Data Provider per Area for this data item.

### 4238 10.14.3 INTEGRATION

4239 Data Provider shall on the platform's web site, on the same page where these reports are  
4240 published, be able to select a Area, upload a PDF file and indicate the date as of which the  
4241 uploaded document entries into force.

4242 Platform shall validate combination of Area and Data Provider.

### 4243 10.14.4 PUBLICATION

#### 4244 10.14.4.1 PUBLICATION BEHAVIOUR

4245 Documents are published immediately after upload.

4246 All versions shall be published.

#### 4247 10.14.4.2 FILTERING AND SORTING CRITERIA

4248 End user shall be able to select data for display by specifying:

4249 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
4250 partially or completely cover the Country)

4251 - Area (mandatory)

#### 4252 10.14.4.3 DISPLAY

4253 This data shall be displayed in the following section:

4254 **Balancing / Rules and reports / Terms and conditions**

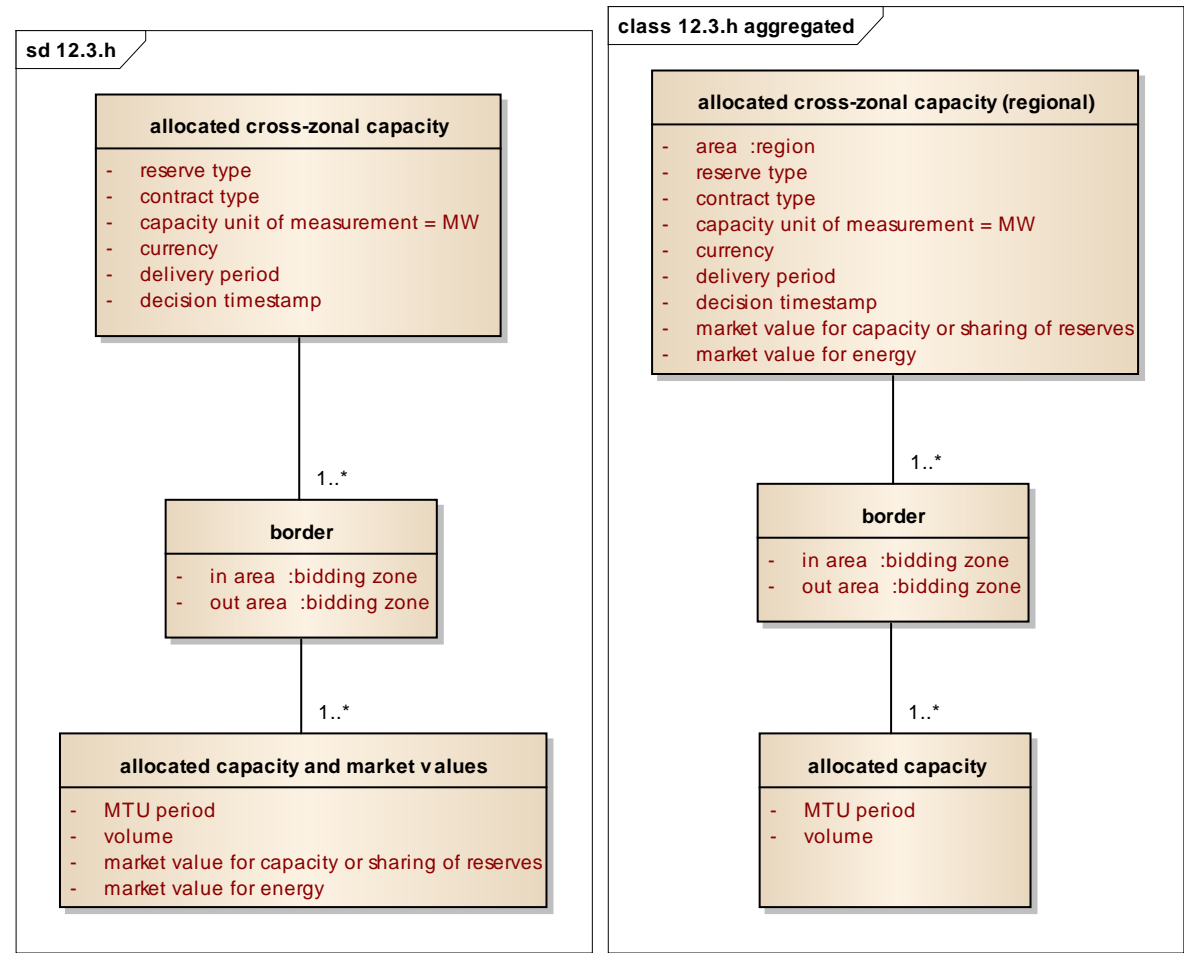
- 4255 The following attributes of data shall be displayed:
- 4256 - Area name
- 4257 - A link to download each uploaded PDF document
- 4258 - For each document, the date of entry into force
- 4259

# 10.15 ALLOCATED CROSS-ZONAL BALANCING CAPACITY

## [GL EB 12.3.H]

### 10.15.1 DATA DESCRIPTION

This data item describes the allocation of cross-zonal balancing capacity per border. The data submissions to the central transparency platform shall indicate the In and Out bidding zones (or technical profile), reserve type, contract type, delivery period and the date and time when the allocation decision was taken. The allocated capacity volume is provided per MTU period.



Depending on the applicable allocation mechanism, the market values may either be provided as a time series per direction across a border or as single values for the entire region and delivery period.

Contact type may be long-term, week-ahead or day-ahead. Capacity is expressed in MW. Market values are expressed in currency.

4274 As a transitory measure, until the prescribed methodologies have been fully implemented, a  
4275 single market value per MTU period may be submitted and published. Refer to  
4276 implementation guide [13] for details.

4277 Note: The allocations described in this data item are the same as the ones covered by GL  
4278 EB article 12.3.i.

## 4279 10.15.2 PRE-CONFIGURATION

4280 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

## 4281 10.15.3 VALIDATION

4282 - The In and Out bidding zones and data provider shall be recognised by the platform

4283 - The In and Out bidding zones, reserve type and data provider shall be consistent with the  
4284 platform's pre-configured reference data

4285 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured  
4286 reference data

## 4287 10.15.4 MONITORING

4288 Timelines of allocation processes may vary significantly depending on border and contract  
4289 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will  
4290 be performed.

## 4291 10.15.5 PROCESSING

4292 No aggregation or other processing is performed on the central transparency platform.

## 4293 10.15.6 PUBLICATION

### 4294 10.15.6.1 FILTERING AND SORTING CRITERIA

4295 Data shall be visually accessed by selecting the following:

4296 - Country (selection is optional: If selected, bidding zones or region will be filtered to include  
4297 only those that partially or completely cover the country)

4298 - In and Out bidding zones (selection is mandatory)

4299 - Reserve type (selection is mandatory)

4300 - Date or date range (selection is mandatory)

4301 - Contract type (selection is mandatory)



## 4302 10.15.6.2 DISPLAY

4303 This data shall be displayed in the following section:

4304 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL  
4305 EB article 12.1.i)

4306 The following attributes of data shall be displayed:

4307 - In and Out bidding zones

4308 - Region, if applicable

4309 - Reserve type

4310 - unit of measurements: MW and currency

4311 - contract type

4312 - For all allocations whose delivery periods fall, entirely or partially, within the selected date or  
4313 date range, the following data is displayed:

4314 - delivery period

4315 - date and time of allocation decision

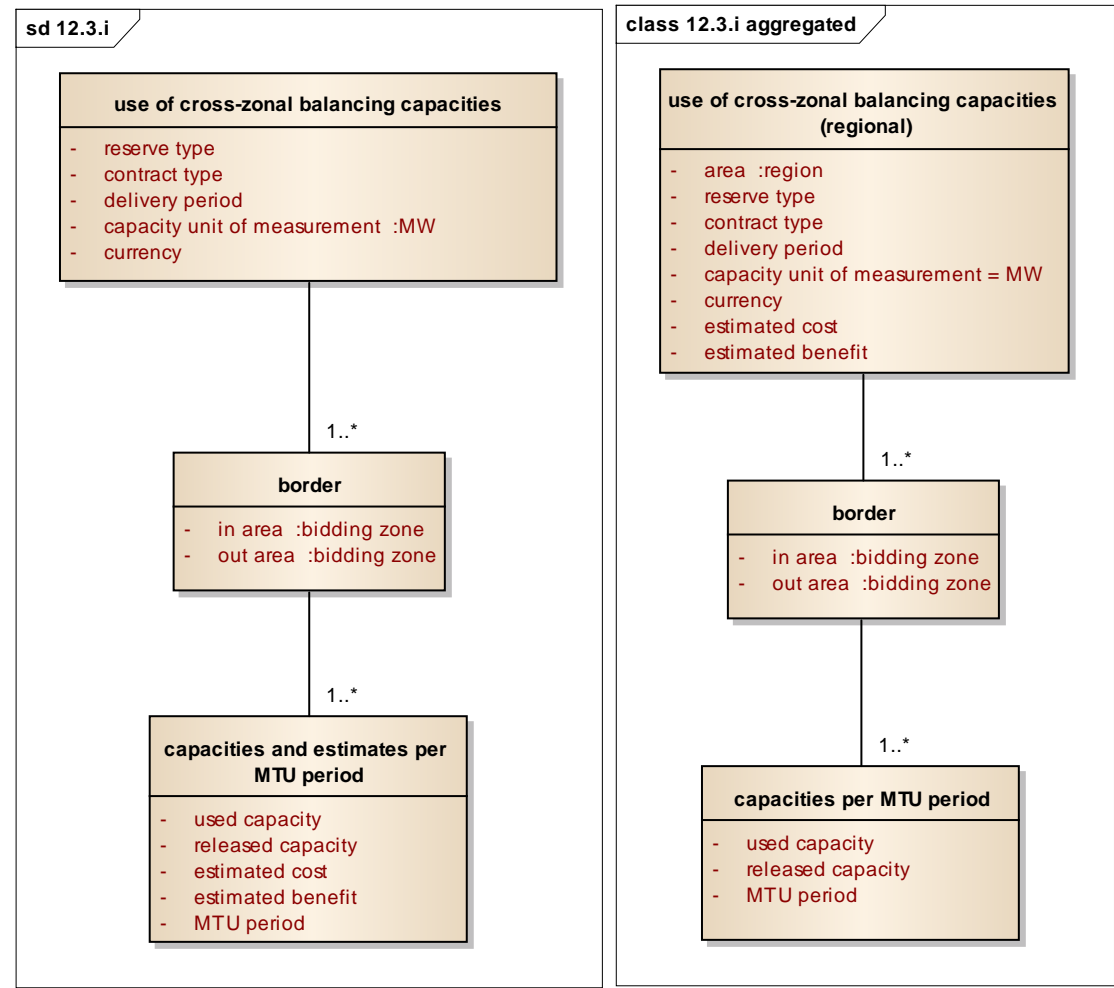
4316 - allocated capacity volume per MTU period

4317 - market values per MTU period and direction across borders or as single values for the  
4318 entire region and delivery period

# 10.16 USE OF ALLOCATED CROSS-ZONAL BALANCING CAPACITY [GL EB 12.3.i]

## 10.16.1 DATA DESCRIPTION

This data item describes the use of cross-zonal balancing capacity per border. The data submissions to the central transparency platform shall indicate the In and Out bidding zones (or technical profile), reserve type, contract type and delivery period of the allocation process.



Contract type may be long-term, week-ahead or day-ahead.

Volumes of used and released capacities are provided with MTU resolution for the whole delivery period.

4329 Depending on the applicable allocation mechanism, the estimated costs and benefits may  
4330 either be provided as a time series per direction across a border or as single values for the  
4331 entire region and delivery period.

4332 Note: The allocations described in this data item are the same as the ones covered by GL EB  
4333 article 12.3.h. Data required under this GL EB article 12.3.i shall be submitted as an update to  
4334 the document containing the allocated capacity, previously submitted under GL EB article  
4335 12.3.h.

