



European Network of  
Transmission System Operators  
for Electricity

*CENTRAL INFORMATION  
TRANSPARENCY PLATFORM  
-  
BUSINESS REQUIREMENTS  
SPECIFICATION*

~~2019~~2021-06-~~24~~25

~~FINAL~~DRAFT DOCUMENT  
VERSION 3 / RELEASE ~~23~~

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## 198 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. 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>

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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>

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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>
<u>3</u>	<u>3</u>	<u>2021-06-25</u>	<p><u>Introduced local balancing product. Corrected cross-validation rule and clarified publication in TR article 17.1.f.</u></p> <p><u>Updates to TR art. 17.1.f to handle higher resolution of prices from aFRR platform.</u></p> <p><u>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.</u></p> <p><u>Introduced ability to distinguish mFRR direct and scheduled activation for EB GL art. 12.3.e.</u></p>

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			<u>Addition of new process for IN under EB GL art. 12.3.k.</u> <u>Under TR art. 17.1.g, h and i; editorial change of status for published document.</u> <u>Merged publications of TR art. 17.1.b&amp;c. Contract type made optional, procurement timestamp and type of product introduced.</u> <u>Corresponding updates made to EB GL art. 12.3.f: Time horizon optional, introduced procurement timestamp.</u> <u>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.</u>

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202 REFERENCE DOCUMENTS

- 203 [1] Commission Regulation (EU) N° 543/2013 of 14 June 2013 on submission and  
204 publication of data in electricity markets and amending Annex I to Regulation (EC) No  
205 714/2009 of the European Parliament and of the Council, referred to as TR in this document
- 206 [3] Detailed Data Descriptions – MoP Ref02
- 207 [4] Implementation Guides – MoP Ref05 through Ref09
- 208 [5] ENTSO-E Acknowledgement Document (EAD) Implementation Guide – version 5.1
- 209 [6] EMR Glossary: [link](#)
- 210 [7] ETSO Problem Statement Document Implementation Guide version 2.0 – MoP Ref16
- 211 [8] The Harmonised Electricity Market Role Model
- 212 [9] Manual of Procedures
- 213 [11] ECAN Implementation Guide v5r0: [link](#)
- 214 [\[12\] Commission Regulation \(EU\) N° 2195/2017 of 23 November 2017 establishing a](#)  
215 [guideline on electricity balancing, referred to as GL EB in this document](#)
- 216 [13] Implementation guide for the Transparency Platform EB GL process – MoP Ref22

217 Note concerning wording used in this document:

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

220 · MUST: This word, or the terms "REQUIRED" or "SHALL", means that the definition is  
221 an absolute requirement of the specification.

222 · MUST NOT: This phrase, or the phrase "SHALL NOT", means that the definition is an  
223 absolute prohibition of the specification.

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

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

231 MAY: This word, or the adjective «OPTIONAL», means that an item is truly optional.  
232 One vendor may choose to include the item because a particular marketplace requires it or  
233 because the vendor feels that it enhances the product while another vendor may omit the same  
234 item. An implementation which does not include a particular option MUST be prepared to  
235 interoperate with another implementation which does include the option, though perhaps with  
236 reduced functionality. In the same vein an implementation which does include a particular  
237 option MUST be prepared to interoperate with another implementation which does not include  
238 the option (except, of course, for the feature the option provides.)

239 Diagrams are for illustrative purposes only and do not constitute fully detailed definition of data  
240 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

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### 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

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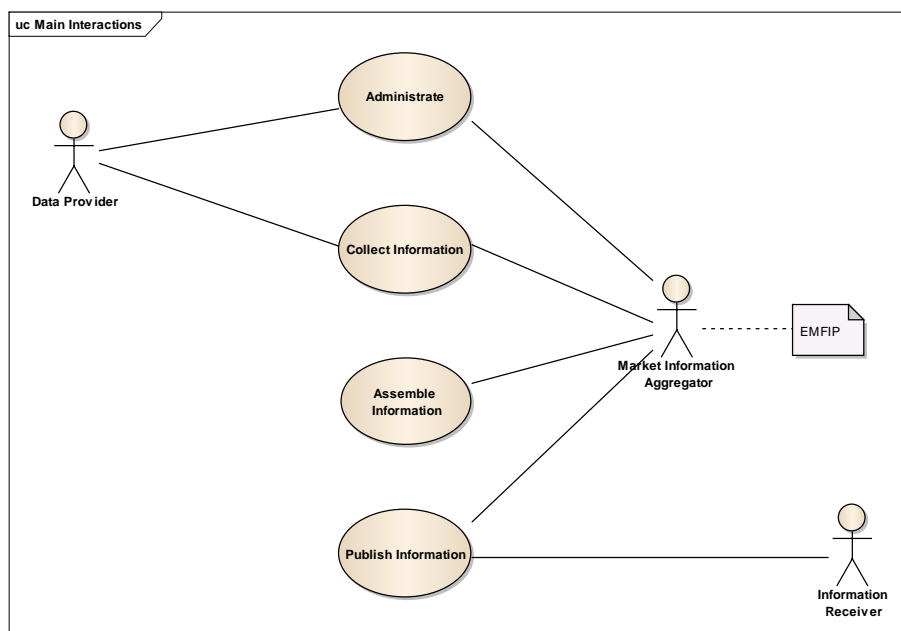
			with the split capacity (usually 50/50).
Contract Type	Not used	Yes (see [11])	The contract type defines the conditions under which the capacity was allocated and handled (daily, weekly, monthly, etc. auctions). This also applies to capacity reservations for balancing and activation of reserves.
Day-ahead 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 auction and market coupling/splitting. 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].

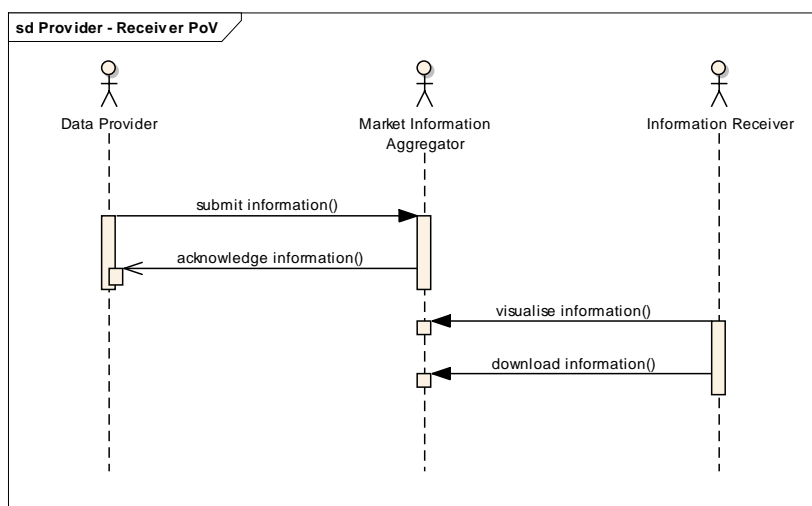
- Data Provider can either be a TSO or a third party acting as data provider. The Data Provider is not necessarily the primary owner of information but it is the entity that submits information to the Market Information Aggregator
- Market Information Aggregator: Embodied by the platform in this context, 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.

351

### 352 5.1.3 REQUIREMENTS

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

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

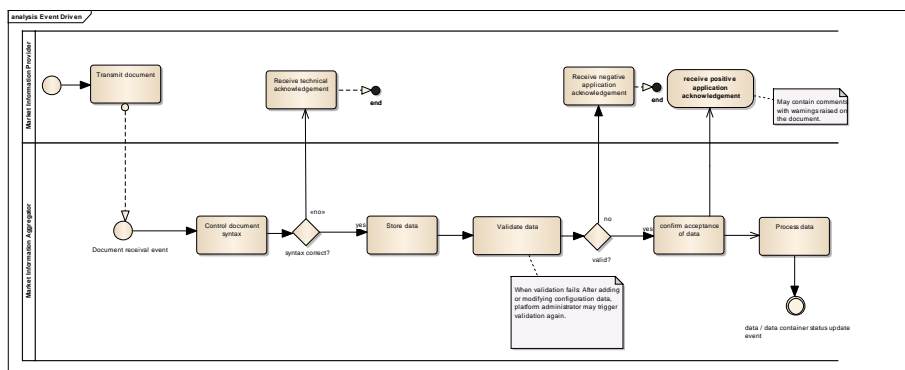
356 The platform shall support a variety of data submission frequencies (yearly, monthly, daily,  
357 hourly, etc).

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

## 362 5.2 INTEGRATION

### 363 5.2.1 BEHAVIOUR ON DOCUMENT RECEIPT EVENT

364 The following diagram describes the general behaviour of the platform upon receipt of a  
365 document.



366



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

370 1) Control document syntax

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

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

377 2) Validate data content

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

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

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

## 389 5.2.2 REQUIREMENTS

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

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

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

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<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.

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

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

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

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

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

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

412 Data Provider only will have access to invalid data.

### 413 5.3 PROCESSING

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

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

### 419 5.4 MONITORING

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

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

425 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.

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

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

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

#### 434 5.4.1 MONITORING OF DATA ITEMS REQUIRING AGGREGATION

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

#### 440 5.4.2 DECLARATION OF EXPECTATION AND SUBMISSION DEADLINES

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

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

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

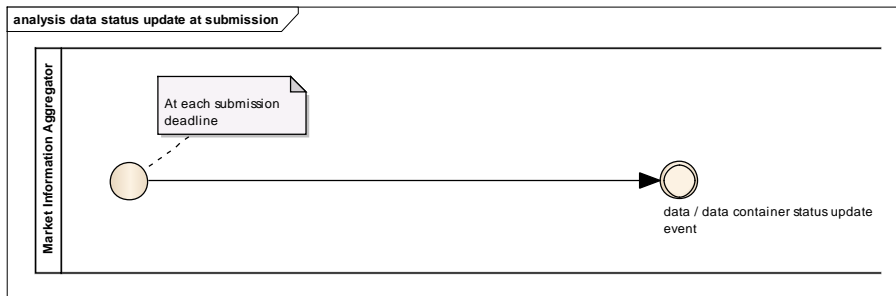
449 - the **definition of the submission deadline** (e.g. declaration that this "forecasted monthly  
450 transfer capacity" has to be submitted no later than the 15<sup>th</sup> of the preceding month).

#### 451 5.4.3 MONITORING FREQUENCY

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

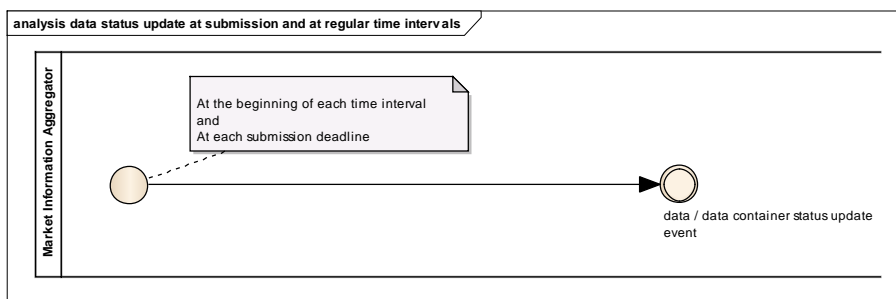
454 This data status update is performed at predetermined times, which can be:

455 - at each submission deadline



or

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



## 5.5 DATA CONTAINER STATUS / DATA STATUS

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

- a data receipt event
- a monitoring event

For expected and monitored data, three schemes are possible:

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

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

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

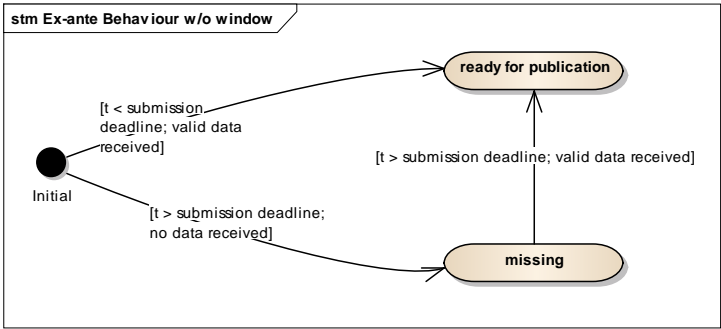
476 5.5.1 NONE / READY FOR PUBLICATION / MISSING SCHEME

- 477 - Until submission deadline, data can have the following additional status: none or ready for
- 478 publication. Indeed, for this data item, data is to be published as soon as possible
- 479 - After submission deadline, data can have the following additional status: missing or ready for
- 480 publication. Indeed, for this data item, the behaviour is based on a submission deadline and
- 481 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

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- 482
- 483 The following state diagram describes the different possible states for an expected data and
- 484 the transition between them.



- 485
- 486 Whenever the platform receives data or at submission deadline, the platform checks state
- 487 transition conditions to update the status of expected data.

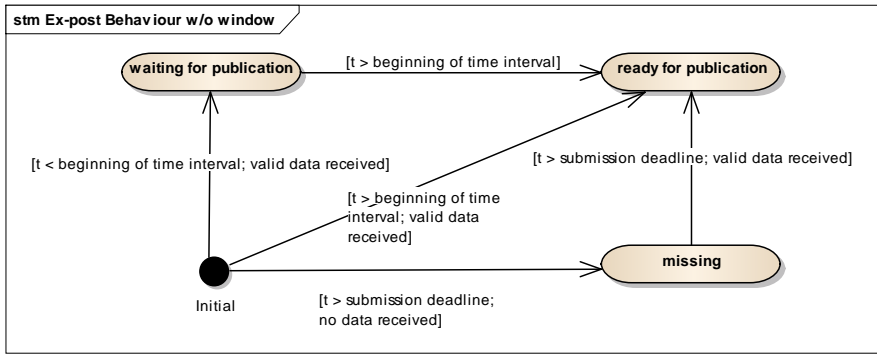
## 5.5.2 NONE / WAITING FOR PUBLICATION / READY FOR PUBLICATION / MISSING SCHEME

- 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

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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

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

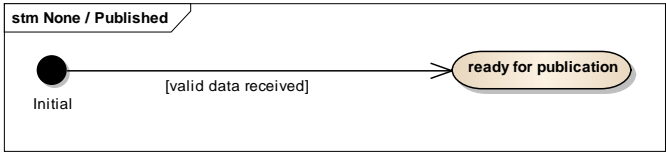
504 5.5.3 NONE / READY FOR PUBLICATION SCHEME

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

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

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



512

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

515 5.5.4 NONE / WAITING FOR PUBLICATION X 2 / READY FOR PUBLICATION /  
516 MISSING SCHEME

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

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

521 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>

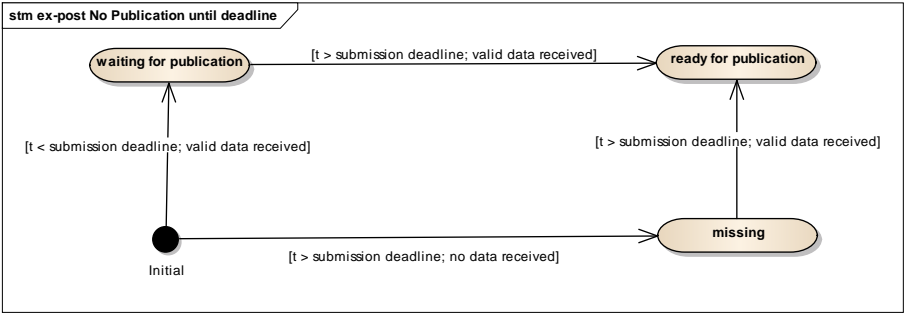
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none	none	Missing
waiting for publication	waiting for publication	ready for publication

522

523 The following state diagram describes the different possible states for an expected data and

524 the transition between them.



525

526 Whenever the platform receives data, at the beginning of the time interval or at submission

527 deadline, the platform checks state transition conditions to update the status of expected data.

528 **5.6 PUBLICATION**

- 529
- If a data has been declared as expected with a submission deadline, it is published whenever it is ready for publication
- 530
- 531
- When no submission deadline is required<sup>5</sup>, data will get published if declared as expected.
- 532
- 533
- 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.
- 534
- 535
- 536
- Status of data shall be visible.
- 537
- 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.
- 538
- 539
- 540

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



541 For every data item, it shall be possible to configure the publication schedule.

542 It shall be possible to distinguish between missing data and data not being expected.

543 Before submission deadline has been reached for a data item, it shall be visible to data  
544 providers and platform administrator whether data has been submitted or not.

545 When submission deadline is reached for a data item, there shall be visibility of the status of  
546 the data, i.e. whether it is overdue or not.

547 When filtering and sorting criteria are available, all applicable criteria will be displayed for the  
548 user to choose among. The criteria shall not be displayed If no data matching data is available  
549 – when for example there is no declared data provider for a given area, that area shall not  
550 appear as a filter criteria.

551 It shall be possible to filter data using value range criteria applied on the attributes of the data  
552 item.

553 Incomplete data shall not be published. For example: Unique code of production unit has been  
554 submitted with unavailability under data item [15.1.c], however reference data describing the  
555 production unit as per chapter 9.9 is missing. As a consequence, the unavailability will not be  
556 published.

## 557 5.7 ADMINISTRATION OF USERS AND ORGANISATIONS

558 The system shall support the creation, modification, suspension, reactivation and deletion of  
559 user accounts. Every user account shall be associated with an organisation.

560 It shall be possible to create, modify and delete user Roles, having different sets of privileges.  
561 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.

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<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>

General public and analysts are considered as the "end users" of the application.

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

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

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

## 5.8 WEB ACCESS

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

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

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

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

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

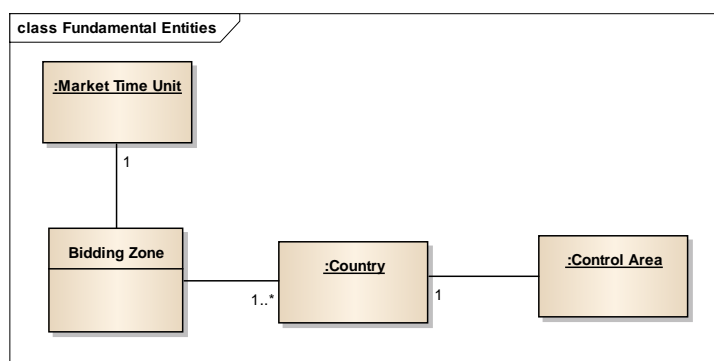
By default, data is displayed in Brussels time. Display and download are possible in UTC as well as in any available time zone.

## 6 LOAD

### 6.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 6.1.1 FUNDAMENTAL ENTITIES

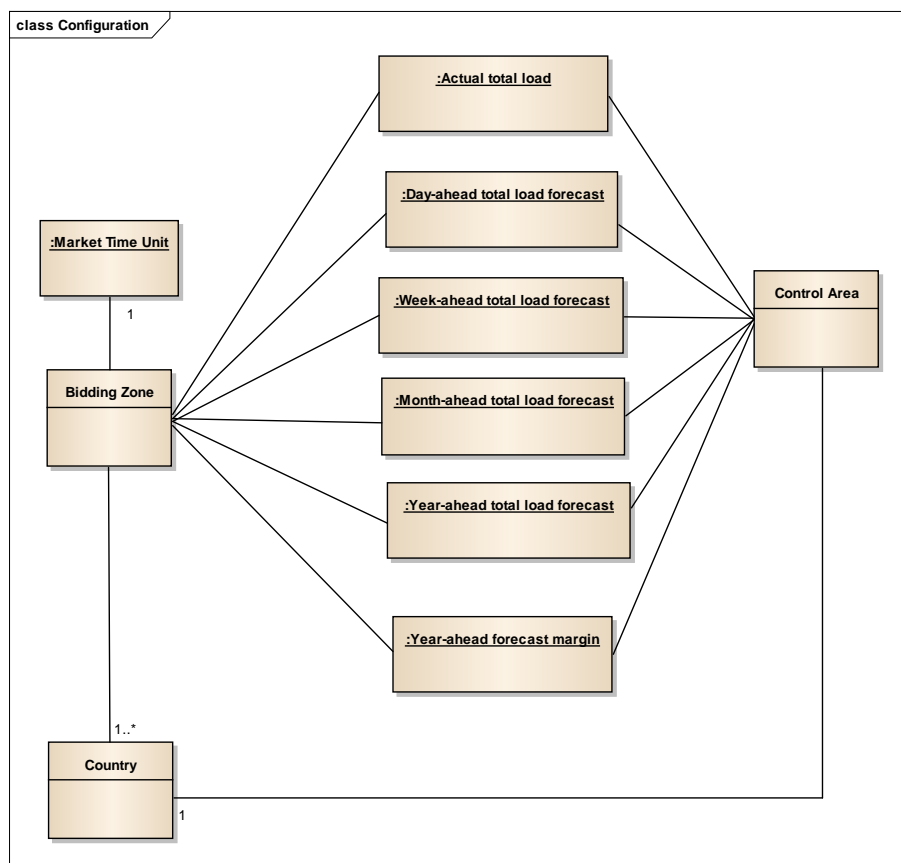
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 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.



## 6.1.2 PRE-CONFIGURATION

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

- [C-LD-1] a list of Bidding Zones (common with Generation domain, refer to section 9.1)
- [C-LD-2] a list of Control Areas (common with Generation domain, refer to section 9.1)
- [C-LD-3] for each Bidding Zone, the value of the Market Time Unit (common with Generation domain, refer to section 9.1)
- [C-LD-6] a list of countries and for each country, the corresponding Control Area(s). This is the same configuration as for Generation, refer to section 9.1

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

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

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

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

### 623 6.1.3 DATA CONTAINER STATUS / DATA STATUS

624 The ex-post data item "Actual Total Load" [6.1.a] follows the "none / waiting for publication /  
625 ready for publication / missing" scheme.

626 All other data items follow the "None / Ready for publication / Missing" scheme.

### 627 6.1.4 PUBLICATION

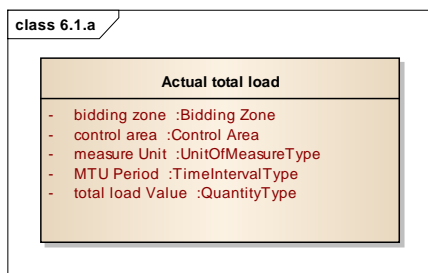
628 Data for a given bidding zone is being published as soon as it is complete, i.e. when all Data  
629 Providers have submitted their contributions.

630 For all data items, end user will have the choice between displaying data in a table or in a  
631 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.

655 **6.2.5 MONITORING**

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

658 **6.2.6 PROCESSING**

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

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

663 **6.2.7 PUBLICATION**

664 **6.2.7.1 FILTERING AND SORTING CRITERIA**

665 Data shall be visually accessed by selecting the following:

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

670 **6.2.7.2 DISPLAY**

671 This data shall be displayed in the following section:

672 **- Load / Actual Load**

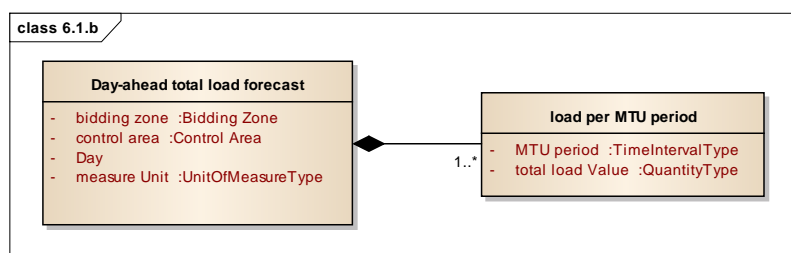
673 The following attributes of data shall be displayed:

- 674 - Title
- 675 - Country, Bidding Zone or Control Area name
- 676 - Day
- 677 - Measurement Unit
- 678 - 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.



701 **6.3.3 ASSUMPTIONS**

702 There are no assumptions specific to this data item.

703 **6.3.4 INTEGRATION**

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

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

707 **6.3.5 MONITORING**

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

710 **6.3.6 PROCESSING**

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

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

714 **6.3.7 PUBLICATION**

715 **6.3.7.1 FILTERING AND SORTING CRITERIA**

716 Data shall be visually accessed by selecting the following:

717 - Country or Bidding Zone (selection is mandatory)

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

720 - Day (Selection is mandatory)

721 **6.3.7.2 DISPLAY**

722 This data shall be displayed in the following section:

723 - **Load / Day-ahead forecast**

724 The following attributes of data shall be displayed:

725 - Title

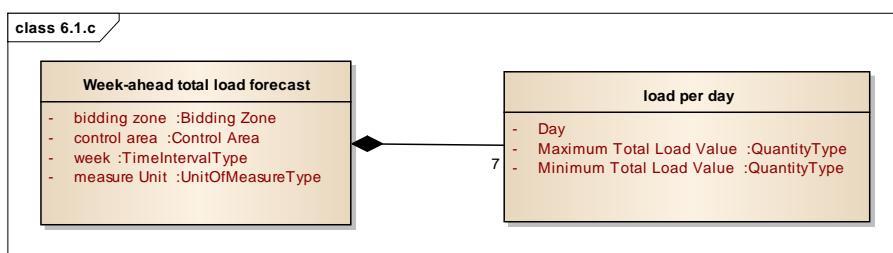
726 - Country, Bidding Zone or Control Area name

- 727 - Selected day
- 728 - Measurement Unit
- 729 - For each Market Time Unit period during the selected day, the forecast total load value
- 730

## 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.

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

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

### 757 6.4.3 ASSUMPTIONS

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

### 759 6.4.4 INTEGRATION

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

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

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

### 764 6.4.5 MONITORING

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

### 767 6.4.6 PROCESSING

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

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

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

### 777 6.4.7 PUBLICATION

#### 778 6.4.7.1 FILTERING AND SORTING CRITERIA

779 Data shall be visually accessed by selecting the following:

780 - Country or Bidding Zone (selection is mandatory)

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

783 - Week (Selection is mandatory)

#### 784 6.4.7.2 DISPLAY

785 This data shall be displayed in the following section:

##### 786 - Load / Week-ahead forecast

787 The following attributes of data shall be displayed:

788 - Title

789 - Country, Bidding Zone or Control Area name

790 - Selected week

791 - Measurement Unit

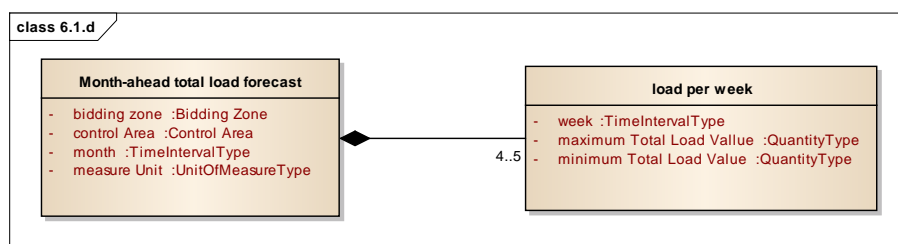
792 - For each day during the selected week, the forecast minimum total load value and maximum  
793 total load value

794

## 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

## 817 6.5.5 MONITORING

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

## 820 6.5.6 PROCESSING

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

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

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

## 827 6.5.7 PUBLICATION

### 828 6.5.7.1 FILTERING AND SORTING CRITERIA

829 Data shall be visually accessed by selecting the following:

- 830 - Country or Bidding Zone (selection is mandatory)
- 831 - Control Area (selection is optional and available only when Bidding Zone consists of several  
832 Control Areas)
- 833 - Month (Selection is mandatory)

### 834 6.5.7.2 DISPLAY

835 This data shall be displayed in the following section:

#### 836 - Load / Month-ahead forecast

837 The following attributes of data shall be displayed:

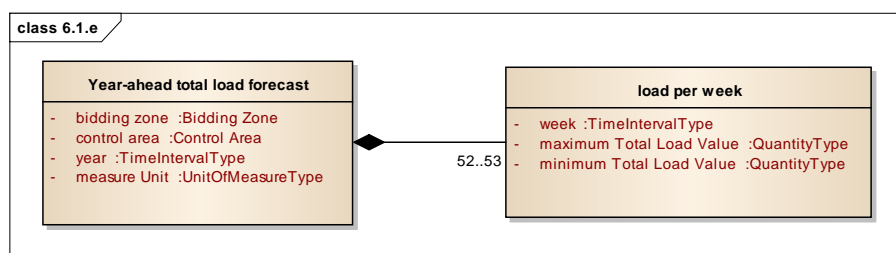
- 838 - Title
- 839 - Country, Bidding Zone or Control Area name
- 840 - Selected month
- 841 - Measurement Unit
- 842 - For each week within the selected month, the forecast minimum total load value and  
843 maximum total load value

844

## 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



## 867 6.6.5 MONITORING

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

## 870 6.6.6 PROCESSING

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

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

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

## 877 6.6.7 PUBLICATION

### 878 6.6.7.1 FILTERING AND SORTING CRITERIA

879 Data shall be visually accessed by selecting the following:

- 880 - Country or Bidding Zone (selection is mandatory)
- 881 - Control Area (selection is optional and available only when Bidding Zone consists of several  
882 Control Areas)
- 883 - Year (Selection is mandatory)

### 884 6.6.7.2 DISPLAY

885 This data shall be displayed in the following section:

#### 886 - Load / Year-ahead forecast

887 The following attributes of data shall be displayed:

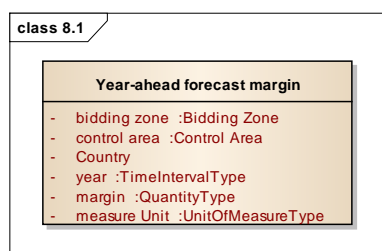
- 888 - Title
- 889 - Country, Bidding Zone or Control Area name
- 890 - Selected year
- 891 - Measurement Unit
- 892 - For each week within the selected year, the forecast minimum total load value and maximum  
893 total load value

894

## 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.*

## 921 6.7.3 ASSUMPTIONS

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

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

## 929 6.7.4 INTEGRATION

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

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

## 933 6.7.5 MONITORING

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

## 936 6.7.6 PROCESSING

937 No further processing is performed on this data item.

## 938 6.7.7 PUBLICATION

### 939 6.7.7.1 FILTERING AND SORTING CRITERIA

940 Data shall be visually accessed by selecting the following:

941 - Country or Bidding Zone (selection is mandatory)

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

944 - Year (Selection is mandatory)

### 945 6.7.7.2 DISPLAY

946 This data shall be displayed in the following section:

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

948 The following attributes of data shall be displayed:

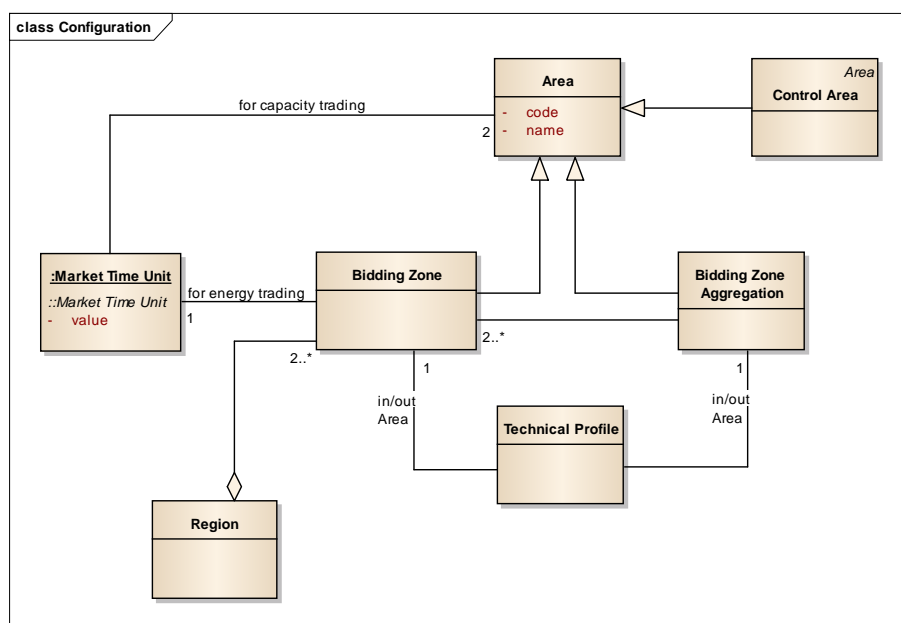
- 949 - Title
- 950 - Country, Bidding Zone or Control Area name
- 951 - Selected year
- 952 - Measurement Unit
- 953 - For the year, the forecast margin value

## 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.)

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

## 967 7.1.2 TRANSMISSION CAPACITY ALLOCATIONS

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

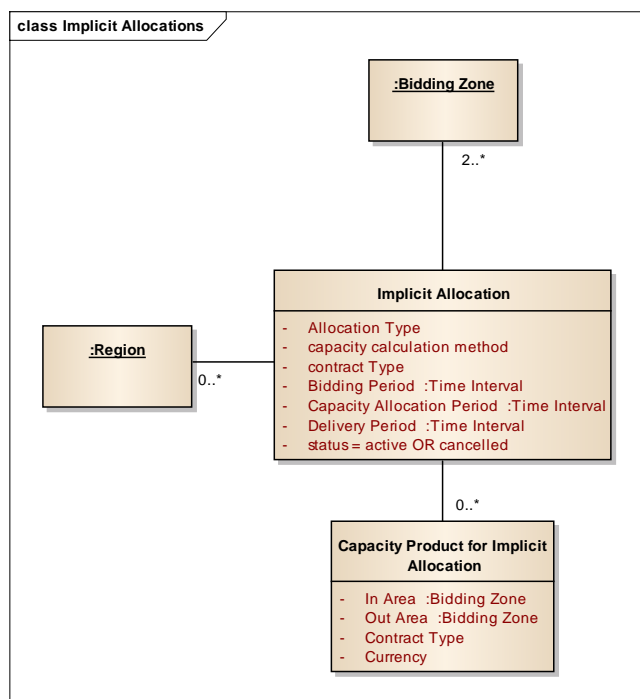
972 Both Implicit and Explicit Allocations present a Bidding Period, which is the time period where  
973 market participants can submit bids and a Capacity Allocation Period, which is the time  
974 period where the attribution of capacities to the participants is realised. The Bidding Period is  
975 optional and for information purposes only. Submission deadlines for many data items  
976 depend on the capacity allocation period which is mandatory.

### 977 7.1.2.1 IMPLICIT ALLOCATIONS

978 There are two types of Implicit Allocations: Market Coupling and Market Splitting. This  
979 distinction is for information purposes only. An Implicit Allocation that covers two or more  
980 Bidding Zones may be associated with a Region.

---

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



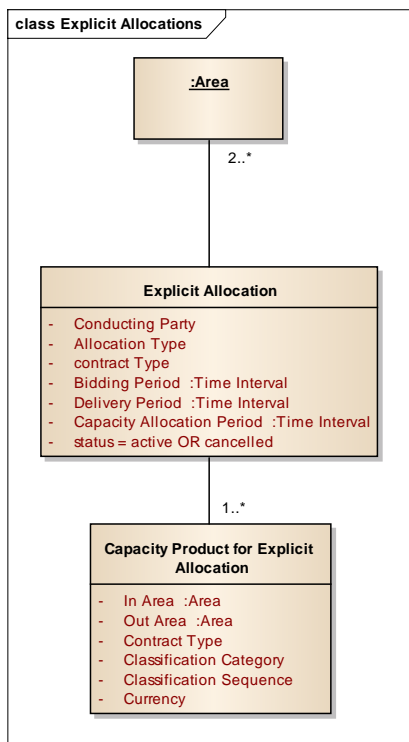
981

982 An implicit allocation offers daily and intraday capacity products only, each one being  
983 characterised by an In Area and an Out Area, and a Currency. Capacity calculation method is  
984 either ATC-based or flow-based. For allocations using flow-based capacity calculation method,  
985 capacity products do not apply.

## 986 7.1.2.2 EXPLICIT ALLOCATIONS

987 An Explicit Allocation occurs between several (2 to n) Areas and is optionally associated with  
988 a Conducting Party<sup>12</sup>.

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



989

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

995 There are explicit allocations that formally speaking are not auctions and do not have a bidding  
996 period – this is typically the case when the contract type is intraday.

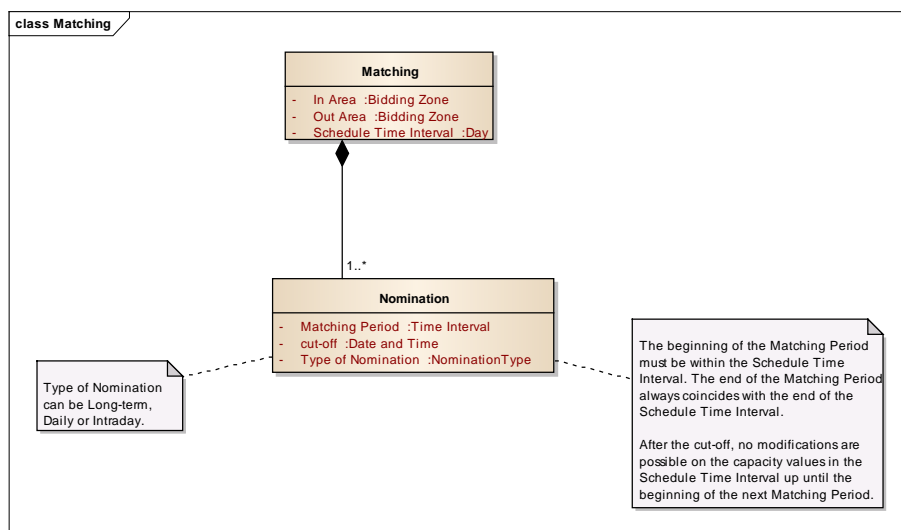
997 By default, the Allocation Type is not specified. However there is a particular case where  
998 Allocation Type is “shadow auction”. This is a fall-back solution, replacing a daily implicit  
999 auction. Platform will not perform any monitoring of data submissions related to shadow  
1000 auctions.

1001 The second special case is when Allocation Type is “continuous”. Prices or revenue will then  
1002 not be expected under data item Use of the Transfer Capacity [12.1.a]. Further, monitoring will



1003 not be performed on the submission of requested and allocated capacity since no precise  
1004 submission deadline can be determined.

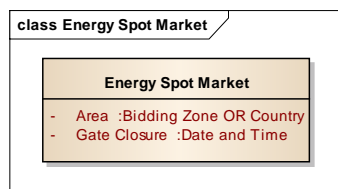
### 1005 7.1.3 MATCHING



1006  
1007 The matching process between TSOs is part of the nomination process (or nomination round).  
1008 Matching may occur on a long-term, daily and also intraday basis for every couple of In and  
1009 Out Areas. Matching is performed after the cut-off time. The cut-off time is the deadline for  
1010 submission of nominations by the market to the respective TSOs.

1011  
1012 For a given couple of Bidding Zones and day (the Schedule Time Interval), the Matching Period  
1013 represents the period of the Schedule for which matching process is completed. A Nominations  
1014 process is considered finished for the Schedule Time Interval after the matching process is  
1015 complete and until the beginning of the next nomination round with has its own specific  
1016 Matching Period.

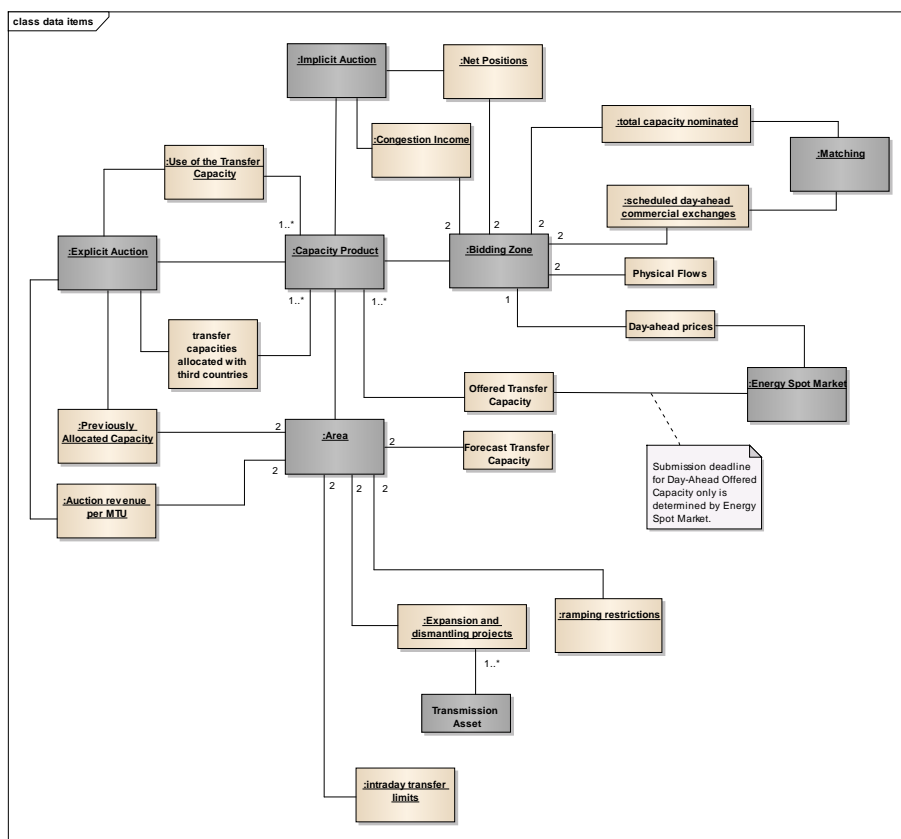
### 1017 7.1.4 ENERGY SPOT MARKET



1018

1019 In every Bidding Zone or Country<sup>13</sup> there is an Energy Spot Market that has a daily gate  
1020 closure.

## 1021 7.1.5 DATA ITEMS



1022  
1023 For several data items, applicable Bidding Zones or Areas will be deduced from the capacity  
1024 products associated with the given allocation instance. Further, the instance's allocation period  
1025 will influence the submission deadline. Hence, the configuration of the allocation process will  
1026 indirectly control monitoring of submission compliance, both in terms of completeness and  
1027 timing.

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

1028 The applicable areas and submission deadlines of the data items that record offered transfer  
1029 capacities (chapters 7.8 through 7.13) will depend on the configuration of the allocation  
1030 process. Forecasted transfer capacities have their own independent configuration of applicable  
1031 areas and submission deadlines.

1032 For implicit allocations, applicable bidding zones and submission deadlines for data items Net  
1033 Positions (see chapter 7.23) and Congestion Income (see chapter 7.24) depend on the implicit  
1034 auction's capacity products and capacity allocation period.

1035 Similarly for explicit allocations, the applicable areas and submission deadlines for the data  
1036 items Previously Allocated Capacity (see chapter 7.21), Use of the Transfer Capacity (see  
1037 chapter 7.18) and Transfer Capacities Allocated with Third Countries (see chapter 7.27)  
1038 depend on the explicit allocation's capacity products and capacity allocation period.

1039 The submission deadlines for the data items Total Nominated Capacity (see chapter 7) and  
1040 Scheduled Day-Ahead Commercial Exchanges (see chapter 7) depend on the configuration of  
1041 the matching process.

1042 For the data item Day-Ahead Prices, (see chapter 7.22), the submission deadlines depend on  
1043 the Energy Spot Market configuration.