## 4336 10.16.2 PRE-CONFIGURATION

4337 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

## 4338 10.16.3 VALIDATION

4339 - The In and Out bidding zones and data provider shall be recognised by the platform

4340 - The bidding zone couple, reserve type and data provider shall be consistent with the  
4341 platform's pre-configured reference data

4342 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured  
4343 reference data

## 4344 10.16.4 MONITORING

4345 Timelines of allocation processes may vary significantly depending on border and contract  
4346 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will  
4347 be performed.

## 4348 10.16.5 PROCESSING

4349 No aggregation or other processing is performed on the central transparency platform.

## 4350 10.16.6 PUBLICATION

### 4351 10.16.6.1 FILTERING AND SORTING CRITERIA

4352 Data shall be visually accessed by selecting the following:

4353 - Country (selection is optional: If selected, region or bidding zones will be filtered to include  
4354 only those that partially or completely cover the country)

4355 - In and Out bidding zones (selection is mandatory)

4356 - reserve type (selection is mandatory)

4357 - date or date range (selection is mandatory)

4358 - contract type (selection is mandatory)

## 4359 10.16.6.2 DISPLAY

4360 This data shall be displayed in the following section:

4361 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL  
4362 EB article 12.3.h)

4363 The following attributes of data shall be displayed:

4364 - In and Out bidding zones

4365 - Region, if applicable

4366 - reserve type

4367 - unit of measurements: MW and currency

4368 - contract type

4369 - For all allocations whose delivery period fall, entirely or partially, within the selected date or  
4370 date range, the following data is displayed:

4371 - contract type

4372 - delivery period

4373 - volumes of used and released capacity per MTU period during the delivery period

4374 - estimated realised costs and benefits per MTU period and direction across borders or  
4375 as single values for the entire region and delivery period

4376

## 4377 10.17 APPROVED METHODOLOGIES [GL EB 12.3.J]

### 4378 10.17.1 DATA DESCRIPTION

4379 This data item consists of a PDF file per Region. No monitoring will be performed.

### 4380 10.17.2 PRE-CONFIGURATION

4381 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4382 allowed Data Provider per Region for this data item.

### 4383 10.17.3 INTEGRATION

4384 Data Provider shall on the platform's web site, on the same page where these reports are  
4385 published, be able to select a Region, upload a PDF file and indicate the date as of which the  
4386 uploaded document entries into force.

4387 Platform shall validate combination of Region and Data Provider.

### 4388 10.17.4 PUBLICATION

#### 4389 10.17.4.1 PUBLICATION BEHAVIOUR

4390 Documents are published immediately after upload.

4391 All versions shall be published.

#### 4392 10.17.4.2 FILTERING AND SORTING CRITERIA

4393 End user shall be able to select data for display by specifying:

4394 - Country (selection is optional: If selected, Regions will be filtered to include only those that  
4395 partially or completely cover the Country)

4396 - Region (mandatory)

#### 4397 10.17.4.3 DISPLAY

4398 This data shall be displayed in the following section:

4399 **Balancing / Rules and Reports / Approved methodologies**

4400 The following attributes of data shall be displayed:

4401 - Region name

- 4402 - A link to download each uploaded PDF document
- 4403 - For each document, the date of entry into force
- 4404

## 4405 10.18 ALGORITHM [GL EB 12.3.K]

### 4406 10.18.1 DATA DESCRIPTION

4407 This data item consists of a PDF file per process (RR, mFRR, aFRR, IN). No monitoring will  
4408 be performed.

### 4409 10.18.2 PRE-CONFIGURATION

4410 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4411 allowed Data Provider per reserve type for this data item.

### 4412 10.18.3 INTEGRATION

4413 Data Provider shall on the platform's web site, on the same page where these reports are  
4414 published, be able to select a reserve type, upload a PDF file and indicate the date as of  
4415 which the uploaded document entries into force.

4416 Platform shall validate combination of reserve type and Data Provider.

### 4417 10.18.4 PUBLICATION

#### 4418 10.18.4.1 PUBLICATION BEHAVIOUR

4419 Documents are published immediately after upload.

4420 All versions shall be published.

#### 4421 10.18.4.2 FILTERING AND SORTING CRITERIA

4422 End user shall be able to select data for display by specifying:

4423 - Process type (mandatory)

4424

#### 4425 10.18.4.3 DISPLAY

4426 This data shall be displayed in the following section:

4427 **Balancing / Rules and reports / Algorithm**

4428 The following attributes of data shall be displayed:

4429 - Process type

- 4430 - A link to download each uploaded PDF document
- 4431 - For each document, the date of entry into force
- 4432



## 4433 10.19 COMMON ANNUAL REPORT [GL EB 12.3.L]

### 4434 10.19.1 DATA DESCRIPTION

4435 This data item consists of a PDF file per year. No monitoring will be performed.

### 4436 10.19.2 PRE-CONFIGURATION

4437 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4438 allowed Data Provider: ENTSO-E.

### 4439 10.19.3 INTEGRATION

4440 Data Provider shall on the platform's web site, on the same page where these reports are  
4441 published, be able to upload a PDF file and indicate the year that the uploaded document  
4442 refers to.

### 4443 10.19.4 PUBLICATION

#### 4444 10.19.4.1 PUBLICATION BEHAVIOUR

4445 Documents are published immediately after upload.

4446 All versions shall be published.

#### 4447 10.19.4.2 FILTERING AND SORTING CRITERIA

4448 End user shall be able to select data for display by specifying:

4449 - Year (optional)

#### 4450 10.19.4.3 DISPLAY

4451 This data shall be displayed in the following section:

4452 **Balancing / Rules and reports / Common annual report**

4453 The following attributes of data shall be displayed:

4454 - A link to download each uploaded PDF document

4455 - For each document, the year it refers to

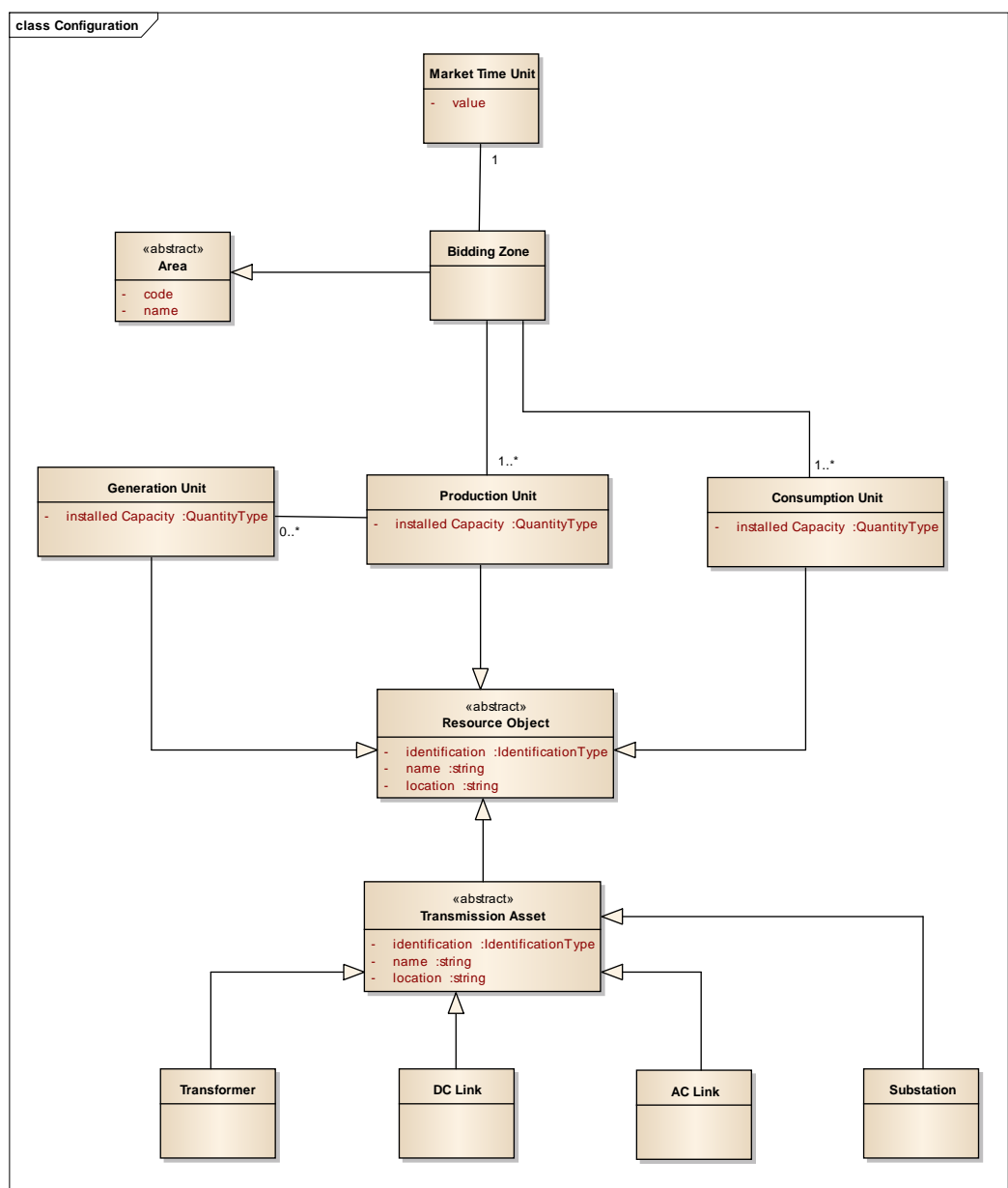
4456

# 11 OUTAGES

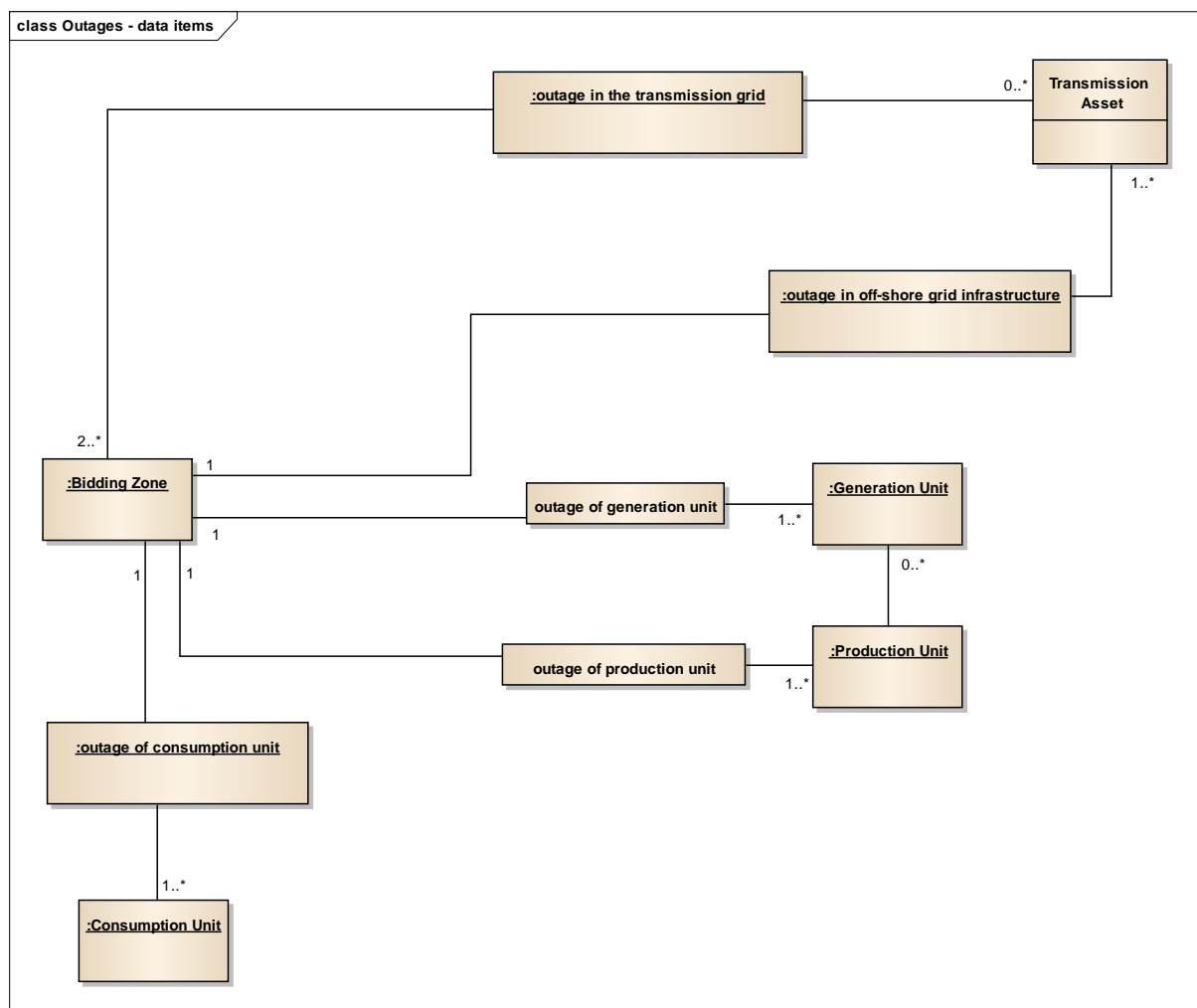
## 11.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

### 11.1.1 FUNDAMENTAL ENTITIES

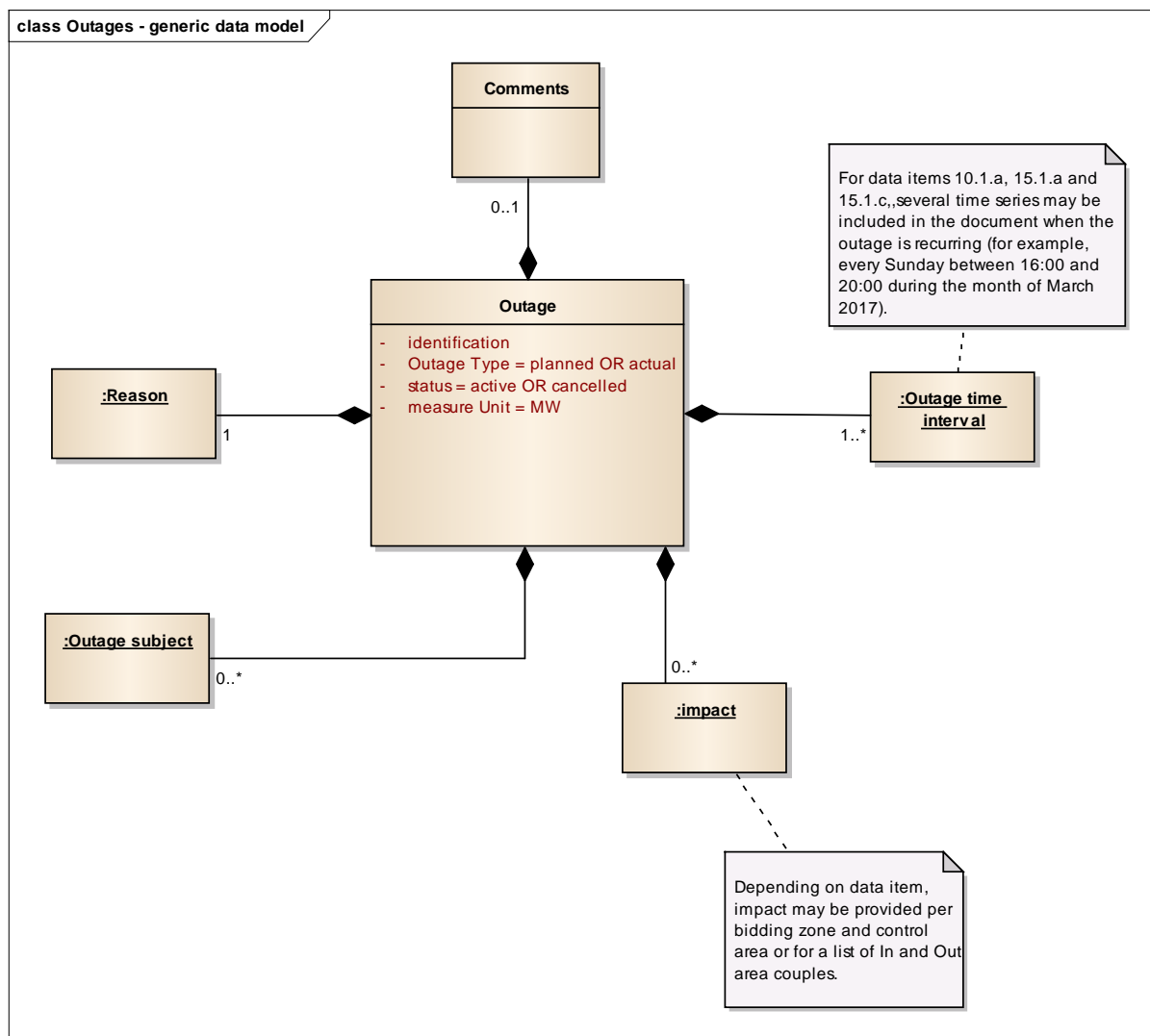
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 4463 • For a given Bidding Zone, there is a Market Time Unit
- 4464 • There are four types of assets subject to outages: Transmission Assets, Generation Units,
- 4465 Production Units and Consumption Units. They are special types of Resource Objects
- 4466 • All assets have an identification a name and a location
- 4467 • A Transmission Asset can be a Transformer, a Substation, a DC Link or an AC Link
- 4468 • A Generation or Production Unit has a Production Type and an Installed Capacity and sits
- 4469 in a given Bidding Zone. Generation and Production Units are described in chapter 9.9
- 4470 • A Consumption Unit sits in a given Bidding Zone



- 4471
- 4472 The submitted document shall contain one Outage only, which may be recurring. The following
- 4473 generic data model is suggested:



4474

## 4475 11.1.2 PRE-CONFIGURATION

4476 The ENTSO-E platform administrator shall pre-configure the following data, before collecting  
4477 information, for the purpose of validation:

4478 - [C-OTG-1] a list of Areas. Areas may be Bidding Zones and Bidding Zone Aggregations.  
4479 The list of Bidding Zones is the same as for Generation, Load and Transmission domains.  
4480 The Bidding Zone Aggregations are the same as for Transmission domain.

4481 - [C-OTG-8] for each Bidding Zone and Control Area, the allowed Data Provider, identified by  
4482 a unique code. If need be, additionally the granularity of data item could be applied. This  
4483 reference data is used also for the data items in the Load and Generation domains.

4484 - [C-OTG-2] values of Market Time Unit for a given Bidding Zone. This reference data is the  
4485 same as for Generation, Load and Transmission domains.

4486 - [C-OTG-6] a list of In and Out Area couples. The In and Out Area couples are also used in  
4487 the Transmission domain<sup>29</sup>.

4488 - [C-OTG-7] for each In and Out Area couples, the allowed Data Providers, identified by  
4489 unique codes.

4490 - [C-OTG-9] a list of countries and for each country, the corresponding Control Area(s). This  
4491 is the same reference data as in Generation and Load domains. It will be used to facilitate  
4492 search and filtering of published data by country and to aggregate capacity values for  
4493 Outages of Consumption Units.

4494 - [C-OTG-10] for each Bidding Zone the country or countries that it covers. This is the same  
4495 reference data as in Load domain. It will be used to facilitate search and filtering of published  
4496 data by country.

4497 Data Providers shall record the following pre-configuration on the platform for the purpose of  
4498 validation of submitted information:

4499 - [C-OTG-3] a list of Generation and Production Units in a given Bidding Zone, with their  
4500 characteristics, refer to chapter 9.9 for details. This is the same reference data as for the  
4501 Generation domain.

4502 - [C-OTG-4] a list of Consumption Units in a given Bidding Zone, with their characteristics.  
4503 Refer to chapter 11.12 for further details.

4504 - [C-OTG-5] a list of Transmission Assets (Transformer, Substation, DC Link or AC Link) with  
4505 their characteristics. Refer to chapter 11.11 for further details. This is the same reference  
4506 data as for the Transmission domain.

4507 - [C-OTG-11] a list of Reasons for Outages: Maintenance, Failure, Shutdown and Other.

### 4508 11.1.3 ASSUMPTIONS

4509 Data can be submitted for correction or update at any time, even after the end of the  
4510 outage/unavailability.

4511 Planned unavailability can be cancelled at any time.

4512 The frequency of submission is not fixed.

4513 No monitoring is performed. For this data domain, submission deadlines are irrelevant to the  
4514 platform.

---

<sup>29</sup> Technical Profiles (where one of the Areas is a Bidding Zone Aggregation) constitute a subset of this list.

#### 4515 11.1.4 INTEGRATION

4516 A change in actual availability cannot be transformed into a planned unavailability, and vice  
4517 versa. A change in actual availability remains until the affected asset becomes  
4518 available/operational.

4519 Planned unavailability may be cancelled, which is reflected as a status update. This is not  
4520 permitted for changes in actual unavailability though. If a document has been submitted by  
4521 mistake it may be withdrawn/revoked as outlined in chapter 5.1.2.

4522 Reason "Failure" is permitted for changes in actual availability only. Reason "Shutdown" is  
4523 permitted for planned unavailability and changes in actual availability of Consumption,  
4524 Production and Generation Units.

4525 ENTSO-E administrator may suppress all warnings triggered during validation by changing  
4526 configuration.

4527

#### 4528 11.1.5 PUBLICATION RULES

4529 Data items are displayed in table format only.

4530 Latest version of outage will be displayed. Previous versions will be available online, for  
4531 example by expanding the view. If there is more than one version of the document, i.e. an  
4532 update has been submitted, all versions shall be available with clear indication of version  
4533 number.

4534 Submission date and time of each version will be available online, for example by expanding  
4535 the view.

#### 4536 11.1.6 DATA CONTAINER STATUS / DATA STATUS

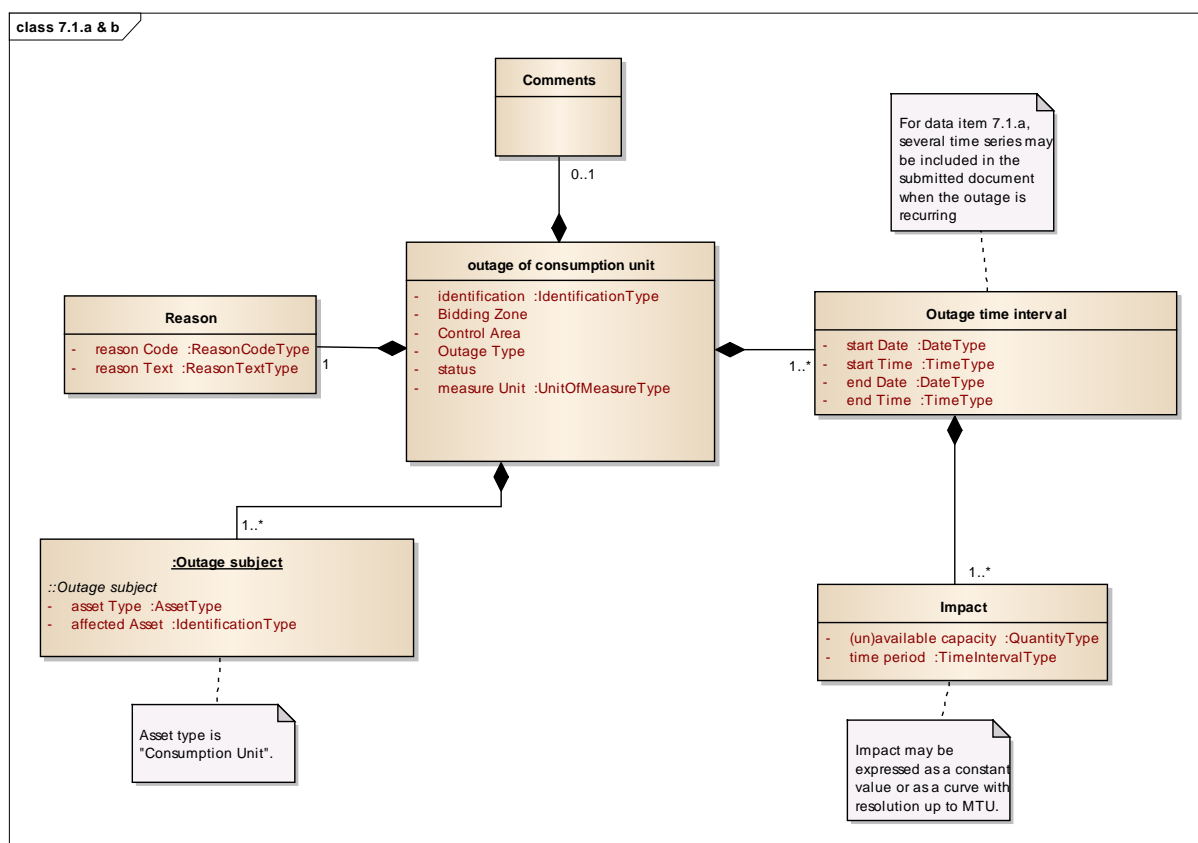
4537 All data follows the "none / ready for publication" scheme.