#### 1044 7.1.6 PRE-CONFIGURATION

1045 The platform administrator at ENTSO-E shall pre-configure the platform with the following  
1046 reference data:

- 1047 - [C-TRM-1] a list of Bidding Zones (e.g. FR). This is the same reference data as in  
1048 Generation and Load domains.
- 1049 - [C-TRM-2] a list of Bidding Zone Aggregations (for Technical Profiles) (e.g. DE-CZ-SK)
- 1050 - [C-TRM-3] a list of Technical Profiles (e.g. PL -> DE-CZ-SK)
- 1051 - [C-TRM-4] for each Bidding Zone, the Market Time Unit for energy trading
- 1052 - [C-TRM-5] for each couple of Areas, the Market Time Unit for capacity trading (if applicable)
- 1053 - [C-TRM-6] a list of Regions and for each region the Bidding Zones that constitute the  
1054 Region
- 1055 - [C-TRM-7] a list of Contract Types (for example Intraday, Daily, Weekly, quarterly,  
1056 semester,...)
- 1057 - [C-TRM-8] a list of Classification Categories (for example, Base, Peak, ...)
- 1058 - [C-TRM-9] for each Bidding Zone, the Currency. This is used for validation in data item Day  
1059 Ahead Prices [12.1.d]

1060 - [C-TRM-10] a list of countries and for each country, the corresponding Control Area(s). This  
1061 is the same reference data as in Generation and Load domains. It will be used to facilitate  
1062 search and filtering of published data by country.

1063 - [C-TRM-11] for each Bidding Zone the country or countries that it covers completely or  
1064 partially. This is the same reference data as in Load domain. It will be used to facilitate  
1065 search and filtering of published data by country.

1066 - [C-TRM-12] a list of valid Roles. This is used to validate Role of Data Provider in the  
1067 context of Forecast transfer capacity [11.1].

1068 Data Providers will be responsible for pre-configuring the platform with:

1069 - Allocations and associated Capacity Products. Details are provided in chapter 7.28

1070 - For Matching: Per couple of In and Out Bidding Zones, cut-offs and corresponding time  
1071 intervals. Details as in chapter 7.1.3

1072 - For Energy Spot Markets: Gate closure per Bidding Zone. Details as in chapter 7.1.4

#### 1073 7.1.7 DATA CONTAINER STATUS / DATA STATUS

1074 For all data items except the reports [11.3] and [11.4], data follows the “None / Ready for  
1075 publication / Missing” scheme if properly declared as expected and if the submission  
1076 deadline has been configured.

#### 1077 7.1.8 PUBLICATION

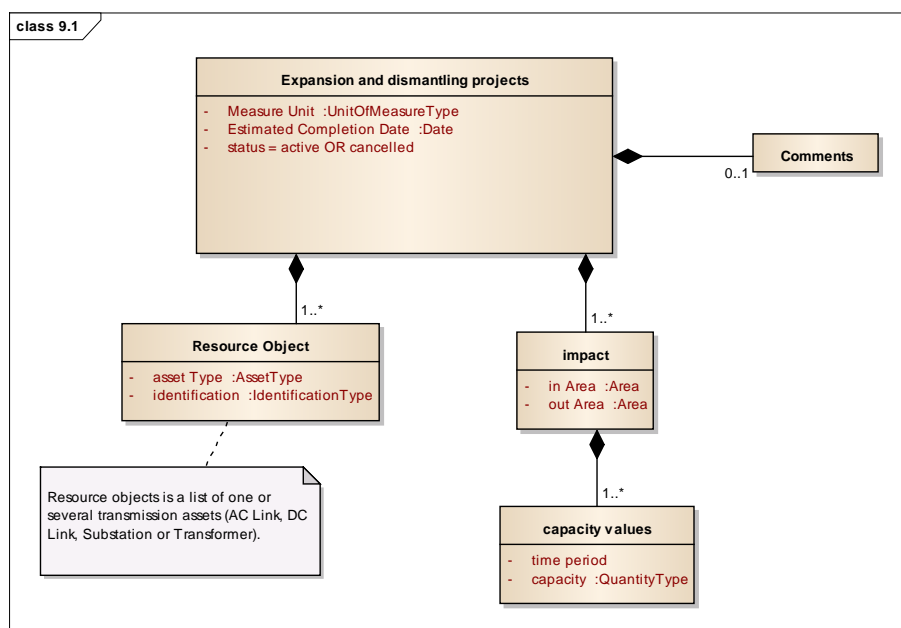
1078 For all data items except the report data items [11.3] and [11.4], data shall be available on web  
1079 site in all three formats; table, map and chart, unless explicitly stated otherwise in the chapters  
1080 dedicated to each data item.

1081

## 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.

1095 **7.2.2 PRE-CONFIGURATION**

- 1096 - A list of Area couples for which the data item "Expansion and Dismantling Projects"  
1097 may be submitted
- 1098 - For each Area couple, one or several Data Providers

1099 **7.2.3 ASSUMPTIONS**

- 1100 Transmission Assets have been declared with the mechanism described in chapter 11.11.
- 1101 Monitoring is not feasible for this data item, since projects cannot be anticipated.
- 1102 If more than one Data Provider submits data for given border, those Data Providers will  
1103 coordinate between themselves the submitted data. Single submission for all of ENTSO-E  
1104 could also be coordinated at the level of ENTSO-E secretariat.

1105 **7.2.4 INTEGRATION**

- 1106 - Area couple shall be recognised by the platform
- 1107 - The Data Provider shall be consistent with the identified Area couple
- 1108 - Transmission Assets are recognised by platform
- 1109 - Estimated impact is equal to or greater than 100 MW (configurable)

1110 **7.2.5 MONITORING**

- 1111 Monitoring is not performed on this data item.

1112 **7.2.6 PROCESSING**

- 1113 No processing is performed by the platform on this data item.

1114 **7.2.7 PUBLICATION**

1115 **7.2.7.1 PUBLICATION BEHAVIOUR**

- 1116 Latest version shall be published, however previous versions shall remain available on  
1117 platform.

1118 **7.2.7.2 FILTERING AND SORTING CRITERIA**

- 1119 End user shall be able to select data for display by specifying:

- 1120 - Country (optional - If selected, In and/or Out Areas that at least partially cover the Country
- 1121 will be used as filtering criteria)
- 1122 - One or two Areas with direction (optional)
- 1123 - year or year range (mandatory)
- 1124 - status (optional)
- 1125 **7.2.7.3 DISPLAY**
- 1126 This data shall be displayed in the following section:
- 1127 Transmission / Expansion and dismantling projects
- 1128 The following attributes of data shall be displayed for all projects whose estimated completion
- 1129 date falls within the selected year or year range:
- 1130 - Title
- 1131 - Unit of measurement (MW)
- 1132 - status (active or cancelled)
- 1133 - For each couple of Areas and direction, the estimated impact and the estimated date of
- 1134 completion, and any comments. The concerned assets shall be published as a list, with links
- 1135 to pages providing further details on each asset.
- 1136 Data shall be displayed in table format only.
- 1137

## 1138 7.3 EXPANSION AND DISMANTLING PROJECTS 1139 (REPORT) [9.1]

### 1140 7.3.1 DATA DESCRIPTION

1141 This data item consists of a report in the form of a PDF file, describing the expansion and  
1142 dismantling projects in a given control area. The report has a publication date and a date range  
1143 for which it is valid. A data provider that wishes to express the impact of projects as a value  
1144 range would submit this information in a PDF report.

1145 Alternatively, data providers may submit this data in structured format, see chapter 7.2.

### 1146 7.3.2 PRE-CONFIGURATION

1147 Data Providers shall be able to configure the following reference data on the platform:

- 1148 - A list of Control Areas
- 1149 - For each Control Area, the unique Data Provider

### 1150 7.3.3 ASSUMPTIONS

1151 Data is submitted as a report. No monitoring is performed on this data item.

### 1152 7.3.4 INTEGRATION

1153 Data Provider shall on the platform's web site, on the same page where these reports are  
1154 published, be able to upload a PDF file and associated it with one Control Area. Platform  
1155 shall validate that the Data Provider is authorized for the given Control Area.

### 1156 7.3.5 MONITORING

1157 No monitoring is performed on this data item.

### 1158 7.3.6 PROCESSING

1159 No processing is performed on this data item.

### 1160 7.3.7 PUBLICATION

#### 1161 7.3.7.1 PUBLICATION BEHAVIOUR

1162 Documents are published immediately after upload. All versions shall be published.



1163 7.3.7.2 FILTERING AND SORTING CRITERIA

1164 - Country or Control Area (mandatory)

1165 - Date range (optional)

1166 7.3.7.3 DISPLAY

1167 This data shall be displayed in the following section:

1168 **Transmission / Expansion and dismantling projects (report)**

1169 Each report shall be available for download by clicking a link.

1170 For every report, the publication date and validity date range shall be displayed.

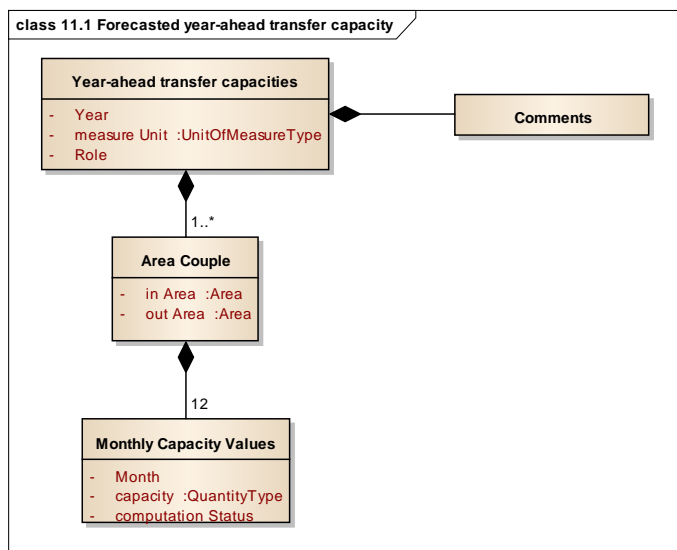
1171

## 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.

1186 - For each couple of Areas mentioned above, one or several Data Providers.

1187 - For each couple of Areas mentioned above, the yearly submission deadline:

1188 At the latest one week (W-1) before the yearly allocation process

1189 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1190 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*  
1191 *from 15<sup>th</sup> November 2012, 20:00 UTC until 18<sup>th</sup> November 22:00 UTC, the document shall*  
1192 *be submitted before November 8<sup>th</sup>, 2012, 20:00 UTC.*

1193 or

1194 at the latest December 15 the preceding year at 24:00 UTC.

1195 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1196 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1197 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*

#### 1198 7.4.3 ASSUMPTIONS

1199 Values should be given per month, but a higher resolution is possible (up to the Market Time  
1200 Unit used by the couple of Areas).

1201 Submission can be done by multiple Data Providers.

#### 1202 7.4.4 INTEGRATION

1203 - Areas shall be recognised by the platform

1204 - The Data Provider shall be consistent with pre-configuration described in 7.4.2

1205 - The time interval of the submitted document is one year

1206 - Role of Data Provider is recognised, as per [C-TRM-12]

#### 1207 7.4.5 MONITORING

1208 Platform shall monitor that forecasted yearly transfer capacity values are submitted for all area  
1209 couples declared in pre-configuration, see section 7.4.2, before the submission deadline  
1210 described in same section. If no data has been submitted, all declared Data Providers will be  
1211 notified.

#### 1212 7.4.6 PROCESSING

1213 The following processing applies:

- 1214 - In case the resolution of the submitted document is higher than a month, the lowest value of  
1215 the submitted data should be calculated for each month. For example if data is submitted in  
1216 daily values a computation must be made to compute the lowest daily value for every given  
1217 month of the submitted year. This makes it possible to compare this data with data submitted  
1218 with a monthly resolution.
- 1219 - Once values are computed per month, the platform must apply the following business rule  
1220 [PR-11.1], when processing submitted data for a given oriented couple of Areas and month in  
1221 order to determine whether data shall be marked as "minimum value" or "computed minimum  
1222 value".
- 1223       • If data is received for a given couple of Areas from a Data Provider the data will be  
1224 marked (computation status) as "minimum value".
- 1225       • If data is received for the same oriented couple of Areas, from a different Data Provider  
1226 the platform must compute the 'minimum' value from the two received values and  
1227 isolate this value as the value to be published with a "computed minimum value"  
1228 computation status. The previously marked "minimum value" computation status must  
1229 be deleted.
- 1230       • If data is marked as "minimum value" and the same Data Provider sends a new version  
1231 to the platform, the platform will consider this latest version for publication by marking  
1232 it as "minimum value" and delete the previous "minimum value" computation status.
- 1233       • If data is computed and marked as "computed minimum value" and either Data Provider  
1234 involved sends a new version of the document, the platform must compute the  
1235 'minimum' value from the received value and the value from the other Data Provider  
1236 and will isolate this value as the value to be published, with the "computed minimum  
1237 value" computation status. The "computed minimum value" computation status must  
1238 be deleted from the previous version of the value.
- 1239       • If data is received for a given couple of Areas from a Data Provider with the role  
1240 "Capacity Coordinator (CCrd)" or "Transmission Capacity Allocator (TCA)", the data will  
1241 be marked as "computed minimum value".
- 1242       • If data is marked as "computed minimum value" and the Data Provider with the role  
1243 "CCrd" or "TCA" sends a new version to the platform, the platform will consider this  
1244 latest version of the information for display by marking it as "computed minimum value"  
1245 and delete from the previous version the "computed minimum value" computation  
1246 status.
- 1247

1248 7.4.7 PUBLICATION

1249 7.4.7.1 PUBLICATION BEHAVIOUR

1250 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1251 computation status. Data without any computation status shall not be published. This rule takes  
1252 precedence over the common rule which states that all versions of the data are available on  
1253 the platform.

1254 7.4.7.2 FILTERING AND SORTING CRITERIA

1255 Data shall be visually accessed by selecting the following:

1256 Year (Selection is mandatory)

1257 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1258 partially or completely cover the Country)

1259 Optionally, user may specify Area, couple of Areas and direction.

1260 7.4.7.3 DISPLAY

1261 This data shall be displayed in the following section:

1262 - **Forecasted transfer capacities / year-ahead**

1263 The following attributes of data shall be displayed:

1264 - Title

1265 - Measurement Unit

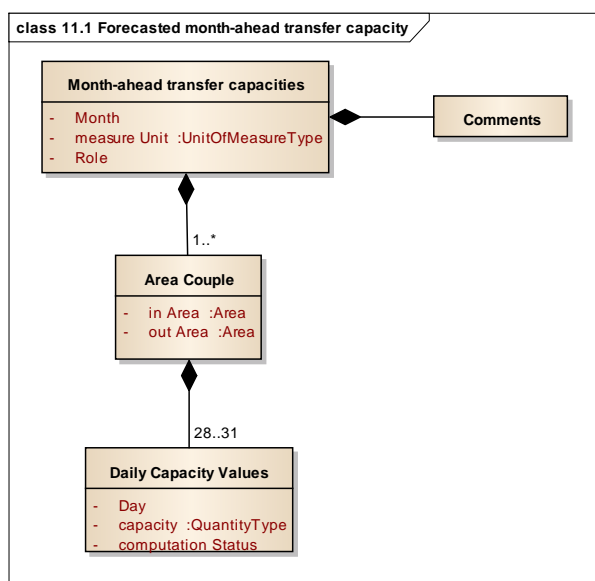
1266 - Comments

1267 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1268 each month within the selected year, the capacity value and its computation status  
1269

## 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

1285 - For each couple of Areas mentioned above, the monthly submission deadline:

1286 For a given month, submission must be done at the latest two working days (D-2) before  
1287 the monthly allocation process.

1288 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1289 *the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity*  
1290 *Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the document shall*  
1291 *be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*

### 1292 7.5.3 ASSUMPTIONS

1293 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit  
1294 used by the couple of Areas).

1295 Submission can be done by multiple Data Providers.

### 1296 7.5.4 INTEGRATION

1297 - Areas shall be recognised by the platform

1298 - The Data Provider shall be consistent with pre-configuration described in 7.5.2

1299 - The time interval of the submitted document is one month

1300 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1301 7.5.5 MONITORING

1302 Platform shall monitor that forecasted monthly transfer capacity values are submitted for all  
1303 area couples declared in pre-configuration, see section 7.5.2, before the submission deadline  
1304 described in same section. If no data has been submitted, all declared Data Providers will be  
1305 notified.

### 1306 7.5.6 PROCESSING

1307 The following processing applies:

1308 - In case the resolution of the submitted document is higher than a day, the lowest value of the  
1309 submitted data should be calculated for each day. For example if data is submitted per MTU  
1310 period a computation must be made to compute the lowest daily value for every given day of  
1311 the submitted month. This makes it possible to compare this data with data submitted with a  
1312 daily resolution.

1313 - Once values are computed per day, the platform must apply the business rule [PR-11.1],  
1314 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas

1315 and day in order to determine whether data shall be marked as “minimum value” or “computed  
1316 minimum value”.

## 1317 7.5.7 PUBLICATION

### 1318 7.5.7.1 PUBLICATION BEHAVIOUR

1319 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1320 computation status. Data without any computation status shall not be published. This rule takes  
1321 precedence over the common rule which states that all versions of the data are available on  
1322 the platform.

### 1323 7.5.7.2 FILTERING AND SORTING CRITERIA

1324 Data shall be visually accessed by selecting the following:

1325 Month (Selection is mandatory)

1326 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1327 partially or completely cover the Country)

1328 Optionally, user may specify Area, couple of Areas and direction.

### 1329 7.5.7.3 DISPLAY

1330 This data shall be displayed in the following section:

#### 1331 - Forecasted transfer capacities / month-ahead

1332 The following attributes of data shall be displayed:

1333 - Title

1334 - Month

1335 - Measurement Unit

1336 - Comments

1337 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1338 each day within the selected month the capacity value and its computation status  
1339

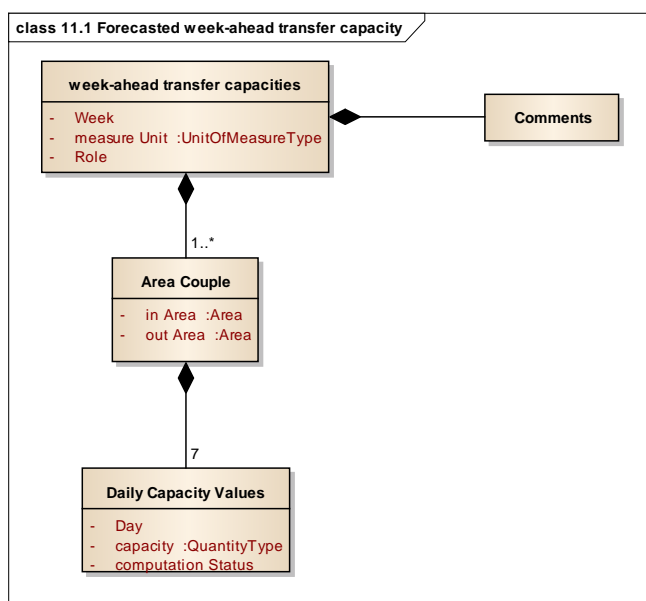


## 7.6 FORECASTED WEEK-AHEAD TRANSFER CAPACITIES

### [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

- 1354 - For each couple of Areas mentioned above, one or several Data Providers
- 1355 - For each couple of Areas mentioned above, the weekly submission deadline: Friday before  
1356 the week for which values refer to.
- 1357 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1358 *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*  
1359 *March), the document shall be submitted before Friday March 9<sup>th</sup>, 2012, 24:00 UTC.*

### 1360 7.6.3 ASSUMPTIONS

- 1361 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit  
1362 used by the couple of Areas).
- 1363 Submission can be done by multiple Data Providers.

### 1364 7.6.4 INTEGRATION

- 1365 - Areas shall be recognised by the platform
- 1366 - The Data Provider shall be consistent with pre-configuration described in 7.6.2
- 1367 - The time interval of the submitted document is one week
- 1368 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1369 7.6.5 MONITORING

- 1370 Platform shall monitor that forecasted weekly transfer capacity values are submitted for all area  
1371 couples declared in pre-configuration, see section 7.6.2, before the submission deadline  
1372 described in same section. If no data is submitted, all declared Data Providers will be notified.

### 1373 7.6.6 PROCESSING

- 1374 The following processing applies:
- 1375 - In case the resolution of the submitted document is higher than a day, the lowest value of the  
1376 submitted data should be calculated for each day. For example if data is submitted in hourly  
1377 values a computation must be made to compute the lowest hourly value for every given day of  
1378 the submitted week. This makes it possible to compare this data with data submitted with a  
1379 daily resolution.
- 1380 - Once values are computed per day, the platform must apply the business rules [PR-11.1],  
1381 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas  
1382 and day in order to determine whether data shall be marked as "minimum value" or "computed  
1383 minimum value".

## 1384 7.6.7 PUBLICATION

### 1385 7.6.7.1 PUBLICATION BEHAVIOUR

1386 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1387 computation status. Data without any computation status shall not be published. This rule takes  
1388 precedence over the common rule which states that all versions of the data are available on  
1389 the platform.

### 1390 7.6.7.2 FILTERING AND SORTING CRITERIA

1391 Data shall be visually accessed by selecting the following:

1392 Week (Selection is mandatory)

1393 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1394 partially or completely cover the Country)

1395 Optionally, user may specify Area, couple of Areas and direction.

### 1396 7.6.7.3 DISPLAY

1397 This data shall be displayed in the following section:

#### 1398 - **Forecasted transfer capacities / week-ahead**

1399 The following attributes of data shall be displayed:

1400 - Title

1401 - Week

1402 - Measurement Unit

1403 - Comments

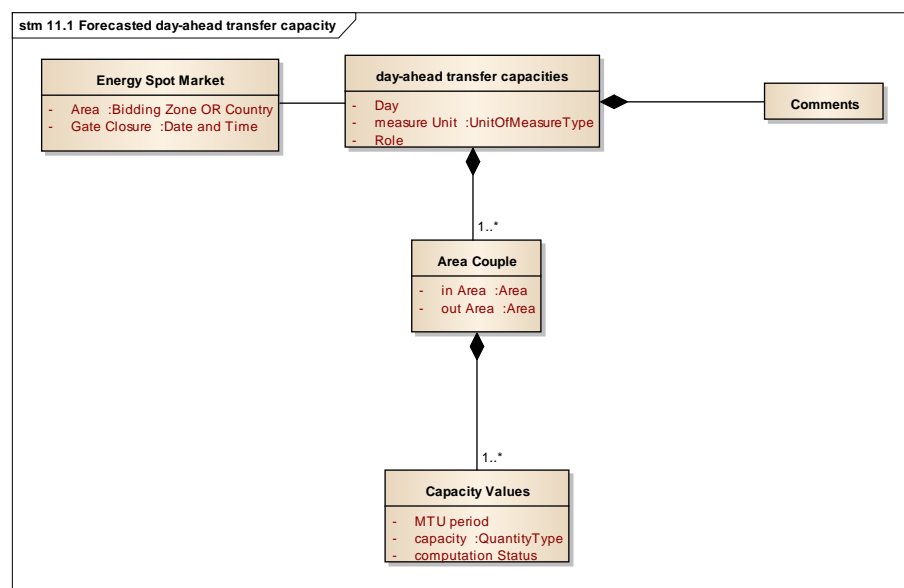
1404 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1405 each day within the week the capacity value and its computation status  
1406

## 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

1422 - For each couple of Areas mentioned above, the daily submission deadline: 1 hour before  
1423 spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of energy  
1424 spot markets.

1425 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1426 *and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval of*  
1427 *March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00 UTC.*

### 1428 7.7.3 ASSUMPTIONS

1429 Submission can be done by multiple Data Providers.

### 1430 7.7.4 INTEGRATION

- 1431 - Areas shall be recognised by the platform
- 1432 - The Data Provider shall be consistent with pre-configuration described in 7.6.2
- 1433 - The time interval of the submitted document is one day
- 1434 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1435 7.7.5 MONITORING

1436 Platform shall monitor that forecasted daily transfer capacity values are submitted for all area  
1437 couples declared in pre-configuration, see section 7.6.2, before the submission deadline  
1438 described in same section. If no data is submitted, all declared Data Providers will be notified.

### 1439 7.7.6 PROCESSING

1440 The platform must apply the business rules [PR-11.1], refer to chapter 7.4.6, when processing  
1441 submitted data for a given oriented couple of Areas and day in order to determine whether  
1442 data shall be marked as “minimum value” or “computed minimum value”.

### 1443 7.7.7 PUBLICATION

#### 1444 7.7.7.1 PUBLICATION BEHAVIOUR

1445 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1446 computation status. Data without any computation status shall not be published. This rule takes  
1447 precedence over the common rule which states that all versions of the data are available on  
1448 the platform.

#### 1449 7.7.7.2 FILTERING AND SORTING CRITERIA

1450 Data shall be visually accessed by selecting the following:

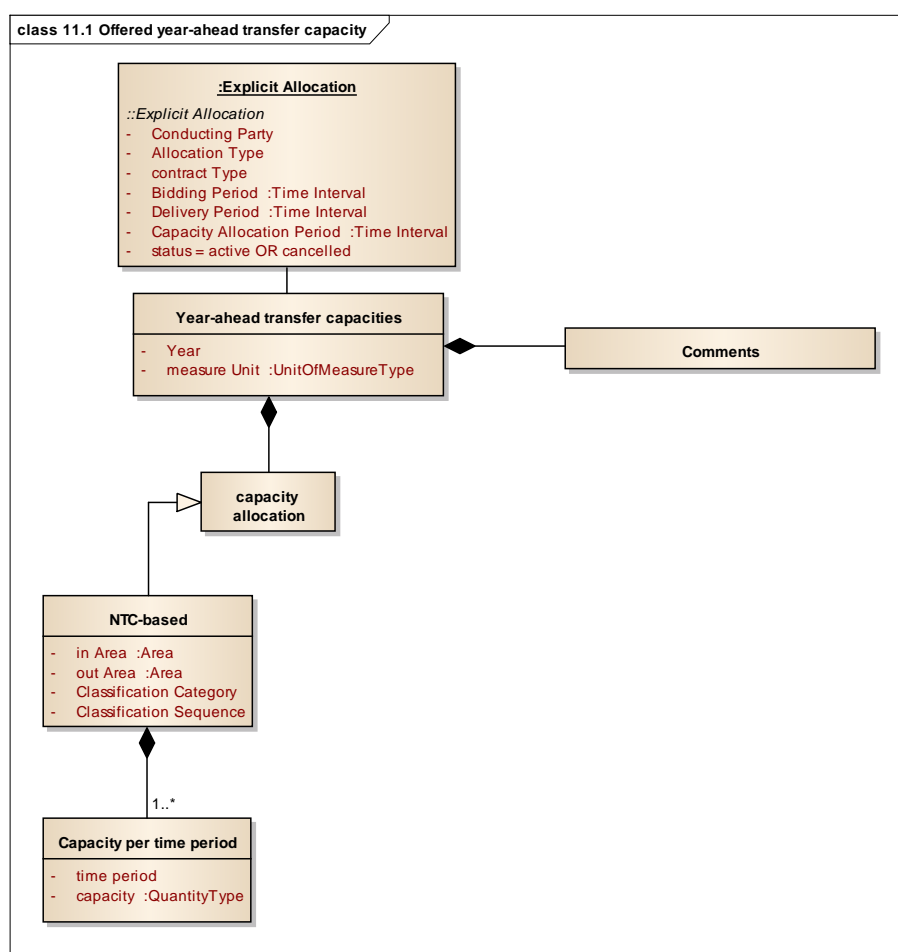
- 1451 Day (Selection is mandatory)
- 1452 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1453 partially or completely cover the Country)
- 1454 Optionally, user may specify Area, couple of Areas and direction.
- 1455 **7.7.7.3 DISPLAY**
- 1456 This data shall be displayed in the following section:
- 1457 **- Forecasted transfer capacities / day-ahead**
- 1458 The following attributes of data shall be displayed:
- 1459 - Title
- 1460 - Day
- 1461 - Measurement Unit
- 1462 - Comments
- 1463 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1464 each MTU period within the day the capacity value and its computation status  
1465

## 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.

- 1472 Yearly offered transfer capacities are associated with a yearly explicit transmission auction.
- 1473 Offered year-ahead transfer capacities are described between an In Area (the Area flows come  
1474 into) and an out Area (the Area flows come out), for one year, with a single capacity value for  
1475 the whole year expressed in Measure Unit.
- 1476 Capacity values are submitted separately per Classification Category and Classification  
1477 Sequence.
- 1478 Optionally, offered year-ahead transfer capacities can be complemented with comments.
- 1479 **Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.
- 1480 **7.8.2 PRE-CONFIGURATION**
- 1481 - Year-ahead transfer capacities are expected for all couples of Areas covered by a yearly  
1482 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1483 auction's capacity products.
- 1484 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1485 configuration. Refer to chapter 7.28.1.3 for details.
- 1486 The submission deadline is one week (W-1) before the yearly allocation process, but no later  
1487 than the 15<sup>th</sup> of December. Therefore, there shall be a default submission deadline set to one  
1488 week before the start of the yearly auction's capacity allocation period. Additionally, it must  
1489 be possible to specify another deadline that supersedes the default.
- 1490 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1491 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*  
1492 *from November 2012, 15<sup>th</sup> 20:00 UTC to 18<sup>th</sup> 22:00 UTC, the document shall be submitted*  
1493 *before November 8<sup>th</sup>, 2012, 20:00 UTC.*
- 1494 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1495 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1496 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*
- 1497 The submission deadline is the same for all area couples covered by the auction's capacity  
1498 products.
- 1499 **7.8.3 ASSUMPTIONS**
- 1500 A single value should be provided for the whole year, but a higher resolution is possible (up to  
1501 the Market Time Unit used by the couple of Areas).
- 1502 There is not more than one Data Provider per auction instance.



1503 7.8.4 INTEGRATION

- 1504 - Areas shall be recognised by the platform
- 1505 - The Data Provider shall be consistent with the auction configuration
- 1506 - The time interval of the submitted document is one year

1507 7.8.5 MONITORING

- 1508 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1509 are submitted for all area couples as deduced from the auction's capacity products. The  
1510 submission deadline described in section 7.8.2 will be monitored.
- 1511 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1512 Classification Categories and Classification Sequences).

1513 7.8.6 PROCESSING

- 1514 No processing is performed on this data item.

1515 7.8.7 PUBLICATION

1516 7.8.7.1 PUBLICATION BEHAVIOUR

- 1517 No specific publication behaviour applies.

1518 7.8.7.2 FILTERING AND SORTING CRITERIA

- 1519 Data shall be visually accessed by selecting the following:
- 1520 Year (Selection is mandatory)
- 1521 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1522 partially or completely cover the Country)
- 1523 Optionally, user may specify Area, couple of Areas and direction.

1524 7.8.7.3 DISPLAY

- 1525 This data shall be displayed in the following section:
- 1526 - **offer of transfer capacities / year-ahead**
- 1527 The following attributes of data shall be displayed:
- 1528 - Title

1529 - Measurement Unit

1530 - Comments

1531 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1532 capacity value (for every classification category and classification sequence)

1533 If capacity values vary during the year, it shall be possible to expand the view so that they are  
1534 displayed as a curve and in a table.

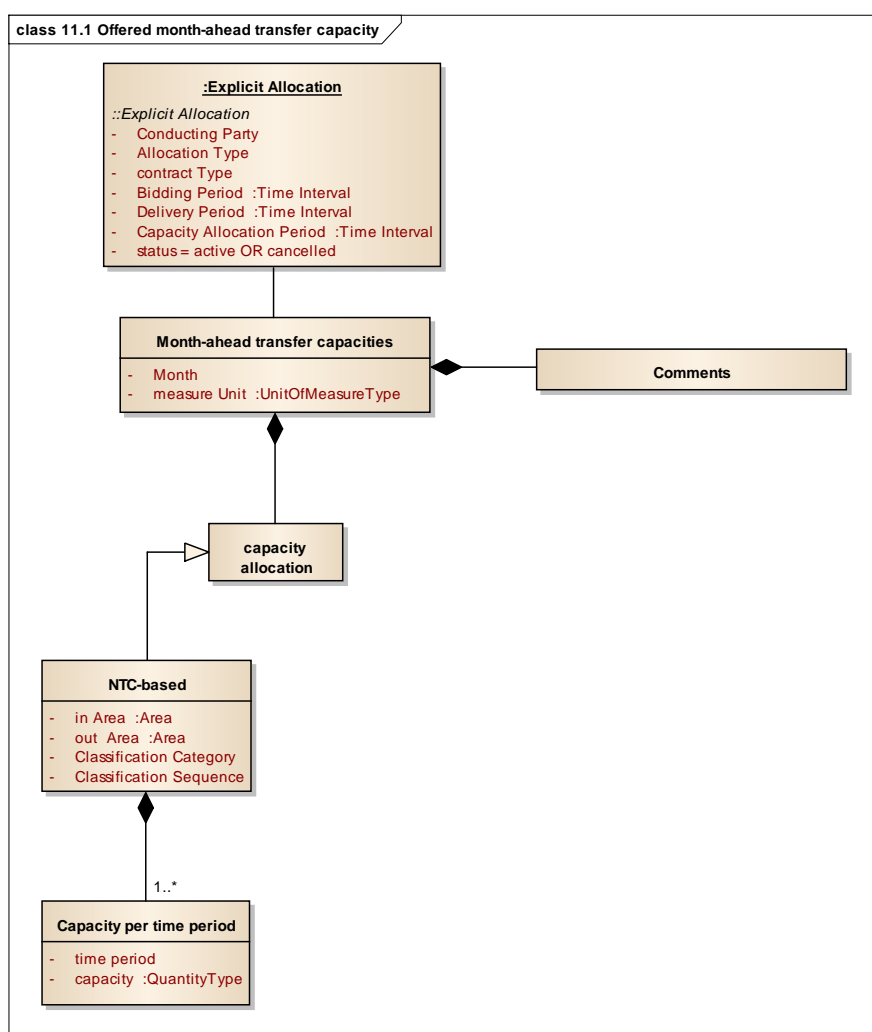
1535

## 7.9 OFFERED MONTH-AHEAD TRANSFER CAPACITIES

### [11.1]

#### 7.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



- 1541 The document shall cover the offered capacities related to one auction only.
- 1542 Monthly offered transfer capacities are associated with a monthly explicit transmission auction.
- 1543 Offered 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 single capacity value expressed in Measure Unit.
- 1544
- 1545
- 1546 Capacity values are submitted separately per Classification Category and Classification Sequence.
- 1547
- 1548 Optionally, offered month-ahead transfer capacities can be complemented with comments.
- 1549 **Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

#### 1550 7.9.2 PRE-CONFIGURATION

- 1551 - Month-ahead offered transfer capacities are expected for all couples of Areas covered by a monthly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an auction's capacity products.
- 1552
- 1553
- 1554 - For each Auction, the Data Provider is the one indicated in the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.
- 1555
- 1556 For a given month, submission must be done at the latest two working days (D-2) before the start of the Allocation Period of the associated monthly explicit auction bidding.
- 1557
- 1558 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone, the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the document shall be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*
- 1559
- 1560
- 1561
- 1562 The submission deadline applies to all area couples covered by the auction.

#### 1563 7.9.3 ASSUMPTIONS

- 1564 A single value should be given for the whole month, but a higher resolution is possible (up to the Market Time Unit used by the couple of Areas).
- 1565
- 1566 There is not more than one Data Provider per auction instance.

#### 1567 7.9.4 INTEGRATION

- 1568 - Areas shall be recognised by the platform
- 1569 - The Data Provider shall be consistent with the auction configuration
- 1570 - The time interval of the submitted document is one month

## 1571 7.9.5 MONITORING

1572 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1573 are submitted for all area couples as deduced from the auction's capacity products. There is  
1574 a submission deadline as described in section 7.9.2.

1575 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1576 Classification Categories and Classification Sequences).

## 1577 7.9.6 PROCESSING

1578 No processing is performed on this data item.

## 1579 7.9.7 PUBLICATION

### 1580 7.9.7.1 PUBLICATION BEHAVIOUR

1581 No specific publication behaviour applies.

### 1582 7.9.7.2 FILTERING AND SORTING CRITERIA

1583 Data shall be visually accessed by selecting the following:

1584 Month (Selection is mandatory)

1585 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1586 partially or completely cover the Country)

1587 Optionally, user may specify Area, couple of Areas and direction.

### 1588 7.9.7.3 DISPLAY

1589 This data shall be displayed in the following section:

#### 1590 - offer of transfer capacities / month-ahead

1591 The following attributes of data shall be displayed:

1592 - Title

1593 - Month

1594 - Measurement Unit

1595 - Comments

1596 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1597 capacity value (for every classification category and classification sequence)

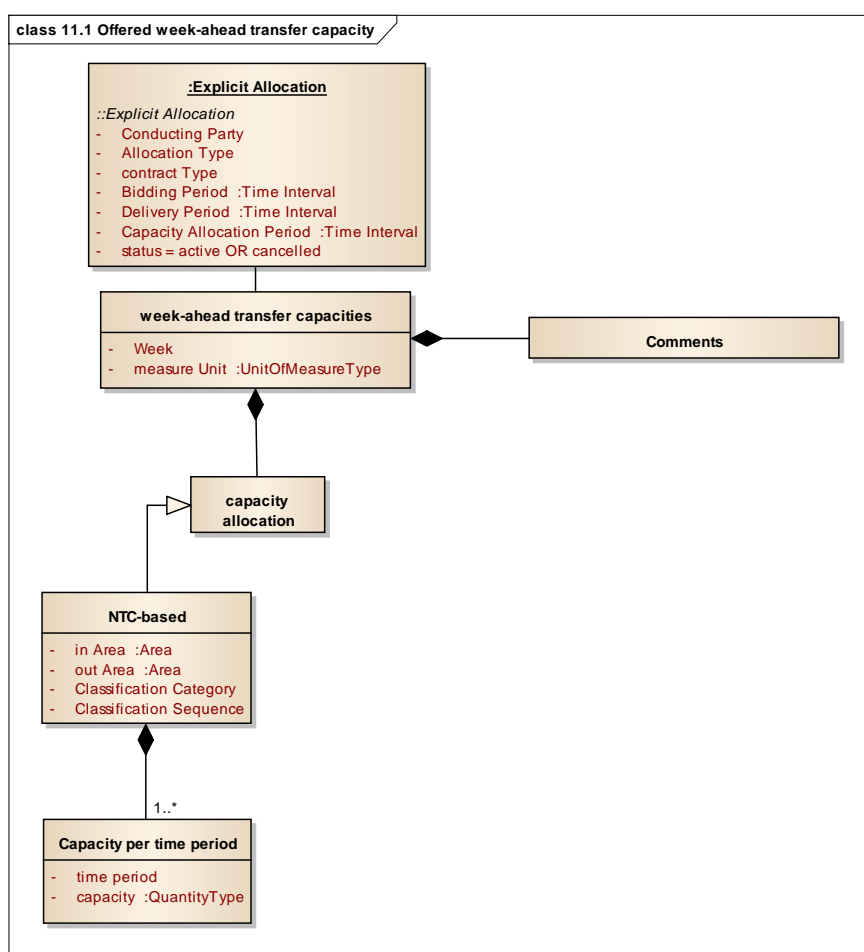
- 1598 If capacity values vary during the month, it shall be possible to expand the view so that they  
1599 are displayed as a curve and in a table.

## 1600 7.10 OFFERED WEEK-AHEAD TRANSFER CAPACITIES

### 1601 [11.1]

#### 1602 7.10.1 DATA DESCRIPTION

1603 This item can be described by the following class diagram:



1604

1605 The document shall cover the offered capacities related to one auction only.

- 1606 Weekly offered transfer capacities are associated with a weekly explicit transmission auction.
- 1607 Offered week-ahead transfer capacities are described between an In Area (the Area flows  
1608 come into) and an out Area (the Area flows come out from), for one week, with a single capacity  
1609 value for the whole week expressed in Measure Unit.
- 1610 Capacity values are submitted separately per Classification Category and Classification  
1611 Sequence.
- 1612 Optionally, offered week-ahead transfer capacities can be complemented with comments.
- 1613 **Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

#### 1614 7.10.2 PRE-CONFIGURATION

- 1615 - Week-ahead offered transfer capacities are expected for all couples of Areas covered by a  
1616 weekly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration  
1617 of an auction's capacity products.
- 1618 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1619 configuration. Refer to chapter 7.28.1.3 for details.
- 1620 - The submission deadline for offered week-ahead transfer capacity is one day (D-1) before  
1621 the weekly allocation process:
- 1622 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1623 *the weekly capacity allocation period starts on Friday 10:00 UTC and the week for which*  
1624 *offers are to be provided is Week 11, 2012 (12<sup>th</sup> of March to 18<sup>th</sup> of March), the document*  
1625 *shall be submitted before Thursday March 8<sup>th</sup>, 2012, 10:00 UTC.*
- 1626 The submission deadline is the same for all couples of Areas covered by the auction's  
1627 capacity products.

#### 1628 7.10.3 ASSUMPTIONS

- 1629 A single value should be provided for the whole week, but a higher resolution is possible (up  
1630 to the Market Time Unit used by the couple of Areas).
- 1631 There is not more than one Data Provider per auction instance.

#### 1632 7.10.4 INTEGRATION

- 1633 - Areas shall be recognised by the platform
- 1634 - The Data Provider shall be consistent with the capacity allocation configuration
- 1635 - The time interval of the submitted document is one week



1636 7.10.5 MONITORING

1637 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1638 are submitted for all area couples as deduced from the auction's capacity products. The  
1639 submission deadline described in section 7.10.2 will be monitored.

1640 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1641 Classification Categories and Classification Sequences).

1642 7.10.6 PROCESSING

1643 No processing is performed on this data item.

1644 7.10.7 PUBLICATION

1645 7.10.7.1 PUBLICATION BEHAVIOUR

1646 No specific publication behaviour applies.

1647 7.10.7.2 FILTERING AND SORTING CRITERIA

1648 Data shall be visually accessed by selecting the following:

1649 Week (Selection is mandatory)

1650 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1651 partially or completely cover the Country)

1652 Optionally, user may specify Area, couple of Areas and direction.

1653 7.10.7.3 DISPLAY

1654 This data shall be displayed in the following section:

1655 - **offer of transfer capacities / week-ahead**

1656 The following attributes of data shall be displayed:

1657 - Title

1658 - Week

1659 - Measurement Unit

1660 - Comments

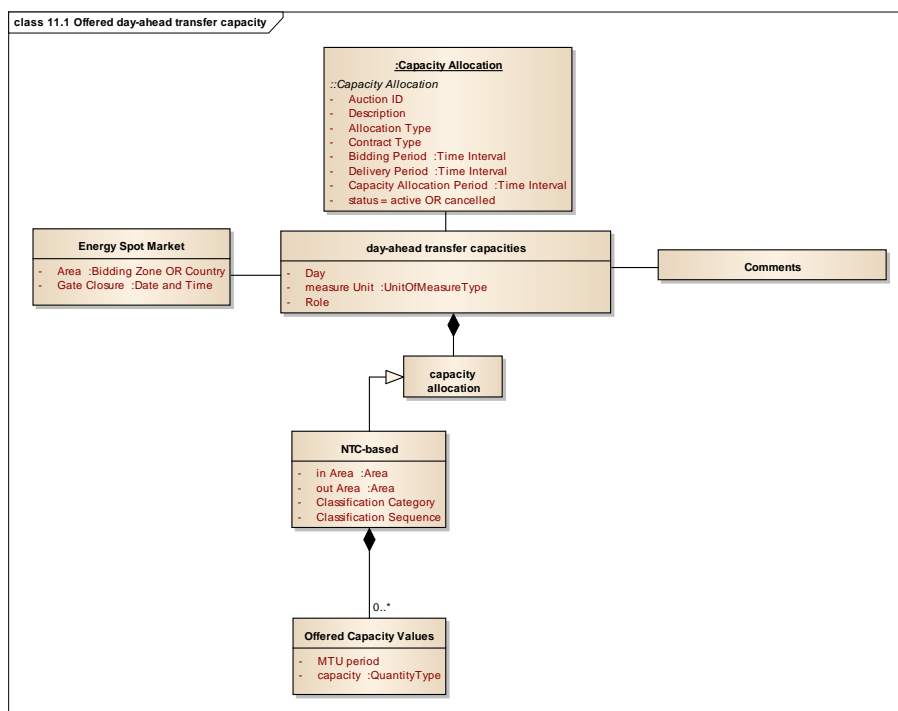
1661 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1662 capacity value (for every classification category and classification sequence)

- 1663 If capacity values vary during the week, it shall be possible to expand the view so that they  
1664 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.