4538

## 11.2 PLANNED UNAVAILABILITY OF CONSUMPTION UNITS

### [7.1.A]

#### 11.2.1 DATA DESCRIPTION



A planned unavailability on consumption unit is described by the following:

- An identification of the outage, having a status (active or cancelled)
- Bidding Zone and Control Area
- The outage subject, defined by the asset Type (Consumption Unit) and its unique code
- The estimated unavailability time interval
- For each outage subject, the available or unavailable consumption capacity in Measure Unit
- The reason for the planned unavailability
- Optionally, a free-text comment may be provided
- Measure Unit is fixed to megawatt (MW)

4552 - Type of outage is “planned”

## 4553 11.2.2 PRE-CONFIGURATION

4554 For each data provider, an indicator whether available or unavailable capacity is being  
4555 submitted.

## 4556 11.2.3 ASSUMPTIONS

4557 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4558 For a given unavailability, there will be only one Data Provider.

4559 Platform shall calculate unavailable capacity in bidding zone per market time unit, based on  
4560 the submitted available or unavailable capacity values.

4561 Available or unavailable consumption capacity may vary during the outage time interval.

## 4562 11.2.4 INTEGRATION

4563 - The outage subject (asset) described in the document shall be recognised by the platform

4564 - Data Provider shall be consistent with the identified outage subject.

4565 - The Bidding Zone and Control Area described in the document shall be recognised by the  
4566 platform

4567 - Data Provider shall be consistent with the identified Bidding Zone and Control Area

4568 - For a given consumption unit there may not be more than one active planned unavailability  
4569 at any point in time

## 4570 11.2.5 PROCESSING

4571 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4572 Platform establishes unavailable consumption capacity per MTU period based on the  
4573 submitted available or unavailable capacity during the outage time interval and the installed  
4574 capacity of the Consumption Unit (as recorded per chapter 11.12). In case MTU period only  
4575 partially coincides with outage start or end time, the submitted available or unavailable  
4576 consumption capacity will apply also for those MTU periods.

4577 The platform aggregates the unavailable consumption capacity in each Bidding Zone and  
4578 Country by Market Time Unit period. A single value per Country, Bidding Zone and MTU period  
4579 shall be calculated, taking all planned unavailability into account.



4580 Likewise, a single value shall be established per Country, Bidding Zone and MTU period taking  
4581 all changes in actual availability into account (refer to chapter 11.3 regarding changes in actual  
4582 availability of consumption units).

4583 Finally, a grand total per Country, Bidding Zone and MTU period shall be calculated, taking  
4584 both planned unavailability and changes in actual availability into account.

4585 The unavailability marked for cancellation is marked as such in the platform database and not  
4586 taken into account in the aggregation calculation.

4587 Pre-configuration [C-OTG-9] will be used to aggregate values per Country.

## 4588 11.2.6 PUBLICATION

### 4589 11.2.6.1 PUBLICATION BEHAVIOUR

4590 Aggregated values only shall be published, not individual unavailabilities.

### 4591 11.2.6.2 FILTERING AND SORTING CRITERIA

4592 Data shall be visually accessed by selecting the following:

4593 For all options:

4594 - Date or date range (selection is mandatory)

4595 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4596 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4597 accordingly)

4598 - Type of unavailability: planned, actual or both, selection is optional

4599 Unavailability for which time interval is either completely or partially on the selected date (or  
4600 possibly date range) will be displayed.

### 4601 11.2.6.3 DISPLAY

4602 This data shall be displayed in the following section:

#### 4603 - Load / Unavailability

4604 The following attributes of data shall be displayed:

4605 - Title

4606 - Measure Unit

4607 - MTU

- 4608 The following details are displayed for the selected date range:
- 4609 - Country or Bidding Zone
- 4610 - Start date and time
- 4611 - End date and time
- 4612 - The aggregated unavailable consumption capacity per MTU period, by country or Bidding
- 4613 Zone: Separate values for planned unavailability, changes in actual availability and a grand
- 4614 total
- 4615
- 4616

## 4617 11.3 CHANGES IN ACTUAL AVAILABILITY OF 4618 CONSUMPTION UNITS [7.1.B]

### 4619 11.3.1 DATA DESCRIPTION

4620 Data description is almost identical to data item “Planned unavailability of consumption units  
4621 [7.1.a]”, refer to chapter 11.2. The differences are:

- 4622 - outage type is “actual”
- 4623 - status is always “active”
- 4624 - not more than one outage subject is permitted
- 4625 - only one time interval is permitted

### 4626 11.3.2 PRE-CONFIGURATION

4627 Same pre-configuration as for planned unavailability of consumption units [7.1.a] applies to  
4628 this data item, refer to chapter 11.2.2.

### 4629 11.3.3 ASSUMPTIONS

- 4630 Unavailability of consumption units is submitted per Bidding Zone and Control Area.
- 4631 For a given unavailability, there will be only one Data Provider.

### 4632 11.3.4 INTEGRATION

- 4633 - The document date and time of the submitted document should be posterior to the start date  
4634 and time of the unavailability. This will trigger a warning only.
- 4635 - For a given consumption unit there may not be more than one active change in actual  
4636 availability at any point in time.
- 4637 All other validations are the same as for planned outages of consumption units, refer to chapter  
4638 11.2.4.

### 4639 11.3.5 PROCESSING

4640 Same processing as for planned outages of consumption units, refer to chapter 11.2.5.

## 4641 11.3.6 PUBLICATION

### 4642 11.3.6.1 PUBLICATION BEHAVIOUR

4643 Same processing as for planned outages of consumption units, refer to chapter 11.2.6.

### 4644 11.3.6.2 FILTERING AND SORTING CRITERIA

4645 Data shall be displayed together with planned unavailability on the same page. Filter and  
4646 sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4647 unavailability (planned or actual) as a criterion. Refer to section 11.2.6.2.

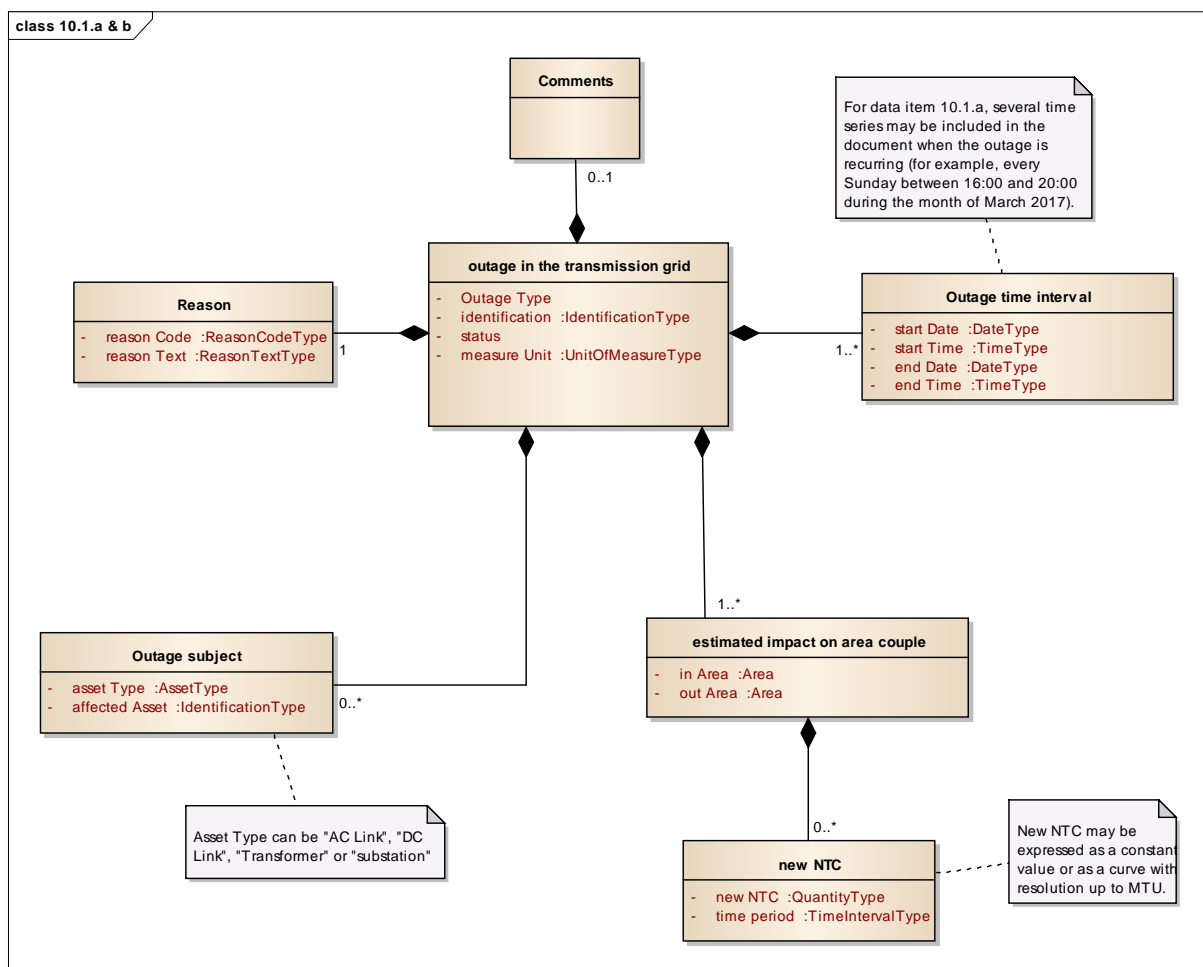
### 4648 11.3.6.3 DISPLAY

4649 Data shall be displayed together with planned unavailability on the same page. The type of  
4650 unavailability (planned or actual) shall be displayed. Refer to section 11.2.6.3.

## 11.4 PLANNED UNAVAILABILITY IN THE TRANSMISSION GRID [10.1.A]

### 11.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



A planned outage in the transmission grid is described by the following:

- An identification of the outage, having a status (active or cancelled)

- A list of outage subjects, each one defined by the asset Type (AC Link, DC Link, Transformer or substation) and the identification of the affected Asset. As per article 10(4) of Transparency Regulation (see reference [1]), Data Provider may exceptionally choose not to include any outage subject at all

4662 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every  
4663 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series  
4664 may be included in the document.

4665 - One or several In and Out Area couples that are impacted, along with the new NTC, given in  
4666 Measure Unit, for each couple. New NTC may be expressed as a constant value or as a curve  
4667 with resolution up to MTU. If the outage occurs in a region where flow-based allocations occur,  
4668 inclusion of new NTC is optional.

4669 - Measure Unit is fixed to megawatt (MW)

4670 - For this data item, outage type is “planned”.

4671 - The reason for the planned outage

4672 - Optionally, a free-text comment may be included<sup>30</sup>

## 4673 11.4.2 PRE-CONFIGURATION

4674 For this data item, there is no additional pre-configuration.

## 4675 11.4.3 ASSUMPTIONS

4676 For outages on interconnectors, there is a memorandum of understanding between Data  
4677 Providers that governs who submits data to central platform, to avoid a situation with more  
4678 than one data provider submitting data referring to the same outage.

## 4679 11.4.4 INTEGRATION

4680 - If included in the document, the list of outage subjects (assets) shall be recognised by the  
4681 platform.