1679 NTC-based values are applicable between two Areas.

1680 Optionally, Offered day-ahead transfer capacity can be complemented with comments.

1681 In some situations there may not be any capacity values to submit because of no allocation on  
1682 a specific day.

### 1683 7.11.2 PRE-CONFIGURATION

1684 - Day-ahead transfer capacities are expected for all couples of Areas covered by a daily  
1685 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1686 auction's capacity products.

1687 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1688 configuration. Refer to chapter 7.28.1.3 for details.

1689 The submission deadline for offered day-ahead transfer capacity is 1 hour (H-1) before  
1690 energy spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of  
1691 energy spot markets.

1692 *Example: if the oriented couple of Areas is France Bidding Area to Germany Bidding Area,*  
1693 *and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval of*  
1694 *March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00 UTC.*

### 1695 7.11.3 ASSUMPTIONS

1696 There is not more than one Data Provider per auction instance.

1697 The deadline determined by spot market gate closure is the same for In Area and Out Area.

### 1698 7.11.4 INTEGRATION

1699 - Areas shall be recognised by the platform

1700 - The Data Provider shall be consistent with the auction configuration

1701 - The time interval of the submitted document is one day

### 1702 7.11.5 MONITORING

1703 For a given instance of an auction, platform shall monitor that transfer capacity values are  
1704 submitted for all area couples as deduced from the auction's capacity products. The  
1705 submission deadline as described in section 7.11.2 will be monitored.

1706 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1707 Classification Categories and Classification Sequences). This is applicable for explicit

1708 auctions. If classification sequence is defined for an implicit allocation, monitoring shall verify  
1709 that values are submitted accordingly.

#### 1710 7.11.6 PROCESSING

1711 No processing is performed on this data item.

#### 1712 7.11.7 PUBLICATION

##### 1713 7.11.7.1 PUBLICATION BEHAVIOUR

1714 No specific publication behaviour applies.

##### 1715 7.11.7.2 FILTERING AND SORTING CRITERIA

1716 Data shall be visually accessed by selecting the following:

1717 Day (Selection is mandatory)

1718 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1719 partially or completely cover the Country)

1720 Optionally, user may specify Area, couple of Areas and direction.

##### 1721 7.11.7.3 DISPLAY

1722 This data shall be displayed in the following section:

##### 1723 - offer of transfer capacities / Day-ahead

1724 The following attributes of data shall be displayed:

1725 - Title

1726 - Day selection

1727 - Measurement Unit

1728 - Comments

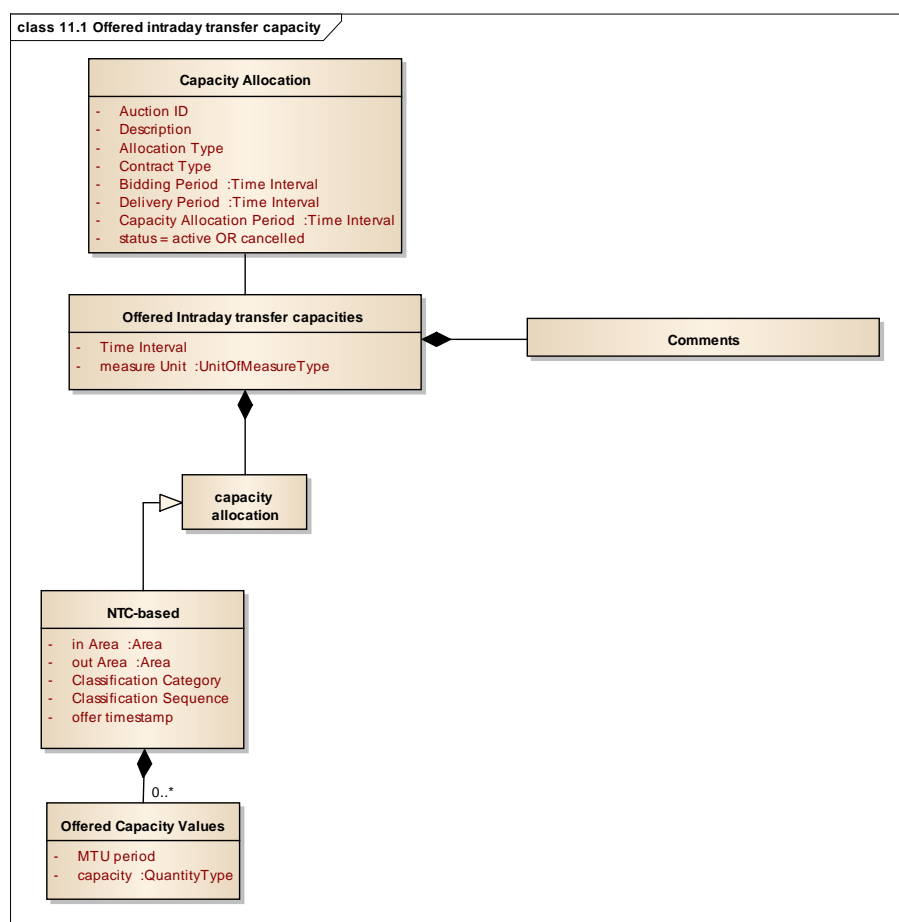
1729 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1730 each Market Time Unit within the selected day the capacity value (for every classification  
1731 category and classification sequence, when applicable)

1732

## 1733 7.12 Offered INTRADAY TRANSFER CAPACITY [11.1]

### 1734 7.12.1 DATA DESCRIPTION

1735 This item can be described by the following class diagram:



1736

1737 For NTC-based allocation of capacities, the document shall cover one capacity allocation only.

1738 Intraday offered transfer capacities are associated with an intraday explicit or implicit capacity  
1739 allocation.

1740 Offered intraday transfer capacities are described between an In Area and an Out Area, for a  
1741 time interval spanning up to a day. Values are provided for each MTU Period, with a capacity  
1742 value expressed in Measure Unit (MW).

1743 If there are several Capacity Products, capacity values are submitted separately per  
1744 Classification Category and Classification Sequence for explicit allocations. For implicit  
1745 allocations, optionally a classification sequence may be indicated<sup>14</sup>.

1746 NTC-based values are applicable between two Areas.

1747 Optionally, offered intraday transfer capacity can be complemented with comments. If there  
1748 are updates to the offered capacity (due to continuous trading, for example), a timestamp shall  
1749 be included. Each updated set of values shall be submitted with its timestamp to the  
1750 transparency platform.

1751 In some situations there may not be any capacity values to submit.

## 1752 7.12.2 PRE-CONFIGURATION

1753 - Intraday transfer capacities are expected for all couples of Areas covered by the intraday  
1754 capacity allocation's capacity products. Refer to chapter 7.28.1.2 for details on the  
1755 configuration of an auction's capacity products.

1756 - For each capacity allocation, the Data Provider is the one indicated in the capacity  
1757 allocation configuration. Refer to chapter 7.28.1.3 for details.

1758 - The submission deadline for offered intraday transfer capacity is one hour (H-1) before the  
1759 start of the capacity allocation period for the first delivery period of the day. For the remaining  
1760 delivery periods of the day, submissions will be performed close to real-time, for example 5  
1761 minutes before the start of the allocation period.

1762 *Example: If the oriented couple of Areas is France to Germany Bidding Zones, and if*  
1763 *intraday capacity allocation periods are as follows for day D:*

1764 - 1<sup>st</sup> Capacity Allocation Period: D-1, 18:00-19:00 UTC for the delivery period D, 00:00-  
1765 24:00 UTC

1766 - 2<sup>nd</sup> Capacity Allocation Period: D, 03:00-04:00 UTC for the delivery period D, 05:00-24:00  
1767 UTC

1768 - 3<sup>rd</sup> Capacity Allocation Period: D, 09:00-10:00 UTC for the delivery period D, 11:00-24:00  
1769 UTC

---

<sup>14</sup> Currently (May 30, 2019), no such allocations exist.

1770 - 4<sup>th</sup> Capacity Allocation Period: D, 15:00-16:00 UTC for the delivery period D, 17:00-24:00  
1771 UTC

1772 - 5<sup>th</sup> Capacity Allocation Period: D, 20:00-21:00 UTC for the delivery period D, 22:00-24:00  
1773 UTC

1774 Data shall be submitted for the delivery period D, 00:00-24:00 UTC, no later than D-1,  
1775 17:00 UTC. Data may be submitted for the delivery period D, 05:00-24:00 UTC, by D,  
1776 02:55 UTC, etc.

1777 The submission deadline is the same for all couples of Areas covered by the capacity  
1778 allocation's products.

### 1779 7.12.3 ASSUMPTIONS

1780 There is not more than one Data Provider per capacity allocation instance.

### 1781 7.12.4 INTEGRATION

1782 - Areas shall be recognised by the platform

1783 - The Data Provider shall be consistent with the capacity allocation configuration

1784 - The time interval in the document shall be up to one day

### 1785 7.12.5 MONITORING

1786 For a given instance of an auction, platform shall monitor that offered transfer capacity values  
1787 are submitted for all area couples as deduced from the capacity allocation's products. The  
1788 submission deadline as described in section 7.12.2 shall be monitored. Monitoring shall verify  
1789 that values are submitted for all Capacity Products (i.e. for all Classification Categories and  
1790 Classification Sequences).

### 1791 7.12.6 PROCESSING

1792 No processing is performed on this data item.

### 1793 7.12.7 PUBLICATION

#### 1794 7.12.7.1 PUBLICATION BEHAVIOUR

1795

1796 The most recent values of the offered capacity shall be published on the Transparency  
1797 Platform at least once every 15 minutes. If no update has occurred during a given quarter hour,



1798 no values will be published for that quarter hour. The entire evolution of the offered capacity  
1799 shall be available for download no later than 24 hours after the end of the allocation period.

#### 1800 7.12.7.2 FILTERING AND SORTING CRITERIA

1801 Data shall be visually accessed by selecting the following:

1802 Day (Selection is mandatory)

1803 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1804 partially or completely cover the Country)

1805 Optionally, user may specify Area, couple of Areas and direction.

#### 1806 7.12.7.3 DISPLAY

1807 This data shall be displayed in the following section:

1808 - **offer of transfer capacities / Intraday**

1809 The following attributes of data shall be displayed:

1810 - Title

1811 - Selected day

1812 - Measurement Unit

1813 - Comments

1814 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1815 each Market Time Unit period within the selected day, the capacity value (for every  
1816 classification category and classification sequence, when applicable)

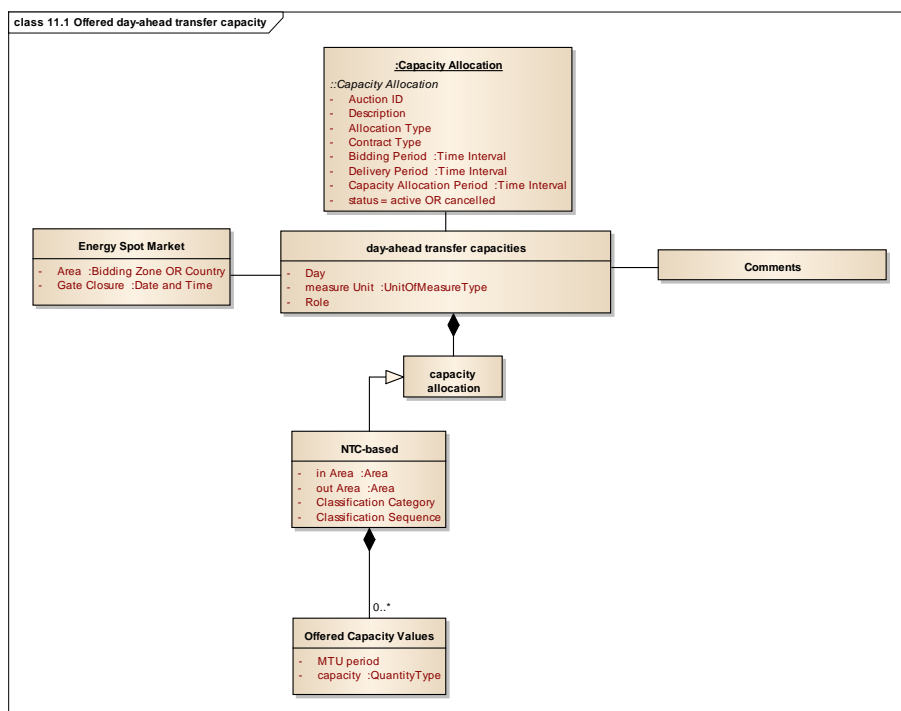
1817 - If there were updates to the offered capacity, the most recent capacity values at the end of  
1818 every quarter hour.

1819  
1820 When downloading the entire evolution of the offered capacity, all updates to the capacity  
1821 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.

1836 Optionally, other offered transfer capacities can be complemented with comments.

1837 **Note:** Flow-based parameters are not in scope for other offered transfer capacities.

### 1838 7.13.2 PRE-CONFIGURATION

1839 - Other offered transfer capacities are expected for all couples of Areas covered by an explicit  
1840 allocation's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1841 auction's capacity products.

1842 - For each allocation, the Data Provider is the one indicated in the capacity allocation  
1843 configuration. Refer to chapter 7.28.1.3 for details.

1844 - The submission deadline for other offered transfer capacities is a configurable time before  
1845 the allocation process:

1846 *Example: The oriented couple of Areas is Netherlands Bidding Zone to Belgium Bidding*  
1847 *Zone, the weekend capacity allocation period starts on Friday 10:00 UTC and deadline is*  
1848 *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*  
1849 *document shall be submitted before Thursday March 15<sup>th</sup>, 2012, 10:00 UTC.*

1850 The submission deadline is the same for all couples of Areas covered by the allocation's  
1851 capacity products.

### 1852 7.13.3 ASSUMPTIONS

1853 A single value should be provided for the whole time interval, but a higher resolution is possible  
1854 (up to the Market Time Unit used by the couple of Areas).

1855 There is not more than one Data Provider per auction instance.

### 1856 7.13.4 INTEGRATION

1857 - Areas shall be recognised by the platform

1858 - The Data Provider shall be consistent with the capacity allocation configuration

1859 - The time interval of the submitted document corresponds to the capacity allocation's delivery  
1860 period

### 1861 7.13.5 MONITORING

1862 For a given instance of an allocation, platform shall monitor that offered transfer capacity  
1863 values are submitted for all area couples as deduced from the allocation's capacity products.

1864 The submission deadline described in section 7.13.2 will be monitored.

1865 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1866 Classification Categories and Classification Sequences).

#### 1867 7.13.6 PROCESSING

1868 No processing is performed on this data item.

#### 1869 7.13.7 PUBLICATION

##### 1870 7.13.7.1 PUBLICATION BEHAVIOUR

1871 No specific publication behaviour applies.

##### 1872 7.13.7.2 FILTERING AND SORTING CRITERIA

1873 Data shall be visually accessed by selecting the following:

1874 Contract Type (Selection is mandatory)

1875 Time interval (Selection is mandatory)

1876 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1877 partially or completely cover the Country)

1878 Optionally, user may specify Area, couple of Areas and direction.

##### 1879 7.13.7.3 DISPLAY

1880 This data shall be displayed in the following section:

#### 1881 - offer of transfer capacities / other

1882 The following attributes of data shall be displayed:

1883 - Title

1884 - Contract Type

1885 - Time interval

1886 - Measurement Unit

1887 - Comments

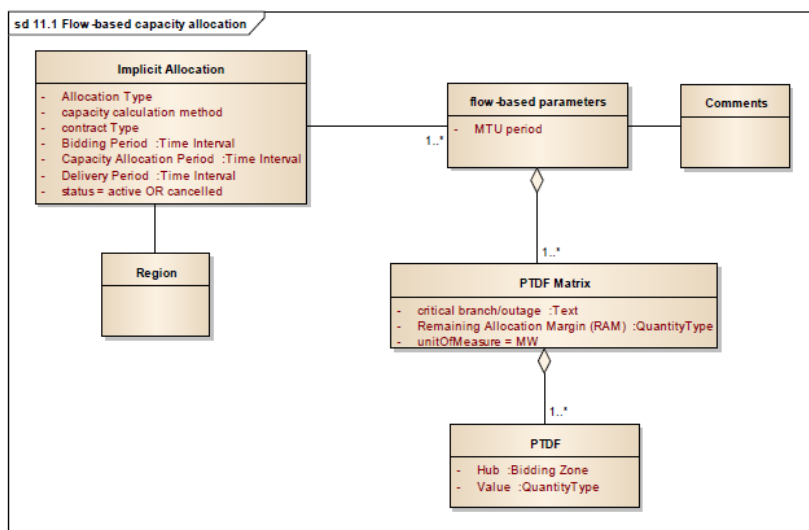
1888 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1889 capacity value (for every classification category and classification sequence)

1890 If capacity values vary during the time interval, it shall be possible to expand the view so that  
1891 they are displayed as a curve and in a table.

## 7.14 Flow-based Capacity Allocation [11.1]

### 7.14.1 DATA DESCRIPTION

This item can be described by the following class diagram:



This data item applies to flow-based implicit allocations only. The document shall cover the flow-based parameters related to one allocation instance only. The interval covered by the document shall coincide with the delivery period of the allocation instance.

The contract type of the allocation instance may be daily or intraday.

The flow-based parameters consist of the power transfer distribution factor (PTDF) matrix that may vary per MTU period. The matrix consists of a row for each anonymous designation of the critical branch or outage (described with a free text descriptor), for which the remaining allocation margin (in MW) and the PTDF per bidding zone<sup>15</sup> is described. The PTDF may be positive as well as negative.

Optionally, a free-text comment may be included.

<sup>15</sup> In practice, this corresponds to a variation in the net position of the bidding zone.

## 1906 7.14.2 PRE-CONFIGURATION

1907 - The flow-based parameters are expected for the Region covered by the implicit allocation.  
1908 Refer to chapter 7.28.1.1 for details on the configuration of the flow-based allocation.

1909 - For a given flow-based capacity allocation, the Data Provider is the one indicated in the  
1910 capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

1911 The submission deadline for the flow-based parameters shall be configurable by data  
1912 providers and will be related to the allocation period.

1913 *Example: For the daily flow-based allocation in the CWE region, the allocation starts at*  
1914 *12:00 CET D-1. The submission deadline could then be set to one hour in advance, i.e. to*  
1915 *11:00 CET D-1.*

## 1916 7.14.3 ASSUMPTIONS

1917 There is not more than one Data Provider for an instance of a flow-based capacity allocation.

## 1918 7.14.4 INTEGRATION

1919 - Region and bidding zones shall be recognised by the platform

1920 - The Data Provider shall be consistent with the allocation configuration

1921 - The time interval of the submitted document covers exactly the allocation instance's delivery  
1922 period

## 1923 7.14.5 MONITORING

1924 For a given instance of a flow-based capacity allocation, platform shall monitor that the flow-  
1925 based parameters are submitted. The submission deadline as described in section 7.14.2 will  
1926 be monitored.

## 1927 7.14.6 PROCESSING

1928 No processing is performed on this data item.

## 1929 7.14.7 PUBLICATION

### 1930 7.14.7.1 PUBLICATION BEHAVIOUR

1931 No specific publication behaviour applies.

#### 1932 7.14.7.2 FILTERING AND SORTING CRITERIA

1933 Data shall be visually accessed by selecting the following:

1934 Day (Selection is mandatory)

1935 Region (selection is mandatory)

1936 Contract type: Daily or intraday (selection is mandatory)

#### 1937 7.14.7.3 DISPLAY

1938 This data shall be displayed in the following section:

##### 1939 - flow-based capacity allocation

1940 The following attributes of data shall be displayed:

1941 - Title

1942 - Region

1943 - Day selection

1944 - Contract type

1945 - Measurement Unit

1946 - Comments

1947  
1948 - For each MTU period the PTDF-matrix is presented: Critical branch or outage, remaining  
1949 available margin, and the PTDF value for each hub.



## 1950 7.15 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1951 RAMPING RESTRICTIONS

### 1952 7.15.1 DATA DESCRIPTION

1953 This data item consists of a report in the form of a PDF file, describing the ramping or other  
1954 restrictions applied on a Transmission Asset of type DC Link. The two areas connected by the  
1955 DC Link are also recorded inside the report.

### 1956 7.15.2 PRE-CONFIGURATION

1957 Data Providers shall be able to configure the following reference data on the platform:

- 1958 - A list of Control Areas where ramping restrictions may apply
- 1959 - For each Control Area, the unique Data Provider

### 1960 7.15.3 ASSUMPTIONS

1961 Data to be submitted as a report. No monitoring is performed on this data item, due to its  
1962 unpredictability.

### 1963 7.15.4 INTEGRATION

1964 Data Provider shall on the platform's web site, on the same page where these reports are  
1965 published, be able to upload a PDF file and associated it with one Control Area. Platform  
1966 shall validate that the Data Provider is authorized for the given Control Area.

### 1967 7.15.5 MONITORING

1968 No monitoring is performed on this data item.

### 1969 7.15.6 PROCESSING

1970 No processing is performed on this data item.

### 1971 7.15.7 PUBLICATION

#### 1972 7.15.7.1 PUBLICATION BEHAVIOUR

1973 Documents are published immediately after upload. All versions shall be published.

1974    **7.15.7.2    FILTERING AND SORTING CRITERIA**

1975        -    Country or Control Area (mandatory)

1976        -    Date range (optional)

1977    **7.15.7.3    DISPLAY**

1978    This data shall be displayed in the following section:

1979    **Transmission / Cross Border Capacity of DC Links**

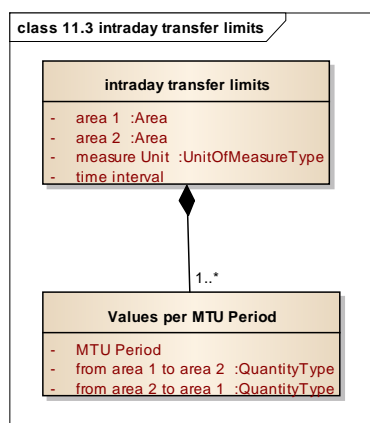
1980    Each report shall be available for download by clicking a link.

1981    For every report, the publication date shall be displayed.

1982

## 1983 7.16 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1984 INTRADAY TRANSFER LIMITS

### 1985 7.16.1 DATA DESCRIPTION



1986  
1987 Document may contain data related to more than one area couple.  
1988 For two connected Areas, this data item describes intraday transfer limits in each direction,  
1989 applied on Transmission Assets of type DC Link, during a time interval up to one day. Values  
1990 are provided per MTU period and expressed in measure unit (MW).

1991 Note that the transfer limits may be negative.

### 1992 7.16.2 PRE-CONFIGURATION

1993 Data Providers shall be able to configure the following reference data on the platform:

- 1994 - A list of Area couples where ramping restrictions may apply
- 1995 - For each Area couple, up to two Data Providers

### 1996 7.16.3 ASSUMPTIONS

1997 It is not necessary to provide references or details of the concerned transmission asset (of type  
1998 DC Link).

1999 No monitoring is performed on this data item, due to its unpredictability.

2000 7.16.4 INTEGRATION

2001 Platform shall validate that it recognises the Area couple.

2002 Platform shall validate that the Data Provider is authorized for the given Area couple.

2003 Time interval covered by document is up to one day.

2004 7.16.5 MONITORING

2005 No monitoring is performed on this data item.

2006 7.16.6 PROCESSING

2007 If two Data Providers submit data relating to the same Area couple, platform shall for each  
2008 direction and MTU period select the minimum value for publication.

2009 7.16.7 PUBLICATION

2010 7.16.7.1 PUBLICATION BEHAVIOUR

2011 Documents are published immediately after upload.

2012 Latest version only shall be published.

2013 7.16.7.2 FILTERING AND SORTING CRITERIA

2014 - Area couple (mandatory)

2015 - Date or date range (mandatory)

2016 7.16.7.3 DISPLAY

2017 This data shall be displayed in the following section:

2018 **Transmission / Cross Border Capacity of DC Links**

2019 The following attributes of the data shall be displayed:

2020 - Title

2021 - Unit of measurement (MW)

2022 - Area couple

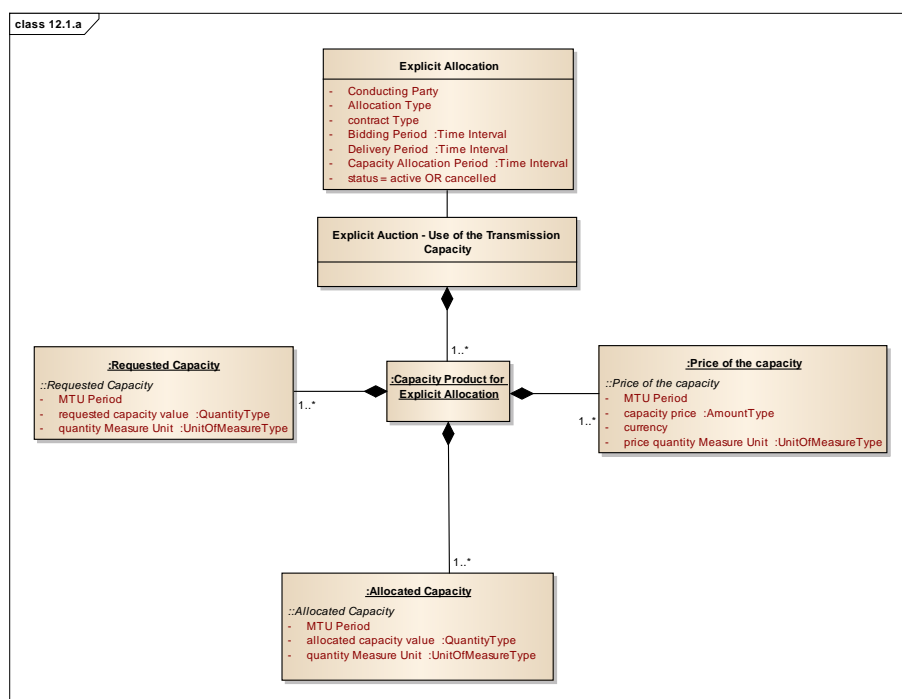
2023 - For each direction between the Areas and for each MTU period, the transfer limit

2024	<b>7.17</b>	<b>YEARLY REPORT ABOUT CRITICAL NETWORK</b>
2025		<b>ELEMENTS LIMITING OFFERED CAPACITIES [11.4]</b>
2026	<b>7.17.1</b>	<b>DATA DESCRIPTION</b>
2027		This data item consists of a file that shall be associated with one or several Control Areas. No
2028		monitoring will be performed.
2029	<b>7.17.2</b>	<b>PRE-CONFIGURATION</b>
2030		ENTSO-E administrator shall be able to manage the reference data that indicates the list of
2031		allowed Data Providers per Control Area for this data item.
2032	<b>7.17.3</b>	<b>INTEGRATION</b>
2033		Data Provider shall on the platform's web site, on the same page where these reports are
2034		published, be able to upload a file and associated it with one or several Control Areas.
2035		Platform shall validate combination of Control Area and Data Provider.
2036	<b>7.17.4</b>	<b>PUBLICATION</b>
2037	<b>7.17.4.1</b>	<b>PUBLICATION BEHAVIOUR</b>
2038		Documents are published immediately after upload.
2039		All versions shall be published.
2040	<b>7.17.4.2</b>	<b>FILTERING AND SORTING CRITERIA</b>
2041		End user shall be able to select data for display by specifying:
2042		- Country or Control Area (optional)
2043		- Publication year (optional)
2044	<b>7.17.4.3</b>	<b>DISPLAY</b>
2045		This data shall be displayed in the following section:
2046		Transmission / Critical network elements
2047		Each report shall be available for download by clicking a link.
2048		For every report, the publication date shall be displayed.
2049		

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

2060 - the Requested Capacity with a quantity in quantity Measure Unit (MW) for each Market Time  
2061 Unit period within the time interval

2062 - the Allocated Capacity with a quantity in quantity Measure Unit (MW) for each Market Time  
2063 Unit period within the time interval

2064 - the Price of the Capacity with a price in Currency per Price Quantity Measure Unit (MWh) for  
2065 each Market Time Unit period within the time interval

## 2066 7.18.2 PRE-CONFIGURATION

2067 - For each Explicit Auction instance's capacity products, the data item "Use of the Transmission  
2068 Capacity", shall be expected by the platform<sup>17</sup>. Refer to chapter 7.28.1.2 for details on the  
2069 configuration of an auction's capacity products.

2070 - For each Explicit Auction instance, the unique allowed Data Provider is the one indicated by  
2071 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2072 - For each explicit auction instance, the submission deadline:

- 2073 • For a given Explicit Auction instance, submission must be done at the latest one hour  
2074 (H+1) after the end of the Capacity Allocation Period.

2075 *Example: if the capacity product is Yearly Base 1 between France and German Bidding*  
2076 *Zones for the time interval of year 2013, and if the Capacity Allocation Period ends on*  
2077 *November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the use of transmission*  
2078 *capacity in this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

2079 Submission deadline is the same for all results associated with all of the Auction instance's  
2080 capacity products.

## 2081 7.18.3 ASSUMPTIONS

2082 No specific assumptions apply to this data item.

## 2083 7.18.4 INTEGRATION

2084 - The Data Provider shall be consistent with the configuration of the capacity allocation

2085 - Capacity Product shall be consistent with the configuration of the capacity allocation

2086 - Currency shall be consistent with the capacity product

---

<sup>17</sup> If Allocation Type is "continuous", prices will not be expected.

2087 - The time interval described in the document shall be complete (e.g. a whole day for the results  
2088 of a Daily Auction)

2089 - If there is no allocated capacity for a given time interval, prices do not have to be included.

#### 2090 7.18.5 MONITORING

2091 The submission deadline described in section 7.18.2 shall be monitored for each of the  
2092 auction's capacity products.

2093 If Allocation Type is "continuous", no monitoring will be performed.

#### 2094 7.18.6 PROCESSING

2095 No processing is performed by the platform at this step.

#### 2096 7.18.7 PUBLICATION

##### 2097 7.18.7.1 PUBLICATION BEHAVIOUR

2098 No particular behaviour applies to this data item.

##### 2099 7.18.7.2 FILTERING AND SORTING CRITERIA

2100 Data shall be visually accessed by selecting the following:

2101 - Contract Type (Selection is Mandatory)

2102 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2103 partially or completely cover the Country)

2104 - Areas couple (Selection is Mandatory)

2105 - Direction (both by default) (Selection is Mandatory)

2106 - Classification Category (Selection is optional)

2107 - Classification Sequence (Selection is optional)

2108 - Conducting Party (Selection is optional)

2109 - Time interval (Start and End date) (Selection is mandatory)

##### 2110 7.18.7.3 DISPLAY

2111 This data shall be displayed in the following section:

2112 - **Explicit Auctions** (together with the Total Capacity Already Allocated / [12.1.c])



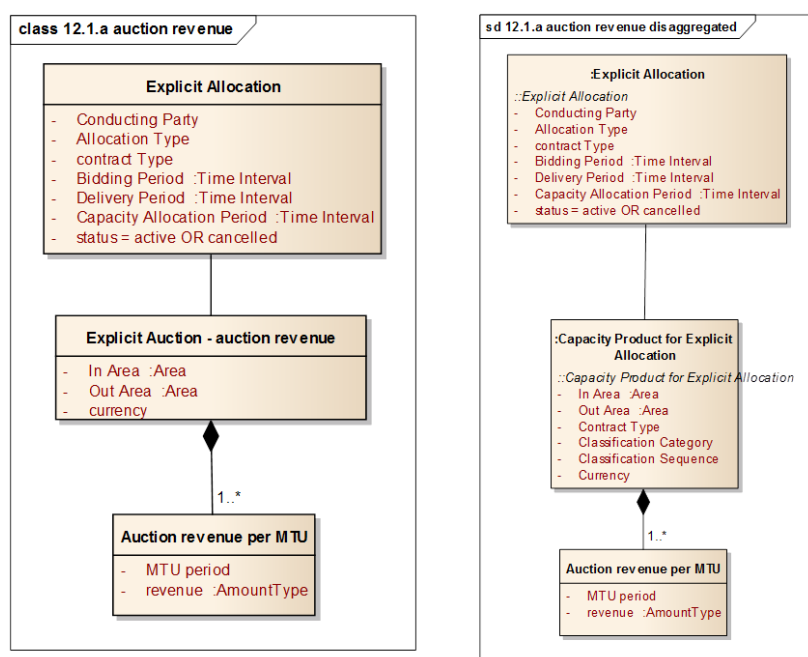
- 2113 The following attributes of data shall be displayed:
- 2114 - Title
  - 2115 - Areas name
  - 2116 - Contract Type
  - 2117 - Conducting Party
  - 2118 - Time interval
  - 2119 - Measurement Unit for requested and allocated capacity
  - 2120 - Currency for capacity price
  - 2121 - Measurement Unit for capacity price
  - 2122 - For each MTU Period within the time interval, the requested capacity value, the allocated capacity value and the capacity price value. This is repeated per direction, Classification
  - 2123 Category and Classification Sequence.
  - 2124
  - 2125

## 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>18</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>18</sup> The Explicit Auction in question is the same as the Explicit Auction described in « Total Capacity Already Allocated [12.1.c] »

2138 It is possible to submit revenue in the disaggregated format together with the use of the transfer  
2139 capacity described in chapter 7.18. Aggregated revenue has to be submitted separately  
2140 though. For further details please refer to the implementation guide.

## 2141 7.19.2 PRE-CONFIGURATION

2142 - For each Area couple covered by an Explicit Auction instance's capacity products, the data  
2143 item "Explicit Auctions – Auction Revenue" shall be expected by the platform<sup>19</sup>. Refer to  
2144 chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2145 - For each Explicit Auction instance, the single allowed Data Provider is the one indicated by  
2146 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2147 - For each explicit auction instance, the submission deadline:

- 2148 • For a given Explicit Auction instance, submission must be done at the latest one hour  
2149 (H+1) after the end of the Capacity Allocation Period.

2150 *Example: if the Explicit Auction instance is Yearly Base 1 between France and German*  
2151 *Bidding Zones for the time interval of year 2013, and if the Capacity Allocation Period ends*  
2152 *on November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the auction revenue in*  
2153 *this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

2154 Submission deadline is the same for all Area couples covered by the Auction instance's  
2155 capacity products.

## 2156 7.19.3 ASSUMPTIONS

2157 Not more than one Data Provider per Explicit Auction instance.

2158 There are two alternative submission modes: Aggregated per oriented border and  
2159 disaggregated per capacity product, respectively. For a given allocation and border, only one  
2160 mode will be used.

2161 Delivery Periods are the same in both directions across a border. Only one currency is  
2162 applicable in both directions across a border.

## 2163 7.19.4 INTEGRATION

2164 - The Data Provider shall be consistent with the capacity allocation configuration

2165 - Area couple shall be consistent with capacity product, as per capacity allocation configuration

2166 - Currency shall be consistent with the capacity products covering the Area couple

---

<sup>19</sup> When Allocation Type is "continuous", data is not expected.

## 2167 7.19.5 MONITORING

2168 The submission deadline described in section 7.18.2 shall be monitored for all Area couples  
2169 covered by the auction's capacity products.

## 2170 7.19.6 PROCESSING

2171 Platform aggregates the total revenue for the whole delivery period by summing up the values  
2172 submitted per MTU period.

2173 Once total revenue values for a given delivery period have been submitted for both directions,  
2174 platform aggregates a grand total for the border.

## 2175 7.19.7 PUBLICATION

### 2176 7.19.7.1 PUBLICATION BEHAVIOUR

2177 A delay in submission of values in a given direction shall not withhold publication of already  
2178 submitted values in the opposite direction. Publication of aggregated sum per border is  
2179 performed independently of publication of values per direction. Aggregated sum per border  
2180 shall be published as soon as values in both directions have been submitted.

### 2181 7.19.7.2 FILTERING AND SORTING CRITERIA

2182 Data shall be visually accessed by selecting the following:

2183 - Contract Type (selection is mandatory)

2184 - Country (selection is optional: If selected, Area couples will be filtered to include only those  
2185 that partially or completely cover the Country)

2186 - Areas couple (selection is mandatory)

2187 - Date or date range (selection is mandatory)

### 2188 7.19.7.3 DISPLAY

2189 This data shall be displayed in the following section:

2190 - **Explicit Auctions** (together with the previously allocated Capacity / [12.1.c])

2191 The following attributes of data shall be displayed:

2192 - Title

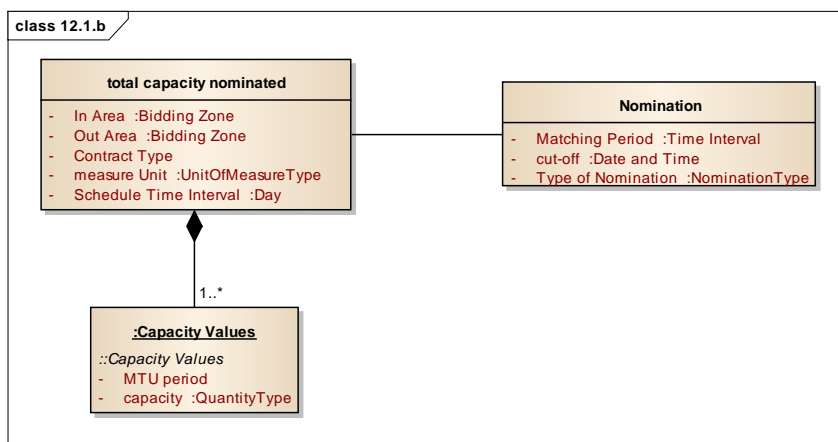
2193 - Area couple

- 2194 - Contract Type
- 2195 - Currency
- 2196 - Delivery Period
- 2197 - For each delivery period during the selected date range, the following details of auction
- 2198 revenue are displayed:
- 2199 - In each direction and per MTU period
- 2200 - aggregated revenue in each direction for the whole Delivery Period
- 2201 - aggregated revenue for the border, for the whole Delivery Period

## 2202 7.20 TOTAL CAPACITY NOMINATED [12.1.B]

### 2203 7.20.1 DATA DESCRIPTION

2204 This item can be described by the following class diagram:



- 2205
- 2206 The document may cover several couples of bidding zones and directions.
- 2207 Values are expected for one day and are given by Market Time Unit period. Values for the time
- 2208 horizons long-term, day-ahead and intraday are published separately. For some borders,
- 2209 intraday values may not be applicable. For other borders, long-term may not be applicable.
- 2210
- ### 2211 7.20.2 PRE-CONFIGURATION
- 2212 - A list of In and Out Area couples where the data item "Total Capacity Nominated" is expected
  - 2213 - For each In and Out Area couple, the allowed Data Provider(s), with their priorities
  - 2214 - For each In and Out Area couple, indicators whether intraday and/or long-term nominations
  - 2215 are expected or not
  - 2216 - For each In and Out Area couple, the applicable submission deadlines for day-ahead and if
  - 2217 applicable intraday and long-term time horizons, respectively:
    - 2218 • Submission must be done H+1 after the respective cut-off time of the concerned
    - 2219 nomination round on this given In and Out Area couple.

- 2220 *Example A: The couple of Bidding Zones is France - Germany, the long-term cut-off time*  
2221 *is at 20:00 UTC and the day-ahead cut-off time is at 22:00 UTC for the delivery day March*  
2222 *13<sup>th</sup>, 2012. A first document shall be submitted with long-term values before March 12<sup>th</sup>,*  
2223 *2012, 21:00 UTC and contain capacity values for the whole day of March 13<sup>th</sup>, 2012.*
- 2224 *A second document, containing values for the day-ahead time horizon that are updated*  
2225 *with the day-ahead nomination, shall be submitted no later than March 12<sup>th</sup>, 2012, 23:00*  
2226 *UTC.*
- 2227 *Example B: The couple of Bidding Zones is France – Spain and in addition to long-term*  
2228 *and daily nominations there are also intraday nominations:*
- 2229 *long-term nomination round with cut-off at D-1, 12:00 UTC for the delivery period D, 00:00*  
2230 *– 24:00 UTC*
- 2231 *daily nomination round with cut-off at D-1, 18:00 UTC for the delivery period D, 00:00 –*  
2232 *24:00 UTC*
- 2233 *1<sup>st</sup> intraday nomination round with cut-off at D-1, 20:00 UTC for the delivery period D,*  
2234 *06:00-24:00 UTC*
- 2235 *2<sup>nd</sup> intraday nomination round with cut-off at D, 04:00 UTC for the delivery period D, 12:00-*  
2236 *24:00 UTC*
- 2237 *3<sup>rd</sup> intraday nomination round with cut-off at D, 12:00 UTC for the delivery period D, 18:00-*  
2238 *24:00 UTC*
- 2239 *The following documents shall be submitted:*
- 2240 *A first document containing the values for the long-term time horizon for the whole delivery*  
2241 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 13:00 UTC*
- 2242 *A second document containing the values for the day-ahead time horizon for the whole*  
2243 *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 19:00 UTC.*
- 2244 *A third document containing the values for the intraday time horizon for the whole delivery*  
2245 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 21:00 UTC.*
- 2246 *A higher version of the third document containing the values for the intraday time horizon*  
2247 *(including 2<sup>nd</sup> intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2248 *shall be submitted no later than D, 05:00 UTC.*
- 2249 *A higher version of the third document containing the values for the intraday time horizon*  
2250 *(including 3<sup>rd</sup> intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2251 *shall be submitted no later than D, 13:00 UTC.*
- 2252 *The matching process, including cut-off times, is described in chapter 7.1.3.*

### 2253 7.20.3 ASSUMPTIONS

2254 If intraday nominations are applicable on a given border, platform will monitor submission  
2255 deadline for the first intraday nomination only.

2256 Platform does not perform any aggregation.

### 2257 7.20.4 INTEGRATION

2258 - Area couple shall be recognised by the platform

2259 - The Data Provider shall be consistent with the identified Area couple

2260 - The Schedule Time Interval in the submitted document is one day

### 2261 7.20.5 MONITORING

2262 This data item is expected one or several times per day for all declared In and Out Area  
2263 couples. For each couple of In and Out Areas, the submission deadlines for long-term, day-  
2264 ahead and intraday values described in section 7.20.2 shall be monitored. If no data has  
2265 been submitted, all declared Data Providers will be notified.

### 2266 7.20.6 PROCESSING

2267 If data has been submitted for a given Bidding Zone couple, direction, time horizon and  
2268 schedule Time Interval (day) by more than one Data Provider, platform shall publish data  
2269 coming from Data Provider with highest priority.