4682 - The list of In and Out Area couples described in the document shall be recognised by the  
4683 platform, as per pre-configuration [C-OTG-6]

4684 - Data Provider shall be consistent with the In and Out Area couples, as per pre-configuration  
4685 [C-OTG-7]

4686 - Data Provider shall be consistent with the outage subject(s).

4687 - The outage time intervals may not overlap

4688 - The time interval describing a new NTC must fall within an outage time interval

---

<sup>30</sup> This includes the explanation of the case when two parallel AC Links are given in the list of affected assets

4689 - For a transmission asset, there may not be more than one active planned unavailability at  
4690 any point in time for a specific direction on a specific border.

#### 4691 11.4.5 PROCESSING

4692 Outages marked for cancellation shall be marked as cancelled in the platform database.

#### 4693 11.4.6 PUBLICATION

##### 4694 11.4.6.1 PUBLICATION BEHAVIOUR

4695 [PR-91a-4] An outage marked for cancellation at submission shall be accessible on the  
4696 platform but marked explicitly as cancelled

##### 4697 11.4.6.2 FILTERING AND SORTING CRITERIA

4698 Data shall be visually accessed by selecting the following:

4699 - Date or date range (selection is mandatory)

4700 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the  
4701 Country will be used as filtering criteria)

4702 - In Area (selection is optional)

4703 - Out Area (selection is optional)

4704 - Type of Asset (selection is optional)

4705 - Type of outage: planned or actual, selection is optional

4706 Outages for which outage time interval falls either completely or partially on the selected date  
4707 (or possibly date range) will be displayed.

##### 4708 11.4.6.3 DISPLAY

4709 This data shall be displayed in the following section:

##### 4710 - **Transmission Grid / Unavailability**

4711 The following attributes of data shall be displayed:

4712 - Title

4713 For each outage that falls within the selected date or date range, the following details are  
4714 displayed:

4715 - Measure Unit

- 4716 - Status (active or cancelled)
- 4717 - Type of outage (planned or actual)
- 4718 - If provided, the outage subjects with links to pages on central platform that provide full details;
- 4719 type, name and location. This is displayed in a list if more than one asset has been declared.
- 4720 - The reason for the outage
- 4721 - Comments, if available
- 4722 The following information is provided for each declared time interval that falls within the
- 4723 selected date or date range:
- 4724 - Start date and time
- 4725 - End date and time
- 4726 - The In and Out Area(s) and the new NTC. If new NTC is expressed as a curve, it shall be
- 4727 possible to expand the view so time periods and NTC values are displayed in a table and in a
- 4728 chart
- 4729



## 4730 11.5 CHANGES IN ACTUAL AVAILABILITY IN THE 4731 TRANSMISSION GRID [10.1.B]

### 4732 11.5.1 DATA DESCRIPTION

4733 Data description is almost identical to data item “Planned unavailability in the transmission  
4734 grid [10.1.a]”, refer to chapter 11.2. The differences are:

- 4735 - outage type shall be “actual”
- 4736 - only one time interval is permitted
- 4737 - status is always “active”

4738 Note that several outage subjects are permitted though, also for this data item.

### 4739 11.5.2 PRE-CONFIGURATION

4740 For this data item, there is no additional pre-configuration.

### 4741 11.5.3 ASSUMPTIONS

4742 Reasons for the outage can be updated D+1 after the start of the outage.

4743 For outages on interconnectors, there is a memorandum of understanding between Data  
4744 Providers that governs who submits data to central platform, to avoid a situation with more  
4745 than one data provider submitting data referring to the same outage.

### 4746 11.5.4 INTEGRATION

4747 - The document date and time of the submitted document should be posterior to the start date  
4748 and time of the outage. This validation will trigger a warning only.

4749 - For a transmission asset, there may not be more than one change in actual availability at any  
4750 point in time for a specific direction on a specific border.

4751 All other validations are the same as for planned unavailability of transmission infrastructure,  
4752 refer to chapter 11.4.4.

### 4753 11.5.5 PROCESSING

4754 No processing is performed on this data item.

4755    **11.5.6       PUBLICATION**

4756    **11.5.6.1    PUBLICATION BEHAVIOUR**

4757    No specific publication behaviour applies to this data item.

4758    **11.5.6.2    FILTERING AND SORTING CRITERIA**

4759    Data shall be displayed together with planned outages on the same page. Filter and sorting  
4760    criteria are the same as for planned outages. It shall be possible to use type of outage  
4761    (planned or actual) as a criterion. Refer to section 11.4.6.2.

4762    **11.5.6.3    DISPLAY**

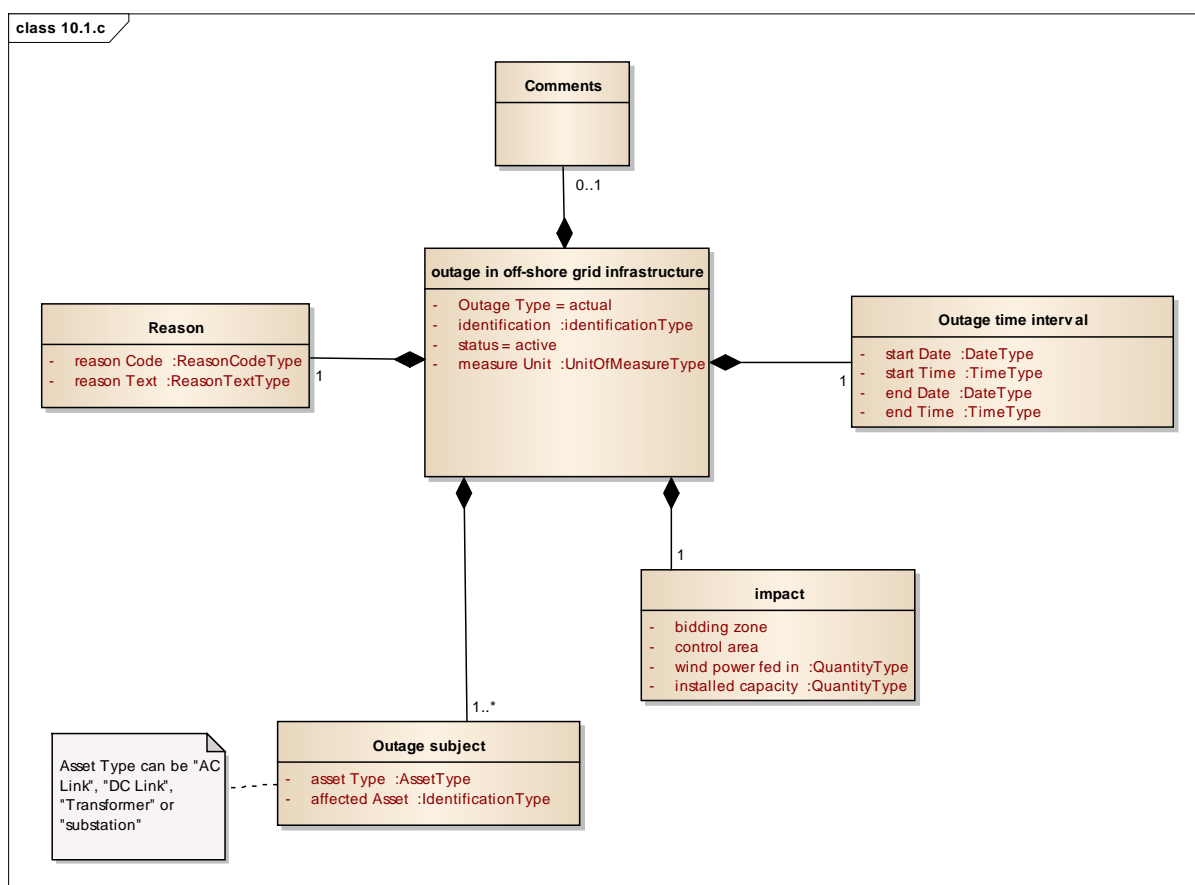
4763    Data shall be displayed together with planned outages on the same page. The type of outage  
4764    (planned or actual) shall be displayed. Refer to section 11.4.6.3.

4765

## 11.6 CHANGES IN ACTUAL AVAILABILITY OF OFF-SHORE GRID INFRASTRUCTURE [10.1.c]

### 11.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



A change in the actual availability of off-shore grid infrastructure is described by the following:

- An identification of the outage
- A list of outage subjects, defined by the asset Type (AC Link, DC Link, Transformer or substation) and the identification of the affected Asset
- The outage time interval
- Bidding Zone and Control Area
- Installed generation capacity
- Wind power fed in at the time of the change in the availability

4779 - Measure Unit is fixed to megawatt (MW)

4780 - Outage type is fixed to “actual”

4781 - Status is fixed to “active”

4782 - The reason for the outage

4783 - Optionally, a free-text comment may be provided

## 4784 11.6.2 PRE-CONFIGURATION

4785 For this data item, there is no additional pre-configuration.

## 4786 11.6.3 ASSUMPTIONS

4787 Outage of Generation units and Production Units will be accounted for in separate document,  
4788 as per chapters 11.8 and 11.10.

## 4789 11.6.4 INTEGRATION

4790 - The outage subjects (assets) described in the document shall be recognised by the platform.

4791 - The Data Provider shall be consistent with the identified outage subjects.

4792 - The document date and time of the submitted document should be posterior to the start date  
4793 and time of the outage. This validation will trigger a warning only.

## 4794 11.6.5 PROCESSING

4795 No processing is performed on this data item.

## 4796 11.6.6 PUBLICATION

### 4797 11.6.6.1 PUBLICATION BEHAVIOUR

4798 No specific publication behaviour applies to this data item.

### 4799 11.6.6.2 FILTERING AND SORTING CRITERIA

4800 Data shall be visually accessed by selecting the following:

4801 - Date or date range (selection is mandatory)

4802 - Country or Bidding Zone (selection is mandatory); if Country is selected, pre-configuration  
4803 [C9] will be used to identify the corresponding Control Area and filter Outages accordingly)

4804 Outages for which time interval falls either completely or partially on the selected date (or  
4805 possibly date range) will be displayed.

### 4806 11.6.6.3 DISPLAY

4807 Data shall be displayed in the following section:

#### 4808 - **Transmission Grid / Unavailability of off-shore grid**

4809 The following attributes of data shall be displayed:

4810 - Title

4811 - Measure Unit

4812 For each outage that falls within the selected date or date range, the following details are  
4813 displayed:

4814 - Country or Bidding Zone

4815 - Status (always “active”)

4816 - Type of outage (always “actual”)

4817 - The outage subjects with links to pages on central platform that provide full details; asset  
4818 type, name, location. This is provided in a list if more than one asset has been declared.

4819 - The reason for the outage

4820 - Comments, if available

4821 - Start date and time

4822 - End date and time

4823 - installed generation capacity

4824 - Wind power fed in

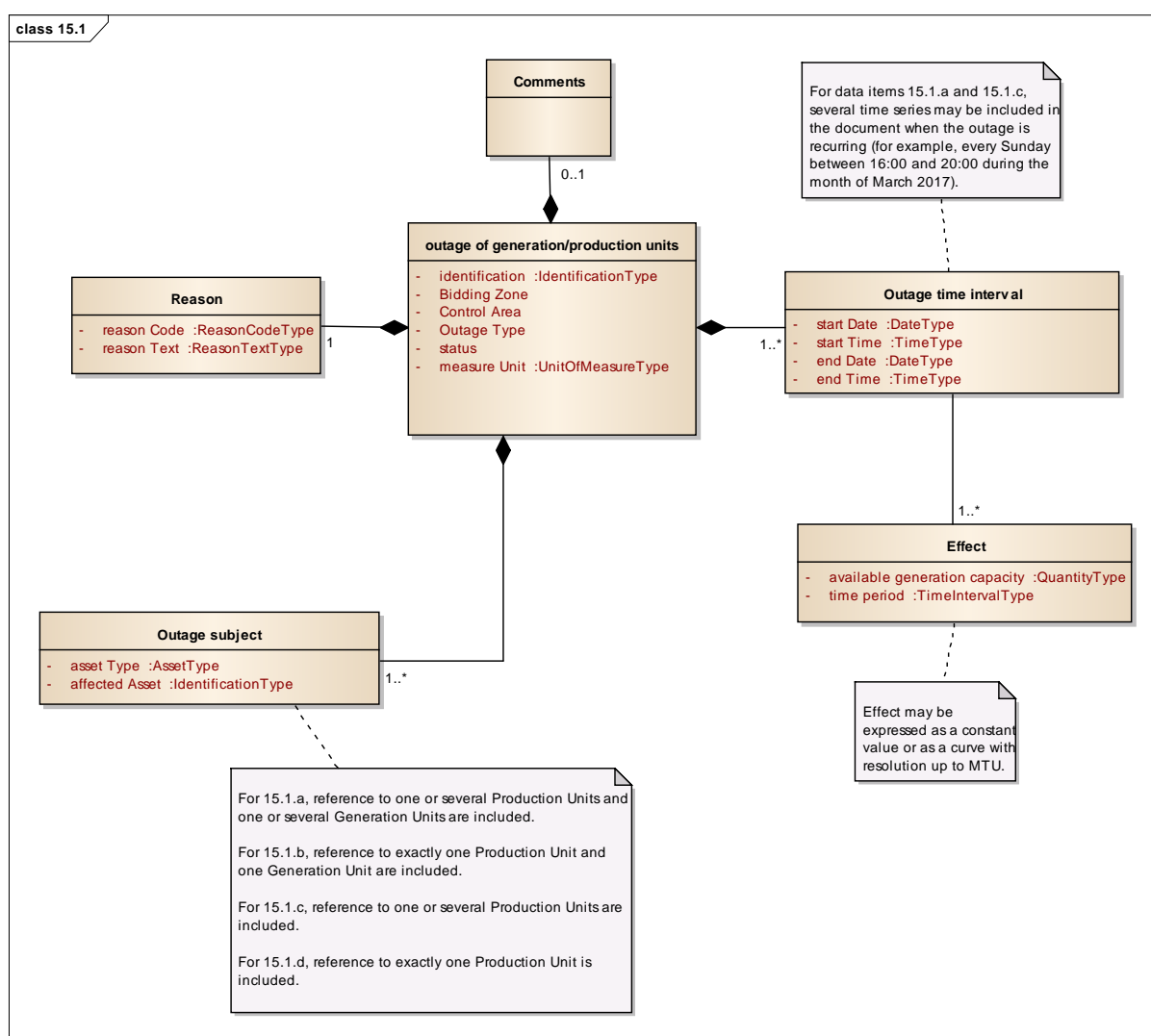
4825

## 11.7 PLANNED UNAVAILABILITY OF GENERATION UNITS

### [15.1.A]

#### 11.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



A planned unavailability on generation unit is described by the following:

- An identification of the outage, having a status (active or cancelled)
- Bidding Zone and Control Area
- Type of outage is planned

- 4835 - The outage subject, defined by the asset Type (Generation Unit) and its Unique Code
- 4836 - The Production Unit that the Generation Unit belongs to, defined by the asset Type
- 4837 (Production Unit) and its Unique Code
- 4838 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every
- 4839 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series
- 4840 may be included in the document.
- 4841 - The estimated available generation capacity in Measure Unit
- 4842 - The reason for the planned outage
- 4843 - Measure Unit is fixed to megawatt (MW)
- 4844 - Optionally, a free-text comment may be provided

#### 4845 11.7.2 PRE-CONFIGURATION

4846 For select control areas, the validation against overlapping outages may be disabled.

#### 4847 11.7.3 ASSUMPTIONS

- 4848 Unavailability of generation units is submitted per Bidding Zone and Control Area. For a given
- 4849 unavailability, there will be only one Data Provider.
- 4850 Installed capacity of generation unit is recorded in Master Data.

#### 4851 11.7.4 INTEGRATION

- 4852 - The outage subject (asset) described in the document shall be recognised by the platform
- 4853 - Outage subject shall be consistent with Bidding Zone and Control Area
- 4854 - Data Provider shall be consistent with Bidding Zone and Control Area
- 4855 - Data Provider shall be consistent with the identified outage subject
- 4856 - For a given generation unit there may not be more than one active planned unavailability at
- 4857 any point in time.

#### 4858 11.7.5 PROCESSING

- 4859 Unavailability marked for cancellation shall be marked as cancelled in the platform database.
- 4860 Platform deduces Name of Generation Unit, location, production type and installed generation
- 4861 capacity based on the submitted Unique Code.

4862 Platform deduces Name of Production Unit based on the submitted Unique Code of the  
4863 Production Unit.

## 4864 11.7.6 PUBLICATION

### 4865 11.7.6.1 PUBLICATION BEHAVIOUR

4866 An outage marked for cancellation at submission shall be accessible on the platform but  
4867 marked explicitly as cancelled

### 4868 11.7.6.2 FILTERING AND SORTING CRITERIA

4869 Data shall be visually accessed by selecting the following:

4870 - Date or date range (selection is mandatory)

4871 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4872 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4873 accordingly)

4874 - Type of unavailability: planned or actual, selection is optional

4875 - Production or Generation unit, selection is optional

4876 Unavailability for which time interval falls either completely or partially on the selected date (or  
4877 possibly date range) will be displayed.

### 4878 11.7.6.3 DISPLAY

4879 This data shall be displayed in the following section:

#### 4880 - **Generation / Unavailability**

4881 There shall be a link to the section Generation / List of Production Units and Installed Capacity,  
4882 refer to 9.3.8.2.

4883 - Title

4884 - Measure Unit (MW)

4885 For each outage that falls within the selected date or date range, the following details are  
4886 displayed:

4887 - Status (active or cancelled)

4888 - The outage subject(s) with link to page on central platform that provide full details; Production  
4889 Type, Production and Generation Unit names and installed capacity.



- 4890 - The reason for the outage
- 4891 - Comments, if available
- 4892 - Country or Bidding Zone
- 4893 - Type of unavailability (planned or actual)
- 4894 The following information is provided for each declared time interval that falls within the
- 4895 selected date or date range:
- 4896 - Start date and time
- 4897 - End date and time
- 4898 - The available generation capacity per MTU period
- 4899

## 4900 11.8 CHANGES IN ACTUAL AVAILABILITY OF GENERATION 4901 UNITS [15.1.B]

### 4902 11.8.1 DATA DESCRIPTION

4903 Data description is almost identical to data item "Planned unavailability of generation units  
4904 [15.1.a]", refer to chapter 11.6. The differences are:

- 4905 - outage type shall be "actual"
- 4906 - only one time interval is permitted
- 4907 - status is always "active"
- 4908 - not more than one generation unit and production unit included

### 4909 11.8.2 PRE-CONFIGURATION

4910 For select control areas, the validation against overlapping outages may be disabled.

### 4911 11.8.3 ASSUMPTIONS

4912 Unavailability of generation units is submitted per Bidding Zone and Control Area.

4913 For a given unavailability, there will be only one Data Provider.

4914 Installed capacity of generation unit is recorded in Master Data.

### 4915 11.8.4 INTEGRATION

4916 The document date and time of the submitted document should be posterior to the start date  
4917 and time of the unavailability. This validation shall trigger a warning only.

4918 -For a given generation unit there may not be more than one active change in actual availability  
4919 at any point in time.

4920 All other validations are the same as for planned unavailability of generation units, refer to  
4921 chapter 11.7.4.

### 4922 11.8.5 PROCESSING

4923 Platform deduces Name of Generation Unit, location, production type and installed generation  
4924 capacity based on the submitted Unique Code.

4925 Platform deduces Production Unit and retrieves its Name based on reference data described  
4926 in 9.9. The submitted Unique Code of Production Unit is used as key.

4927    **11.8.6       PUBLICATION**

4928    **11.8.6.1    PUBLICATION BEHAVIOUR**

4929    No specific publication behaviour applies to this data item.

4930    **11.8.6.2    FILTERING AND SORTING CRITERIA**

4931    Data shall be displayed together with planned unavailability on the same page. Filter and  
4932    sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4933    unavailability (planned or actual) as a criterion. Refer to section 11.7.6.2.

4934    **11.8.6.3    DISPLAY**

4935    Data shall be displayed together with planned unavailability on the same page. The type of  
4936    unavailability (planned or actual) shall be displayed. Refer to section 11.7.6.3.

4937

## 4938 11.9 PLANNED UNAVAILABILITY OF PRODUCTION UNITS

### 4939 [15.1.c]

#### 4940 11.9.1 DATA DESCRIPTION

4941 Data description is almost identical to data item "Planned unavailability of generation units  
4942 [15.1.a]", refer to chapter 11.6. The difference is that Asset Type is Production Unit.

#### 4943 11.9.2 PRE-CONFIGURATION

4944 For select control areas, the validation against overlapping outages may be disabled.

#### 4945 11.9.3 ASSUMPTIONS

4946 Unavailability of Production Units is submitted per Bidding Zone and Control Area.

4947 For a given unavailability, there will be only one Data Provider.

4948 Installed capacity per Production Unit has been recorded in Master Data.

#### 4949 11.9.4 INTEGRATION

4950 - The outage subject (asset) described in the document shall be recognised by the platform

4951 - Outage subject shall be consistent with Bidding Zone and Control Area

4952 - Data Provider shall be consistent with Bidding Zone and Control Area

4953 - Data Provider shall be consistent with the identified outage subject

4954 - For a given production unit there may not be more than one active planned unavailability at  
4955 any point in time. Validation shall be carried out separately for production unit and its  
4956 generation units, i.e. overlaps between outages of a production unit and any of its generation  
4957 units are permitted.

#### 4958 11.9.5 PROCESSING

4959 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4960 Platform deduces Name of Production Unit, location, production type and installed generation  
4961 capacity based on the submitted Unique Code.

## 4962 11.9.6 PUBLICATION

### 4963 11.9.6.1 PUBLICATION BEHAVIOUR

4964 An outage marked for cancellation at submission shall be accessible on the platform but  
4965 marked explicitly as cancelled.

### 4966 11.9.6.2 FILTERING AND SORTING CRITERIA

4967 Data shall be visually accessed by selecting the following:

4968 - Date or date range (selection is mandatory)

4969 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4970 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4971 accordingly)

4972 - Type of unavailability: planned or actual, selection is optional

4973 - Production unit, selection is optional

4974 Unavailability for which time interval falls either completely or partially on the selected date (or  
4975 possibly date range) will be displayed.

### 4976 11.9.6.3 DISPLAY

4977 This data shall be displayed in the following section:

#### 4978 - **Generation / Unavailability**

4979 There shall be a link to the section Generation / List of Production Units and Installed Capacity,  
4980 refer to 9.3.8.2.

4981 - Title

4982 - Measure Unit (MW)

4983 For each outage that falls within the selected date or date range, the following details are  
4984 displayed:

4985 - Status (active or cancelled)

4986 - The outage subject(s) with link to page(s) on central platform that provide full details;  
4987 Production Type, Production Unit name and installed capacity.

4988 - The reason for the outage

4989 - Comments, if available

- 4990 - Country or Bidding Zone
- 4991 - Type of unavailability (planned or actual)
- 4992 The following information is provided for each declared time interval that falls within the
- 4993 selected date or date range:
- 4994 - Start date and time
- 4995 - End date and time
- 4996 - The available generation capacity per MTU period
- 4997

## 4998 11.10 CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION 4999 UNITS [15.1.D]

### 5000 11.10.1 DATA DESCRIPTION

5001 Data description is almost identical to data item "Planned unavailability of production units  
5002 [15.1.c]", refer to chapter 11.9. The differences are:

- 5003 - outage type shall be "actual"
- 5004 - only one time interval is permitted
- 5005 - status is always "active"
- 5006 - not more than one production unit included

### 5007 11.10.2 PRE-CONFIGURATION

5008 For select control areas, the validation against overlapping outages may be disabled.

### 5009 11.10.3 ASSUMPTIONS

- 5010 Installed capacity per Production Unit has previously been recorded in Master Data.
- 5011 Unavailability of production units is submitted per Bidding Zone and Control Area.
- 5012 For a given unavailability, there will be only one Data Provider.