2270

### 2271 7.20.7 PUBLICATION

#### 2272 7.20.7.1 PUBLICATION BEHAVIOUR

2273 Long-term, day-ahead and intraday values shall be published separately.

#### 2274 7.20.7.2 FILTERING AND SORTING CRITERIA

2275 Data shall be visually accessed by selecting the following:

2276 - Day (Selection is mandatory)

2277 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only  
2278 those that partially or completely cover the Country)

2279 - Bidding Zones couple or Bidding Zone



2280 7.20.7.3 DISPLAY

2281 This data shall be displayed in the following section:

2282 - **Transmission / Total nominated capacity**

2283 The following attributes of data shall be displayed:

2284 - Title

2285 - Schedule Time Interval (i.e. selected Day)

2286 - Measurement Unit

2287 - MTU

2288 - Bidding Zone couple

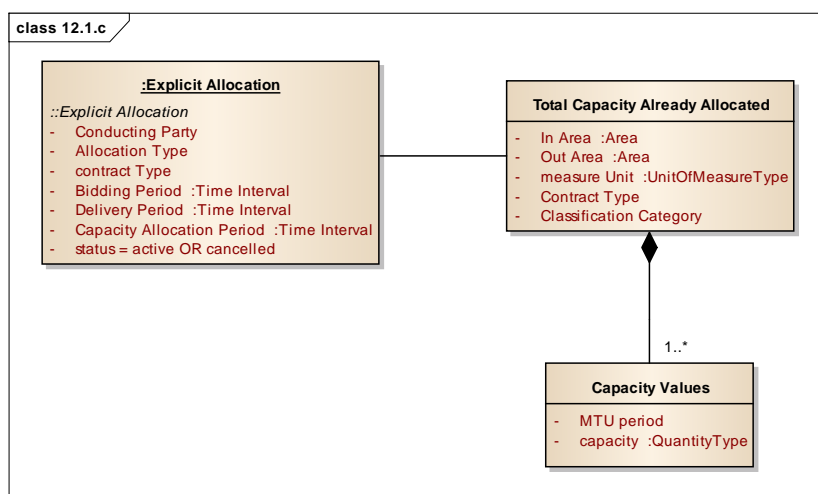
2289 - In each direction, the long-term, day-ahead and intraday values for each MTU

2290 Data is published in table and chart formats.

## 2291 7.21 TOTAL CAPACITY ALREADY ALLOCATED [12.1.c]

### 2292 7.21.1 DATA DESCRIPTION

2293 This item can be described by the following class diagram:



2294  
2295 The document shall contain data related to exactly one auction instance. The total capacity  
2296 already allocated is described by In and Out Areas and per Contract Type and Classification  
2297 Category, with one capacity value in measure Unit for each Market Time Unit period within a  
2298 time interval corresponding to the auction's Delivery Period.

2299 This data item is relevant for explicit allocations only.

2300 *Example: Before a daily base auction, a single document shall be submitted to the platform,*  
2301 *containing the total capacity already allocated, taking into account earlier allocations (i.e.*  
2302 *yearly, monthly and weekly auctions) and explicit resales or use it or sell it (UIOSI). Capacity*  
2303 *values shall be provided for each MTU period of the delivery period of the daily auction.*  
2304 *Contract Type of document is Daily and Classification Category is Base.*

### 2305 7.21.2 PRE-CONFIGURATION

2306 - For each Explicit Allocation instance, the data item "Total Capacity Already Allocated" may  
2307 be expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of a  
2308 capacity allocation.

2309 - For each Explicit Allocation instance, the unique allowed Data Provider is the one indicated  
2310 in the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2311 - For a given allocation, the submission deadline depends on the Contract Type (monthly,  
2312 weekly, etc.) and is the same as for the offered transfer capacity [11.1], refer to sections 7.11.2  
2313 through 7.12.2.

### 2314 7.21.3 ASSUMPTIONS

2315 Data providers have performed all calculations, taking into account earlier allocations and  
2316 explicit resales or use it or sell it (UIOSI). Platform will not perform any calculation.

### 2317 7.21.4 INTEGRATION

2318 - The Data Provider shall be consistent with the configuration of the capacity allocation, refer  
2319 to chapter 7.28.1.3 for details

2320 - The time interval described in the document shall be complete (e.g. a whole day for a Daily  
2321 auction)

### 2322 7.21.5 MONITORING

2323 For a given instance of an Explicit Allocation, platform shall monitor that the data item "Total  
2324 Capacity Already Allocated" is submitted

2325 Submission deadlines depend on the auction as explained in chapter 7.21.2.

### 2326 7.21.6 PROCESSING

2327 No processing performed on this data item.

### 2328 7.21.7 PUBLICATION

#### 2329 7.21.7.1 PUBLICATION BEHAVIOUR

2330 Standard publication behaviour applies.

#### 2331 7.21.7.2 FILTERING AND SORTING CRITERIA

2332 Data shall be visually accessed by selecting the following:

2333 - Contract Type (Selection is Mandatory)

2334 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2335 partially or completely cover the Country)

2336 - Areas couple (Selection is Mandatory)

2337 - Direction (both by default) (Selection is Mandatory)

2338 - Time window (Start and End date) (Selection is mandatory)

### 2339 7.21.7.3 DISPLAY

2340 This data shall be displayed in the following section:

#### 2341 - **Explicit Auctions / Total Capacity Already Allocated**

2342 The following attributes of data shall be displayed:

2343 - Title

2344 - Areas name

2345 - Contract Type

2346 - Classification Category

2347 - Time window

2348 - Measurement Unit

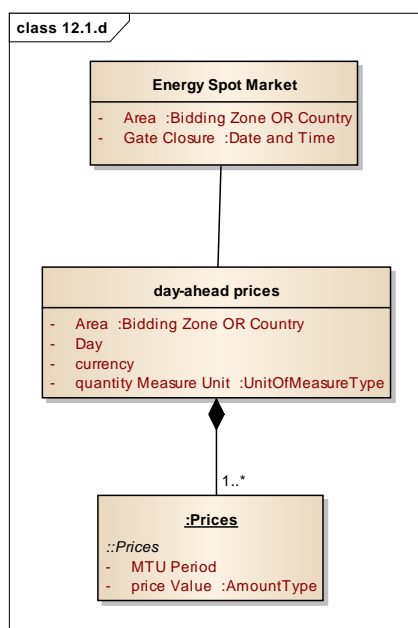
2349 - For each MTU Period within the time window, the total capacity already allocated. This is  
2350 repeated per direction.

2351

## 2352 7.22 DAY-AHEAD PRICES [12.1.D]

### 2353 7.22.1 DATA DESCRIPTION

2354 This item can be described by the following class diagram:



2355  
2356 The document shall cover only one bidding zone. For a given day, prices are given for every  
2357 MTU period and expressed in currency per MWh.

### 2358 7.22.2 PRE-CONFIGURATION

2359 By default, day-ahead prices are expected for all bidding zones. In some instances, it is  
2360 submitted by country rather than bidding zone<sup>20</sup>.

2361 - For each bidding zone or country, the unique allowed Data Provider

<sup>20</sup> This is the case for Germany and Austria.

2362 - For each bidding zone or country, the daily submission deadline: One hour (H+1) after the  
2363 gate closure of energy spot market. This is controlled by pre-configuration, refer to chapter  
2364 7.1.4 for details.

### 2365 7.22.3 ASSUMPTIONS

2366 There shall be only one Data Provider for a given bidding zone or country.

### 2367 7.22.4 INTEGRATION

- 2368 - Bidding zone or country shall be recognised by the platform
- 2369 - The Data Provider shall be consistent with the bidding zone or country
- 2370 - Currency shall be consistent with pre-configuration [C9]

### 2371 7.22.5 MONITORING

2372 For every bidding zone or country where this data is expected, the daily submission deadline  
2373 shall be monitored.

### 2374 7.22.6 PROCESSING

2375 No processing is performed by the platform on this data item.

### 2376 7.22.7 PUBLICATION

#### 2377 7.22.7.1 PUBLICATION BEHAVIOUR

2378 No particular behaviour applies to this data item.

#### 2379 7.22.7.2 FILTERING AND SORTING CRITERIA

2380 Data shall be visually accessed by selecting the following:

- 2381 - Country or Bidding zone (Selection is Mandatory)
- 2382 - Day (Selection is mandatory)

#### 2383 7.22.7.3 DISPLAY

2384 This data shall be displayed in the following section:

##### 2385 - Day-ahead prices

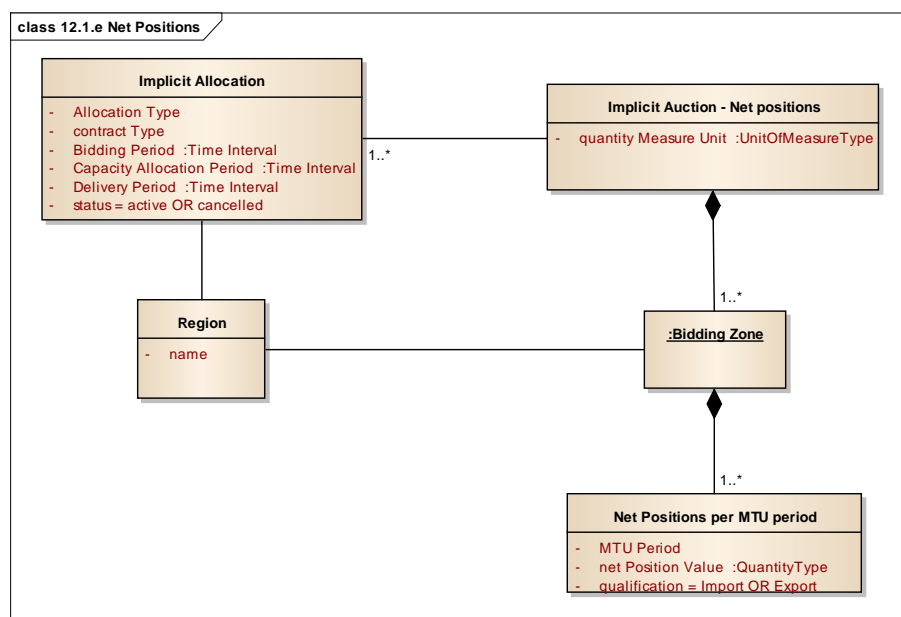
2386 The following attributes of data shall be displayed:

- 2387 - Title
- 2388 - Bidding Zone or Country
- 2389 - Selected day
- 2390 - Currency
- 2391 - Quantity Measurement Unit (MWh)
- 2392 - For each MTU period during the selected day, the day-ahead price
- 2393

## 2394 7.23 IMPLICIT ALLOCATIONS – NET POSITIONS [12.1.E]

### 2395 7.23.1 DATA DESCRIPTION

2396 This item can be described by the following class diagram:



2397

2398 Net positions resulting from one or several Implicit Allocations<sup>21</sup> are given by Bidding Zone for

2399 a given time interval corresponding to the allocations' delivery period (for which transfer

2400 capacity was auctioned and will be used). The Net Positions consist of a value for each Market

2401 Time Unit period during the Delivery Period, in Quantity Measure Unit (MW). Note that net

2402 position is always a positive value or zero. The Net Position is described as "import" or "export".

2403 When Contract Type is Day-Ahead, the length of the Delivery Period is exactly one day. When

2404 Contract Type is Intraday, the length of the Delivery Period is up to one day.

<sup>21</sup> The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Congestion Income » - chapter 7.24



## 2405 7.23.2 PRE-CONFIGURATION

2406 - For each bidding zone covered by an implicit allocation's products, net positions shall be  
2407 expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of an  
2408 allocation's capacity products.

2409 - For each bidding zone covered by any implicit allocation, the single allowed Data Provider.

2410 - For each bidding zone, the submission deadline:

- 2411 • For a given Implicit Allocation instance, submission must be done at the latest one hour  
2412 (H+1) after the end of the Capacity Allocation Period.

2413 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*  
2414 *Zones for a time interval of March 13<sup>th</sup>, 2012, and if the Capacity Allocation Period ends on*  
2415 *March 12<sup>th</sup>, 2012, at 12:00 UTC, the documents describing the net positions for the time*  
2416 *interval must be submitted before March 12<sup>th</sup>, 2012, 13:00 UTC.*

2417 Submission deadline is the same for all bidding zones associated with the Implicit  
2418 Allocation.

## 2419 7.23.3 ASSUMPTIONS

2420 There is not more than one Implicit Allocation per Region and Contract Type.

## 2421 7.23.4 INTEGRATION

2422 - The Data Provider shall be consistent with bidding zone as per pre-configuration described  
2423 in 7.23.2

2424 - The Delivery Period described in the document shall be complete

## 2425 7.23.5 MONITORING

2426 For a given bidding zone and contract type, the submission deadline shall be monitored.

## 2427 7.23.6 PROCESSING

2428 No processing is performed by the platform.

## 2429 7.23.7 PUBLICATION

### 2430 7.23.7.1 PUBLICATION BEHAVIOUR

2431 No specific behaviour applies to this data item.

## 2432 7.23.7.2 FILTERING AND SORTING CRITERIA

2433 Data shall be visually accessed by selecting the following:

- 2434 - Country (selection is optional: If selected, Areas will be filtered to include only those that
- 2435 partially or completely cover the Country)
- 2436 - One or several Bidding Zones<sup>22</sup> (Selection is Mandatory)
- 2437 - Day (Selection is mandatory)
- 2438 - Contract Type: Day-Ahead or Intraday

## 2439 7.23.7.3 DISPLAY

2440 This data shall be displayed in the following section:

### 2441 - Implicit Allocations

2442 The following attributes of data shall be displayed:

- 2443 - Title
- 2444 - Day
- 2445 - Measurement Unit (MW)
- 2446 - Contract Type
- 2447 - The following data is repeated for each selected Bidding Zone: Bidding Zone name and for
- 2448 each MTU Period within the selected day, the net position and whether it is "import" or "export".
- 2449 When selected Contract Type is Intraday, net positions are displayed for each Delivery Period
- 2450 during the selected day.

2451

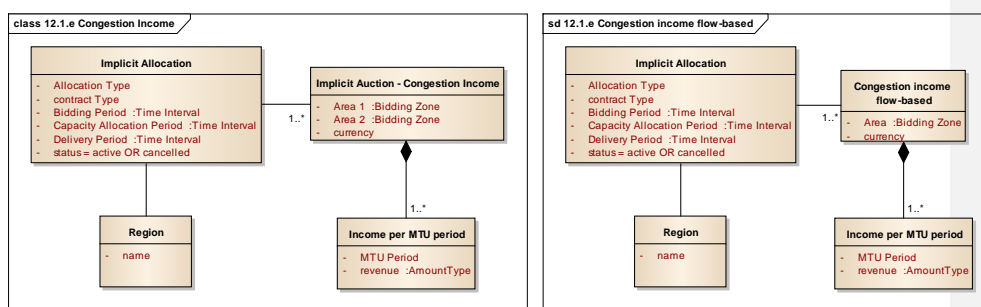
---

<sup>22</sup> If region has been selected, the selectable Bidding Zones shall be associated with the Region, as per pre-configuration [C-TRM-6].

## 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>23</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). 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>23</sup> The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Net Positions » (chapter 7.23)

- 2471 - For flow-based allocations, a single allowed Data Provider for all bidding zones in the  
2472 region is indicated.
- 2473 - For each Implicit Allocation, the submission deadline:
- 2474 • For a given Implicit Allocation instance, submission must be done at the latest one hour  
2475 (H+1) after the end of the Capacity Allocation Period.
- 2476 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*  
2477 *Zones for the time interval of March 13<sup>th</sup>, 2012, and if the Capacity Allocation Period ends*  
2478 *on March 12<sup>th</sup>, 2012, at 12:00 UTC, the documents describing the Congestion Income for*  
2479 *this time interval must be submitted before March 12<sup>th</sup>, 2012, 13:00 UTC.*
- 2480 Submission deadline is the same for all Area couples covered by the Implicit Allocation.  
2481 For flow-based allocations, the submission deadline is the same for all bidding zones in  
2482 the region.

### 2483 7.24.3 ASSUMPTIONS

- 2484 Only one Data Provider per Area couple or per region (for flow-based).
- 2485 There is not more than one Implicit Allocation per Region.
- 2486 Data is submitted per area couple or bidding zone (for flow-based) and platform does not have  
2487 to perform any calculation.

### 2488 7.24.4 INTEGRATION

- 2489 - Currency shall be consistent with the capacity products covering the Area couple or with the  
2490 bidding zone (for flow-based)
- 2491 - The Data Provider shall be consistent with the implicit allocation as per pre-configuration  
2492 described in 7.24.2
- 2493 - The Delivery Period described in the document shall be complete

### 2494 7.24.5 MONITORING

- 2495 For a given instance of an Implicit Allocation, the submission deadline common to all Area  
2496 couples or bidding zones (for flow-based) covered by the capacity products shall be  
2497 monitored.

### 2498 7.24.6 PROCESSING

- 2499 No processing is performed by the platform at this step.

2500 7.24.7 PUBLICATION

2501 7.24.7.1 PUBLICATION BEHAVIOUR

2502 No specific behaviour applies to this data item.

2503 7.24.7.2 FILTERING AND SORTING CRITERIA

2504 Data shall be visually accessed by selecting the following:

2505 - Region (for flow-based)

2506 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only those  
2507 that partially or completely cover the Country)

2508 - One or several Bidding Zones (Selection is Mandatory)

2509 - Contract Type

2510 - Day (Selection is mandatory)

2511 7.24.7.3 DISPLAY

2512 This data shall be displayed in the following section:

2513 - **Implicit Auctions**

2514 The following attributes of data shall be displayed:

2515 - Title

2516 - Capacity calculation method (ATC- or flow-based)

2517 - Region (for flow-based)

2518 - Day

2519 - Contract Type

2520 - The following is repeated for each border or Bidding Zones (for flow-based): Name of Bidding  
2521 Zone(s) and currency and for each MTU Period within the selected day, the revenue amount.

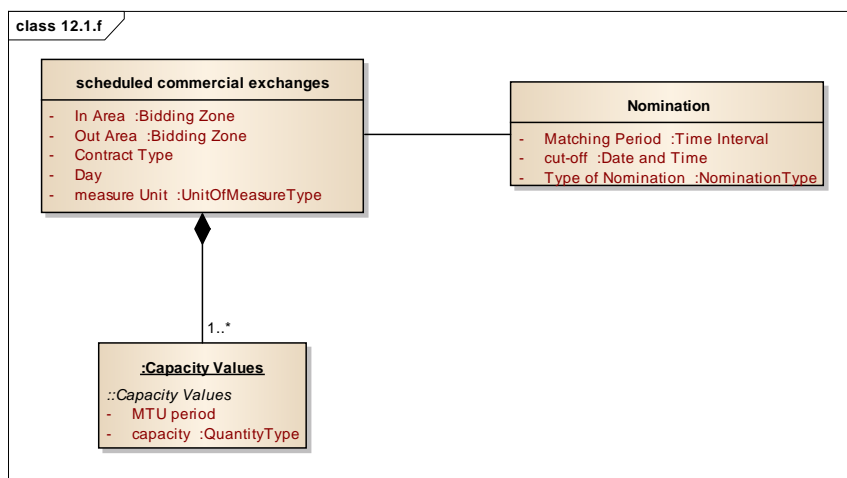
2522 When selected Contract Type is Intraday, revenue amounts are displayed for each Delivery  
2523 Period during the selected day.

2524

## 2525 7.25 SCHEDULED COMMERCIAL EXCHANGES [12.1.F]

### 2526 7.25.1 DATA DESCRIPTION

2527 This item can be described by the following class diagram:



2528  
2529 The document may cover several couples of bidding zones and directions. Values for the day-  
2530 ahead and intraday time horizons are published separately. Values are expected for one day  
2531 and are given by Market Time Unit period.

### 2532 7.25.2 PRE-CONFIGURATION

2533 The data item "Scheduled commercial exchanges" is expected for all In and Out Area couples  
2534 covered by a matching process. Refer to chapter 7.1.3 for details on the matching processes.

2535 - For each In and Out Area couple, the allowed Data Provider(s) with their priorities

2536 - For each In and Out Area couple there is a common daily submission deadline for the day-  
2537 ahead and intraday values at one hour (H+1) after the day-ahead cut-off time.

2538 *Example: if the couple of Bidding Zones is France - Germany, and if the day-ahead cut-off*  
2539 *time is 20:00 UTC, for the delivery day March 13<sup>th</sup>, 2012, the day-ahead values shall be*  
2540 *submitted before March 12<sup>th</sup>, 2012, 21:00 UTC.*

2541 Further, if there are several intraday nominations on the In and Out Area couple and such  
2542 intraday nomination results in an update to the scheduled commercial exchange, updated

2543 intraday values shall be submitted no later than two hours (H+2) after the intraday  
2544 nomination.

### 2545 7.25.3 ASSUMPTIONS

2546 Updates are submitted only if schedule has been modified. As a consequence, monitoring of  
2547 submission deadlines for updates are not feasible and will not be performed.

2548 Platform does not perform any aggregations for day-ahead or intraday values.

2549 Platform will monitor the separate submission deadlines for day-ahead and intraday values. If  
2550 there is more than one intraday nomination on the given border, platform will monitor the first  
2551 submission of intraday values only.

### 2552 7.25.4 INTEGRATION

2553 - Bidding Zones shall be recognised by the platform

2554 - The Data Provider shall be consistent with the identified Bidding Zones

2555 - The time interval in the submitted document is of one day

### 2556 7.25.5 MONITORING

2557 For each couple of In and Out Areas, the submission of day-ahead and first submission of  
2558 intraday values described in section 7.25.2 shall be monitored. If no data has been  
2559 submitted, all declared Data Providers will be notified.

### 2560 7.25.6 PROCESSING

2561 If for a given Bidding Zone couple and MTU period more than one Data Provider has submitted  
2562 data, platform will publish the value from the Data Provider with highest priority.

### 2563 7.25.7 PUBLICATION

#### 2564 7.25.7.1 PUBLICATION BEHAVIOUR

2565 Day-ahead and intraday values will be published separately on the same data view.

#### 2566 7.25.7.2 FILTERING AND SORTING CRITERIA

2567 Data shall be visually accessed by selecting the following:

2568 - Day (Selection is mandatory)

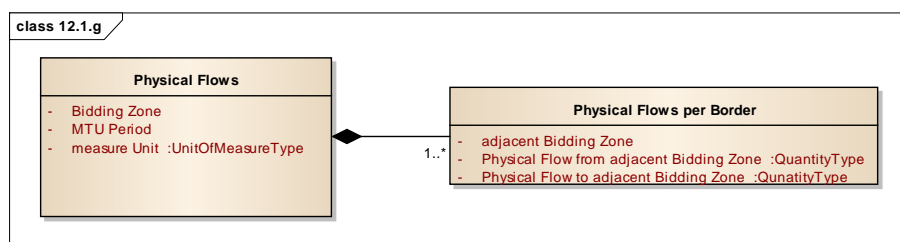
- 2569 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only  
2570 those that partially or completely cover the Country)
- 2571 - Bidding Zones couple or Bidding Zone
- 2572 **7.25.7.3 DISPLAY**
- 2573 This data shall be displayed in the following section:
- 2574 - **Transmission / Scheduled day-ahead commercial exchanges**
- 2575 The following attributes of data shall be displayed:
- 2576 - Title
- 2577 - selected Day
- 2578 - Measurement Unit
- 2579 - MTU
- 2580 - for each couple of Bidding Zones, for each Market Time Unit within the selected day, the day-  
2581 ahead and intraday values per direction in each Bidding Zone
- 2582



## 2583 7.26 PHYSICAL FLOWS [12.1.G]

### 2584 7.26.1 DATA DESCRIPTION

2585 This item can be described by the following class diagram:



- 2586
- 2587 Physical Flows are described between two Bidding Zones, or in some cases two countries,  
2588 with one flow value per Market Time Unit period in each direction, in Measure Unit (MW).
- ### 2589 7.26.2 PRE-CONFIGURATION
- 2590 - A list of couples of Bidding Zones or countries where Physical Flows are expected
- 2591 - For each couple of Bidding Zones or countries where Physical Flows are expected, as of  
2592 what date and time it shall be expected by the platform. Optionally an end date and time may  
2593 be configured as well.
- 2594 - For each couple of Bidding Zones or countries, the allowed Data Providers, and their  
2595 priorities for each direction across the border between the Bidding Zones
- 2596 - For each couple of Bidding Zones or countries and Data Provider, an indicator whether  
2597 netted or non-netted values are expected. By default, netted values are expected.
- 2598 - For each couple of Bidding Zones or countries where Physical Flows are expected, the  
2599 submission deadline (to be configured if needed to override the default submission deadline):
- 2600 • For a given couple of Bidding Zones or countries, submission must be done at the latest  
2601 one hour (H+1) after the end of the MTU Period.
- 2602 *Example: if the couple of Bidding Zones is France - Germany, for a MTU Period of March*  
2603 *13<sup>th</sup>, 2012, between 10:00 and 10:30 UTC, the document describing the physical flows*  
2604 *during this MTU Period must be submitted before March 13<sup>th</sup>, 2012, 11:30 UTC.*

### 2605 7.26.3 ASSUMPTIONS

2606 Data Provider must have the same priority for both directions.

2607 **7.26.4 INTEGRATION**

- 2608 - Bidding Zones or countries shall be recognised by the platform
- 2609 - The Data Provider shall be consistent with the identified couple of Bidding Zones or countries
- 2610 - Data will be rejected if data provider configured as sending netted values sends non-netted values
- 2611
- 2612 - Data will be rejected if data provider configured as sending non-netted values actually sends
- 2613 netted values (i.e. submits values in one direction only).

2614 **7.26.5 MONITORING**

- 2615 For a given couple of Bidding Zones or countries where Physical Flows are expected, the
- 2616 submission deadline described above shall be monitored for every MTU Period. If no data
- 2617 has been received, all declared Data Providers will be notified.

2618 **7.26.6 PROCESSING**

- 2619 If Data Provider is configured as submitting non-netted values for a given couple of Bidding
- 2620 Zones (or countries) and MTU period, platform shall calculate net value.
- 2621 If Data Provider is configured as submitting netted values, the absence of a value in a given
- 2622 direction and MTU period shall be treated as a zero value.
- 2623 Values from all senders (when applicable) are to be stored in the database, with the indication
- 2624 of the associated priority.

2625 **7.26.7 PUBLICATION**

2626 **7.26.7.1 PUBLICATION BEHAVIOUR**

- 2627 The following precedence rule applies, when more than one party is responsible for the
- 2628 submission of data:
- 2629 - For a given direction between a couple of Bidding Zones (or countries) and a given MTU
- 2630 Period, the platform shall publish the net value available from the party with the highest priority
- 2631 - If, for a given MTU Period, data is missing from the provider with the highest priority, then the
- 2632 net value from the Data Provider with the inferior priority shall be displayed if available (and so
- 2633 on if more than two providers).

2634 **7.26.7.2 FILTERING AND SORTING CRITERIA**

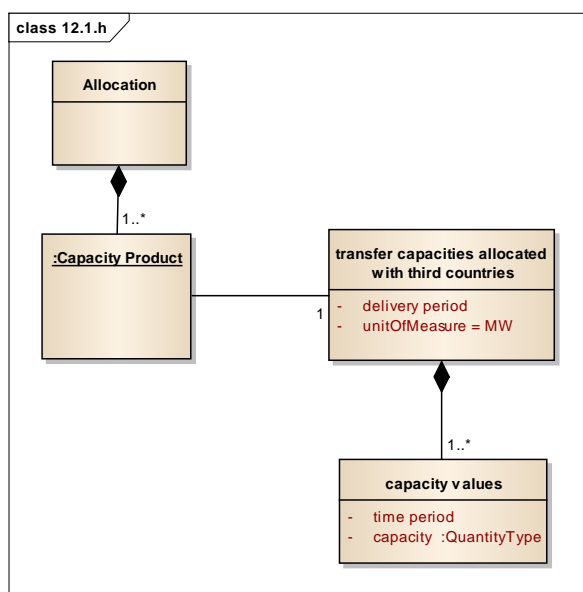
- 2635 Data shall be visually accessed by selecting the following:

- 2636 - Day (Selection is mandatory)
- 2637 - Country or Bidding Zone, alternatively couple of countries or Bidding Zones
- 2638
- 2639 **7.26.7.3 DISPLAY**
- 2640 This data shall be displayed in the following section:
- 2641 **- Cross-Border Physical Flows**
- 2642 The following attributes of data shall be displayed:
- 2643 - Title
- 2644 - Selected day
- 2645 - Measurement Unit
- 2646 - For each Bidding Zone or country couple, for each Market Time Unit within the selected day,
- 2647 the netted physical flow values in each direction
- 2648

## 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

2664 - If for a given auction instance the In Area or Out Area of a capacity product is a third country,  
2665 the data "Transfer Capacities allocated with third countries" shall be expected by the platform.  
2666 Refer to chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2667 - For each capacity product, the unique allowed Data Provider is the one indicated by the  
2668 Transmission Auction configuration. Refer to chapter 7.28.1.3 for details.

2669 - For each auction instance, the submission deadline: One hour after end of the capacity  
2670 allocation period.

2671 Submission deadline is the same for all the Auction's products.

### 2672 7.27.3 ASSUMPTIONS

2673 No specific assumptions apply to this data item.

### 2674 7.27.4 INTEGRATION

2675 - The Data Provider shall be consistent with the capacity product

### 2676 7.27.5 MONITORING

2677 The submission deadline shall be monitored for each explicit auction's capacity products that  
2678 cover a third country.

### 2679 7.27.6 PROCESSING

2680 No processing is performed by the platform on this data item.

### 2681 7.27.7 PUBLICATION

#### 2682 7.27.7.1 PUBLICATION BEHAVIOUR

2683 No particular behaviour applies to this data item.

#### 2684 7.27.7.2 FILTERING AND SORTING CRITERIA

2685 Data shall be visually accessed by selecting the following:

2686 - Allocation type: Explicit or implicit

2687 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the  
2688 Country will be used as filtering criteria)

2689 - Areas couple (Selection is Mandatory)

2690 - Direction (Selection is Optional)

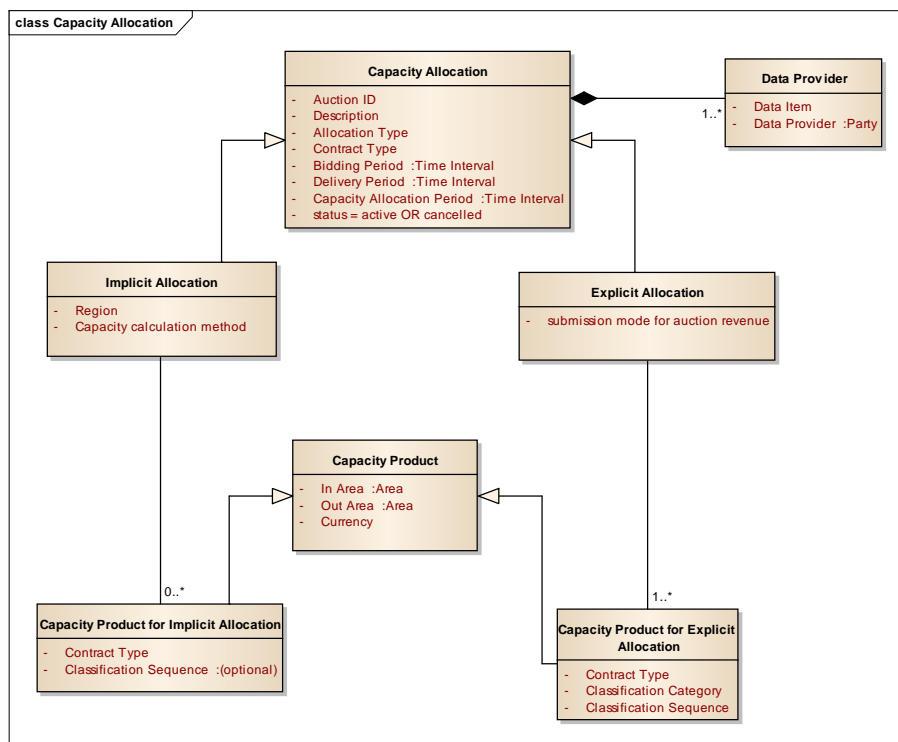
- 2691 - Date or date range (Selection is mandatory)
- 2692 - capacity product (i.e. contract type), selection is optional
- 2693 **7.27.7.3 DISPLAY**
- 2694 This data shall be displayed in the following section:
- 2695 **- Transmission / Transfer capacities allocated with third countries**
- 2696 The following attributes of data shall be displayed:
- 2697 - Title
- 2698 - Allocation type
- 2699 - Areas name
- 2700 - Date or date range
- 2701 - Contract Type
- 2702 - Measurement Unit
- 2703 - Attributes of the applicable capacity product(s): contract type, classification category,
- 2704 classification sequence and allocated capacity value.
- 2705 If capacity values vary during the delivery period, it shall be possible to expand the view so
- 2706 that they are displayed as a curve and in a table.

## 2707 7.28 CONFIGURATION OF TRANSMISSION CAPACITY 2708 ALLOCATION

### 2709 7.28.1 DATA DESCRIPTION

#### 2710 7.28.1.1 CAPACITY ALLOCATIONS

2711 A Transmission Capacity Allocation can be described by the following class diagram:



2712

2713 For each Capacity Allocation, the following attributes are mandatory: Type (implicit or explicit)

2714 and a unique Auction ID. An optional free-text description may be associated with an allocation.

2715 For implicit allocations, optionally the allocation type may be specified (Market Coupling or

2716 Market Splitting). For implicit allocations, the capacity calculation method is either ATC-based

2717 or flow-based. For explicit auctions, by default the allocation type is not specified but may in

- 2718 particular cases be “shadow auction” or “continuous”. Capacity calculation method is always  
2719 ATC-based for explicit allocations.
- 2720 For implicit allocations, optionally a Region may be indicated. Region is mandatory when  
2721 capacity calculation method is flow-based.
- 2722 For explicit allocations, optionally a Conducting Party may be declared. For explicit allocations,  
2723 the submission mode for auction revenue shall be indicated: Aggregated or disaggregated,  
2724 refer to chapter 7.19 for details.
- 2725 The Auction ID may never be modified once an Allocation has been created.
- 2726 Instances of capacity allocations have specific bidding, allocation and delivery periods.
- 2727 Allocations typically take place on a recurring basis, for example in December every year to  
2728 sell capacity products for use during the following year (i.e. yearly products). The Contract  
2729 Type determines the frequency, i.e. once a year, once a month, every day, etc.
- 2730 Exceptionally, there may also be non-recurring allocations, held at a single occasion only.  
2731 For every allocation, it shall be possible to record the date(s) and time(s) when it is being  
2732 held. It shall be possible to select the date(s) using a calendar.
- 2733 For recurring allocations, it shall be possible to record exceptions to the configuration that  
2734 apply on a specific instance of the allocation (i.e. on a specific date). Examples of exceptions  
2735 are extending the capacity allocation period, excluding or adding one or several capacity  
2736 products from/to the capacity allocation or cancelling the whole capacity allocation instance.
- 2737 It shall be possible to cancel a capacity allocation instance. When a capacity allocation is  
2738 cancelled, as a consequence platform will not expect any data submissions related to the  
2739 capacity allocation or its products.

## 2740 7.28.1.2 CAPACITY PRODUCTS

- 2741 Each capacity allocation is associated with one or several capacity products. Each capacity  
2742 product is described by the following mandatory attributes: In Area, Out Area, Currency and  
2743 Contract Type. For implicit allocations, Contract Type must be Day-Ahead or Intraday. For  
2744 products associated with explicit allocations, additionally the attributes Classification  
2745 Category and Classification Sequence are mandatory. For implicit allocations, optionally  
2746 Classification Sequence may be defined.
- 2747 All capacity products associated with a given capacity allocation must have the same  
2748 contract type as the capacity allocation, i.e. yearly products for a yearly auction only, etc.
- 2749 By default the capacity product will be applicable during the capacity allocation’s Delivery  
2750 Period. As a consequence, platform will expect data for the Capacity Product and  
2751 corresponding Bidding Zones. When a capacity product exceptionally has been excluded



2752 from a capacity allocation instance<sup>24</sup>, platform shall not expect any data submissions related  
2753 to that product.

2754 For implicit allocations having flow-based capacity calculation method, capacity products do  
2755 not apply.

### 2756 7.28.1.3 DATA PROVIDERS

2757 For a transmission capacity allocation, as specified by the combination of Auction ID,  
2758 Contract Type and capacity products, the relevant Data Providers must be configured as  
2759 well. For each applicable data item, the unique Data Provider is to be selected.

2760 For implicit allocations with ATC-based capacity calculation method as well as explicit  
2761 capacity allocations:

2762 - Offered Transfer Capacity [11.1]

2763 - Transfer Capacities Allocated with Third Countries [12.1.h]

2764 For implicit allocations with flow-based capacity calculation method:

2765 - Flow-based capacity allocation [11.1]

2766 For implicit capacity allocations:

2767 - Net Positions [12.1.e]

2768 - Congestion Income [12.1.e]

2769 For explicit capacity allocations:

2770 - Use of the Transfer Capacity [12.1.a]

2771 - Auction revenue [12.1.a]

2772 - Total Capacity already Allocated [12.1.c]

2773

### 2774 7.28.2 MONITORING

2775 No monitoring will be performed on the submission of capacity allocation configuration.

---

<sup>24</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.

### 2776 7.28.3 CREATION OF CAPACITY ALLOCATION

2777 Capacity allocations may be created through machine-to-machine data submission and via  
2778 human-to-machine submission. For human-to-machine submission, there shall be a webpage,  
2779 where creation or modification of capacity allocations will require authentication<sup>25</sup>.

2780 Data Providers shall be permitted to create capacity allocations. Platform administrator in  
2781 ENTSO-E shall be able to create and modify capacity allocations on behalf of Data Providers.

2782 When capacity allocation is created, the uniqueness of the ID shall be verified by checking that  
2783 no other capacity allocation on platform with same ID already exists. Note that the assignation  
2784 of ID assumes a manual procedure that is outside the scope of the central platform.

2785 When creating or modifying capacity allocations, the values of the following attributes shall be  
2786 validated against list of permitted values held in platform's master data: Type, sub-type, In  
2787 Area, Out Area, combination of In and Out Areas, Contract Type, Classification Category and  
2788 Currency.

2789 When creating a capacity allocation via the webpage, it shall be possible to use an already  
2790 defined capacity allocation as template when defining a new one.

### 2791 7.28.4 UPDATES TO CAPACITY ALLOCATIONS

2792 The Data Provider that created the capacity allocation may update the data at any time. ID will  
2793 be used to match updated data to Auction.

2794 Platform shall validate that capacity allocation with quoted ID already exists. If not, update will  
2795 be rejected.

2796 Platform will validate that Data Provider performing update is consistent with the Data Provider  
2797 recorded for the capacity allocation. Platform administrator in ENTSO-E shall be able to update  
2798 capacity allocation on behalf of Data Provider.

2799 Deletions are not foreseen under normal circumstances, but could be performed in exceptional  
2800 situations by platform administrator in ENTSO-E.

### 2801 7.28.5 QUERIES OF REFERENCE DATA FOR CAPACITY ALLOCATIONS

2802 Data on capacity allocation shall be made available for visual inspection and download via web  
2803 page.

---

<sup>25</sup> For implicit auctions 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.

## 2804 7.28.5.1 FILTERING AND SORTING CRITERIA

2805 It shall be possible to search for a capacity allocation by using ID as search criterion.

2806 Also, it shall be possible to retrieve several capacity allocations at the same time, by specifying  
2807 the following filtering and sorting criteria:

2808 - Country: –Selection is optional. If selected, In and/or Out Areas that at least partially cover  
2809 the Country will be used as filtering criteria

2810 - Area: Selection is mandatory, one or several may be chosen

2811 - Date: Selection is mandatory, one day or range may be chosen. By default the current date  
2812 shall be used. This date or date range will be used to filter auctions by delivery period.

2813 - Auction type: Explicit or implicit, selection is optional

2814 - Contract type: Selection is optional

## 2815 7.28.5.2 DISPLAY

2816 This data shall be displayed in the following section:

### 2817 - **Transmission / Auctions**

2818 The following attributes of data shall be displayed:

2819 - Description

2820 - ID

2821 - Allocation Type: Explicit or implicit

2822 - Allocation sub-type (when applicable)

2823 - Conducting Party (when applicable)

2824 - Region (when applicable)

2825 - Effective Date

2826 - Bidding, Capacity Allocation and Delivery Period

2827 - Data Provider that created capacity allocation: Shall only be displayed towards authenticated  
2828 users.

2829 - Capacity Products and their attributes

2830 - Clear indication when capacity allocation has been cancelled or capacity product excluded

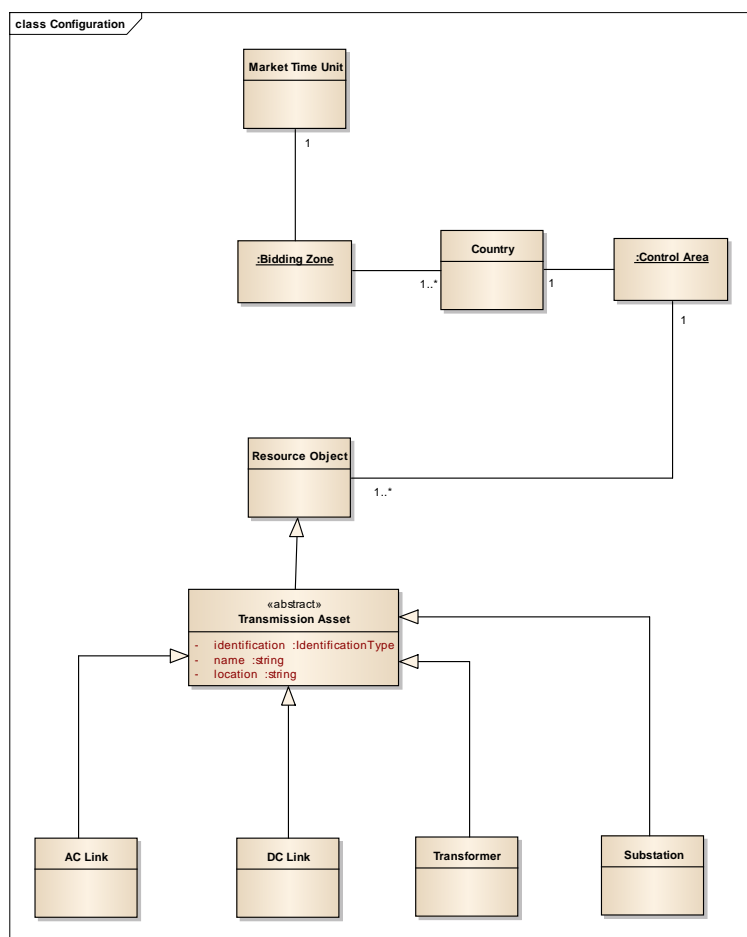
- 2831 - For each applicable data item, the unique Data Provider: Shall only be displayed towards  
2832 authenticated users  
2833 Data shall be displayed in a Table.  
2834

## 8 CONGESTION MANAGEMENT

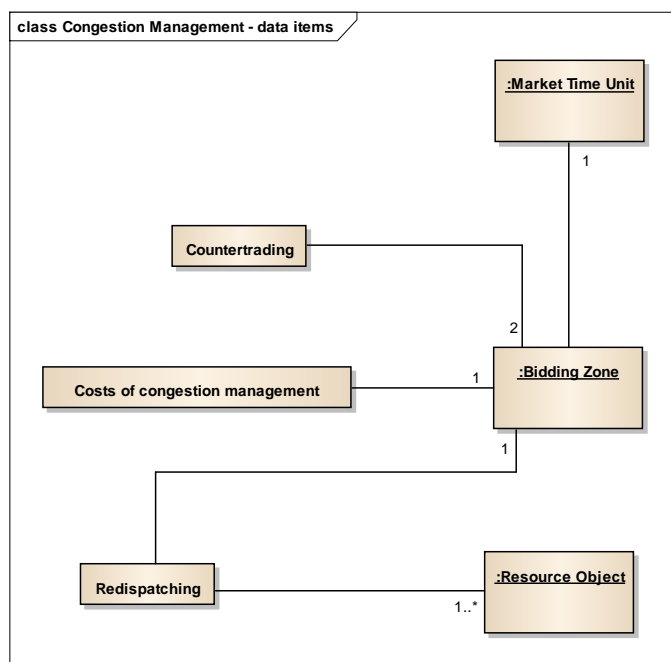
### 8.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 8.1.1 FUNDAMENTAL ENTITIES

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



2841 For Congestion Management, the following relations between the fundamental entities and the  
2842 required information have been identified:



2843

## 2844 8.1.2 PRE-CONFIGURATION

2845 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
2846 reference data:

2847 - [C-CGT-1] a list of Bidding Zones. This is the same configuration as for Generation, Load  
2848 and Transmission

2849 - [C-CGT-2] for each Bidding Zone, the Market Time Unit. This is the same configuration as  
2850 for Generation, Load and Transmission

2851 - [C-CGT-3] a list of redispatching actions: Production increase or decrease, load increase or  
2852 decrease

2853 - [C-CGT-4] a list of countertrading actions: Cross-zonal exchange increase or decrease

2854 - [C-CGT-5] for each Control Area, the single authorized Data Provider, identified by a unique  
2855 Code. This is the same configuration as for Generation and Load

2856 - [C-CGT-6] for each Bidding Zone, the Currency. This is the same configuration as for  
2857 Transmission

2858 - [C-CGT-7] a list of Control Areas. This is the same configuration as for Generation and  
2859 Load

2860 - [C-CGT-8] a list of countries and for each country, the corresponding Control Area(s). This is  
2861 the same configuration as for Generation and Load

2862 - [C-CGT-9] a list of reasons for congestion management: "Load flow overload" and "Voltage  
2863 level adjustment"

### 2864 8.1.3 DATA CONTAINER STATUS / DATA STATUS

2865 All data items follow the "None / Ready for publication" scheme.

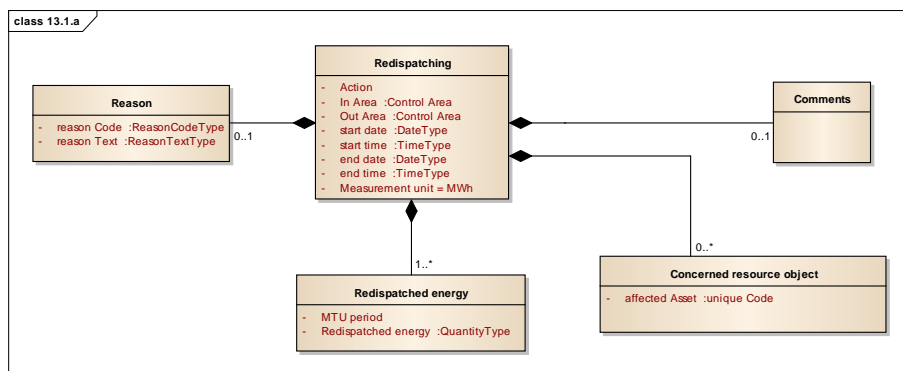
2866

2867

## 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.



2897  
2898 Data Provider may choose to include in one single data submission values for a time interval  
2899 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
2900 MTU.  
2901  
2902 For a given area, there may be several instances of redispatching occurring at the same  
2903 time. No aggregation is performed on platform and every submitted and successfully  
2904 validated instance will be published.