### 5013 11.10.4 INTEGRATION

5014 The document date and time of the submitted document should be posterior to the start date  
5015 and time of the unavailability. This validation shall trigger a warning only.

5016 For a given production unit there may not be more than one active change in actual availability  
5017 at any point in time. Validation shall be carried out separately for production unit and its  
5018 generation units, i.e. overlaps between outages of a production unit and any of its generation  
5019 units are permitted.

5020 All other validations are the same as for planned unavailability of generation units, refer to  
5021 chapter 11.7.4.

### 5022 11.10.5 PROCESSING

5023 Platform deduces Name of Production Unit, location, production type and installed generation  
5024 capacity based on the submitted Unique Code.

5025    **11.10.6    PUBLICATION**

5026    **11.10.6.1   PUBLICATION BEHAVIOUR**

5027    No specific publication behaviour applies to this data item.

5028    **11.10.6.2   FILTERING AND SORTING CRITERIA**

5029    Data shall be displayed together with planned unavailability on the same page. Filter and  
5030    sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
5031    unavailability (planned or actual) as criteria. Refer to section 11.9.6.2.

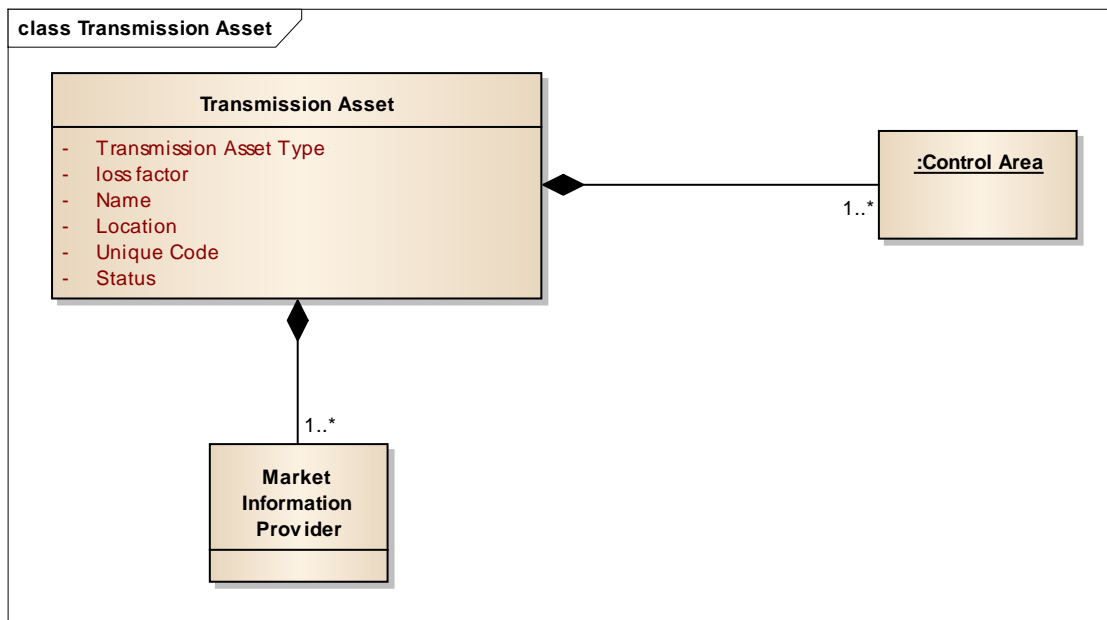
5032    **11.10.6.3   DISPLAY**

5033    Data shall be displayed together with planned unavailability on the same page. The type of  
5034    unavailability (planned or actual) shall be displayed. Refer to section 11.9.6.3.

5035

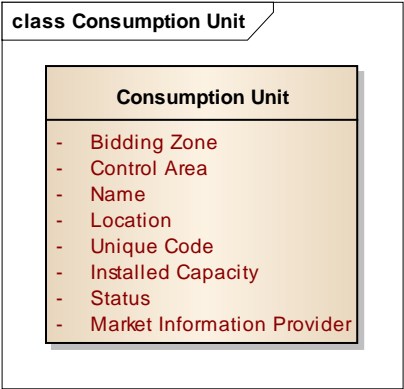


## 5036 11.11 TRANSMISSION ASSETS



- 5037
- 5038 Reference data for transmission assets will have similar structure and maintenance
- 5039 mechanism as generation and production units, refer to chapter 9.9.
- 5040 Just like generation units, transmission assets will have a status (commissioned,
- 5041 decommissioned or cancelled), a unique code, name and location. Additionally, transmission
- 5042 assets will have the attribute transmission asset type (AC Link, DC Link, Transformer or
- 5043 Substation). Assets of type AC or DC link will optionally have a loss factor associated with
- 5044 them.
- 5045 As opposed to generation units, a transmission asset may have several Data Providers.
- 5046 Note that Bidding Zone is *not* an attribute of transmission asset.
- 5047 Note that more than one Control Area may be associated with a transmission asset.
- 5048 Transmission assets of type DC link associated with two or more control areas shall be
- 5049 visible for all registered users. All transmission assets shall be visible for the Data Provider.
- 5050 The data shall be available in the following section on the website:
- 5051 **- Transmission / Transmission Assets**
- 5052 It shall be possible to filter the transmission assets by Control Area or Country.

5053 11.12 CONSUMPTION UNITS

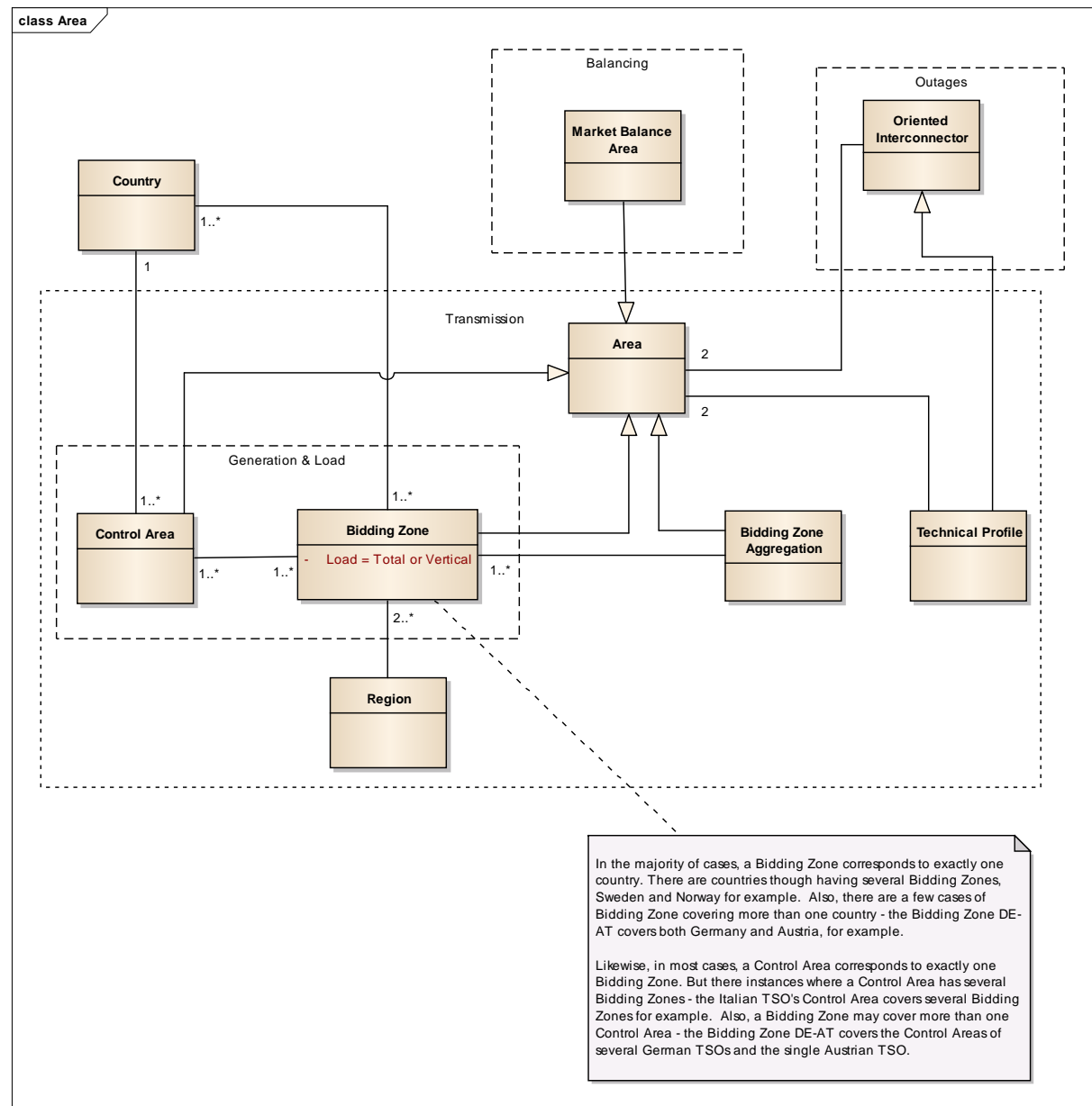


- 5054
- 5055 Reference data for consumption units will have similar structure and maintenance
- 5056 mechanism as generation units, refer to chapter 9.9. Just like generation units, consumption
- 5057 units will have a status (commissioned, decommissioned or cancelled), bidding area, control
- 5058 area, a unique code, name and location. Installed capacity is mandatory.
- 5059 Similar to generation units, a consumption unit will have only one Data Provider.
- 5060 Consumption Units shall be displayed toward Data Providers in the following section on the
- 5061 website:
- 5062 - **Load / Consumption Units**
- 5063 It shall be possible to filter the consumption units by Control Area, Bidding Zone or Country.
- 5064

## 12 REFERENCE DATA

The purpose of this chapter is to provide a consolidated view of the reference data that have been considered in the six domains Generation, Load, Transmission, Balancing, Outages and Congestion Management. No distinctions are being made between master, configuration or reference data.

### 12.1 AREAS



- 5072 Bidding Zone is used in all domains except Balancing, where Market Balance Area is used  
5073 instead.
- 5074 A Control Area never overlaps another Control Area. Likewise, a Bidding Zone never  
5075 overlaps another Bidding Zone.
- 5076 In the Transmission domain, there are Regions and aggregation of Bidding Zones. An Area  
5077 may consist of either a single Bidding Zone or a Bidding Zone Aggregation. Also in  
5078 Transmission domain, a Technical Profile consists of two Areas with a direction. See section  
5079 7.1 for further details.
- 5080 For Outages, there are Oriented Interconnectors that consist of two Areas with a direction.  
5081 See also section 11.1.2.

## 5082 12.2 ASSETS

- 5083 There are four types of assets: Generation Units, Production Units, Consumption Units and  
5084 Transmission Assets. Refer to diagram in section 11.1.1.
- 5085 More information on Generation and Production Units is available in section 9.9.  
5086 Consumption Units are detailed in 11.12. Transmission Assets are described in section  
5087 11.11.

## 5088 12.3 TRANSMISSION CAPACITY ALLOCATIONS AND 5089 CAPACITY PRODUCTS

- 5090 Capacity Allocations and products are relevant to the Transmission domain. Capacity  
5091 Allocations can be either explicit or implicit. Capacity products are associated with Capacity  
5092 Allocations and are characterised by two Areas with a direction and a Contract Type, and  
5093 additionally for explicit allocations a Classification Category and a Classification Sequence.
- 5094 Further details on Transmission Capacity Allocations and Capacity Products are available in  
5095 chapters 7.1.1 and 7.28.

## 5096 12.4 PROCESSES, RESERVES AND PRICE TYPES

- 5097 In the Balancing domain, there are constraints on the valid combinations of Market Balance  
5098 Area, Reserves and Price Type. Full details are available in chapters 10.1.1 and 10.1.2. For  
5099 some data items also Contract Types may be relevant. Contract Types are the same as in  
5100 Transmission domain.

## 5101      12.5      TIME UNITS

5102      In all domains except Balancing, Market Time Units are used and depend on Bidding Zone or  
5103      Bidding Zone Aggregation. For Balancing, Balancing Time Units are used and depend on  
5104      Market Balance Area.