## 2905 8.2.4 INTEGRATION

2906  
2907 - Areas are recognised by platform  
2908  
2909 - Data Provider is consistent with area(s)  
2910  
2911 - Data Provider is consistent with concerned resource objects. This validation shall trigger a  
2912 warning only.  
2913 - Concerned resource objects, if provided, are recognised by the platform.  
2914  
2915 - Concerned resource objects are located within the Area(s). This validation shall trigger a  
2916 warning only.  
2917 - Action is among the values prescribed by pre-configuration [C-CGT-3]  
2918  
2919 - Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]  
2920  
2921 - Document should not be submitted before the start date and time declared within the  
2922 document. Reason being that this is ex-post information. This validation shall trigger a  
2923 warning only.  
2924  
2925 The time interval in the submitted document is of one MTU at least and is a multiple of the  
2926 MTU identified for the area as per [C-CGT-2].

## 2927 8.2.5 MONITORING

2928 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
2929 is performed. Submission deadlines are not relevant to this data item.

## 2930 8.2.6 PROCESSING

2931 No processing is performed on this data item.

## 2932 8.2.7 PUBLICATION

### 2933 8.2.7.1 FILTERING AND SORTING CRITERIA

2934 Data shall be visually accessed by selecting the following:

2935 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2936 partially or completely cover the Country)

2937 - Area(s) (selection is mandatory, at least one must be selected)

2938 - Day or date range (selection is mandatory)

#### 2939 8.2.7.2 DISPLAY

2940 This data shall be displayed in the following section:

2941 - **Congestion Management / Redispatching**

2942 The following attributes of data shall be displayed:

2943 - Area(s)

2944 - Market Time Unit

2945 - Start and end dates and times

2946 - Measurement Unit

2947 - The action

2948 - For each MTU period during the matching redispatching time intervals, the redispatched  
2949 energy.

2950  
2951 - Reason, if provided

2952  
2953 - Comments, if provided

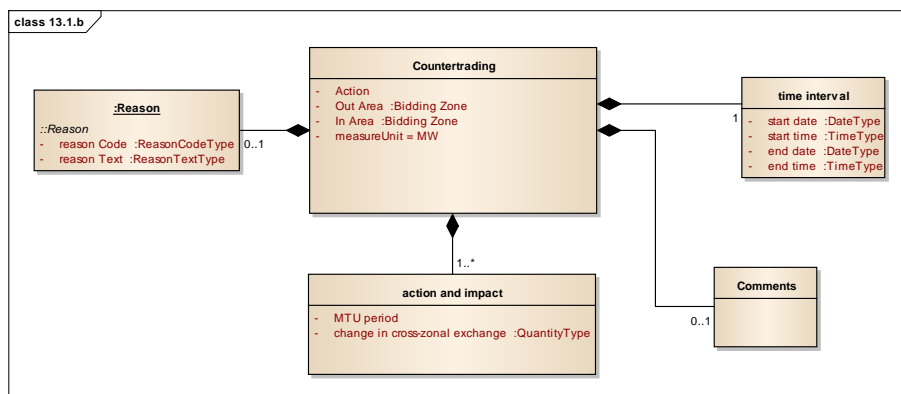
2954  
2955 - A list of concerned resource objects, if available, with links to pages on central platform  
2956 providing more details on the resource objects.

2957  
2958 Data shall be published as a table and as a chart.  
2959

## 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.

## 2985 8.3.4 INTEGRATION

- 2986 - Bidding Zones and Control Area are recognised by platform
- 2987
- 2988 - Data Provider is consistent with Control Area
- 2989
- 2990 - Action is among the values prescribed by pre-configuration [C-CGT-4]
- 2991
- 2992 Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 2993
- 2994 - Document should not be submitted before the end of the MTU. Reason being that this is ex-
- 2995 post information. This validation shall trigger a warning only.
- 2996
- 2997 The time interval in the submitted document is of one MTU at least and is a multiple of the
- 2998 MTU identified for the Bidding Zone as per [C-CGT-2].

## 2999 8.3.5 MONITORING

- 3000 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
- 3001 is performed. Submission deadlines are not relevant to this data item.

## 3002 8.3.6 PROCESSING

- 3003 No processing is performed on this data item.

## 3004 8.3.7 PUBLICATION

### 3005 8.3.7.1 FILTERING AND SORTING CRITERIA

- 3006 Data shall be visually accessed by selecting the following:
- 3007 - Country (selection is optional: If selected, couple of Bidding Zones will be filtered to include
- 3008 only those that partially or completely cover the Country)
- 3009 - Bidding Zone couple (selection is mandatory)
- 3010 - Day or date range (selection is mandatory)

### 3011 8.3.7.2 DISPLAY

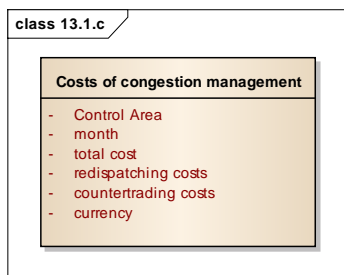
- 3012 This data shall be displayed in the following section:
- 3013 - **Congestion Management / Countertrading**
- 3014 The following attributes of data shall be displayed:
- 3015 - In and Out Areas

- 3016 - Market Time Unit
- 3017 - Start and end dates and times
- 3018 - Measurement Unit
- 3019 - Reason, if available
- 3020 - Comments, if available
- 3021 - For each MTU period during the matching countertrading time intervals, the Action and
- 3022 change in cross-zonal exchange
- 3023
- 3024 Data shall be published as a table and as a chart.
- 3025

## 3026 8.4 COSTS OF CONGESTION MANAGEMENT [13.1.C]

### 3027 8.4.1 DATA DESCRIPTION

3028 This item can be described by the following class diagram:  
3029



3030  
3031  
3032 Per Control Area and month there is a report on the costs of congestion management.  
3033 Report contains separate details for the total costs, costs due to redispatching and costs due  
3034 to countertrading. Platform will calculate costs for other remedial action by subtracting costs  
3035 of redispatching and countertrading from the total cost.  
3036

3037 Document shall cover one single Control Area only.

### 3038 8.4.2 PRE-CONFIGURATION

3039 For this data item there is no specific pre-configuration.

### 3040 8.4.3 ASSUMPTIONS

3041 No monitoring is performed, due to the nature of the data. Hence, no submission deadlines  
3042 will be configured.

### 3043 8.4.4 INTEGRATION

- 3044 - Control Area is recognised by platform
- 3045
- 3046 - Data Provider is consistent with Control Area
- 3047
- 3048 - Currency is consistent with Bidding Zone (indirectly through Control Area), as per pre-  
3049 configuration [C-CGT-6]
- 3050
- 3051

3052 8.4.5 MONITORING

3053 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
3054 is performed. Submission deadlines are not relevant to this data item.

3055 8.4.6 PROCESSING

3056 Platform will per Control Area and month calculate costs for other remedial action, by  
3057 subtracting from total cost the costs of redispatching and countertrading.

3058 8.4.7 PUBLICATION

3059 8.4.7.1 FILTERING AND SORTING CRITERIA

3060 Data shall be visually accessed by selecting the following:

3061 - Country (selection is optional: If selected, Control Area will be filtered to include only those  
3062 that partially or completely cover the Country)

3063 - Control Area (selection is mandatory)

3064 - Month range (selection is mandatory)

3065 8.4.7.2 DISPLAY

3066 This data shall be displayed in the following section:

3067 - **Congestion Management / Costs**

3068 The following attributes of data shall be displayed:

3069 - Control Area

3070 - Currency

3071 - Selected month range

3072 - For each month, the total cost, costs of redispatching, costs of countertrading and costs for  
3073 other remedial actions

3074 Data shall be published as a table and chart.

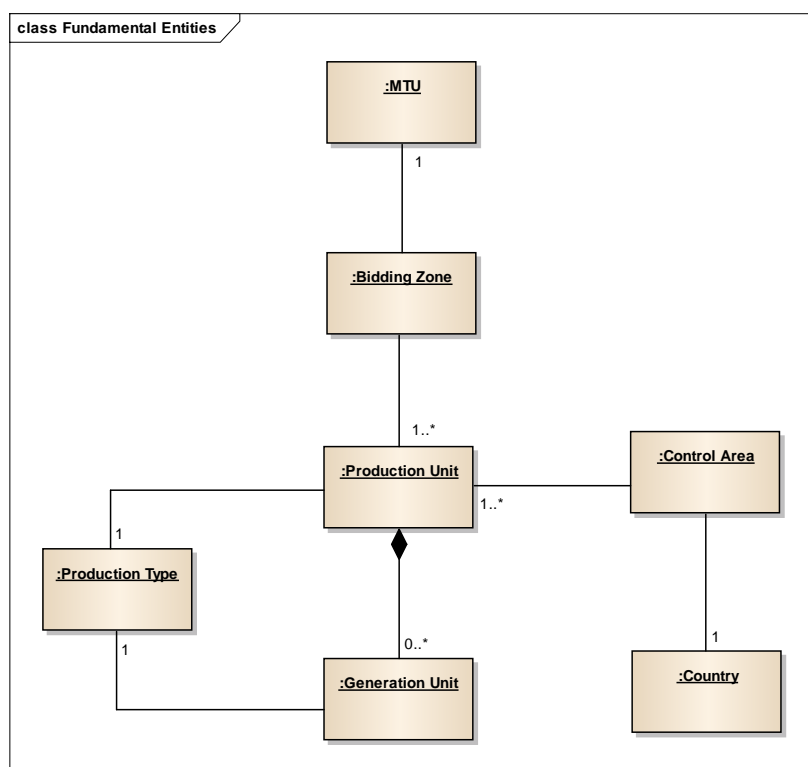
3075

## 9 GENERATION

### 9.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

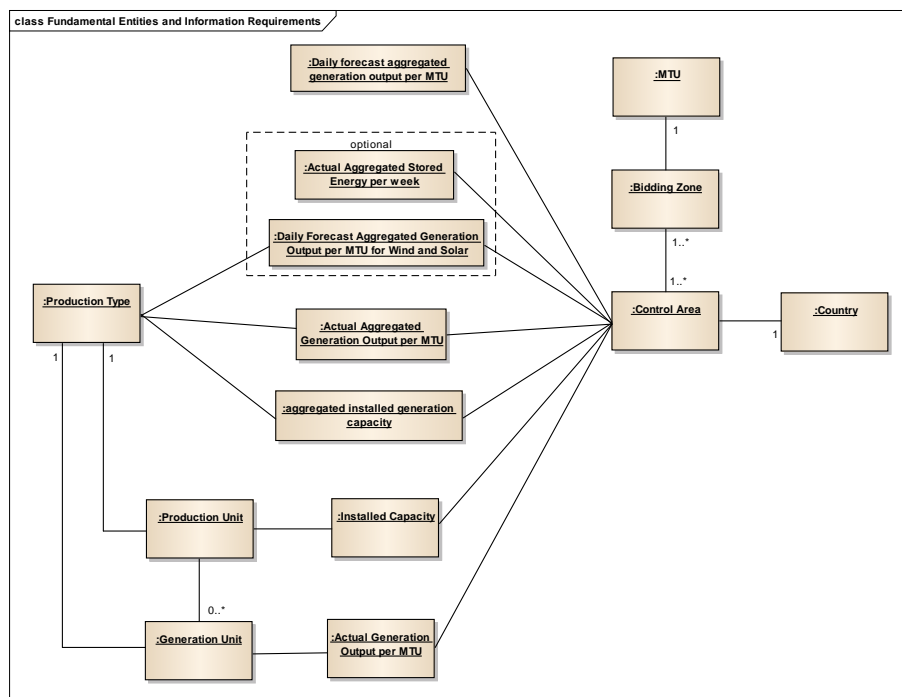
#### 9.1.1 FUNDAMENTAL ENTITIES

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





3086

3087 Optional means here that submission of data is necessary only when power from  
3088 corresponding Production Types exceed certain thresholds, as stipulated in [1].

3089 It must be possible to determine to which bidding zone and control area that generation data  
3090 contained in submitted documents refer to<sup>26</sup>.

## 3091 9.1.2 PRE-CONFIGURATION

3092 The platform administrator at ENTSO-E shall pre-configure application with the following  
3093 reference data:

- 3094 - [C-GNR-1] a list of Bidding Zones
- 3095 - [C-GNR-2] a list of Production Types
- 3096 - [C-GNR-3] for each Bidding Zone the Market Time Unit, expressed as duration

<sup>26</sup> If format of data does not permit explicit declaration of Control Area it may be deduced from Sender.

- 3097 - [C-GNR-4] for each Bidding Zone, Control Area and data item subject to publication, the  
3098 allowed Data Providers, identified by unique Codes<sup>27</sup>
- 3099 - [C-GNR-7] a percentage tolerance that indicates how much scheduled or actual capacity  
3100 may exceed installed capacity. This is a single value common to all Generation Units and will  
3101 be set to 25%. If tolerance is exceeded, only a warning will be triggered.
- 3102 The following reference data will be managed by Data Providers:
- 3103 - [C-GNR-5] a list of Production and Generation Units, refer to chapter 9.9 for further details.  
3104 This will be used for validation during the integration step.
- 3105 - [C-GNR-8] a list of Control Areas
- 3106 - [C-GNR-9] a list of countries and for each country, the corresponding Control Area(s)
- 3107 **9.1.3 PUBLICATION**
- 3108 For data items that do not require aggregation, data is published as soon as received, except  
3109 for data item [16.1.a] where publication will be pending a specified delay.
- 3110 For data items that require aggregation, aggregated values only shall be published. Data is  
3111 being published as soon as it is complete, i.e. when all relevant Data Providers have submitted  
3112 their contributions. However, if by the submission deadline data is still pending from one or  
3113 several Data Providers, the aggregated value shall be published with a clear indication that the  
3114 final value is pending further data submissions.

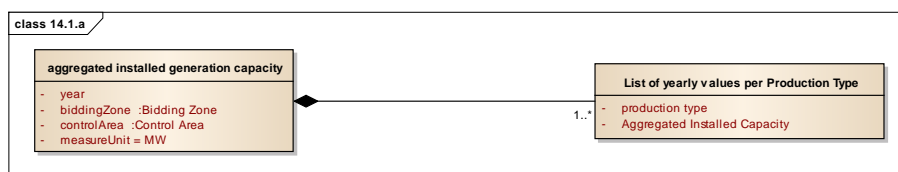
---

<sup>27</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.

## 3138 9.2.5 MONITORING

3139 For a given Bidding Zone and year data is expected. This is controlled by pre-configuration  
3140 [PC14.1.A-1]. For every Bidding Zone and year at least one Capacity Value is expected for at  
3141 least one Production Type. The submission deadline [PC14.1.A-2] will be monitored for  
3142 compliance.

3143 For a given Bidding Zone, data is not considered complete before all Data Providers declared  
3144 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only  
3145 some Data Providers have submitted data, the data will be considered “missing”.

## 3146 9.2.6 PROCESSING

3147 Submitted Capacity values shall be aggregated per Country, Bidding Zone, Production Type  
3148 and year. Aggregation here means simply adding up the submitted Capacity values.

3149 Submitted Capacity values shall also be aggregated per Country, Bidding Zone and year for  
3150 the purpose of calculating a grand total value for the whole Country or Bidding Zone, common  
3151 to all Production Types.

3152 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3153 9.2.7 DATA CONTAINER STATUS / DATA STATUS

3154 This data item follows the “None / Ready for publication / Missing” scheme.

## 3155 9.2.8 PUBLICATION

### 3156 9.2.8.1 FILTERING AND SORTING CRITERIA

3157 Data shall be visually accessed by selecting the following:

- 3158 - Country or Bidding Zone: selection is mandatory
- 3159 - Production Type: selection is optional, one or several may be chosen
- 3160 - Year: selection is mandatory, single year or a range may be chosen

### 3161 9.2.8.2 DISPLAY

3162 This data shall be displayed in the following section:

- 3163 - **Generation / Aggregated Installed Capacity**

3164 The following attributes of data shall be displayed:

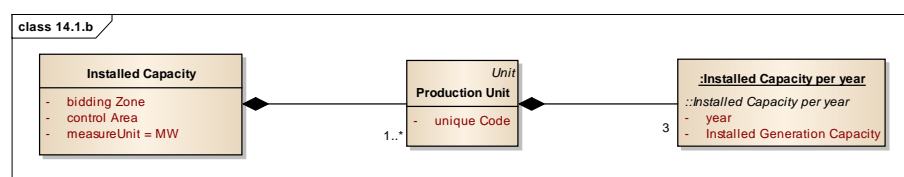
- 3165 - Country or Bidding Zone name

- 3166 - Capacity per Production Type for each year
- 3167 Grand total Capacity for each year shall also be displayed.
- 3168 User shall have the choice between displaying data in a Table, Map or Pie Chart.
- 3169

## 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>28</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>28</sup> Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

3190 9.3.6 PROCESSING

3191 No processing performed on this data item.

3192 9.3.7 DATA CONTAINER STATUS / DATA STATUS

3193 Not applicable since installed capacities are recorded in Master Data.

3194 9.3.8 PUBLICATION

3195 9.3.8.1 FILTERING AND SORTING CRITERIA

3196 Data shall be visually accessed by selecting the following:

- 3197 - Country or Bidding Zone: selection is mandatory
- 3198 - Production Type: selection is optional, one or several may be chosen
- 3199 - Year: selection is mandatory, single year or a range to be chosen

3200 9.3.8.2 DISPLAY

3201 This data shall be displayed in the following section:

3202 - **Generation / List of Production Units and Installed Capacity**

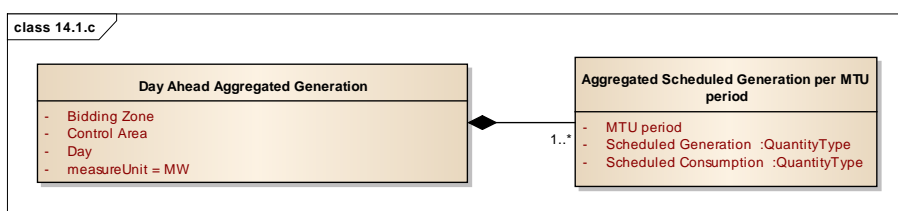
3203 The following attributes of data shall be displayed:

- 3204 - Country or Bidding Zone name
- 3205 - Production Type, unique Code and Name
- 3206 - For every Production Unit and selected year(s), the installed capacity value(s)
- 3207 - For every Production Unit, the commissioning date and, if available, decommissioning date
- 3208 Data shall be displayed in a Table.
- 3209 Links to pages on platform with more details on each Production Unit shall be provided.

## 3210 9.4 DAY AHEAD AGGREGATED GENERATION [14.1.C]

### 3211 9.4.1 DATA DESCRIPTION

3212 This item can be described by the following class diagram:



3213  
3214 For a given Bidding Zone and Control Area the Scheduled Generation for the day-ahead shall  
3215 be recorded. The number of values corresponds to the number of Market Time Unit periods in  
3216 one day. The fixed measure Unit is MW.

3217 Optionally, power consumed by production/generation units may be included.

### 3218 9.4.2 PRE-CONFIGURATION

3219 [PC-14.1.c-1] This data item shall be configured as expected.

3220 [PC-14.1.c-2] There is a daily submission deadline, common to all Bidding Zones.

3221 Submission must be performed not later than D-1 at 18:00 CET.

### 3222 9.4.3 ASSUMPTIONS

3223 No specific assumptions apply to this data item.

### 3224 9.4.4 INTEGRATION

3225 - Bidding Zone and Control Area shall be recognised by the platform

3226 - The Data Provider shall be consistent with the identified Control Area

### 3227 9.4.5 MONITORING

3228 For a given Bidding Zone and day, data is expected. This is controlled by pre-configuration

3229 [PC-14.1.c-1]. Compliance with the submission deadline [PC-14.1.c-2] will be monitored.



## 3230 9.4.6 PROCESSING

3231 Submitted Scheduled Generation values shall be aggregated per Country, Bidding Zone and  
3232 Market Time Unit period. Aggregation here means simply adding up the submitted Scheduled  
3233 Generation values.

3234 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3235 9.4.7 DATA CONTAINER STATUS / DATA STATUS

3236 This data item follows the "None / Ready for publication / Missing" scheme.

## 3237 9.4.8 PUBLICATION

### 3238 9.4.8.1 FILTERING AND SORTING CRITERIA

3239 Data shall be visually accessed by selecting the following:

- 3240 - Country or Bidding Zone: selection is mandatory
- 3241 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3242 - Start and end time: selection is mandatory, start and end time within the selected day

### 3243 9.4.8.2 DISPLAY

3244 This data shall be displayed in the following section:

#### 3245 - **Generation / Day Ahead Aggregated Generation**

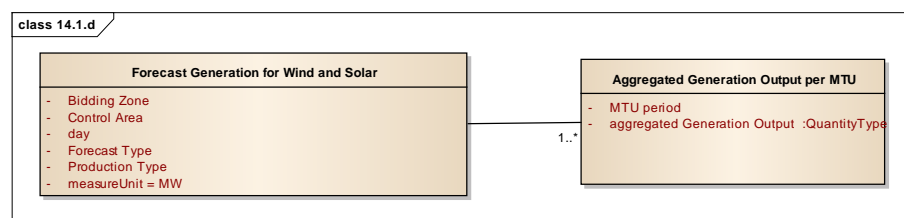
3246 The following attributes of data shall be displayed:

- 3247 - Country or Bidding Zone name
- 3248 - Measure Unit
- 3249 - Selected Day(s)
- 3250 - For every MTU period within the selected day(s), the scheduled generation values, and
- 3251 consumption values (if available). User shall have the choice between displaying data in a
- 3252 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.

3278 **9.5.3 ASSUMPTIONS**

3279 No specific assumptions apply to this data item.

3280 **9.5.4 INTEGRATION**

3281 - Bidding Zone and Control Area shall be recognised by the platform

3282 - The Data Provider shall be consistent with the identified Control Area

3283 **9.5.5 MONITORING**

3284 If for a given Bidding Zone and Production Type the data item has been configured as expected  
3285 per [PC-14.1.d-1], compliance with submission deadlines [PC-14.1.d-2] and [PC-14.1.d-3] will  
3286 be monitored.

3287 Monitoring of the submissions of current forecast at 1800 on day D-1 and at 0800 on day D  
3288 are covered by the monitoring of the day-ahead and intraday forecasts. Any other submissions  
3289 of current forecast cannot be predicted. Hence, no monitoring of current forecast will be  
3290 undertaken.

3291 For a given Bidding Zone, data is not considered complete before all Data Providers have  
3292 submitted their data contributions. If by the deadline only some Data Providers have submitted  
3293 data, the data will be considered “missing”.

3294 **9.5.6 PROCESSING**

3295 Submitted Scheduled Values shall be aggregated per Country, Bidding Zone, Forecast type,  
3296 Production Type (wind onshore, wind offshore and solar, respectively) and Market Time Unit  
3297 period. Aggregation here means simply adding up the submitted Scheduled Values.

3298 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3299 **9.5.7 DATA CONTAINER STATUS / DATA STATUS**

3300 This data item follows the “None / Ready for publication / Missing” scheme.

3301 **9.5.8 PUBLICATION**

3302 **9.5.8.1 FILTERING AND SORTING CRITERIA**

3303 Data shall be visually accessed by selecting the following:

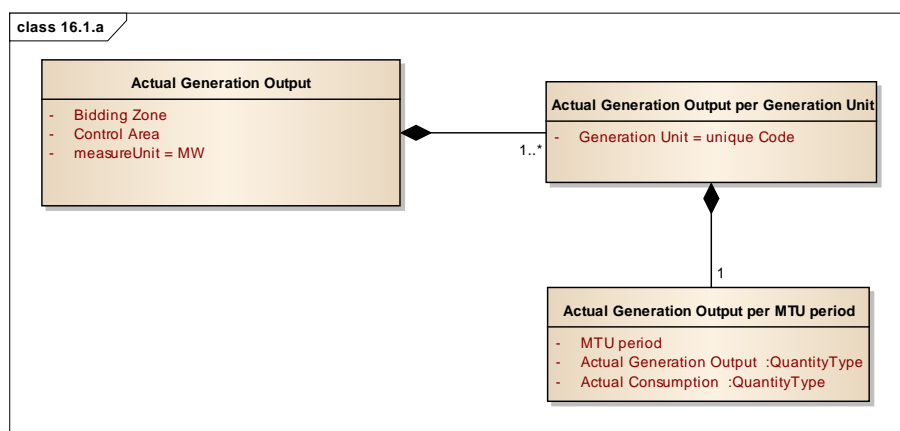
3304 - Country or Bidding Zone: selection is mandatory

- 3305 - Production Type: wind onshore, wind offshore or solar, selection is mandatory, one or several  
3306 may be chosen. By default all are chosen
- 3307 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3308 - Start and end time: must be within the selected day(s) and selection is mandatory
- 3309 **9.5.8.2 DISPLAY**
- 3310 This data shall be displayed in the following section:
- 3311 - **Generation / Day Ahead Generation Forecasts for Wind and Solar**
- 3312 The following attributes of data shall be displayed:
- 3313 - Country or Bidding Zone name
- 3314 - Measure Unit
- 3315 - Selected day(s)
- 3316 - Forecast type
- 3317 - For the selected Production Type(s), generation forecast values for each MTU period within  
3318 the selected start and end dates and times
- 3319 User shall have the choice between displaying data in a Table or in a Chart.
- 3320

## 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

3340 described in the next sections. If installed capacity has not been recorded in the platform, the  
3341 validation will trigger a warning and monitoring will not produce any notification about missing  
3342 data.

3343 Data Provider may choose to include in one single data submission values for a time interval  
3344 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3345 MTU.

#### 3346 9.6.4 INTEGRATION

3347 - Bidding Zone and Control Area shall be recognised by the platform

3348 - The Data Provider shall be consistent with the identified Control Area and Generation Unit

3349 - Document should not be submitted before the end of the MTU period. Reason being that this  
3350 is ex-post information. This validation shall trigger a warning only. The warning may be  
3351 suppressed completely by changing configuration.

3352 - The Codes that identify Generation Units must already exist in the platform. This is  
3353 controlled by pre-configuration [C-GNR-5].

3354 - Generation Unit must be within the Control Area. This shall be validated against the  
3355 Generation Unit reference data described in chapter 9.9.

3356 - For each Generation Unit, it shall be validated that the actual generation output does not  
3357 exceed the Installed Capacity, recorded for the same year, by more than the percentage  
3358 tolerance expressed in [C-GNR-7]. Tolerance currently set to 25%. This validation will trigger  
3359 a warning only.

3360 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3361 MTU identified for the Bidding Zone as per [C-GNR-3].

#### 3362 9.6.5 MONITORING

3363 For a given Bidding Zone and MTU period, actual generation output is expected. This is  
3364 controlled by pre-configuration [PC-16.1.a-1]. This data is expected for all Generation Units  
3365 with an installed generation capacity  $\geq 100$  MW and that are in status Commissioned during  
3366 the MTU period. The submission deadline [PC-16.1.a-2] will be monitored for compliance.

#### 3367 9.6.6 PROCESSING

3368 No further processing is performed on this data item.

#### 3369 9.6.7 DATA CONTAINER STATUS / DATA STATUS

3370 The ex-post data item applies the "none / waiting for publication x 2 / ready for publication /  
3371 missing" scheme.

## 3372 9.6.8 PUBLICATION

### 3373 9.6.8.1 FILTERING AND SORTING CRITERIA

3374 Data shall be visually accessed by selecting the following:

- 3375 - Country or Bidding Zone: selection is mandatory
- 3376 - Production Type: selection is optional, one or several may be chosen.
- 3377 - Production or Generation unit, selection is optional
- 3378 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3379 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3380 9.6.8.2 DISPLAY

3381 This data shall be displayed in the following section:

#### 3382 - **Generation / Actual Generation per Generation Unit**

3383 The following attributes of data shall be displayed:

- 3384 - Country or Bidding Zone name
- 3385 - Production Type, Code and Name of every Generation Unit
- 3386 - selected day(s)
- 3387 - For every Generation Unit, the actual generation output and actual consumption, if available,
- 3388 per MTU period within the selected start and end dates and times

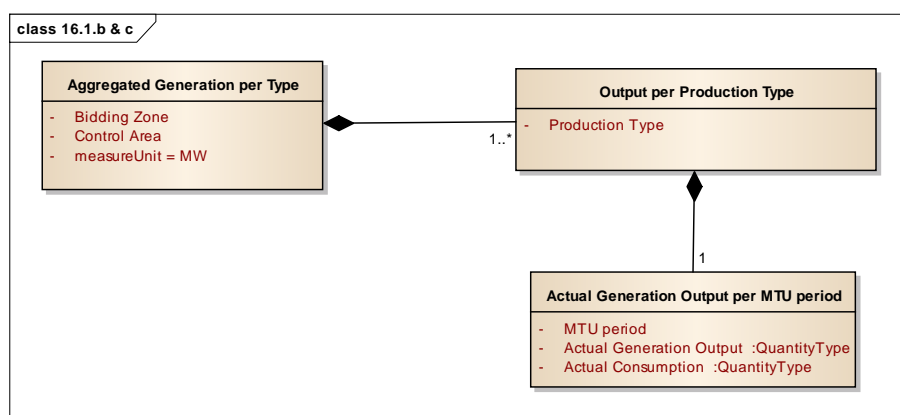
3389 Data shall be displayed in a Table.

3390 Links shall be provided to pages on central platform that provide additional details on each  
3391 Generation Unit.

## 3392 9.7 AGGREGATED GENERATION PER TYPE [16.1.B&C]

### 3393 9.7.1 DATA DESCRIPTION

3394 This item can be described by the following class diagram:



3395  
3396 For a given Bidding Zone, Control Area and a given Production Type, there shall be an  
3397 Aggregated Generation Output per Market Time Unit (MTU) period. Common to all Production  
3398 Types there is a fixed measure Unit (MW).

3399 Optionally, power consumed by production/generation units may be included.

3400 Note that duration of MTU depends on Bidding Zone.

### 3401 9.7.2 PRE-CONFIGURATION

3402 [PC-16.1.bc-1] This data item shall be configured as expected.

3403 [PC-16.1.bc-2] For every Bidding Zone and MTU period there is a submission deadline.  
3404 Submission must be performed not later than one hour after the end of the MTU period.

3405 *Example: If the MTU duration in the Bidding Zone is 15 minutes, then the document that covers*  
3406 *the time 14:00-14:15 must be submitted by 15:15.*

### 3407 9.7.3 ASSUMPTIONS

3408 There is no requirement to configure per production type whether data is expected or not.



3409 Data Provider may choose to include in one single data submission values for a time interval  
3410 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3411 MTU.

#### 3412 9.7.4 INTEGRATION

3413 - Bidding Zone and Control Area shall be recognised by the platform

3414 - Production Type shall be recognised by the platform

3415 - The Data Provider shall be consistent with the identified Control Area

3416 - Document may not be submitted before the end of the MTU period. Reason being that this is  
3417 ex-post information. This validation shall trigger a warning only. The warning may be  
3418 suppressed completely by changing configuration.

3419 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3420 MTU identified for the Bidding Zone as per [C-GNR-3].

#### 3421 9.7.5 MONITORING

3422 For this data item, data is expected. This is controlled by pre-configuration [PC-16.1.bc-1]. For  
3423 a given Bidding Zone and MTU period an actual aggregated generation output value is  
3424 expected for at least one Production Type. The submission deadline [PC-16.1.bc-2] will be  
3425 monitored for compliance.

3426 For a given Bidding Zone, data is not considered complete before all Data Providers declared  
3427 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only  
3428 some Data Providers have submitted data, the data will be considered “missing”.

#### 3429 9.7.6 PROCESSING

3430 Submitted actual generation values shall be aggregated per Country, Bidding Zone, Production  
3431 Type and MTU period. Aggregation here means simply adding up the submitted actual  
3432 generation values.

3433 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

#### 3434 9.7.7 DATA CONTAINER STATUS / DATA STATUS

3435 The ex-post data item applies the “none / waiting for publication / ready for publication /  
3436 missing” scheme.

## 3437 9.7.8 PUBLICATION

### 3438 9.7.8.1 FILTERING AND SORTING CRITERIA

3439 Data shall be visually accessed by selecting the following:

- 3440 - Country or Bidding Zone: selection is mandatory
- 3441 - Production Type: selection is optional, one or several may be chosen
- 3442 - Production and Consumption or Production only: selection is optional, by default Production
- 3443 and Consumption are both displayed
- 3444 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3445 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3446 9.7.8.2 DISPLAY

3447 This data shall be displayed in the following section:

#### 3448 - **Generation / Actual Aggregated Generation Output per Production Type**

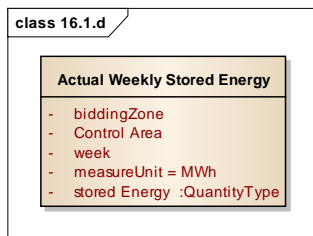
3449 The following attributes of data shall be displayed:

- 3450 - Country or Bidding Zone name
- 3451 - Selected day(s)
- 3452 - For the selected Production Type(s), for each MTU period within the selected start and end
- 3453 dates and times, the actual aggregated generation output and consumption, if available
- 3454 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

3476 - Submission shall not be performed before the end of the week W. This validation shall trigger  
3477 a warning only. The warning may be suppressed completely by changing configuration.

#### 3478 9.8.5 MONITORING

3479 If for a given Bidding Zone the data item has been configured as expected as per [PC-16.1.d-  
3480 1], compliance with submission deadline [PC-16.1.d-2] will be monitored. For a given Bidding  
3481 Zone, data is not considered complete before all Data Providers have submitted their data  
3482 contributions. If by the deadline only some Data Providers have submitted data, the data will  
3483 be considered "missing".

#### 3484 9.8.6 PROCESSING

3485 Submitted Stored Energy Values shall be aggregated per Country and Bidding Zone.  
3486 Aggregation here means simply adding up the submitted Stored Energy Values.  
3487 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

#### 3488 9.8.7 DATA CONTAINER STATUS / DATA STATUS

3489 This is an ex-post data item that applies the "none / waiting for publication x 2 / ready for  
3490 publication / missing" scheme.

#### 3491 9.8.8 PUBLICATION

##### 3492 9.8.8.1 FILTERING AND SORTING CRITERIA

3493 Data shall be visually accessed by selecting the following:  
3494 - Country or Bidding Zone: selection is mandatory  
3495 - Week: selection is mandatory, a single week or a range (from – to) may be chosen

##### 3496 9.8.8.2 DISPLAY

3497 This data shall be displayed in the following section:  
3498 - **Generation / water reservoirs and hydro storage plants**  
3499 The following attributes of data shall be displayed:  
3500 - Country or Bidding Zone name  
3501 - Measure Unit  
3502 - selected week(s)

3503 - Stored Energy Values for the selected week(s) and the same week(s) during previous year

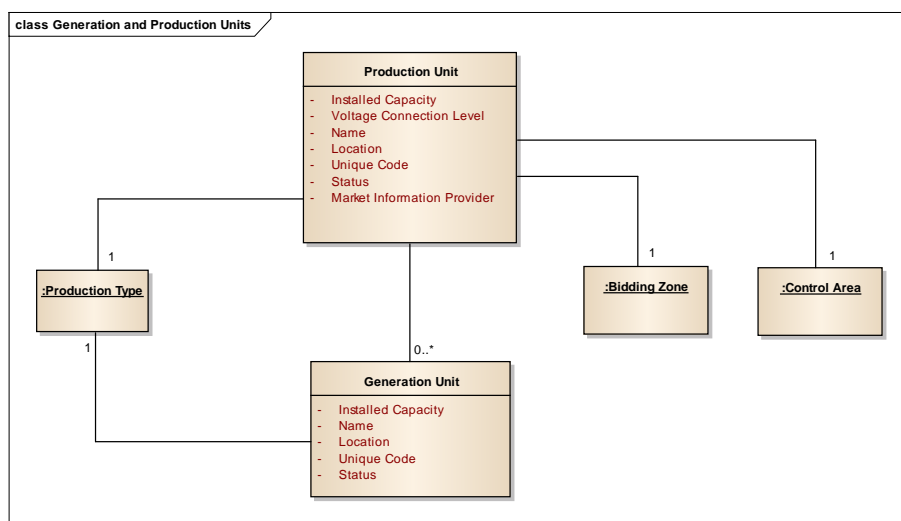
3504 User shall have the choice between displaying data in a Table or in a Chart.

3505

## 3506 9.9 GENERATION AND PRODUCTION UNITS

### 3507 9.9.1 DATA DESCRIPTION

3508 Generation and Production Units can be described by the following class diagram:



3509

3510 A Production Unit may have zero, one or several Generation Units. A Generation Unit may not

3511 be defined on its own, without the corresponding Production Unit.

3512 Status describes whether a Generation or Production Unit is commissioned or

3513 decommissioned. If Unit is no longer relevant, its status should be changed to Cancelled<sup>29</sup>. All

3514 attributes listed above in diagram are mandatory.

3515 The unique code may never be modified once a Generation or Production Unit has been

3516 created. Data representing Generation and Production Units will be effective dated, since in

3517 particular Status may change over time.

### 3518 9.9.2 ASSUMPTIONS

3519 Although a Production Unit always has at least one Generation Unit, there is no obligation for

3520 Data Providers to register Generation Units with an installed capacity smaller than 100 MW.

<sup>29</sup> This could be useful in a scenario where a project to deploy a Unit is curtailed.

3521 Alignment of Production Type or Status between Production Unit and its Generation Unit(s)  
3522 will not be enforced by the platform.

3523 Data Provider is assumed to be the same for the Production Unit and its Generation Unit(s).

3524 Location is a free text field – guidelines regarding its content to be specified by [3].

3525 Platform will not aggregate installed capacity for generation units.

3526 Platform will not validate installed capacity of production unit against installed capacity of its  
3527 generation units.

### 3528 9.9.3 CREATION OF GENERATION AND PRODUCTION UNITS

3529 Generation and Production Units may be created one by one or several in one go. There shall  
3530 be a webpage to this end, where creation or modification of Generation and Production Units  
3531 will require authentication. Additionally, a machine-to-machine interface shall be available,  
3532 based on EDI mechanism.

3533 Platform administrator in ENTSO-E shall be able to create and modify Generation and  
3534 Production Units on behalf of Data Providers.

3535 When Generation or Production Unit is created, the uniqueness of the Code shall be verified  
3536 by checking that no other Generation or Production Unit on platform with same Code already  
3537 exists.

3538 Note that the assignation of unique Code assumes a manual procedure that is outside the  
3539 scope of the central platform.

3540 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3541 Production Type shall be validated against the list of Production Types [C-GNR-2].

3542 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8]

### 3543 9.9.4 UPDATES TO GENERATION AND PRODUCTION UNITS

3544 The Data Provider associated with the Generation or Production Unit may update the data at  
3545 any time. Code will be used to match updated data to Generation or Production Unit.

3546 Platform shall validate that Generation or Production Unit with quoted Code already exists. If  
3547 not, update will be rejected.

3548 Platform will validate that Data Provider performing update is consistent with the Data Provider  
3549 recorded for the Production Unit.

3550 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

- 3551 Production Type shall be validated against the list of Production Types [C-GNR-2].
- 3552 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8].
- 3553 Deletions are not foreseen under normal circumstances, but could be performed in exceptional  
3554 situations by platform administrator in ENTSO-E.
- 3555 **9.9.5 QUERIES OF REFERENCE DATA FOR GENERATION AND PRODUCTION**  
3556 **UNITS**
- 3557 Data on Generation and Production Units shall be made available for visual inspection and  
3558 download via web page.
- 3559 **9.9.5.1 FILTERING AND SORTING CRITERIA**
- 3560 It shall be possible to search for Generation or Production Unit by using Code as search  
3561 criterion.
- 3562 Also, it shall be possible to retrieve several Generation and Production Units at the same time,  
3563 by specifying the following filtering and sorting criteria:
- 3564 - Country or Bidding Zone: selection is mandatory
- 3565 - Production Type: selection is optional, one or several may be chosen
- 3566 - Status: selection is optional, by default set to Commissioned
- 3567 - Effective Date: selection is optional, one day or from-to range may be chosen. By default the  
3568 current date shall be used
- 3569 **9.9.5.2 DISPLAY**
- 3570 This data shall be displayed in the following section, accessible to Data Providers only:
- 3571 - **Generation / Generation and Production Units**
- 3572 The following attributes of data shall be displayed:
- 3573 - Country or Bidding Zone
- 3574 - Effective Date
- 3575 - List of Production Units, with their Installed Capacity, Production Type, Voltage Connection  
3576 Level, Name, Location, Unique Code and Status.
- 3577 - For each Production Unit, the associated Generation Unit(s) with their Installed Capacity,  
3578 Production Type, Name, Location, Unique Code and Status.



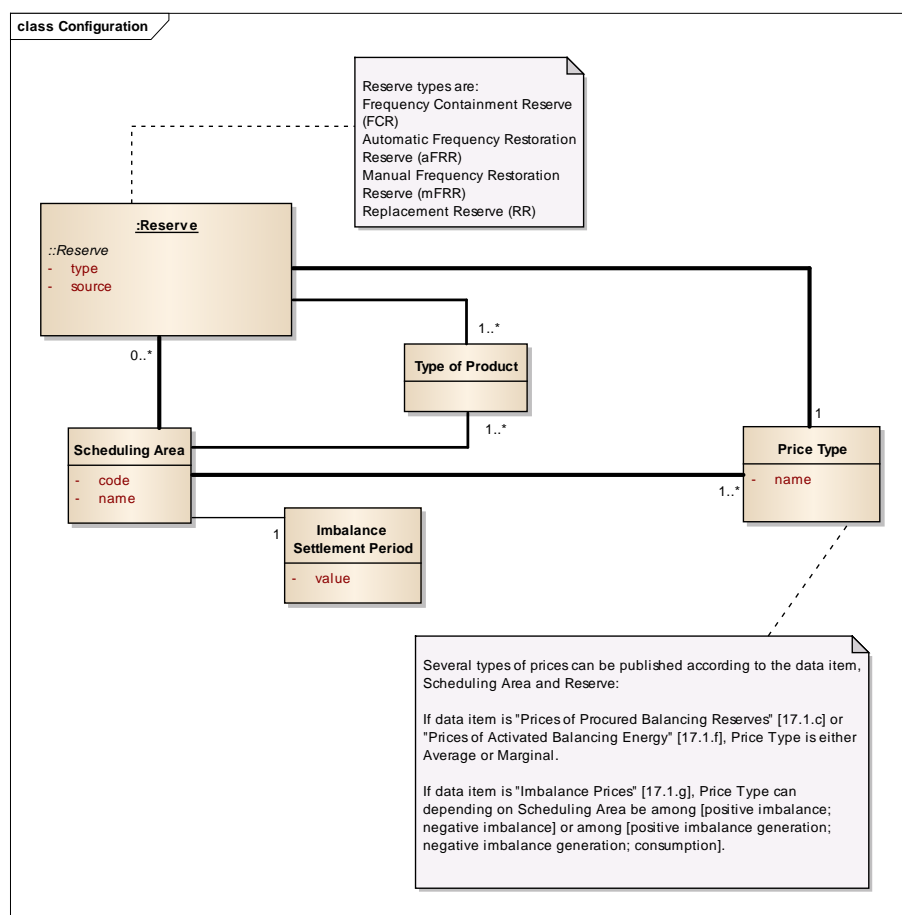
3579 Data shall be displayed in a Table.

## 3580 10 BALANCING

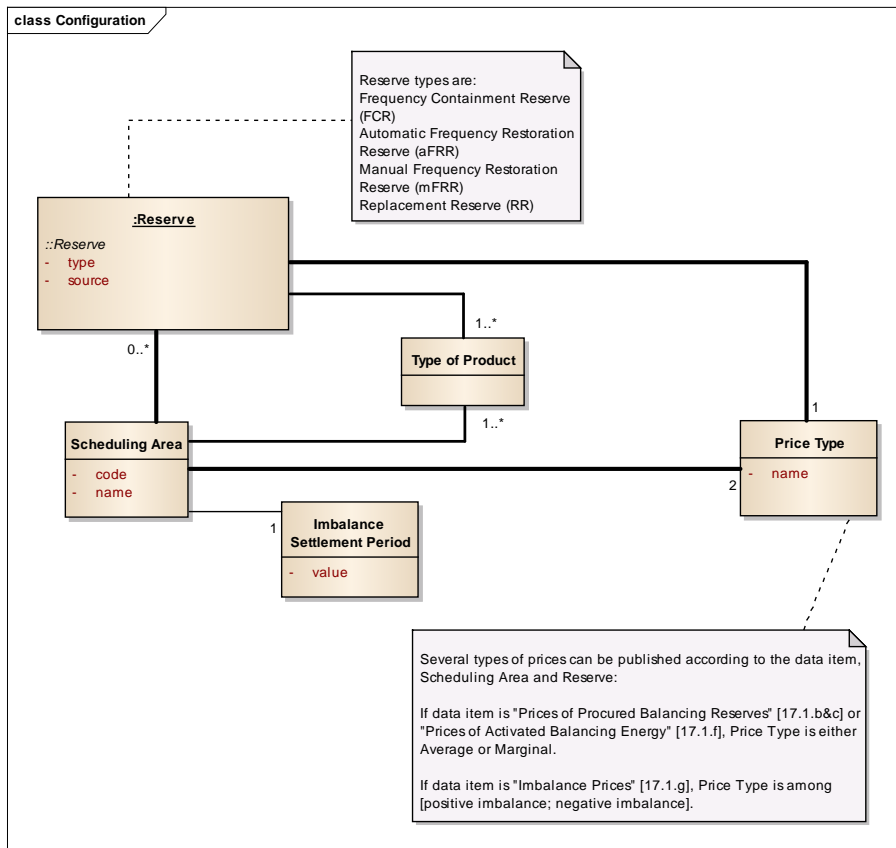
### 3581 10.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 3582 10.1.1 FUNDAMENTAL ENTITIES

3583 The following class diagram describes the fundamental entities to be taken into account within  
3584 the scope of this document in order to pre-configure the platform.



3585



3586

- 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**, however balancing energy prices [17.1.f] and imbalance prices [17.1.g] may in some cases be published per imbalance price area and imbalance volume [17.1.h] and current balancing state [12.3.a] per imbalance area. For most data items, there is a set of applicable Reserves in each Scheduling Area. But in the cases of the data items "Imbalance Prices" [17.1.g], "Total Imbalance Volumes" [17.1.h] and "Financial Expenses and Income for Balancing" [17.1.i] the Reserves are not relevant.
- The **Reserve** is of different **Types**. Reserve may be further differentiated by **source**; load, generation or mixed load/generation. However the latter distinction is mandatory relevant only for data item "Contracted Balancing Reserves" [17.1.b]-&c]. For mFRR, the reserve type may further distinguish between scheduled and direct activation, when applicable.
- The **Imbalance Settlement Period (ISP)** is dependent on the Scheduling Area

- 3600 • The **Type of Price** depends on the Scheduling Area and for some data items additionally  
3601 also on the Reserve
- 3602 • For the data item "Imbalance Prices" [17.1.g], the price in question is an imbalance price.  
3603 ~~Imbalance prices generally concern both generation and consumption but in certain~~  
3604 ~~Scheduling Areas or imbalance price areas there is a distinction to be made between~~  
3605 ~~imbalance prices for generation and imbalance prices for consumption (in which case there~~  
3606 ~~is one price for consumption, whatever the direction, and two prices — one upwards and~~  
3607 ~~one downwards for generation)~~
- 3608 • The **Type of Product** depends on the Reserve Type and the Scheduling Area. Initially only  
3609 ~~two~~three types of products are foreseen; Standard ~~and~~ Specific ~~and~~ Local. As the  
3610 implementation of the ~~EB~~ GL ~~EB~~ progresses, further granularity (i.e. different standard or  
3611 specific products) may be introduced.

3612

## 3613 10.1.2 PRE-CONFIGURATION

- 3614 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
3615 reference data:
- 3616 - [C-BLC-1] a list of Reserves
- 3617 - [C-BLC-3] for each data item a separate list of relevant Scheduling Areas, imbalance areas,  
3618 imbalance price areas or control areas
- 3619 - [C-BLC-4] for select data items, a list of applicable Reserves in each Scheduling Area
- 3620 - [C-BLC-5] a list of Price Types and their dependencies with the data item or combination of  
3621 data item, Scheduling Area and ~~Contract Type~~reserve<sup>30</sup>
- 3622 - [C-BLC-6] a list of Imbalance Settlement Periods and their dependencies with the Scheduling  
3623 Area
- 3624 - [C-BLC-8] a list of Contract Types. The same list as for Transmission applies, refer to chapter  
3625 7.1.6
- 3626 - [C-BLC-9] for each Scheduling Area or imbalance price area, the currency

3627

<sup>30</sup> ~~The dependency on data item and Scheduling Area (or bidding zone) is relevant for data item~~  
~~"Imbalance Prices" [17.1.g] only. Dependency on Scheduling Area and Contract Type~~reserve is  
relevant for data item "Prices of Procured Balancing Reserves" [17.1.c] only.

3628 - [C-BLC-11] for each Scheduling Area, imbalance area and imbalance price area, the country  
3629 or list of countries that it covers, to facilitate publication of data per country

3630 - [C-BLC-12] a list of Product Types

3631

### 3632 10.1.3 ASSUMPTIONS

3633 No specific assumptions apply to the data items in the Balancing domain.

### 3634 10.1.4 INTEGRATION

3635 Data Provider shall in one single data submission be able to provide data for a time interval  
3636 longer than one Imbalance Settlement Period. The time interval would in this case necessarily  
3637 be a multiple of the Imbalance Settlement Period. Similarly, for data item Financial Expenses  
3638 and Income for Balancing [17.1.i], the time interval may encompass several months.

### 3639 10.1.5 DATA CONTAINER STATUS / DATA STATUS

3640 All structured data items, with the exception of [17.1.b], ~~[17.1.&c]~~, [12.3.b&c], [12.3.f], 12.3.h]  
3641 and [12.3.i] follow the “none / waiting for publication / published / missing” scheme if properly  
3642 declared as expected and if the submission deadline has been configured.

### 3643 10.1.6 PUBLICATION

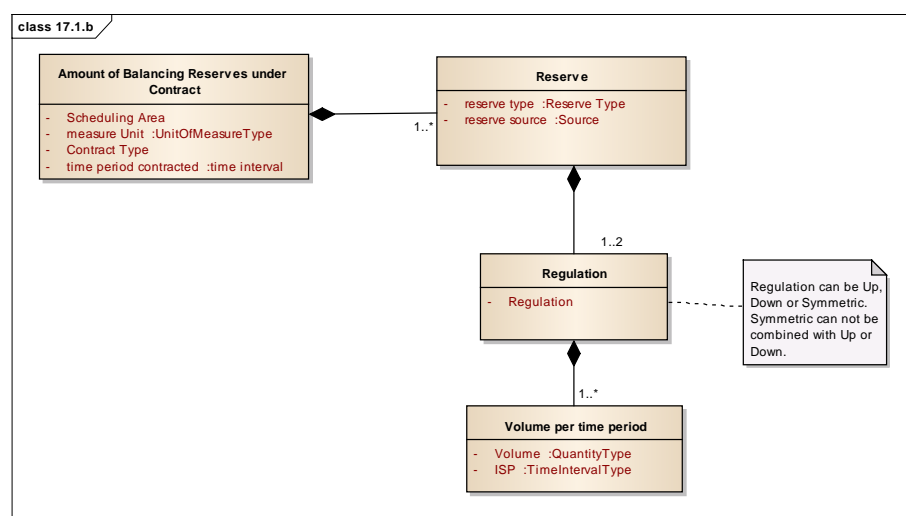
3644 For all data items except [12.3.g, 12.3.j-l], data shall be available on web site in ~~all three~~ both  
3645 formats; table, ~~map~~ and chart.

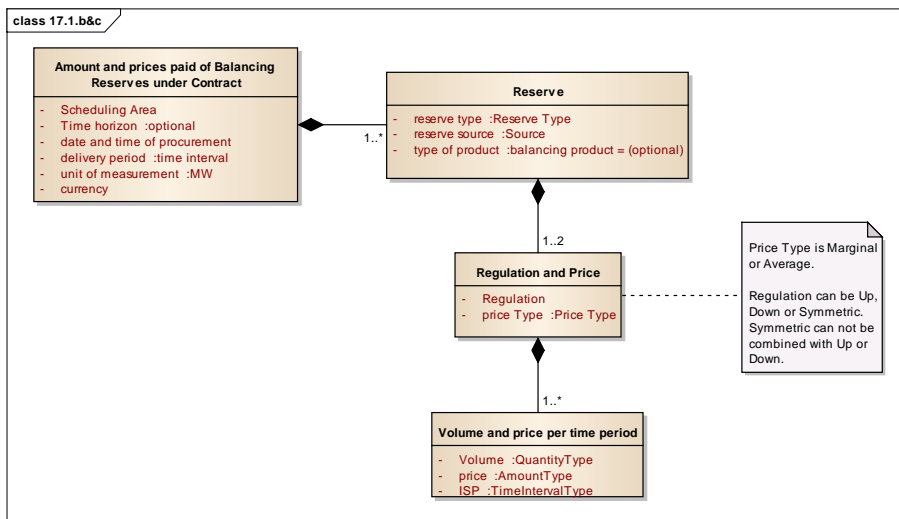


## 10.2 AMOUNT AND PRICES PAID OF BALANCING RESERVES UNDER CONTRACT [17.1.B&C]

### 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 ~~Contract Types or~~ 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 ~~a given Contract Type (yearly, monthly, etc.) and~~ contracted ~~timedelivery~~ period, the quantity ~~and prices paid~~ of contracted balancing ~~reserve volume~~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 ~~is and prices are~~ described with resolution equivalent to ISP.

The applicable price type is specified in reference data.

If no volume was contracted for a given Reserve, the Reserve shall not be included in the submission.



3671 In case data describing prices and volumes are not available for publication at the same time,  
3672 the prices shall be submitted as an update to the document containing the volumes, or vice  
3673 versa.

## 3674 10.2.2 PRE-CONFIGURATION

3675 - For each applicable Scheduling Area, the unique allowed Data Provider~

3676 - For each applicable scheduling area and reserve, the price type: Average or Marginal

## 3677 10.2.3 INTEGRATION

3678 - The Scheduling Area shall be recognised by the platform

3679 - The Reserve shall be recognised by the platform

3680 —Contract Type- Time horizon and type of product, if provided, shall be recognised by the  
3681 platform

3682 - The provided Scheduling Area and Reserve shall be associated together with the data item  
3683 [17.1.b&c] in the pre-configuration of reference data, as in [C-BLC-4]

3684 - The Data Provider shall be consistent with the identified Scheduling Area

## 3685 10.2.4 MONITORING

3686 Contracted time intervals and dates and times for procurement processes vary significantly  
3687 among market balancescheduling areas, hence monitoring will not be performed on this data  
3688 item.

## 3689 10.2.5 PROCESSING

3690 No processing is performed on this data item.

## 3691 10.2.6 DATA CONTAINER STATUS / DATA STATUS

3692 Data follows the “None / Ready for publication” scheme.

## 3693 10.2.7 PUBLICATION

### 3694 10.2.7.1 FILTERING AND SORTING CRITERIA

3695 Data shall be visually accessed by selecting the following:

3696 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
3697 those that partially or completely cover the Country)

- 3698 - Scheduling Area (selection is mandatory)
- 3699 - Reserve (selection is ~~mandatory~~optional)
- 3700 - ~~Contract Type Source~~ (selection is ~~mandatory~~optional)
- 3701 - ~~Time horizon~~ (selection is optional)
- 3702 - ~~Type of product~~ (selection is optional)
- 3703 - ~~Regulation~~ (selection is optional)
- 3704 - Date or date range (selection is mandatory)

#### 3705 10.2.7.2 DISPLAY

3706 This data shall be displayed in the following section:

##### 3707 - **Balancing / Capacity / Volumes and prices of Contracted Reserves**

3708 The following attributes of data shall be displayed:

- 3709 - Title
- 3710 - Scheduling Area name
- 3711 ~~- Contract Type~~
- 3712 - Selected date or date range
- 3713 - Measurement Unit

##### 3714 - Currency

3715 - For reserves with contracted ~~time~~delivery period partially or completely within the selected  
3716 date or date range, the following attributes:

3717 - Reserve Type, Source, price type, Regulation and the contracted ~~time~~delivery period,  
3718 date and time of procurement

3719 ~~- For each Reserve, the Regulation and contracted Volumes~~

3720 ~~if~~- If available: Type of product, time horizon

3721 - Contracted volumes and prices with ISP resolution

3722 If volumes and/or prices vary during the contracted ~~time~~delivery period, it shall be possible to  
3723 expand the view so that ~~volumes~~values are displayed as a curve and a table.

3724

3725

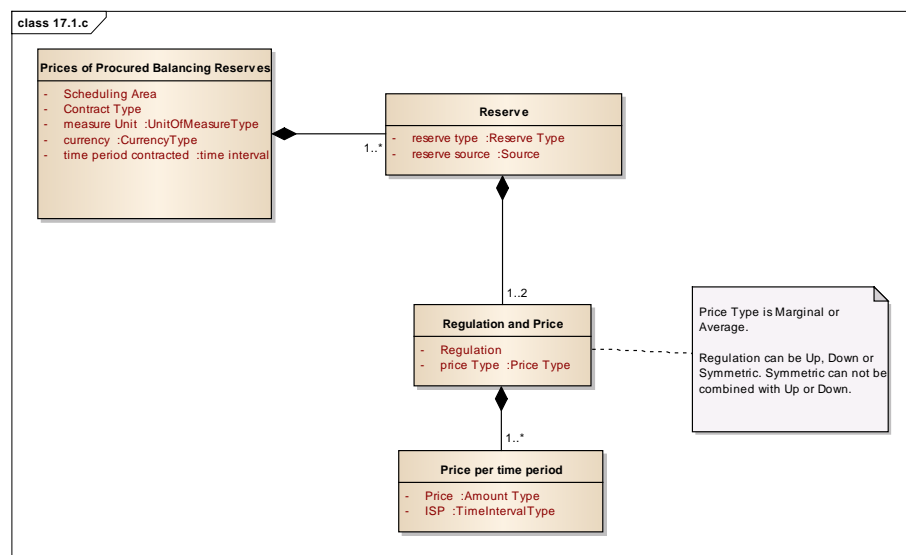
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## 40.310.5 PRICES OF PROCURED/ACTIVATED BALANCING RESERVE/ENERGY [17.1.c] & AFRR CBMPs [AFRR IF 3.16]

### 40.3.110.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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For this data item, the submitted document shall contain values pertaining to one Scheduling Area only.

This item describes for a Scheduling Area, Contract Type and contracted time interval, for the applicable Reserves the price of procured reserve volume per Regulation in a given currency and fixed measure Unit (MW). Source of Reserve is optionally provided.

Price are described with resolution equivalent to ISP.

If no volume was procured for a given Reserve, the Reserve shall not be included in the submission.

## 10.3.2 — PRE-CONFIGURATION

~~For each applicable Scheduling Area, the unique-allowed Data Provider~~

## 10.3.3 — INTEGRATION

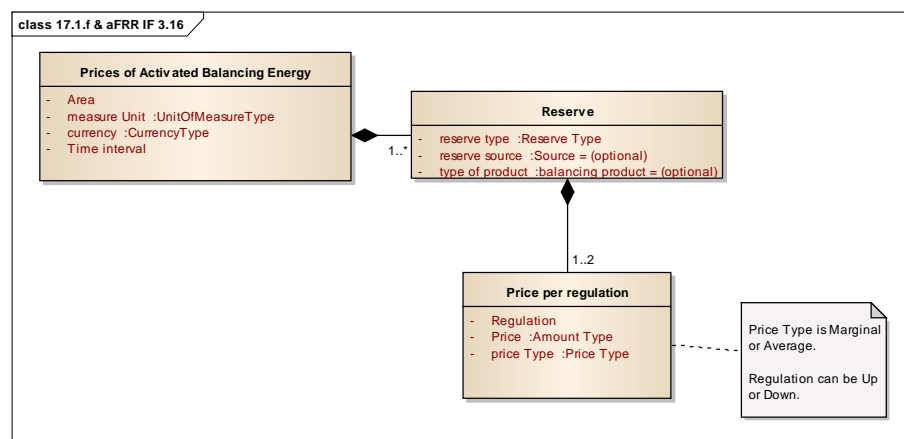
~~The Scheduling Area shall be recognised by the platform~~

~~The Reserve shall be recognised by the platform~~

~~The Contract Type shall be recognised by the platform~~

~~The provided Scheduling Area and Reserve shall be associated together with the data item [17.1.c] in the pre-configuration of reference data, as in [C-BLC-4]~~

~~The Data Provider shall be consistent with the identified Scheduling Area~~



~~Currency shall be consistent with pre-configuration [C-BLC-9]~~

## 10.3.4 — MONITORING

~~Contracted time intervals and dates and times for procurement processes vary significantly among Scheduling areas, hence monitoring will not be performed on this data item.~~

## 10.3.5 — PROCESSING

~~Platform determines Price Type based on Scheduling Area, Reserve and possibly also Contract Type, using pre-configuration [C-BLC-5].~~

## ~~10.3.6 DATA CONTAINER STATUS / DATA STATUS~~

~~Data follows the "None / Ready for publication" scheme.~~

## ~~10.3.7 PUBLICATION~~

### ~~10.3.7.1 FILTERING AND SORTING CRITERIA~~

~~Data shall be visually accessed by selecting the following:~~

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

~~–Scheduling Area (selection is mandatory)~~

~~–Reserve (selection is mandatory)~~

~~–Date or date range (selection is mandatory)~~

~~–Contract Type (selection is mandatory)~~

### ~~10.3.7.2 DISPLAY~~

~~This data shall be displayed in the following section:~~

~~–Balancing / Capacity / Prices of Procured Balancing Reserves (same section as for "Contracted Balancing Reserves / 17.1.b")~~

~~The following attributes of data shall be displayed:~~

~~–Title~~

~~–Scheduling Area name~~

~~–Measurement Unit~~

~~–Currency~~

~~–Contract Type~~

~~–For each Reserve with a contracted time period at least partially within the selected date or date range, the contracted time period, Reserve Type and Source (if provided) are displayed.~~

~~For each Reserve, the Regulation, Price Type and Prices are displayed.~~

~~Data shall be displayed together with the volumes (i.e. "Contracted Balancing Reserves / 17.1.b").~~

3784 ~~If prices vary during the contracted time period, it shall be possible to expand the view so that~~  
3785 ~~prices are displayed as a curve and a table.~~  
3786

3787  
3788  
3789

3790

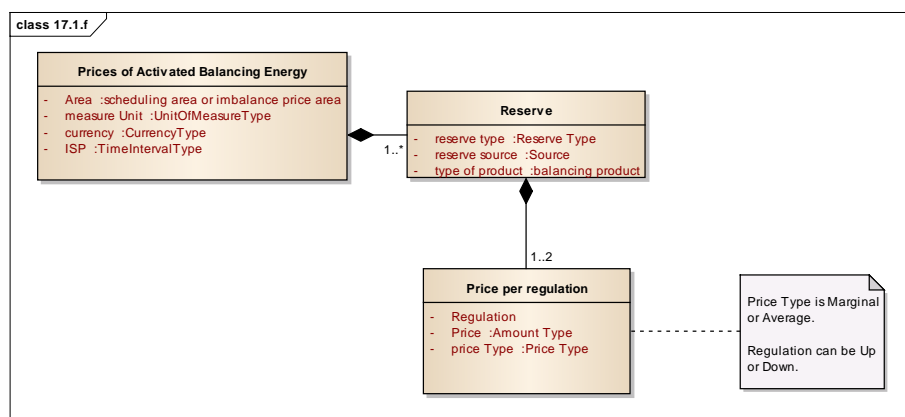
3791



## 10.5 PRICES OF ACTIVATED BALANCING ENERGY [17.1.f]

### 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 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.

### 10.5.2 PRE-CONFIGURATION

- For each applicable area and reserve type, the unique allowed Data Provider

- For each applicable ~~srea~~area and reserve type, the submission deadline:

- For a given ISP, submission must be done at the latest one hour (H+1) after the end of the ISP.

3812 *Example: if the ISP is 30 min for a given Area and Reserve, and the time interval being*  
3813 *described is January 15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be*  
3814 *submitted before January 15<sup>th</sup>, 09:30 UTC.*

### 3815 10.5.3 INTEGRATION

- 3816 - The Area shall be recognised by the platform
- 3817 - The Reserve shall be recognised by the platform
- 3818 - If included, the Type of Product shall be recognised by the platform
- 3819 - The provided Area and Reserve shall be associated together with the data item [17.1.f] in the
- 3820 pre-configuration of reference data, as in [C-BLC-4]
- 3821 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple
- 3822 of the ISP, this ISP being identified for the Area as in [C-BLC-6].
- 3823 - The Data Provider shall be consistent with the identified Area and Reserve
- 3824 - Currency shall be consistent with pre-configuration [C-BLC-9]

### 3825 10.5.4 MONITORING

3826 For a given Area, the submission deadline described above shall be monitored for each time  
3827 interval. If a non-zero activated volume was submitted under GL EB article 12.3.e (refer to  
3828 chapter 10.12), price is expected for the given reserve. ~~Conversely, if the activated volume is~~  
3829 ~~zero, no price will be expected. If a price is submitted although the activated volume is zero,~~  
3830 ~~platform shall respond with a warning.~~  
3831 For aFRR standard products, prices with initially four second resolution will be expected for  
3832 the entire ISP whenever a non-zero activated volume was reported under GL EB article 12.3.e.  
3833 Due to technical limitations, monitoring is performed per entire ISP also for aFRR standard  
3834 products.

### 3835 10.5.5 PROCESSING

3836 Platform determines Price Type based on Area and Reserve, using pre-configuration [C-BLC-  
3837 5].

### 3838 10.5.6 PUBLICATION

#### 3839 10.5.6.1 FILTERING AND SORTING CRITERIA

3840 Data shall be visually accessed by selecting the following:

- 3841 - Country (selection is optional: If selected, Areas will be filtered to include only those that
- 3842 partially or completely cover the Country)
- 3843 - Area (selection is mandatory)
- 3844 - Reserve Type (selection is optional)
- 3845 - Type of Product (selection is optional)
- 3846 - Day (selection is mandatory)
- 3847 - Time Window (Start time and end time) (selection is mandatory)

#### 3848 10.5.6.2 DISPLAY

3849 This data shall be displayed in the following section:

##### 3850 - **Balancing / Energy / Prices of Activated Balancing Energy**

3851 However for aFRR standard product, data shall be displayed in a dedicated section:

##### 3852 - **Balancing / Energy / CBMPs for aFRR standard product [aFRR IF 3.16]**

3853 The following attributes of data shall be displayed:

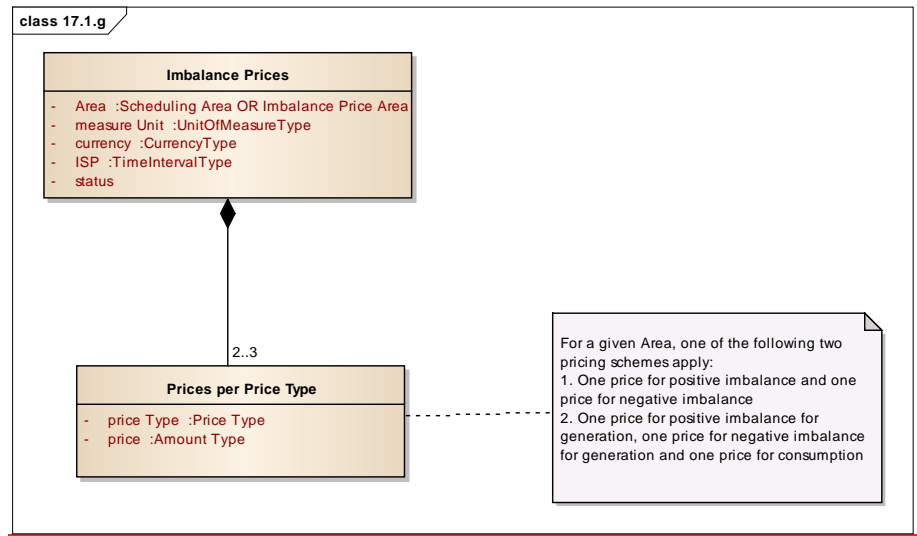
- 3854 - Title
- 3855 - Area name
- 3856 - Reserve: Type and Source (if provided)
- 3857 - Type of Product (if provided)
- 3858 - ISP for the given Area
- 3859 - Day
- 3860 - Measurement Unit
- 3861 - Currency
- 3862 - For each Reserve, the Regulation and Price Type
- 3863 - Prices per ISP within the Time Window, however for aFRR standard product prices are
- 3864 published with four seconds resolution
- 3865 Data-For data with four seconds resolution (i.e. aFRR standard product), data shall by default
- 3866 be displayed together with GLEB article 12.3.e Aggregated balancing energy bids.



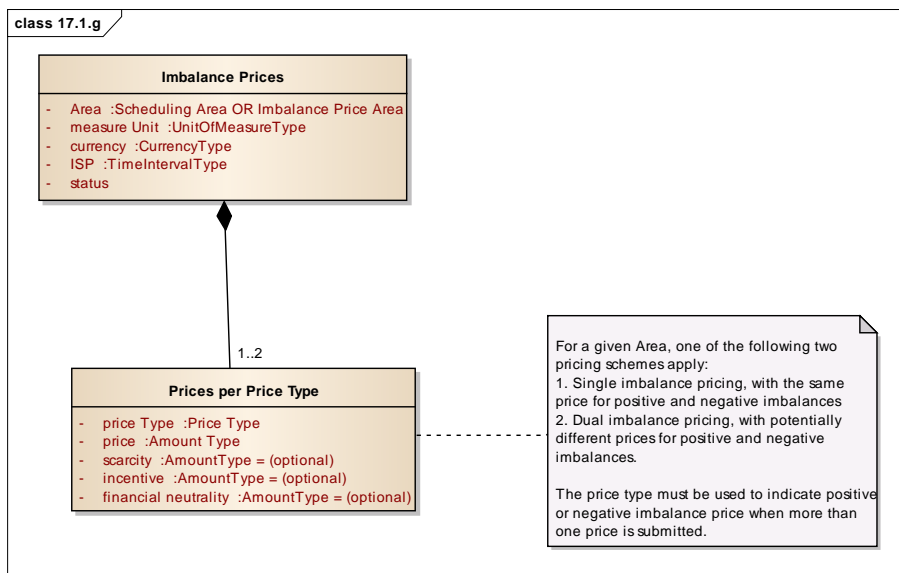
3868      10.6    IMBALANCE PRICES [17.1.G]

3869    10.6.1    DATA DESCRIPTION

3870    This item can be described by the following class diagram:



3871



For each applicable area, which may be a scheduling area or an imbalance price area, ~~there should be a given ISP value, the positive and two or three applicable price types: negative imbalance prices shall be published.~~ For this data item, the submitted document shall contain values pertaining to only one Area.

~~This item describes for-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~~unit (MWh). Prices may be negative, positive or zero. The status of the data (~~estimated~~intermediate or final) shall also be indicated.

## 10.6.2 PRE-CONFIGURATION

- For each applicable Area, the unique allowed Data Provider

- For each applicable Area, the submission deadline:

- Data shall be submitted as soon as possible. The specific submission deadline will depend on Area.

3891 *Example: ISP is 30 min for a given Area where submission deadline is H+2. The time*  
3892 *interval in question is January 15<sup>th</sup> [08:00; 08:30] UTC. Values for this time interval must*  
3893 *be submitted before January 15<sup>th</sup>, 10:30 UTC.*

### 3894 10.6.3 INTEGRATION

3895 - The Area shall be recognised by the platform

3896 - ~~The~~ self provided, the Price Types shall be recognised by the platform

3897 - The provided Area shall be associated with the data item [17.1.g] in the pre-configuration of  
3898 reference data, as in [C-BLC-3]

3899 ~~The provided Price Types shall be associated with the data item [17.1.g] and the given Area,~~  
3900 ~~as in [C-BLC-5]~~

3901 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple  
3902 of the ISP, this ISP being identified for the Area as in [C-BLC-6]

3903 - The Data Provider shall be consistent with the identified Area

3904 - Currency shall be consistent with pre-configuration [C-BLC-9]

### 3905 10.6.4 MONITORING

3906 For a given Area, the submission deadline described above shall be monitored for each time  
3907 interval.

### 3908 10.6.5 PROCESSING

3909 No processing is performed on this data item.

### 3910 10.6.6 PUBLICATION

#### 3911 10.6.6.1 FILTERING AND SORTING CRITERIA

3912 Data shall be visually accessed by selecting the following:

3913 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3914 partially or completely cover the Country)

3915 - Area (selection is mandatory)

3916 - Day (selection is mandatory)

3917 - Time ~~Window~~ window within selected day (Start time and end time) (selection is  
3918 ~~mandatory~~ optional)

3919 10.6.6.2 DISPLAY

3920 This data shall be displayed in the following section:

3921 - **Balancing / Imbalance / Imbalance Prices** (together with 17.1.h)

3922 The following attributes of data shall be displayed:

3923 - Title

3924 - Area name

3925 ~~- ISP for the given Area~~

3926 - Day

3927 - Measurement Unit

3928 - Currency

3929 For every ISP within the selected time window and for the selected area:

3930 - Status of the data (~~estimated~~intermediate or final) ~~per ISP within the time window~~

3931 - ~~For each applicable Price Type, the Price Type and the price per ISP within the Time~~  
3932 ~~Window~~separately for the given Area~~positive and negative imbalances~~

3933 - If provided, the component(s) separately for positive and negative imbalances

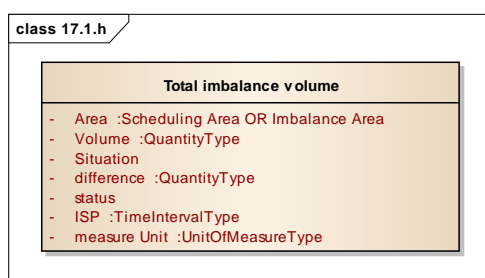
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## 3934 10.7 TOTAL IMBALANCE VOLUME [17.1.H]

### 3935 10.7.1 DATA DESCRIPTION

3936 This item can be described by the following class diagram:



3937  
3938 For each applicable Market Balance Area, there should be a given ISP value. For this data  
3939 item, the submitted document shall contain values pertaining to only one area, which may be  
3940 a scheduling area or an imbalance area.

3941 This item describes for a time interval, equal to one ISP, the total imbalance volume in a given  
3942 fixed measure Unit (MWh). The volume represents either a surplus or a deficit. The difference  
3943 between measured and scheduled flows over all interconnectors shall be published separately.  
3944 The status of the data (~~estimated~~Intermediate or final) shall also be indicated. Data shall be  
3945 submitted as absolute values.

3946

### 3947 10.7.2 PRE-CONFIGURATION

3948 - For each applicable area, the unique allowed Data Provider

3949 - For each applicable area, the submission deadline:

- 3950 • For a given time interval, submission must be done at the latest 30 minutes after the
- 3951 end of the time interval.

3952 *Example: if the ISP is 30 min for a given area, and the time interval in question is January*  
3953 *15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be submitted before January 15<sup>th</sup>,*  
3954 *09:00 UTC.*

### 3955 10.7.3 INTEGRATION

3956 - The area shall be recognised by the platform

3957 - The provided area shall be associated together with the data item [17.1.h] in the pre-  
3958 configuration of reference data, as in [C-BLC-3]

3959 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple  
3960 of the ISP, this ISP being identified for the area as in [C-BLC-6]

3961 - The Data Provider shall be consistent with the identified area

#### 3962 10.7.4 MONITORING

3963 For a given area, the submission deadline described above shall be monitored for each time  
3964 interval.

#### 3965 10.7.5 PROCESSING

3966 No processing is performed on this data item.

#### 3967 10.7.6 PUBLICATION

##### 3968 10.7.6.1 FILTERING AND SORTING CRITERIA

3969 Data shall be visually accessed by selecting the following:

3970 - Country (selection is optional: If selected, areas will be filtered to include only those that  
3971 partially or completely cover the Country)

3972 - area (selection is mandatory)

3973 - Day (selection is mandatory)

3974 - Time Window (Start time and end time) (selection is mandatory)

##### 3975 10.7.6.2 DISPLAY

3976 This data shall be displayed in the following section:

3977 - **Balancing / Imbalance** (same section as for "Imbalance prices / 17.1.g")

3978 The following attributes of data shall be displayed:

3979 - Title

3980 - Area name

3981 - Balancing Time Unit for the given area

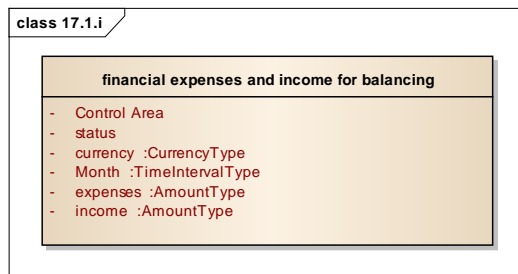
3982 - Day

- 3983 - Measurement Unit (MWh)
- 3984 - Deficit or surplus for each ISP within the Time Window for the given area
- 3985 - Status of data (~~Estimated~~Intermediate or Final) for each ISP within the Time Window for the
- 3986 given area
- 3987 - The total imbalance volume and difference per ISP within the Time Window for the given area

3988 10.8 FINANCIAL EXPENSES AND INCOME FOR BALANCING  
3989 [17.1.i]

3990 10.8.1 DATA DESCRIPTION

3991 This item can be described by the following class diagram:



3992  
3993 For each applicable Control Area, this item describes for each month the expenses and  
3994 income, in a given currency, together with a status of this financial information  
3995 (~~provisional~~Intermediate or final).

3996 **Note:** Amounts (whether expense or income) can be both positive and negative.

3997 For this data item, the submitted document shall contain values pertaining to only one Control  
3998 Area.

3999 10.8.2 PRE-CONFIGURATION

4000 - For each applicable Control Area, the unique allowed Data Provider

4001 - For each applicable Control Area, the submission deadline:

- 4002 • For a given month, submission must be done at the latest at the end of the last calendar  
4003 day of M+3, where M is the month to which submitted values pertain.

4004 *Example: if the considered month is January 2012, values for this month must be submitted*  
4005 *before 30<sup>th</sup> April, 24:00 UTC.*

4006 10.8.3 INTEGRATION

4007 - The Control Area shall be recognised by the platform

- 4008 - The provided Control Area shall be associated with the data item [17.1.i] in the pre-  
4009 configuration of reference data, as in [C-BLC-3]
- 4010 - The time interval in the submitted document is of one month at least and is necessarily a  
4011 multiple of one month
- 4012 - The Data Provider shall be consistent with the identified Control Area
- 4013 - Document is submitted after the end of the month described in the document, reason being  
4014 that this is ex-post data. This validation shall trigger a warning only.
- 4015 - Currency shall be consistent with pre-configuration [C-BLC-9]
- 4016 **10.8.4 MONITORING**
- 4017 For this item, the monthly submission deadline shall be monitored.
- 4018 **10.8.5 PROCESSING**
- 4019 The following processing is performed by the platform:
- 4020 - calculate the difference between the expense and the income
- 4021 **10.8.6 PUBLICATION**
- 4022 **10.8.6.1 FILTERING AND SORTING CRITERIA**
- 4023 Data shall be visually accessed by selecting the following:
- 4024 - Country (selection is optional: If selected, Control Areas will be filtered to include only those  
4025 that partially or completely cover the Country)
- 4026 - Control Area (selection is mandatory)
- 4027 - Time Window (from one month to a year) (selection is mandatory)
- 4028 **10.8.6.2 DISPLAY**
- 4029 This data shall be displayed in the following section:
- 4030 - **Balancing / Financial Balance / Financial expenses and income**
- 4031 The following attributes of data shall be displayed:
- 4032 - Title
- 4033 - Control Area name

- 4034 - Time Window
- 4035 - Currency
- 4036 - For each month, the status of data (~~Provisional~~Intermediate or Final)
- 4037 - For each month, the income
- 4038 - For each month, the expenses
- 4039 - For each month, the calculated difference between the expenses and income

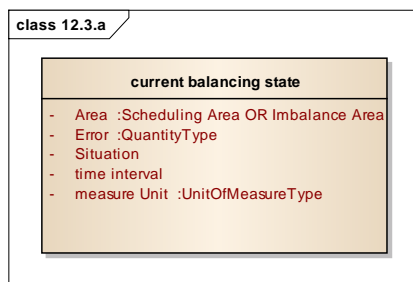
4040

4041

## 4042 10.9 CURRENT BALANCING STATE [GL EB 12.3.A]

### 4043 10.9.1 DATA DESCRIPTION

4044 This item can be described by the following class diagram:



4045

4046 The submitted document describes for a given area, which may be of type scheduling area,  
4047 load frequency control area or imbalance area, the open loop control area error, expressed in  
4048 MW per minute. The volume of this error represents either a surplus or a deficit, as indicated  
4049 by the Situation attribute. If the system is balanced, a zero volume shall be submitted. Data  
4050 shall be submitted as absolute values.

### 4051 10.9.2 PRE-CONFIGURATION

4052 - For each applicable area, the unique allowed Data Provider

4053 - For each applicable area, the submission deadline:

- 4054 • For a given time interval, submission must be done at the latest 30 minutes after the  
4055 end of the minute being described by the data.

4056 *Example: if the document describes the time interval January 15<sup>th</sup> [08:00; 08:01] UTC,*  
4057 *values for this time interval must be submitted before January 15<sup>th</sup>, 08:31 UTC.*

### 4058 10.9.3 INTEGRATION

4059 - The area shall be recognised by the platform

4060 - The provided area shall be associated together with the data item [GL EB 12.3.a] in the pre-  
4061 configuration of reference data, as in [C-BLC-3]

4062 - The time interval in the submitted document is of one minute at least and is necessarily a  
4063 multiple of minutes

4064 - The Data Provider shall be consistent with the identified area



4065 10.9.4 MONITORING

4066 For a given area, the submission deadline described above shall be monitored for each time  
4067 interval.

4068 10.9.5 PROCESSING

4069 No processing is performed on this data item.

4070 10.9.6 PUBLICATION

4071 10.9.6.1 FILTERING AND SORTING CRITERIA

4072 Data shall be visually accessed by selecting the following:

4073 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
4074 partially or completely cover the Country)

4075 - Area (selection is mandatory)

4076 - Day (selection is mandatory)

4077 - Time Window (Start time and end time) (selection is mandatory)

4078 10.9.6.2 DISPLAY

4079 This data shall be displayed in the following section:

4080 - **Balancing / Imbalance / Current balancing state**

4081 The following attributes of data shall be displayed:

4082 - Title

4083 - Area

4084 - Day

4085 - Measurement Unit (MW)

4086 - Indicator of deficit or surplus per minute within the Time Window for the given area

4087 - The open loop control area error per minute within the Time Window for the given area

## 4088 10.10 BALANCING ENERGY BIDS [GL EB 12.3.B&C]

### 4089 10.10.1 DATA DESCRIPTION

4090 This data item contains the balancing energy bids for the Scheduling area. The data  
4091 submissions to the central transparency platform shall distinguish the reserve type, the  
4092 direction, the validity and delivery periods, offered volume and price. ~~It shall also be~~  
4093 ~~indicated whether the bid is available or unavailable.~~

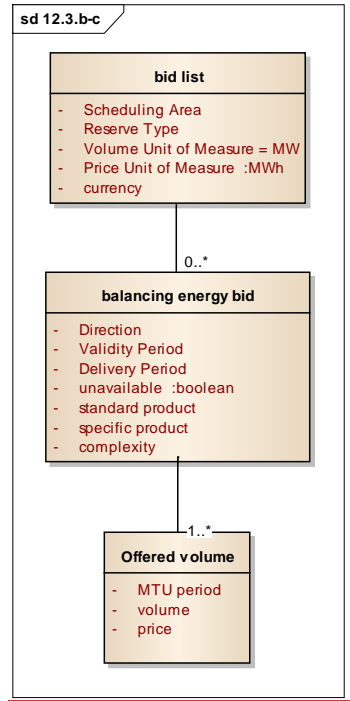
4094  
4095 For standard products, it is mandatory to indicate whether the bid is available or  
4096 unavailable. For unavailable bids that were activated locally, it will be possible to declare  
4097 the activation purpose. A free text comment may optionally accompany an unavailable  
4098 bid to provide further explanation and justification.