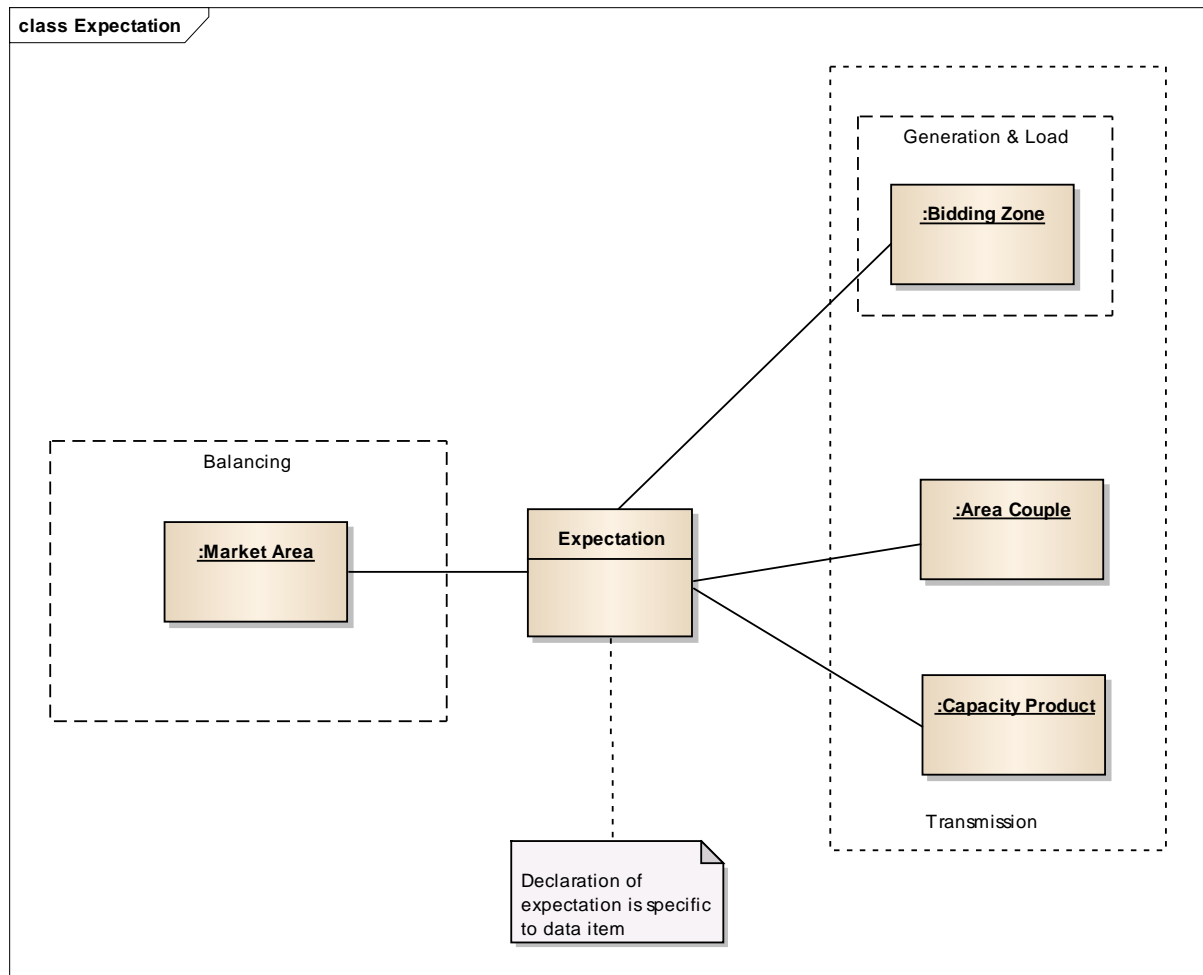
## 5105      12.6      ACTIONS AND REASONS

5106      For Congestion Management, different sets of actions are foreseen. Further details provided  
5107      in chapter 8.1.2.

5108      For Outages, a single set of reason codes is foreseen, common to all kinds of Outages.  
5109      Details are provided in chapter 11.1.2.

## 5110 12.7 DATA ITEMS

### 5111 12.7.1 EXPECTATION OF DATA

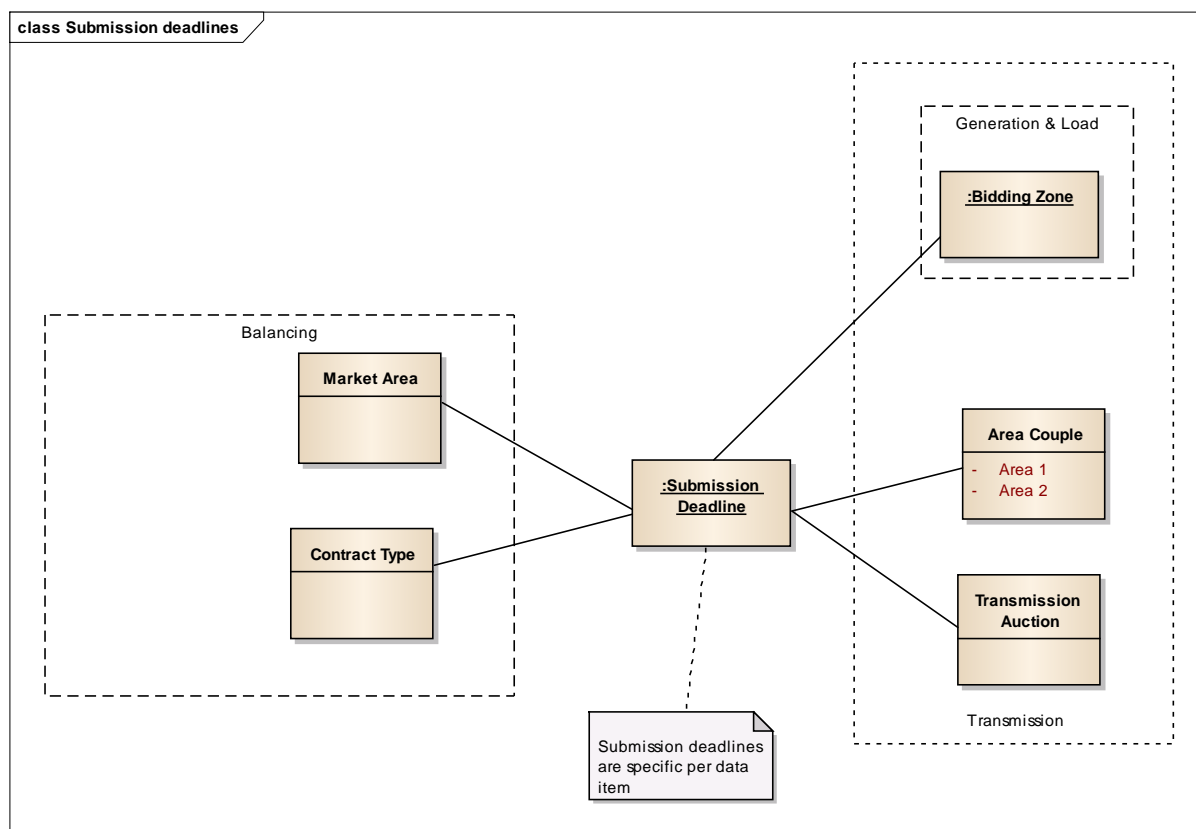


5112

5113 Whether data is expected or not is declared per Bidding Zone for data items in the domains  
5114 Generation and Load. In the Transmission domain, expectation is declared per Bidding Zone,  
5115 Bidding Zone couple or per Technical Profile. For some Transmission data items related to  
5116 capacity allocations, expectation is determined per capacity product.

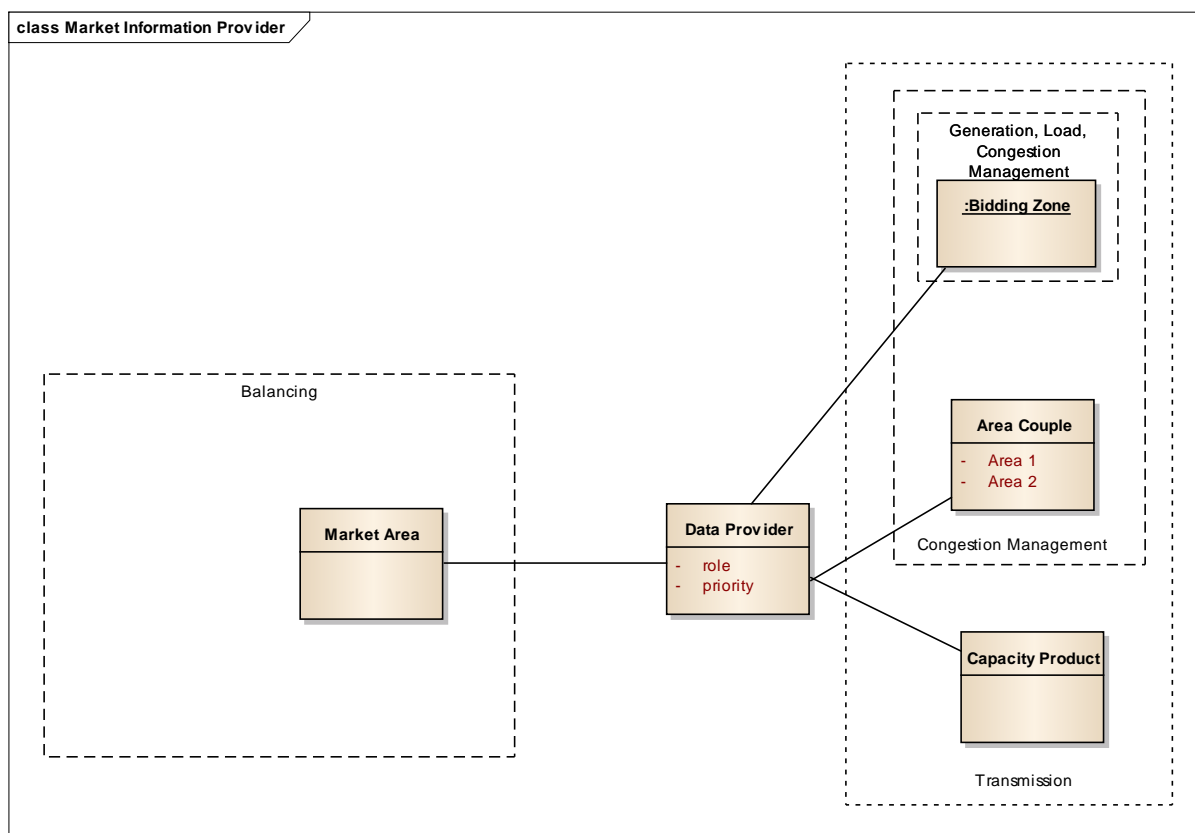
5117 For data items in the Balancing domain, expectation is declared per Market Balance Area.

## 5118 12.7.2 SUBMISSION DEADLINES



- 5119
- 5120 For data items in Generation and Load domains, submission deadlines are determined by
- 5121 Bidding Zone.
- 5122 In Transmission domain, deadlines are defined per Bidding Zone or couple of Bidding Zones.
- 5123 For some Transmission data items related to capacity allocations, submission deadlines are
- 5124 set per capacity allocation instance.
- 5125 For data items in the Balancing domain, submission deadlines are defined per Market
- 5126 Balance Area and for some data items also per Contract Type.

## 5127 12.7.3 ALLOWED DATA PROVIDERS



- 5128
- 5129 Data Providers have a priority and a role – those attributes are relevant in the Transmission
- 5130 domain only.
- 5131 In the domains Generation and Load, the allowed Data Providers are associated with the
- 5132 Control Area and Bidding Zone.
- 5133 In the Transmission and Congestion Management domains, the allowed Data Providers are
- 5134 associated with Bidding Zone, a couple of Bidding Zones or a Technical Profile. For some
- 5135 data items related to Transmission capacity allocations, allowed Data Providers are identified
- 5136 per Capacity Allocation.
- 5137 In the Balancing domain, the allowed Data Provider is associated with Market Balance Area.