4099  
4100 For RR standard product bids, the reason for unavailability must be declared. For  
4101 standard product aFRR and mFRR bids, a cross-reference is provided to the detailed  
4102 reason for changes to availability which are published separately.  
4103

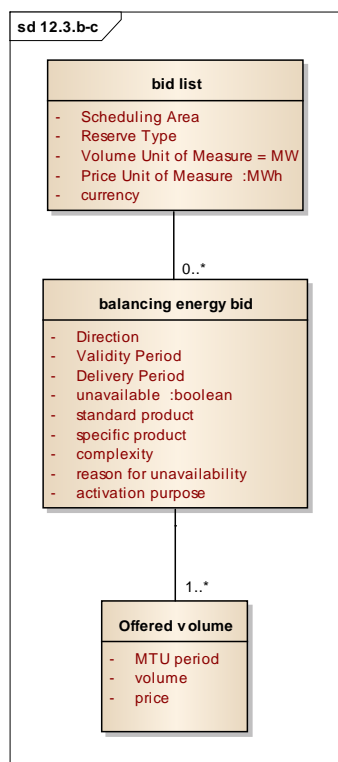
4104 A complexity indicator will express whether the bid is linked, exclusive or multipart.

4105 The standard product attribute will be used when the bid refers to a standard product or a  
4106 specific product has been converted into a standard product. The specific product attribute will  
4107 be used when the bid refers to a specific product, when the bid has been converted into a  
4108 standard product or when the bid originates from an integrated scheduling process. The  
4109 specific product attribute shall be used when the bid refers to a local product<sup>31</sup>.

<sup>31</sup> Applicable only during the transition period until standard and specific products have been defined as foreseen by EB GL articles 25 and 26



4110  
4111  
4112



For some scheduling areas and reserve types, the offer price is not available. Hence, the central transparency platform shall deem it as an optional attribute.

## 10.10.2 PRE-CONFIGURATION

- For each applicable scheduling area: The applicable reserve types
- For each applicable scheduling area and reserve type: The allowed data providers<sup>32</sup>

## 10.10.3 VALIDATION

- The scheduling area and data provider shall be recognised by the platform

<sup>32</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

4121 - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4122 configured reference data

4123 - The data provider shall be consistent with the identified scheduling area and reserve type

4124 - Only standard product bids may be declared unavailable

4125 - Activation purpose may optionally be declared for unavailable bids. If declared, the purpose  
4126 shall be validated.

4127 Reason for unavailability is mandatory for RR standard product bids

#### 4128 10.10.4 MONITORING

4129 Gate closure times vary significantly among scheduling areas and reserve types. Further, bids  
4130 are not guaranteed to be submitted, hence monitoring will not be performed on this data item.

#### 4131 10.10.5 PROCESSING

4132 No processing is performed on this data item.

#### 4133 10.10.6 PUBLICATION

##### 4134 10.10.6.1 FILTERING AND SORTING CRITERIA

4135 Data shall be visually accessed by selecting the following:

4136 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4137 those that partially or completely cover the country)

4138 - scheduling area (selection is mandatory)

4139 - reserve type (selection is mandatory)

4140 - date, to be matched against the bids' delivery periods

##### 4141 10.10.6.2 DISPLAY

4142 This data shall be displayed in the following section:

4143 - **Balancing / Energy / Bids**

4144 The following attributes of data shall be displayed:

4145 - scheduling area

4146 - reserve type

- 4147 - selected date
- 4148 - unit of measurement
- 4149 - For bids with delivery time interval that fall within the selected date, the following data is
- 4150 displayed:
- 4151 - validity period
- 4152 - delivery period
- 4153 - direction
- 4154 - offered volumes and prices per MTU period during the delivery period
- 4155 - standard and/or specific type of product, as applicable
- 4156 - if applicable, complexity indicator
- 4157 - Indicator whether the bid is available or unavailable
- 4158 - Reason for unavailability (when applicable)
- 4159 - Cross-reference to published detailed reason for changes to bid availability
- 4160 - Activation purpose (when applicable and available)
- 4161 - Free text comment (when applicable and available)
- 4162
- 4163

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## 4164 10.11 INFORMATION ON CONVERSION INTO STANDARD 4165 PRODUCTS [GL EB 12.3.D]

### 4166 10.11.1 DATA DESCRIPTION

4167 This data item consists of a PDF file per Scheduling Area or Control Area, providing a  
4168 description of how specific products or bids from an integrated scheduling process are  
4169 converted into standard products. This information complements the data published under GL  
4170 EB articles 12.3.b&c. No monitoring will be performed.

### 4171 10.11.2 PRE-CONFIGURATION

4172 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4173 allowed Data Provider per Area for this data item.

### 4174 10.11.3 INTEGRATION

4175 Data Provider shall on the platform's web site, on the same page where these reports are  
4176 published, be able to select an Area, upload a PDF file and indicate the date as of which the  
4177 uploaded document entries into force.

4178 Platform shall validate combination of Area and Data Provider.

### 4179 10.11.4 PUBLICATION

#### 4180 10.11.4.1 PUBLICATION BEHAVIOUR

4181 Documents are published immediately after upload.

4182 All versions shall be published.

#### 4183 10.11.4.2 FILTERING AND SORTING CRITERIA

4184 End user shall be able to select data for display by specifying:

4185 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
4186 partially or completely cover the Country)

4187 - Area (mandatory)

#### 4188 10.11.4.3 DISPLAY

4189 This data shall be displayed in the following section:

4190 **Balancing / Rules and Reports / Information on conversion into standard products**

4191 The following attributes of data shall be displayed:

4192 - Area name

4193 - A link to download each uploaded PDF document

4194 - For each document, the effective date

4195



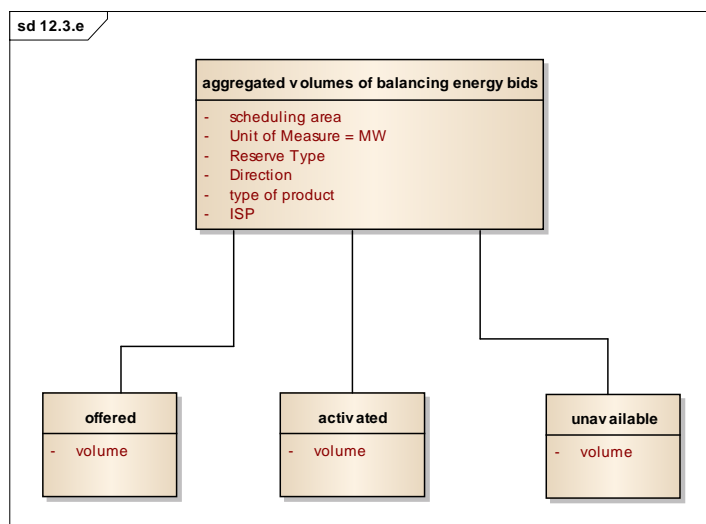
## 10.12 AGGREGATED BALANCING ENERGY BIDS [GL EB 12.3.E]

### 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.

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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.

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.

### 10.12.2 PRE-CONFIGURATION

- For each applicable scheduling area: The applicable reserve types

4214 - For each applicable scheduling area and reserve type: The allowed data providers<sup>33</sup>

4215 - The submission deadline: 30 minutes after every ISP

### 4216 10.12.3 VALIDATION

4217 - The scheduling area and data provider shall be recognised by the platform

4218 - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4219 configured reference data

4220 - The data provider shall be consistent with the identified scheduling area

### 4221 10.12.4 MONITORING

4222 For every applicable combination of scheduling area, reserve type and type of product, the  
4223 designated data provider shall submit a document for every ISP.

### 4224 10.12.5 PROCESSING

4225 Platform shall for every scheduling area, direction and ISP aggregate totals separately for  
4226 standard and specific products by summing up the values for all reserve types taken together.

4227 Platform shall for every scheduling area, reserve type, direction and ISP aggregate totals for  
4228 offered and activated volumes, by summing up the values provided per type of product.

4229 Platform shall aggregate the grand totals for all reserve types taken together, summing up for  
4230 every scheduling area, direction and ISP the offered, activated and unavailable volumes.

### 4231 10.12.6 PUBLICATION

#### 4232 10.12.6.1 FILTERING AND SORTING CRITERIA

4233 Data shall be visually accessed by selecting the following:

4234 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4235 those that partially or completely cover the country)

4236 - scheduling area (selection is mandatory)

4237 - date (selection is mandatory)

4238 - reserve type (selection is optional)

---

<sup>33</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

4239 - direction (selection is optional)

## 4240 10.12.6.2 DISPLAY

4241 This data shall be displayed in the following section:

4242 - **Balancing / Energy / Aggregated bids**

4243 The following attributes of data shall be displayed:

4244 -- scheduling area

4245 - selected date

4246 - unit of measurement (MW)

4247 - For all ISP during the selected day, the following data is displayed:

4248 - offered, activated and unavailable volumes per direction

4249 - offered and activated volumes for standard ~~and~~ specific and local products per direction,  
4250 respectively

4251 - offered, activated and unavailable volumes per reserve type and direction

4252 - offered and activated volumes for standard and specific products per direction and reserve  
4253 type, respectively

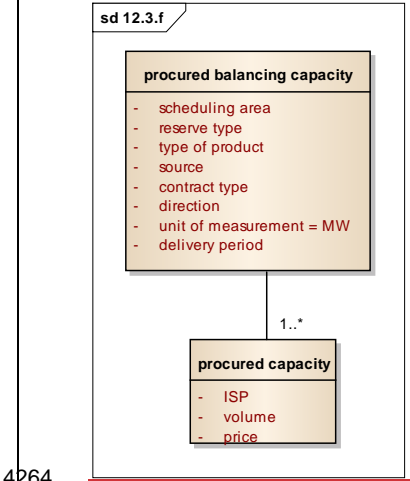
4254

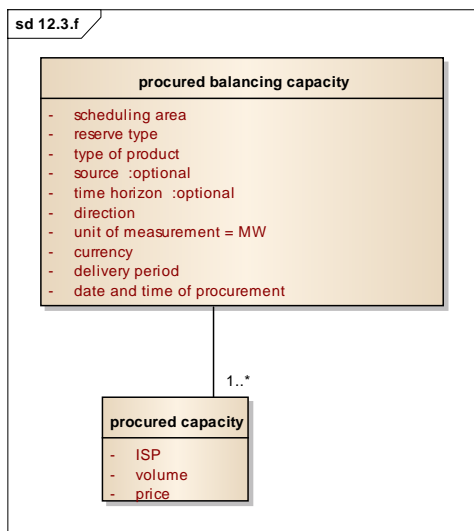
4255

4256        10.13    PROCURED BALANCING CAPACITY [GL EB 12.3.F]

4257    10.13.1    DATA DESCRIPTION

4258    This data item contains the procured balancing capacity per scheduling area. For every  
4259    accepted bid, data provider shall submit to the central transparency platform the reserve  
4260    type, type of product, ~~contract type~~ delivery period and direction. Source may optionally be  
4261    included as well. When applicable, time horizon may be specified. Date and time of  
4262    procurement shall be specified. Offered volume and price are provided for every ISP of the  
4263    delivery period.





Type of Product shall at least distinguish between standard ~~and~~ specific and local products.

Assumptions:

- Data ~~is submitted per~~ describes individual, accepted ~~bid/offer~~ bids/offers. Data provider does not perform any aggregation.

## 10.13.2 PRE-CONFIGURATION

- For each applicable scheduling area: The applicable reserve types
- For each applicable scheduling area and reserve type: The single allowed data provider

## 10.13.3 VALIDATION

- The scheduling area and data provider shall be recognised by the platform
- The provided scheduling area and reserve type shall be consistent with the platform's pre-configured reference data
- The data provider shall be consistent with the identified scheduling area

#### 4279 10.13.4 MONITORING

4280 Dates and times for procurement processes vary significantly among scheduling areas and  
4281 there is no guarantee that bids will be accepted, hence monitoring will not be performed on  
4282 this data item.

#### 4283 10.13.5 PROCESSING

4284 Not applicable.

#### 4285 10.13.6 PUBLICATION

##### 4286 10.13.6.1 FILTERING AND SORTING CRITERIA

4287 Data shall be visually accessed by selecting the following:

4288 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4289 those that partially or completely cover the country)

4290 - scheduling area (selection is mandatory)

4291 - date or date range (selection is mandatory)

4292 - reserve type (selection is ~~mandatory~~ optional)

4293 - type of product (~~standard or specific~~, selection is optional)

4294 - source (selection is optional)

4295 - ~~contract type~~ time horizon (selection is optional)

4296 - direction (selection is optional)

##### 4297 10.13.6.2 DISPLAY

4298 This data shall be displayed in the following section:

4299 - **Balancing / Capacity / Procured bids**

4300 The following attributes of data shall be displayed:

4301 - scheduling area

4302 - reserve type

4303 - unit of measurement (MW) for capacity

4304 - unit of measurement (currency/MW/ISP) for prices

- 4305 - For all procured ~~capacities~~ capacity offers whose delivery periods partially or completely fall  
4306 within the select date or date range, the following data is displayed:
- 4307 - type of product
- 4308 - source (if available)
- 4309 - direction
- 4310 ~~- contract type~~
- 4311 - time horizon (if available)
- 4312 - date and time of procurement
- 4313 - delivery period
- 4314 - offered capacity and price per ISP

## 4315 10.14 TERMS AND CONDITIONS [GL EB 12.3.G]

### 4316 10.14.1 DATA DESCRIPTION

4317 This data item consists of a PDF file per Control Area or load frequency control area (consisting  
4318 of two or more control areas). No monitoring will be performed.

4319 Note: Published document also covers the requirements of TR article 17.1.a.

### 4320 10.14.2 PRE-CONFIGURATION

4321 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4322 allowed Data Provider per Area for this data item.

### 4323 10.14.3 INTEGRATION

4324 Data Provider shall on the platform's web site, on the same page where these reports are  
4325 published, be able to select a Area, upload a PDF file and indicate the date as of which the  
4326 uploaded document entries into force.

4327 Platform shall validate combination of Area and Data Provider.

### 4328 10.14.4 PUBLICATION

#### 4329 10.14.4.1 PUBLICATION BEHAVIOUR

4330 Documents are published immediately after upload.

4331 All versions shall be published.

#### 4332 10.14.4.2 FILTERING AND SORTING CRITERIA

4333 End user shall be able to select data for display by specifying:

4334 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
4335 partially or completely cover the Country)

4336 - Area (mandatory)

#### 4337 10.14.4.3 DISPLAY

4338 This data shall be displayed in the following section:

4339 **Balancing / Rules and reports / Terms and conditions**

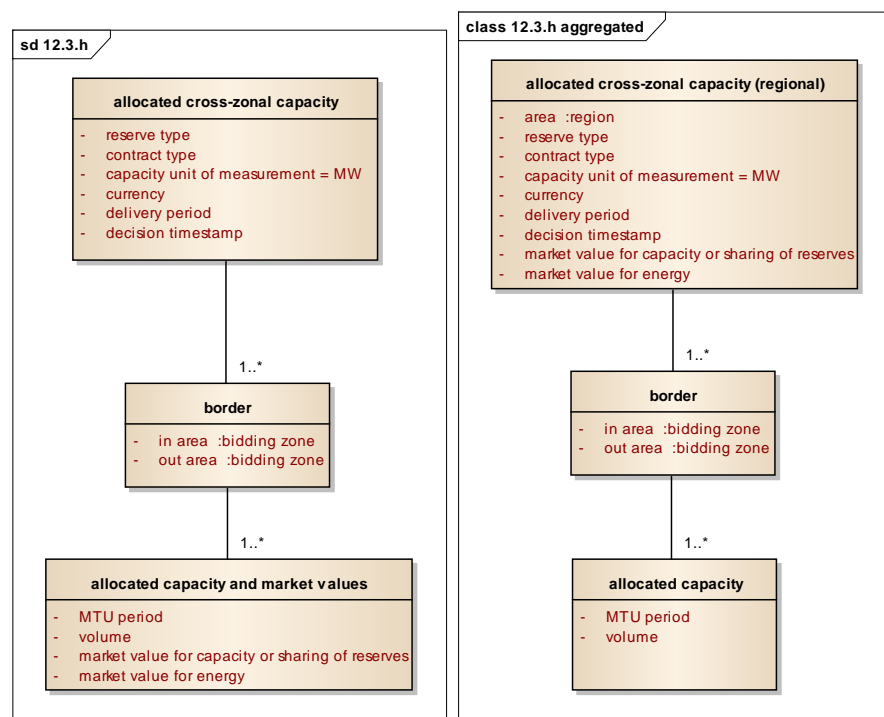


- 4340 The following attributes of data shall be displayed:
- 4341 - Area name
- 4342 - A link to download each uploaded PDF document
- 4343 - For each document, the date of entry into force
- 4344

## 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.

4359 As a transitory measure, until the prescribed methodologies have been fully implemented, a  
4360 single market value per MTU period may be submitted and published. Refer to  
4361 implementation guide [13] for details.

4362 Note: The allocations described in this data item are the same as the ones covered by GL  
4363 EB article 12.3.i.

#### 4364 10.15.2 PRE-CONFIGURATION

4365 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

#### 4366 10.15.3 VALIDATION

4367 - The In and Out bidding zones and data provider shall be recognised by the platform

4368 - The In and Out bidding zones, reserve type and data provider shall be consistent with the  
4369 platform's pre-configured reference data

4370 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured  
4371 reference data

#### 4372 10.15.4 MONITORING

4373 Timelines of allocation processes may vary significantly depending on border and contract  
4374 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will  
4375 be performed.

#### 4376 10.15.5 PROCESSING

4377 No aggregation or other processing is performed on the central transparency platform.

#### 4378 10.15.6 PUBLICATION

##### 4379 10.15.6.1 FILTERING AND SORTING CRITERIA

4380 Data shall be visually accessed by selecting the following:

4381 - Country (selection is optional: If selected, bidding zones or region will be filtered to include  
4382 only those that partially or completely cover the country)

4383 - In and Out bidding zones (selection is mandatory)

4384 - Reserve type (selection is mandatory)

4385 - Date or date range (selection is mandatory)

4386 - Contract type (selection is mandatory)

#### 4387 10.15.6.2 DISPLAY

4388 This data shall be displayed in the following section:

4389 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL  
4390 EB article 12.1.i)

4391 The following attributes of data shall be displayed:

4392 - In and Out bidding zones

4393 - Region, if applicable

4394 - Reserve type

4395 - unit of measurements: MW and currency

4396 - contract type

4397 - For all allocations whose delivery periods fall, entirely or partially, within the selected date or  
4398 date range, the following data is displayed:

4399 - delivery period

4400 - date and time of allocation decision

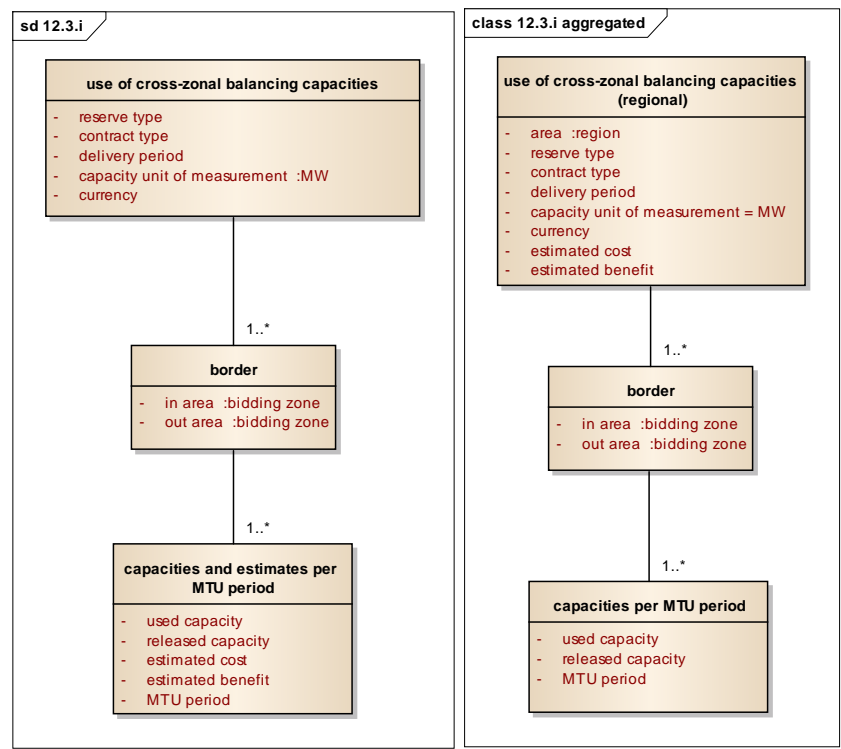
4401 - allocated capacity volume per MTU period

4402 - market values per MTU period and direction across borders or as single values for the  
4403 entire region and delivery period

4404 10.16 USE OF ALLOCATED CROSS-ZONAL BALANCING  
4405 CAPACITY [GL EB 12.3.I]

4406 10.16.1 DATA DESCRIPTION

4407 This data item describes the use of cross-zonal balancing capacity per border. The data  
4408 submissions to the central transparency platform shall indicate the In and Out bidding zones  
4409 (or technical profile), reserve type, contract type and delivery period of the allocation process.



4410

4411 Contract type may be long-term, week-ahead or day-ahead.

4412 Volumes of used and released capacities are provided with MTU resolution for the whole

4413 delivery period.

4414 Depending on the applicable allocation mechanism, the estimated costs and benefits may  
4415 either be provided as a time series per direction across a border or as single values for the  
4416 entire region and delivery period.

4417 Note: The allocations described in this data item are the same as the ones covered by GL EB  
4418 article 12.3.h. Data required under this GL EB article 12.3.i shall be submitted as an update to  
4419 the document containing the allocated capacity, previously submitted under GL EB article  
4420 12.3.h.

#### 4421 10.16.2 PRE-CONFIGURATION

4422 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

#### 4423 10.16.3 VALIDATION

4424 - The In and Out bidding zones and data provider shall be recognised by the platform

4425 - The bidding zone couple, reserve type and data provider shall be consistent with the  
4426 platform's pre-configured reference data

4427 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured  
4428 reference data

#### 4429 10.16.4 MONITORING

4430 Timelines of allocation processes may vary significantly depending on border and contract  
4431 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will  
4432 be performed.

#### 4433 10.16.5 PROCESSING

4434 No aggregation or other processing is performed on the central transparency platform.

#### 4435 10.16.6 PUBLICATION

##### 4436 10.16.6.1 FILTERING AND SORTING CRITERIA

4437 Data shall be visually accessed by selecting the following:

4438 - Country (selection is optional: If selected, region or bidding zones will be filtered to include  
4439 only those that partially or completely cover the country)

4440 - In and Out bidding zones (selection is mandatory)

4441 - reserve type (selection is mandatory)

4442 - date or date range (selection is mandatory)

4443 - contract type (selection is mandatory)

#### 4444 10.16.6.2 DISPLAY

4445 This data shall be displayed in the following section:

4446 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL  
4447 EB article 12.~~43~~.h)

4448 The following attributes of data shall be displayed:

4449 - In and Out bidding zones

4450 - Region, if applicable

4451 - reserve type

4452 - unit of measurements: MW and currency

4453 - contract type

4454 - For all allocations whose delivery period fall, entirely or partially, within the selected date or  
4455 date range, the following data is displayed:

4456 - contract type

4457 - delivery period

4458 - volumes of used and released capacity per MTU period during the delivery period

4459 - estimated realised costs and benefits per MTU period and direction across borders or  
4460 as single values for the entire region and delivery period

4461

## 4462 10.17 APPROVED METHODOLOGIES [GL EB 12.3.J]

### 4463 10.17.1 DATA DESCRIPTION

4464 This data item consists of a PDF file per Region. No monitoring will be performed.

### 4465 10.17.2 PRE-CONFIGURATION

4466 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4467 allowed Data Provider per Region for this data item.

### 4468 10.17.3 INTEGRATION

4469 Data Provider shall on the platform's web site, on the same page where these reports are  
4470 published, be able to select a Region, upload a PDF file and indicate the date as of which the  
4471 uploaded document entries into force.

4472 Platform shall validate combination of Region and Data Provider.

### 4473 10.17.4 PUBLICATION

#### 4474 10.17.4.1 PUBLICATION BEHAVIOUR

4475 Documents are published immediately after upload.

4476 All versions shall be published.

#### 4477 10.17.4.2 FILTERING AND SORTING CRITERIA

4478 End user shall be able to select data for display by specifying:

4479 - Country (selection is optional: If selected, Regions will be filtered to include only those that  
4480 partially or completely cover the Country)

4481 - Region (mandatory)

#### 4482 10.17.4.3 DISPLAY

4483 This data shall be displayed in the following section:

4484 **Balancing / Rules and Reports / Approved methodologies**

4485 The following attributes of data shall be displayed:

4486 - Region name



- 4487 - A link to download each uploaded PDF document
- 4488 - For each document, the date of entry into force
- 4489

## 4490 10.18 ALGORITHM [GL EB 12.3.K]

### 4491 10.18.1 DATA DESCRIPTION

4492 This data item consists of a PDF file per ~~reserve-type-process~~ (RR, mFRR, aFRR, IN). No  
4493 monitoring will be performed.

### 4494 10.18.2 PRE-CONFIGURATION

4495 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4496 allowed Data Provider per reserve type for this data item.

### 4497 10.18.3 INTEGRATION

4498 Data Provider shall on the platform's web site, on the same page where these reports are  
4499 published, be able to select a reserve type, upload a PDF file and indicate the date as of  
4500 which the uploaded document entries into force.

4501 Platform shall validate combination of reserve type and Data Provider.

### 4502 10.18.4 PUBLICATION

#### 4503 10.18.4.1 PUBLICATION BEHAVIOUR

4504 Documents are published immediately after upload.

4505 All versions shall be published.

#### 4506 10.18.4.2 FILTERING AND SORTING CRITERIA

4507 End user shall be able to select data for display by specifying:

4508 - ~~ReserveProcess~~ type (mandatory)

4509

#### 4510 10.18.4.3 DISPLAY

4511 This data shall be displayed in the following section:

4512 **Balancing / Rules and reports / Algorithm**

4513 The following attributes of data shall be displayed:

4514 - ~~reserveProcess~~ type

- 4515 - A link to download each uploaded PDF document
- 4516 - For each document, the date of entry into force
- 4517

## 4518 10.19 COMMON ANNUAL REPORT [GL EB 12.3.L]

### 4519 10.19.1 DATA DESCRIPTION

4520 This data item consists of a PDF file per year. No monitoring will be performed.

### 4521 10.19.2 PRE-CONFIGURATION

4522 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4523 allowed Data Provider: ENTSO-E.

### 4524 10.19.3 INTEGRATION

4525 Data Provider shall on the platform's web site, on the same page where these reports are  
4526 published, be able to upload a PDF file and indicate the year that the uploaded document  
4527 refers to.

### 4528 10.19.4 PUBLICATION

#### 4529 10.19.4.1 PUBLICATION BEHAVIOUR

4530 Documents are published immediately after upload.

4531 All versions shall be published.

#### 4532 10.19.4.2 FILTERING AND SORTING CRITERIA

4533 End user shall be able to select data for display by specifying:

4534 - Year (optional)

#### 4535 10.19.4.3 DISPLAY

4536 This data shall be displayed in the following section:

4537 **Balancing / Rules and reports / Common annual report**

4538 The following attributes of data shall be displayed:

4539 - A link to download each uploaded PDF document

4540 - For each document, the year it refers to

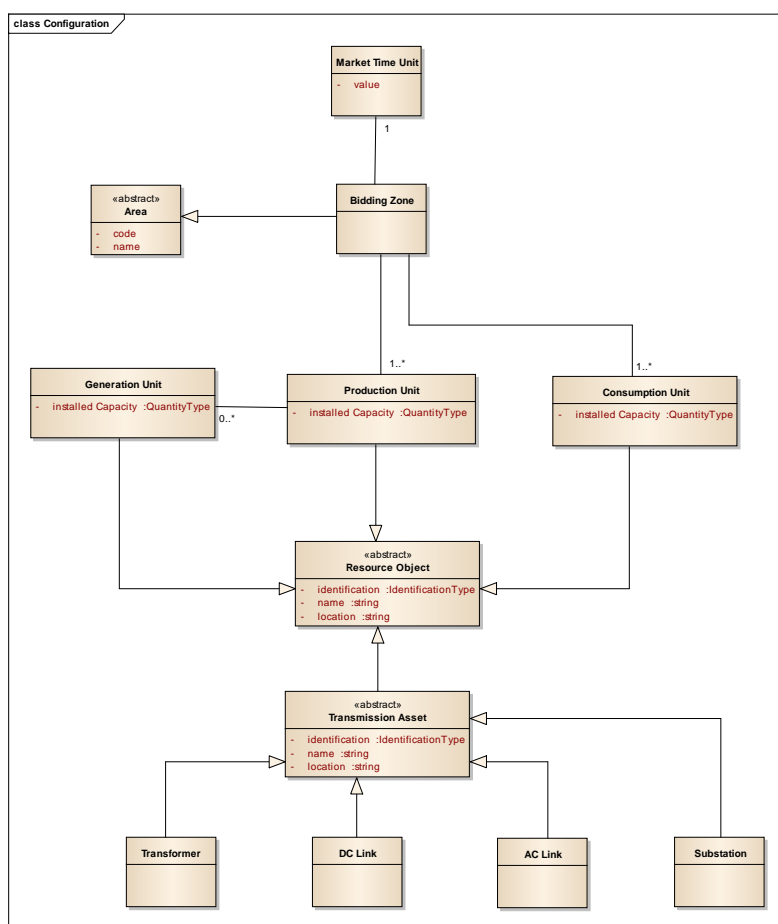
4541

## 11 OUTAGES

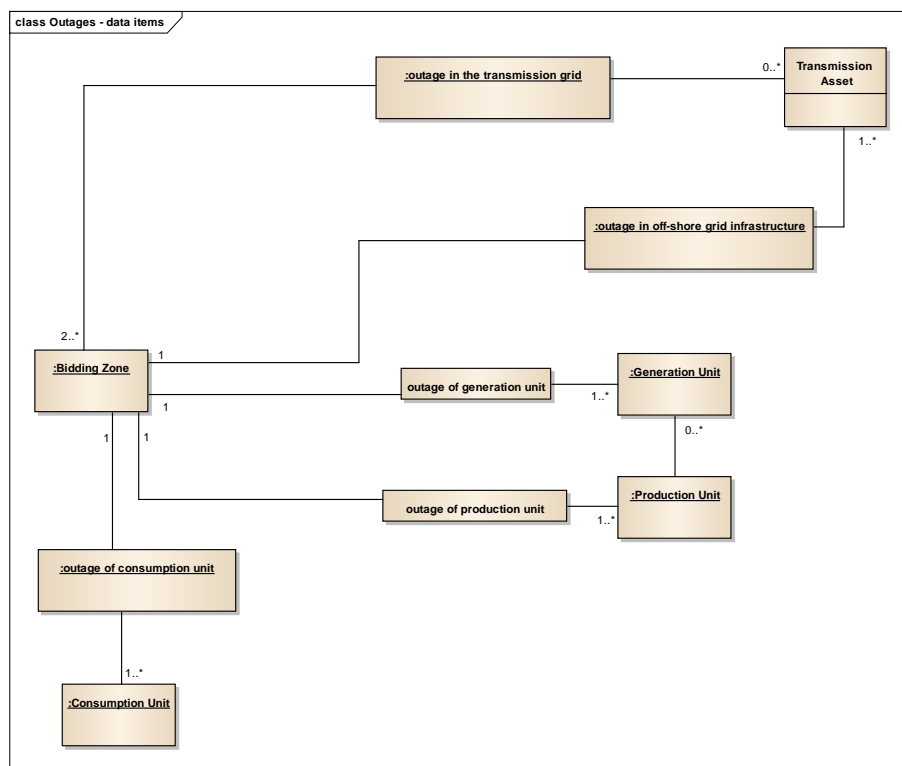
### 11.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 11.1.1 FUNDAMENTAL ENTITIES

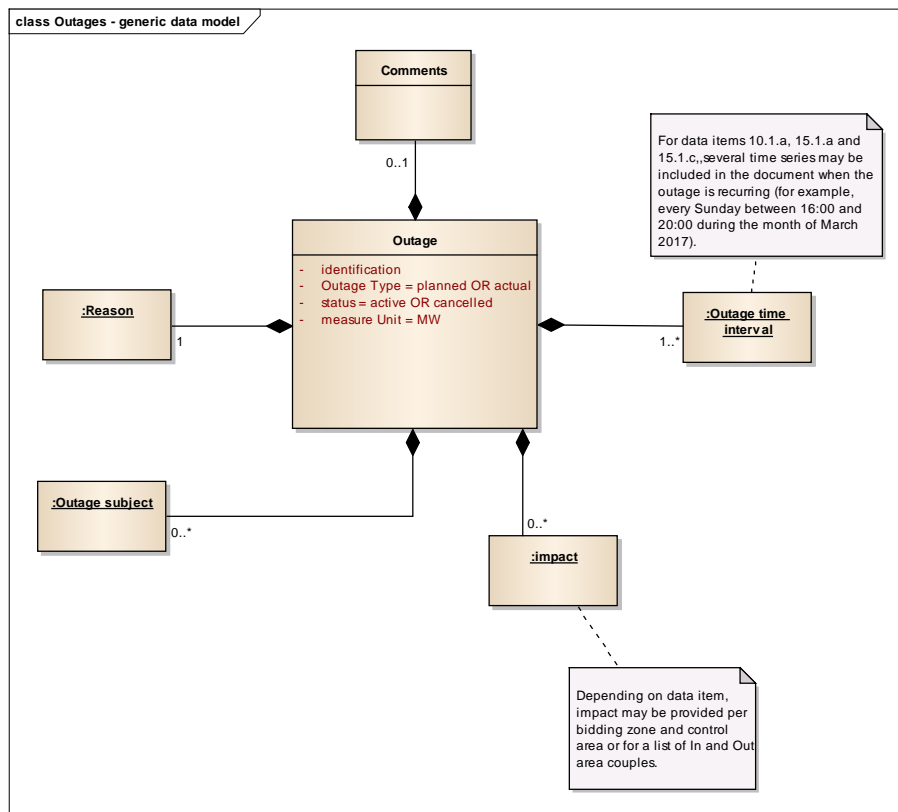
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 4548 • For a given Bidding Zone, there is a Market Time Unit
- 4549 • There are four types of assets subject to outages: Transmission Assets, Generation Units,
- 4550 Production Units and Consumption Units. They are special types of Resource Objects
- 4551 • All assets have an identification a name and a location
- 4552 • A Transmission Asset can be a Transformer, a Substation, a DC Link or an AC Link
- 4553 • A Generation or Production Unit has a Production Type and an Installed Capacity and sits
- 4554 in a given Bidding Zone. Generation and Production Units are described in chapter 9.9
- 4555 • A Consumption Unit sits in a given Bidding Zone



- 4556
- 4557 The submitted document shall contain one Outage only, which may be recurring. The following
- 4558 generic data model is suggested:



4559

## 4560 11.1.2 PRE-CONFIGURATION

4561 The ENTSO-E platform administrator shall pre-configure the following data, before collecting  
4562 information, for the purpose of validation:

4563 - [C-OTG-1] a list of Areas. Areas may be Bidding Zones and Bidding Zone Aggregations.  
4564 The list of Bidding Zones is the same as for Generation, Load and Transmission domains.  
4565 The Bidding Zone Aggregations are the same as for Transmission domain.

4566 - [C-OTG-8] for each Bidding Zone and Control Area, the allowed Data Provider, identified by  
4567 a unique code. If need be, additionally the granularity of data item could be applied. This  
4568 reference data is used also for the data items in the Load and Generation domains.

4569 - [C-OTG-2] values of Market Time Unit for a given Bidding Zone. This reference data is the  
4570 same as for Generation, Load and Transmission domains.

- 4571 - [C-OTG-6] a list of In and Out Area couples. The In and Out Area couples are also used in  
4572 the Transmission domain<sup>34</sup>.
- 4573 - [C-OTG-7] for each In and Out Area couples, the allowed Data Providers, identified by  
4574 unique codes.
- 4575 - [C-OTG-9] a list of countries and for each country, the corresponding Control Area(s). This  
4576 is the same reference data as in Generation and Load domains. It will be used to facilitate  
4577 search and filtering of published data by country and to aggregate capacity values for  
4578 Outages of Consumption Units.
- 4579 - [C-OTG-10] for each Bidding Zone the country or countries that it covers. This is the same  
4580 reference data as in Load domain. It will be used to facilitate search and filtering of published  
4581 data by country.
- 4582 Data Providers shall record the following pre-configuration on the platform for the purpose of  
4583 validation of submitted information:
- 4584 - [C-OTG-3] a list of Generation and Production Units in a given Bidding Zone, with their  
4585 characteristics, refer to chapter 9.9 for details. This is the same reference data as for the  
4586 Generation domain.
- 4587 - [C-OTG-4] a list of Consumption Units in a given Bidding Zone, with their characteristics.  
4588 Refer to chapter 11.12 for further details.
- 4589 - [C-OTG-5] a list of Transmission Assets (Transformer, Substation, DC Link or AC Link) with  
4590 their characteristics. Refer to chapter 11.11 for further details. This is the same reference  
4591 data as for the Transmission domain.
- 4592 - [C-OTG-11] a list of Reasons for Outages: Maintenance, Failure, Shutdown and Other.

### 4593 11.1.3 ASSUMPTIONS

- 4594 Data can be submitted for correction or update at any time, even after the end of the  
4595 outage/unavailability.
- 4596 Planned unavailability can be cancelled at any time.
- 4597 The frequency of submission is not fixed.
- 4598 No monitoring is performed. For this data domain, submission deadlines are irrelevant to the  
4599 platform.

---

<sup>34</sup> Technical Profiles (where one of the Areas is a Bidding Zone Aggregation) constitute a subset of this list.



#### 4600 11.1.4 INTEGRATION

4601 A change in actual availability cannot be transformed into a planned unavailability, and vice  
4602 versa. A change in actual availability remains until the affected asset becomes  
4603 available/operational.

4604 Planned unavailability may be cancelled, which is reflected as a status update. This is not  
4605 permitted for changes in actual unavailability though. If a document has been submitted by  
4606 mistake it may be withdrawn/revoked as outlined in chapter 5.1.2.

4607 Reason "Failure" is permitted for changes in actual availability only. Reason "Shutdown" is  
4608 permitted for planned unavailability and changes in actual availability of Consumption,  
4609 Production and Generation Units.

4610 ENTSO-E administrator may suppress all warnings triggered during validation by changing  
4611 configuration.

4612

#### 4613 11.1.5 PUBLICATION RULES

4614 Data items are displayed in table format only.

4615 Latest version of outage will be displayed. Previous versions will be available online, for  
4616 example by expanding the view. If there is more than one version of the document, i.e. an  
4617 update has been submitted, all versions shall be available with clear indication of version  
4618 number.

4619 Submission date and time of each version will be available online, for example by expanding  
4620 the view.

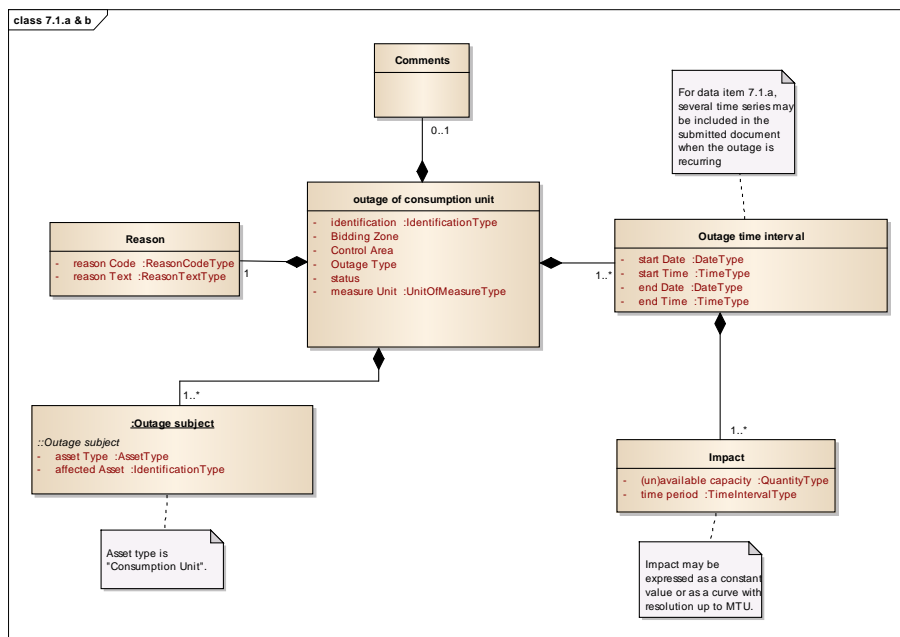
#### 4621 11.1.6 DATA CONTAINER STATUS / DATA STATUS

4622 All data follows the "none / ready for publication" scheme.

4623

## 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)

4637 - Type of outage is “planned”

#### 4638 11.2.2 PRE-CONFIGURATION

4639 For each data provider, an indicator whether available or unavailable capacity is being  
4640 submitted.

#### 4641 11.2.3 ASSUMPTIONS

4642 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4643 For a given unavailability, there will be only one Data Provider.

4644 Platform shall calculate unavailable capacity in bidding zone per market time unit, based on  
4645 the submitted available or unavailable capacity values.

4646 Available or unavailable consumption capacity may vary during the outage time interval.

#### 4647 11.2.4 INTEGRATION

4648 - The outage subject (asset) described in the document shall be recognised by the platform

4649 - Data Provider shall be consistent with the identified outage subject.

4650 - The Bidding Zone and Control Area described in the document shall be recognised by the  
4651 platform

4652 - Data Provider shall be consistent with the identified Bidding Zone and Control Area

4653 - For a given consumption unit there may not be more than one active planned unavailability  
4654 at any point in time

#### 4655 11.2.5 PROCESSING

4656 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4657 Platform establishes unavailable consumption capacity per MTU period based on the  
4658 submitted available or unavailable capacity during the outage time interval and the installed  
4659 capacity of the Consumption Unit (as recorded per chapter 11.12). In case MTU period only  
4660 partially coincides with outage start or end time, the submitted available or unavailable  
4661 consumption capacity will apply also for those MTU periods.

4662 The platform aggregates the unavailable consumption capacity in each Bidding Zone and  
4663 Country by Market Time Unit period. A single value per Country, Bidding Zone and MTU period  
4664 shall be calculated, taking all planned unavailability into account.

4665 Likewise, a single value shall be established per Country, Bidding Zone and MTU period taking  
4666 all changes in actual availability into account (refer to chapter 11.3 regarding changes in actual  
4667 availability of consumption units).

4668 Finally, a grand total per Country, Bidding Zone and MTU period shall be calculated, taking  
4669 both planned unavailability and changes in actual availability into account.

4670 The unavailability marked for cancellation is marked as such in the platform database and not  
4671 taken into account in the aggregation calculation.

4672 Pre-configuration [C-OTG-9] will be used to aggregate values per Country.

## 4673 11.2.6 PUBLICATION

### 4674 11.2.6.1 PUBLICATION BEHAVIOUR

4675 Aggregated values only shall be published, not individual unavailabilities.

### 4676 11.2.6.2 FILTERING AND SORTING CRITERIA

4677 Data shall be visually accessed by selecting the following:

4678 For all options:

4679 - Date or date range (selection is mandatory)

4680 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4681 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4682 accordingly)

4683 - Type of unavailability: planned, actual or both, selection is optional

4684 Unavailability for which time interval is either completely or partially on the selected date (or  
4685 possibly date range) will be displayed.

### 4686 11.2.6.3 DISPLAY

4687 This data shall be displayed in the following section:

#### 4688 - Load / Unavailability

4689 The following attributes of data shall be displayed:

4690 - Title

4691 - Measure Unit

4692 - MTU

- 4693 The following details are displayed for the selected date range:
- 4694 - Country or Bidding Zone
- 4695 - Start date and time
- 4696 - End date and time
- 4697 - The aggregated unavailable consumption capacity per MTU period, by country or Bidding
- 4698 Zone: Separate values for planned unavailability, changes in actual availability and a grand
- 4699 total
- 4700
- 4701

## 4702 11.3 CHANGES IN ACTUAL AVAILABILITY OF 4703 CONSUMPTION UNITS [7.1.B]

### 4704 11.3.1 DATA DESCRIPTION

4705 Data description is almost identical to data item "Planned unavailability of consumption units  
4706 [7.1.a]", refer to chapter 11.2. The differences are:

- 4707 - outage type is "actual"
- 4708 - status is always "active"
- 4709 - not more than one outage subject is permitted
- 4710 - only one time interval is permitted

### 4711 11.3.2 PRE-CONFIGURATION

4712 Same pre-configuration as for planned unavailability of consumption units [7.1.a] applies to  
4713 this data item, refer to chapter 11.2.2.

### 4714 11.3.3 ASSUMPTIONS

- 4715 Unavailability of consumption units is submitted per Bidding Zone and Control Area.
- 4716 For a given unavailability, there will be only one Data Provider.

### 4717 11.3.4 INTEGRATION

- 4718 - The document date and time of the submitted document should be posterior to the start date  
4719 and time of the unavailability. This will trigger a warning only.
- 4720 - For a given consumption unit there may not be more than one active change in actual  
4721 availability at any point in time.
- 4722 All other validations are the same as for planned outages of consumption units, refer to chapter  
4723 11.2.4.

### 4724 11.3.5 PROCESSING

4725 Same processing as for planned outages of consumption units, refer to chapter 11.2.5.

4726 11.3.6 PUBLICATION

4727 11.3.6.1 PUBLICATION BEHAVIOUR

4728 Same processing as for planned outages of consumption units, refer to chapter 11.2.6.

4729 11.3.6.2 FILTERING AND SORTING CRITERIA

4730 Data shall be displayed together with planned unavailability on the same page. Filter and  
4731 sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4732 unavailability (planned or actual) as a criterion. Refer to section 11.2.6.2.

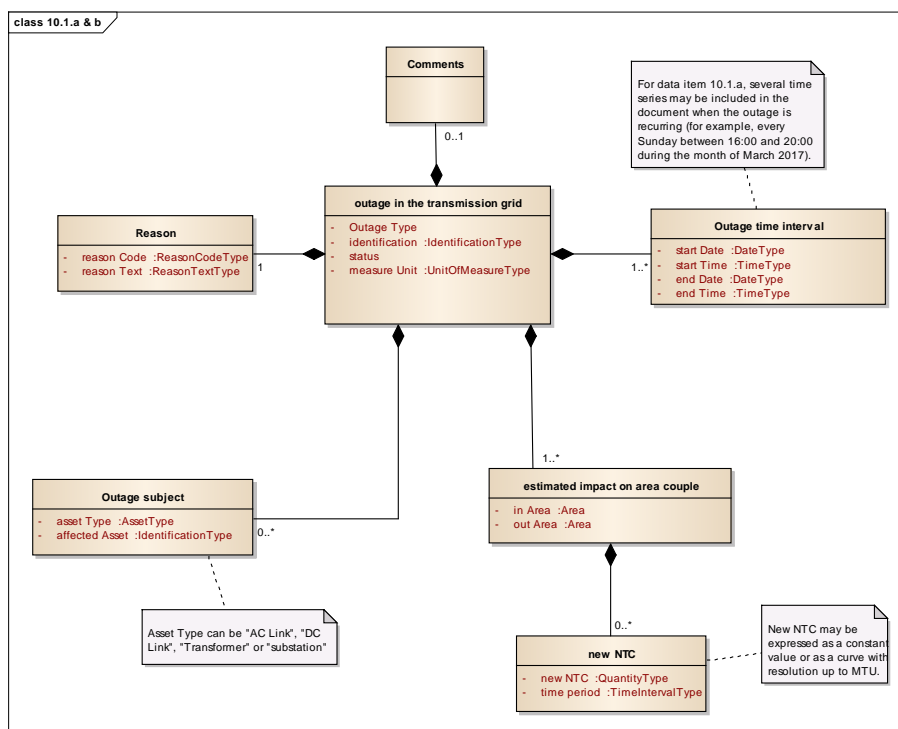
4733 11.3.6.3 DISPLAY

4734 Data shall be displayed together with planned unavailability on the same page. The type of  
4735 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



4747 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every  
4748 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series  
4749 may be included in the document.

4750 - One or several In and Out Area couples that are impacted, along with the new NTC, given in  
4751 Measure Unit, for each couple. New NTC may be expressed as a constant value or as a curve  
4752 with resolution up to MTU. If the outage occurs in a region where flow-based allocations occur,  
4753 inclusion of new NTC is optional.

4754 - Measure Unit is fixed to megawatt (MW)

4755 - For this data item, outage type is "planned".

4756 - The reason for the planned outage

4757 - Optionally, a free-text comment may be included<sup>35</sup>

#### 4758 11.4.2 PRE-CONFIGURATION

4759 For this data item, there is no additional pre-configuration.

#### 4760 11.4.3 ASSUMPTIONS

4761 For outages on interconnectors, there is a memorandum of understanding between Data  
4762 Providers that governs who submits data to central platform, to avoid a situation with more  
4763 than one data provider submitting data referring to the same outage.

#### 4764 11.4.4 INTEGRATION

4765 - If included in the document, the list of outage subjects (assets) shall be recognised by the  
4766 platform.

4767 - The list of In and Out Area couples described in the document shall be recognised by the  
4768 platform, as per pre-configuration [C-OTG-6]

4769 - Data Provider shall be consistent with the In and Out Area couples, as per pre-configuration  
4770 [C-OTG-7]

4771 - Data Provider shall be consistent with the outage subject(s).

4772 - The outage time intervals may not overlap

4773 - The time interval describing a new NTC must fall within an outage time interval

---

<sup>35</sup> This includes the explanation of the case when two parallel AC Links are given in the list of affected assets

4774 - For a transmission asset, there may not be more than one active planned unavailability at  
4775 any point in time for a specific direction on a specific border.

#### 4776 11.4.5 PROCESSING

4777 Outages marked for cancellation shall be marked as cancelled in the platform database.

#### 4778 11.4.6 PUBLICATION

##### 4779 11.4.6.1 PUBLICATION BEHAVIOUR

4780 [PR-91a-4] An outage marked for cancellation at submission shall be accessible on the  
4781 platform but marked explicitly as cancelled

##### 4782 11.4.6.2 FILTERING AND SORTING CRITERIA

4783 Data shall be visually accessed by selecting the following:

4784 - Date or date range (selection is mandatory)

4785 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the  
4786 Country will be used as filtering criteria)

4787 - In Area (selection is optional)

4788 - Out Area (selection is optional)

4789 - Type of Asset (selection is optional)

4790 - Type of outage: planned or actual, selection is optional

4791 Outages for which outage time interval falls either completely or partially on the selected date  
4792 (or possibly date range) will be displayed.

##### 4793 11.4.6.3 DISPLAY

4794 This data shall be displayed in the following section:

#### 4795 - **Transmission Grid / Unavailability**

4796 The following attributes of data shall be displayed:

4797 - Title

4798 For each outage that falls within the selected date or date range, the following details are  
4799 displayed:

4800 - Measure Unit

- 4801 - Status (active or cancelled)
- 4802 - Type of outage (planned or actual)
- 4803 - If provided, the outage subjects with links to pages on central platform that provide full details;
- 4804 type, name and location. This is displayed in a list if more than one asset has been declared.
- 4805 - The reason for the outage
- 4806 - Comments, if available
- 4807 The following information is provided for each declared time interval that falls within the
- 4808 selected date or date range:
- 4809 - Start date and time
- 4810 - End date and time
- 4811 - The In and Out Area(s) and the new NTC. If new NTC is expressed as a curve, it shall be
- 4812 possible to expand the view so time periods and NTC values are displayed in a table and in a
- 4813 chart
- 4814

## 4815 11.5 CHANGES IN ACTUAL AVAILABILITY IN THE 4816 TRANSMISSION GRID [10.1.B]

### 4817 11.5.1 DATA DESCRIPTION

4818 Data description is almost identical to data item “Planned unavailability in the transmission  
4819 grid [10.1.a]”, refer to chapter 11.2. The differences are:

- 4820 - outage type shall be “actual”
- 4821 - only one time interval is permitted
- 4822 - status is always “active”

4823 Note that several outage subjects are permitted though, also for this data item.

### 4824 11.5.2 PRE-CONFIGURATION

4825 For this data item, there is no additional pre-configuration.

### 4826 11.5.3 ASSUMPTIONS

4827 Reasons for the outage can be updated D+1 after the start of the outage.

4828 For outages on interconnectors, there is a memorandum of understanding between Data  
4829 Providers that governs who submits data to central platform, to avoid a situation with more  
4830 than one data provider submitting data referring to the same outage.

### 4831 11.5.4 INTEGRATION

4832 - The document date and time of the submitted document should be posterior to the start date  
4833 and time of the outage. This validation will trigger a warning only.

4834 - For a transmission asset, there may not be more than one change in actual availability at any  
4835 point in time for a specific direction on a specific border.

4836 All other validations are the same as for planned unavailability of transmission infrastructure,  
4837 refer to chapter 11.4.4.

### 4838 11.5.5 PROCESSING

4839 No processing is performed on this data item.

4840 11.5.6 PUBLICATION

4841 11.5.6.1 PUBLICATION BEHAVIOUR

4842 No specific publication behaviour applies to this data item.

4843 11.5.6.2 FILTERING AND SORTING CRITERIA

4844 Data shall be displayed together with planned outages on the same page. Filter and sorting  
4845 criteria are the same as for planned outages. It shall be possible to use type of outage  
4846 (planned or actual) as a criterion. Refer to section 11.4.6.2.

4847 11.5.6.3 DISPLAY

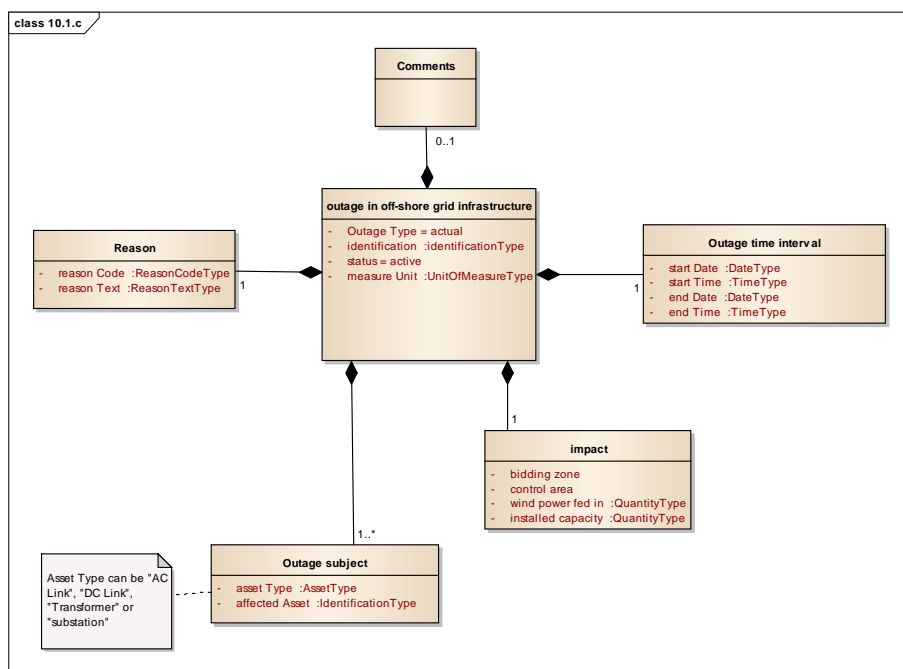
4848 Data shall be displayed together with planned outages on the same page. The type of outage  
4849 (planned or actual) shall be displayed. Refer to section 11.4.6.3.

4850

## 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

4864 - Measure Unit is fixed to megawatt (MW)

4865 - Outage type is fixed to "actual"

4866 - Status is fixed to "active"

4867 - The reason for the outage

4868 - Optionally, a free-text comment may be provided

#### 4869 11.6.2 PRE-CONFIGURATION

4870 For this data item, there is no additional pre-configuration.

#### 4871 11.6.3 ASSUMPTIONS

4872 Outage of Generation units and Production Units will be accounted for in separate document,  
4873 as per chapters 11.8 and 11.10.

#### 4874 11.6.4 INTEGRATION

4875 - The outage subjects (assets) described in the document shall be recognised by the platform.

4876 - The Data Provider shall be consistent with the identified outage subjects.

4877 - The document date and time of the submitted document should be posterior to the start date  
4878 and time of the outage. This validation will trigger a warning only.

#### 4879 11.6.5 PROCESSING

4880 No processing is performed on this data item.

#### 4881 11.6.6 PUBLICATION

##### 4882 11.6.6.1 PUBLICATION BEHAVIOUR

4883 No specific publication behaviour applies to this data item.

##### 4884 11.6.6.2 FILTERING AND SORTING CRITERIA

4885 Data shall be visually accessed by selecting the following:

4886 - Date or date range (selection is mandatory)

4887 - Country or Bidding Zone (selection is mandatory); if Country is selected, pre-configuration  
4888 [C9] will be used to identify the corresponding Control Area and filter Outages accordingly)

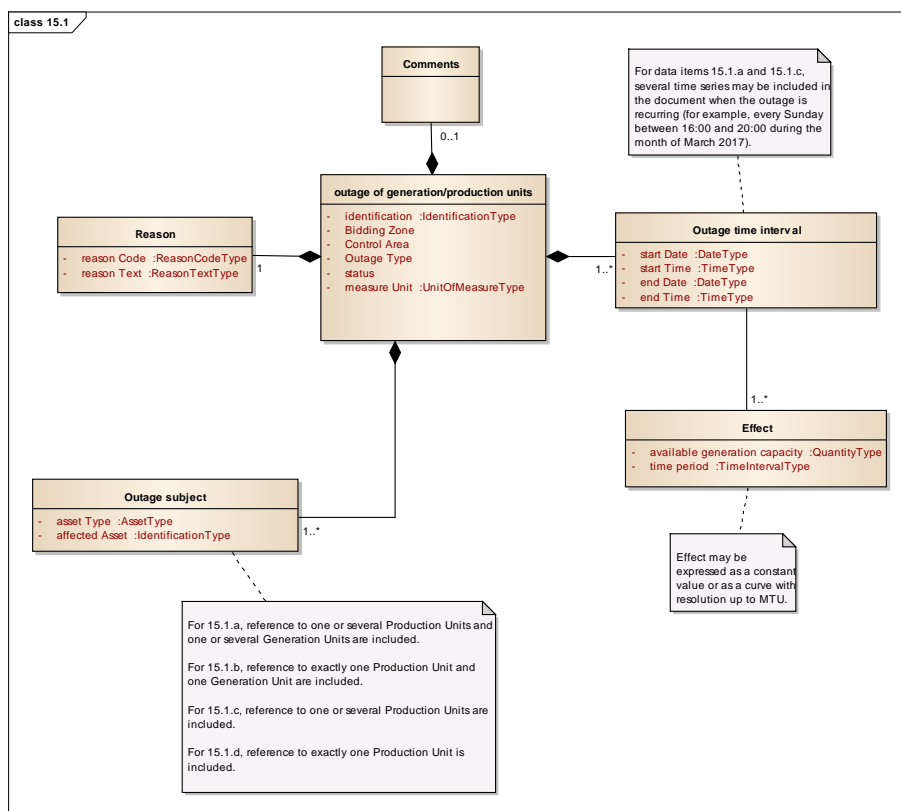
- 4889 Outages for which time interval falls either completely or partially on the selected date (or  
4890 possibly date range) will be displayed.
- 4891 **11.6.6.3 DISPLAY**
- 4892 Data shall be displayed in the following section:
- 4893 **- Transmission Grid / Unavailability of off-shore grid**
- 4894 The following attributes of data shall be displayed:
- 4895 - Title
- 4896 - Measure Unit
- 4897 For each outage that falls within the selected date or date range, the following details are  
4898 displayed:
- 4899 - Country or Bidding Zone
- 4900 - Status (always "active")
- 4901 - Type of outage (always "actual")
- 4902 - The outage subjects with links to pages on central platform that provide full details; asset  
4903 type, name, location. This is provided in a list if more than one asset has been declared.
- 4904 - The reason for the outage
- 4905 - Comments, if available
- 4906 - Start date and time
- 4907 - End date and time
- 4908 - installed generation capacity
- 4909 - Wind power fed in
- 4910



## 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:



- 4915
- 4916 A planned unavailability on generation unit is described by the following:
- 4917 - An identification of the outage, having a status (active or cancelled)
- 4918 - Bidding Zone and Control Area
- 4919 - Type of outage is planned

- 4920 - The outage subject, defined by the asset Type (Generation Unit) and its Unique Code
- 4921 - The Production Unit that the Generation Unit belongs to, defined by the asset Type
- 4922 (Production Unit) and its Unique Code
- 4923 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every
- 4924 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series
- 4925 may be included in the document.
- 4926 - The estimated available generation capacity in Measure Unit
- 4927 - The reason for the planned outage
- 4928 - Measure Unit is fixed to megawatt (MW)
- 4929 - Optionally, a free-text comment may be provided
- 4930 **11.7.2 PRE-CONFIGURATION**
- 4931 For select control areas, the validation against overlapping outages may be disabled.
- 4932 **11.7.3 ASSUMPTIONS**
- 4933 Unavailability of generation units is submitted per Bidding Zone and Control Area. For a given
- 4934 unavailability, there will be only one Data Provider.
- 4935 Installed capacity of generation unit is recorded in Master Data.
- 4936 **11.7.4 INTEGRATION**
- 4937 - The outage subject (asset) described in the document shall be recognised by the platform
- 4938 - Outage subject shall be consistent with Bidding Zone and Control Area
- 4939 - Data Provider shall be consistent with Bidding Zone and Control Area
- 4940 - Data Provider shall be consistent with the identified outage subject
- 4941 - For a given generation unit there may not be more than one active planned unavailability at
- 4942 any point in time.
- 4943 **11.7.5 PROCESSING**
- 4944 Unavailability marked for cancellation shall be marked as cancelled in the platform database.
- 4945 Platform deduces Name of Generation Unit, location, production type and installed generation
- 4946 capacity based on the submitted Unique Code.

4947 Platform deduces Name of Production Unit based on the submitted Unique Code of the  
4948 Production Unit.

## 4949 11.7.6 PUBLICATION

### 4950 11.7.6.1 PUBLICATION BEHAVIOUR

4951 An outage marked for cancellation at submission shall be accessible on the platform but  
4952 marked explicitly as cancelled

### 4953 11.7.6.2 FILTERING AND SORTING CRITERIA

4954 Data shall be visually accessed by selecting the following:

4955 - Date or date range (selection is mandatory)

4956 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4957 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4958 accordingly)

4959 - Type of unavailability: planned or actual, selection is optional

4960 - Production or Generation unit, selection is optional

4961 Unavailability for which time interval falls either completely or partially on the selected date (or  
4962 possibly date range) will be displayed.

### 4963 11.7.6.3 DISPLAY

4964 This data shall be displayed in the following section:

#### 4965 - **Generation / Unavailability**

4966 There shall be a link to the section Generation / List of Production Units and Installed Capacity,  
4967 refer to 9.3.8.2.

4968 - Title

4969 - Measure Unit (MW)

4970 For each outage that falls within the selected date or date range, the following details are  
4971 displayed:

4972 - Status (active or cancelled)

4973 - The outage subject(s) with link to page on central platform that provide full details; Production  
4974 Type, Production and Generation Unit names and installed capacity.

- 4975 - The reason for the outage
- 4976 - Comments, if available
- 4977 - Country or Bidding Zone
- 4978 - Type of unavailability (planned or actual)
- 4979 The following information is provided for each declared time interval that falls within the
- 4980 selected date or date range:
- 4981 - Start date and time
- 4982 - End date and time
- 4983 - The available generation capacity per MTU period
- 4984

## 4985 11.8 CHANGES IN ACTUAL AVAILABILITY OF GENERATION 4986 UNITS [15.1.B]

### 4987 11.8.1 DATA DESCRIPTION

4988 Data description is almost identical to data item “Planned unavailability of generation units  
4989 [15.1.a]”, refer to chapter 11.6. The differences are:

- 4990 - outage type shall be “actual”
- 4991 - only one time interval is permitted
- 4992 - status is always “active”
- 4993 - not more than one generation unit and production unit included

### 4994 11.8.2 PRE-CONFIGURATION

4995 For select control areas, the validation against overlapping outages may be disabled.

### 4996 11.8.3 ASSUMPTIONS

- 4997 Unavailability of generation units is submitted per Bidding Zone and Control Area.
- 4998 For a given unavailability, there will be only one Data Provider.
- 4999 Installed capacity of generation unit is recorded in Master Data.

### 5000 11.8.4 INTEGRATION

- 5001 The document date and time of the submitted document should be posterior to the start date  
5002 and time of the unavailability. This validation shall trigger a warning only.
- 5003 -For a given generation unit there may not be more than one active change in actual availability  
5004 at any point in time.
- 5005 All other validations are the same as for planned unavailability of generation units, refer to  
5006 chapter 11.7.4.

### 5007 11.8.5 PROCESSING

- 5008 Platform deduces Name of Generation Unit, location, production type and installed generation  
5009 capacity based on the submitted Unique Code.
- 5010 Platform deduces Production Unit and retrieves its Name based on reference data described  
5011 in 9.9. The submitted Unique Code of Production Unit is used as key.

5012 11.8.6 PUBLICATION

5013 11.8.6.1 PUBLICATION BEHAVIOUR

5014 No specific publication behaviour applies to this data item.

5015 11.8.6.2 FILTERING AND SORTING CRITERIA

5016 Data shall be displayed together with planned unavailability on the same page. Filter and  
5017 sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
5018 unavailability (planned or actual) as a criterion. Refer to section 11.7.6.2.

5019 11.8.6.3 DISPLAY

5020 Data shall be displayed together with planned unavailability on the same page. The type of  
5021 unavailability (planned or actual) shall be displayed. Refer to section 11.7.6.3.

5022

## 5023 11.9 PLANNED UNAVAILABILITY OF PRODUCTION UNITS

### 5024 [15.1.c]

#### 5025 11.9.1 DATA DESCRIPTION

5026 Data description is almost identical to data item "Planned unavailability of generation units  
5027 [15.1.a]", refer to chapter 11.6. The difference is that Asset Type is Production Unit.

#### 5028 11.9.2 PRE-CONFIGURATION

5029 For select control areas, the validation against overlapping outages may be disabled.

#### 5030 11.9.3 ASSUMPTIONS

5031 Unavailability of Production Units is submitted per Bidding Zone and Control Area.

5032 For a given unavailability, there will be only one Data Provider.

5033 Installed capacity per Production Unit has been recorded in Master Data.

#### 5034 11.9.4 INTEGRATION

5035 - The outage subject (asset) described in the document shall be recognised by the platform

5036 - Outage subject shall be consistent with Bidding Zone and Control Area

5037 - Data Provider shall be consistent with Bidding Zone and Control Area

5038 - Data Provider shall be consistent with the identified outage subject

5039 - For a given production unit there may not be more than one active planned unavailability at  
5040 any point in time. Validation shall be carried out separately for production unit and its  
5041 generation units, i.e. overlaps between outages of a production unit and any of its generation  
5042 units are permitted.

#### 5043 11.9.5 PROCESSING

5044 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

5045 Platform deduces Name of Production Unit, location, production type and installed generation  
5046 capacity based on the submitted Unique Code.

5047    11.9.6    PUBLICATION

5048    11.9.6.1    PUBLICATION BEHAVIOUR

5049    An outage marked for cancellation at submission shall be accessible on the platform but  
5050    marked explicitly as cancelled.

5051    11.9.6.2    FILTERING AND SORTING CRITERIA

5052    Data shall be visually accessed by selecting the following:

5053    - Date or date range (selection is mandatory)

5054    - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
5055    [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
5056    accordingly)

5057    - Type of unavailability: planned or actual, selection is optional

5058    - Production unit, selection is optional

5059    Unavailability for which time interval falls either completely or partially on the selected date (or  
5060    possibly date range) will be displayed.

5061    11.9.6.3    DISPLAY

5062    This data shall be displayed in the following section:

5063    - **Generation / Unavailability**

5064    There shall be a link to the section Generation / List of Production Units and Installed Capacity,  
5065    refer to 9.3.8.2.

5066    - Title

5067    - Measure Unit (MW)

5068    For each outage that falls within the selected date or date range, the following details are  
5069    displayed:

5070    - Status (active or cancelled)

5071    - The outage subject(s) with link to page(s) on central platform that provide full details;  
5072    Production Type, Production Unit name and installed capacity.

5073    - The reason for the outage

5074    - Comments, if available



- 5075 - Country or Bidding Zone
- 5076 - Type of unavailability (planned or actual)
- 5077 The following information is provided for each declared time interval that falls within the
- 5078 selected date or date range:
- 5079 - Start date and time
- 5080 - End date and time
- 5081 - The available generation capacity per MTU period
- 5082

## 5083 11.10 CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION 5084 UNITS [15.1.D]

### 5085 11.10.1 DATA DESCRIPTION

5086 Data description is almost identical to data item “Planned unavailability of production units  
5087 [15.1.c]”, refer to chapter 11.9. The differences are:

- 5088 - outage type shall be “actual”
- 5089 - only one time interval is permitted
- 5090 - status is always “active”
- 5091 - not more than one production unit included

### 5092 11.10.2 PRE-CONFIGURATION

5093 For select control areas, the validation against overlapping outages may be disabled.

### 5094 11.10.3 ASSUMPTIONS

- 5095 Installed capacity per Production Unit has previously been recorded in Master Data.
- 5096 Unavailability of production units is submitted per Bidding Zone and Control Area.
- 5097 For a given unavailability, there will be only one Data Provider.

### 5098 11.10.4 INTEGRATION

5099 The document date and time of the submitted document should be posterior to the start date  
5100 and time of the unavailability. This validation shall trigger a warning only.

5101 For a given production unit there may not be more than one active change in actual availability  
5102 at any point in time. Validation shall be carried out separately for production unit and its  
5103 generation units, i.e. overlaps between outages of a production unit and any of its generation  
5104 units are permitted.

5105 All other validations are the same as for planned unavailability of generation units, refer to  
5106 chapter 11.7.4.

### 5107 11.10.5 PROCESSING

5108 Platform deduces Name of Production Unit, location, production type and installed generation  
5109 capacity based on the submitted Unique Code.

5110 11.10.6 PUBLICATION

5111 11.10.6.1 PUBLICATION BEHAVIOUR

5112 No specific publication behaviour applies to this data item.

5113 11.10.6.2 FILTERING AND SORTING CRITERIA

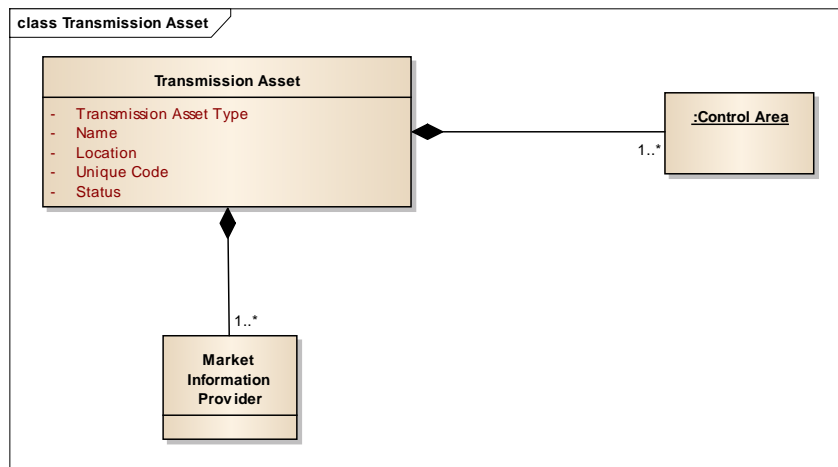
5114 Data shall be displayed together with planned unavailability on the same page. Filter and  
5115 sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
5116 unavailability (planned or actual) as criteria. Refer to section 11.9.6.2.

5117 11.10.6.3 DISPLAY

5118 Data shall be displayed together with planned unavailability on the same page. The type of  
5119 unavailability (planned or actual) shall be displayed. Refer to section 11.9.6.3.

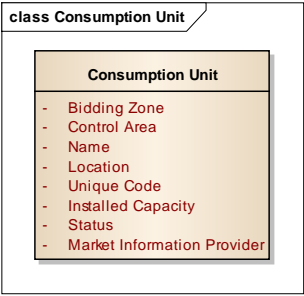
5120

## 5121 11.11 TRANSMISSION ASSETS



- 5122
- 5123 Reference data for transmission assets will have similar structure and maintenance
- 5124 mechanism as generation and production units, refer to chapter 9.9.
- 5125 Just like generation units, transmission assets will have a status (commissioned,
- 5126 decommissioned or cancelled), a unique code, name and location. Additionally, transmission
- 5127 assets will have the attribute transmission asset type (AC Link, DC Link, Transformer or
- 5128 Substation).
- 5129 As opposed to generation units, a transmission asset may have several Data Providers.
- 5130 Note that Bidding Zone is *not* an attribute of transmission asset.
- 5131 Note that more than one Control Area may be associated with a transmission asset.
- 5132 Transmission assets shall be visible for the Data Provider in the following section on the
- 5133 website:
- 5134 - **Transmission / Transmission Assets**
- 5135 It shall be possible to filter the transmission assets by Control Area or Country.

5136 11.12 CONSUMPTION UNITS

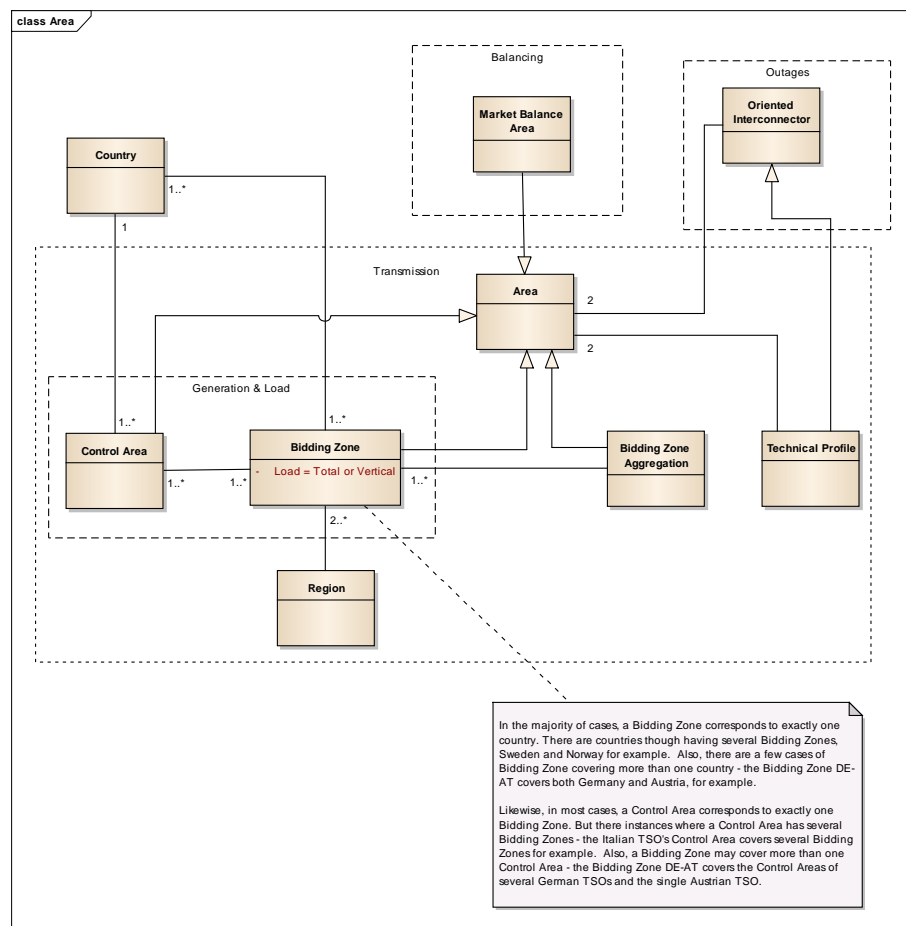


- 5137
- 5138 Reference data for consumption units will have similar structure and maintenance
- 5139 mechanism as generation units, refer to chapter 9.9. Just like generation units, consumption
- 5140 units will have a status (commissioned, decommissioned or cancelled), bidding area, control
- 5141 area, a unique code, name and location. Installed capacity is mandatory.
- 5142 Similar to generation units, a consumption unit will have only one Data Provider.
- 5143 Consumption Units shall be displayed in the following section on the website:
- 5144 - **Load / Consumption Units**
- 5145 It shall be possible to filter the consumption units by Control Area, Bidding Zone or Country.
- 5146

## 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



5154 Bidding Zone is used in all domains except Balancing, where Market Balance Area is used  
5155 instead.

5156 A Control Area never overlaps another Control Area. Likewise, a Bidding Zone never  
5157 overlaps another Bidding Zone.

5158 In the Transmission domain, there are Regions and aggregation of Bidding Zones. An Area  
5159 may consist of either a single Bidding Zone or a Bidding Zone Aggregation. Also in  
5160 Transmission domain, a Technical Profile consists of two Areas with a direction. See section  
5161 7.1 for further details.

5162 For Outages, there are Oriented Interconnectors that consist of two Areas with a direction.  
5163 See also section 11.1.2.

## 5164 12.2 ASSETS

5165 There are four types of assets: Generation Units, Production Units, Consumption Units and  
5166 Transmission Assets. Refer to diagram in section 11.1.1.

5167 More information on Generation and Production Units is available in section 9.9.  
5168 Consumption Units are detailed in 11.12. Transmission Assets are described in section  
5169 11.11.

## 5170 12.3 TRANSMISSION CAPACITY ALLOCATIONS AND 5171 CAPACITY PRODUCTS

5172 Capacity Allocations and products are relevant to the Transmission domain. Capacity  
5173 Allocations can be either explicit or implicit. Capacity products are associated with Capacity  
5174 Allocations and are characterised by two Areas with a direction and a Contract Type, and  
5175 additionally for explicit allocations a Classification Category and a Classification Sequence.

5176 Further details on Transmission Capacity Allocations and Capacity Products are available in  
5177 chapters 7.1.1 and 7.28.

## 5178 12.4 PROCESSES, RESERVES AND PRICE TYPES

5179 In the Balancing domain, there are constraints on the valid combinations of Market Balance  
5180 Area, Reserves and Price Type. Full details are available in chapters 10.1.1 and 10.1.2. For  
5181 some data items also Contract Types may be relevant. Contract Types are the same as in  
5182 Transmission domain.

## 5183 12.5 TIME UNITS

5184 In all domains except Balancing, Market Time Units are used and depend on Bidding Zone or  
5185 Bidding Zone Aggregation. For Balancing, Balancing Time Units are used and depend on  
5186 Market Balance Area.

## 5187 12.6 ACTIONS AND REASONS

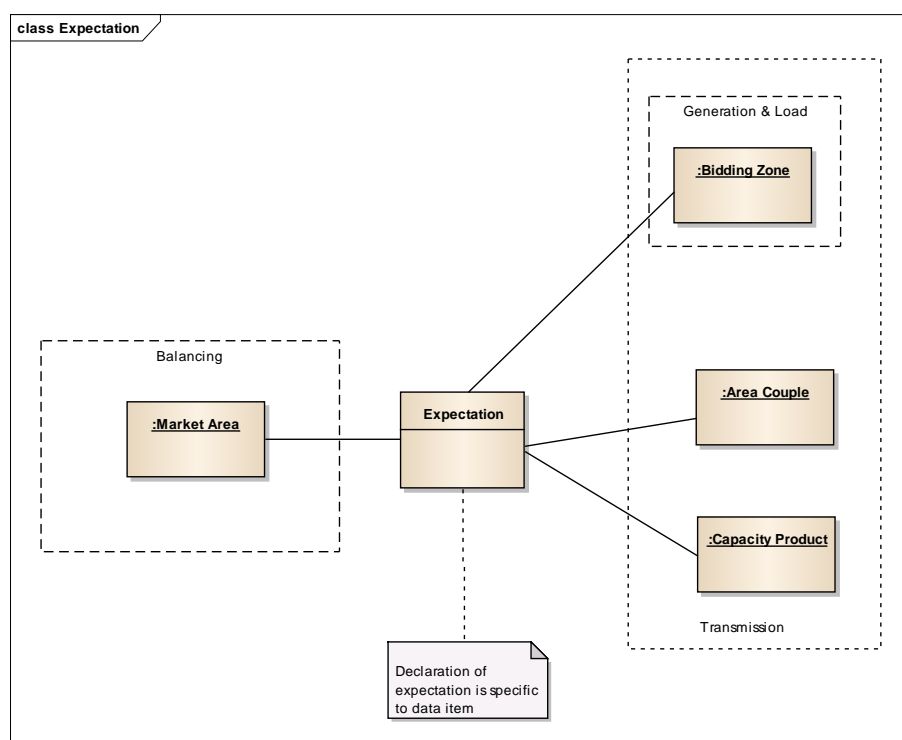
5188 For Congestion Management, different sets of actions are foreseen. Further details provided  
5189 in chapter 8.1.2.

5190 For Outages, a single set of reason codes is foreseen, common to all kinds of Outages.  
5191 Details are provided in chapter 11.1.2.



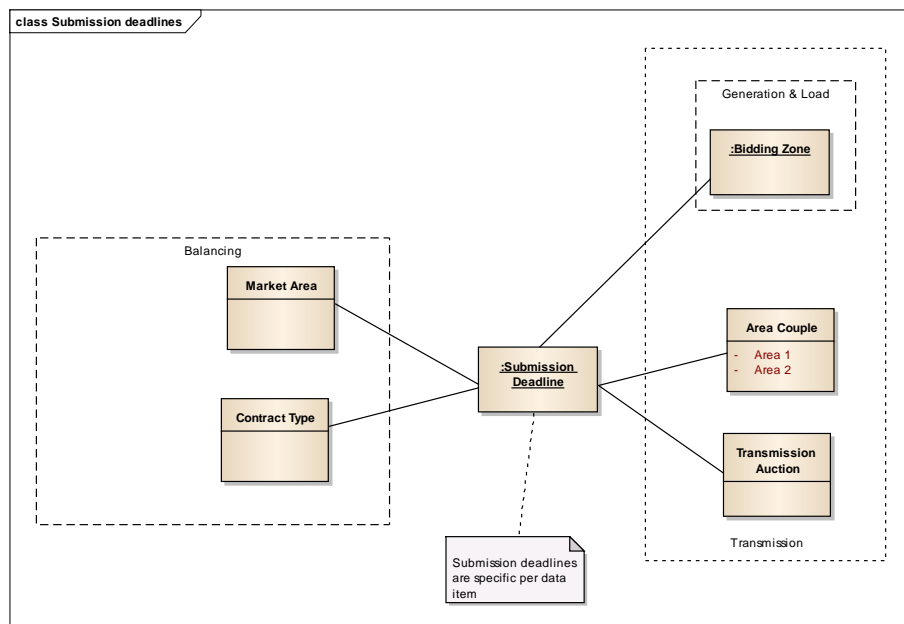
## 5192 12.7 DATA ITEMS

### 5193 12.7.1 EXPECTATION OF DATA



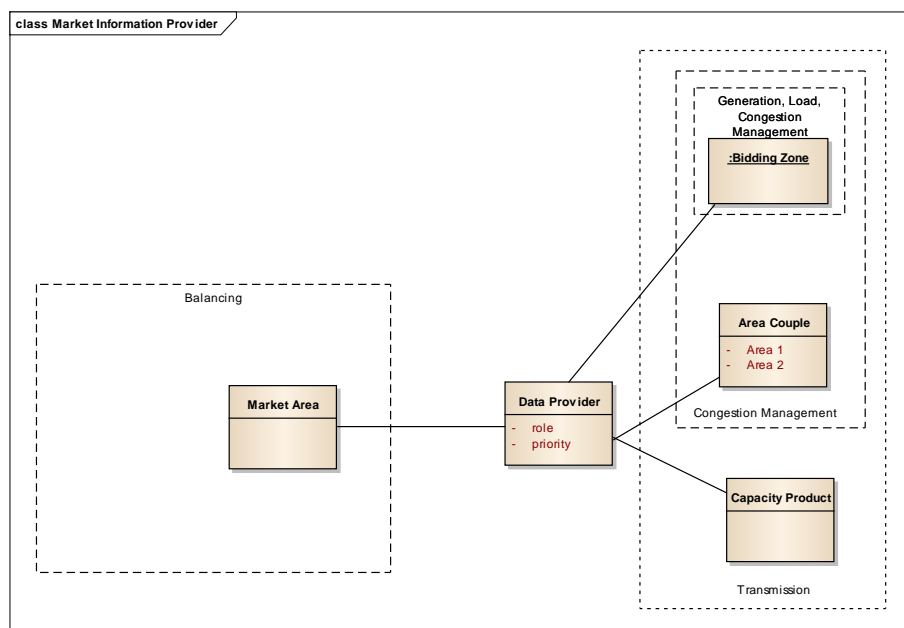
- 5194
- 5195 Whether data is expected or not is declared per Bidding Zone for data items in the domains
- 5196 Generation and Load. In the Transmission domain, expectation is declared per Bidding Zone,
- 5197 Bidding Zone couple or per Technical Profile. For some Transmission data items related to
- 5198 capacity allocations, expectation is determined per capacity product.
- 5199 For data items in the Balancing domain, expectation is declared per Market Balance Area.

## 5200 12.7.2 SUBMISSION DEADLINES



- 5201
- 5202 For data items in Generation and Load domains, submission deadlines are determined by
- 5203 Bidding Zone.
- 5204 In Transmission domain, deadlines are defined per Bidding Zone or couple of Bidding Zones.
- 5205 For some Transmission data items related to capacity allocations, submission deadlines are
- 5206 set per capacity allocation instance.
- 5207 For data items in the Balancing domain, submission deadlines are defined per Market
- 5208 Balance Area and for some data items also per Contract Type.

## 5209 12.7.3 ALLOWED DATA PROVIDERS



- 5210
- 5211 Data Providers have a priority and a role – those attributes are relevant in the Transmission
- 5212 domain only.
- 5213 In the domains Generation and Load, the allowed Data Providers are associated with the
- 5214 Control Area and Bidding Zone.
- 5215 In the Transmission and Congestion Management domains, the allowed Data Providers are
- 5216 associated with Bidding Zone, a couple of Bidding Zones or a Technical Profile. For some
- 5217 data items related to Transmission capacity allocations, allowed Data Providers are identified
- 5218 per Capacity Allocation.
- 5219 In the Balancing domain, the allowed Data Provider is associated with Market Balance Area.