



European Network of  
Transmission System Operators  
for Electricity

*CENTRAL INFORMATION  
TRANSPARENCY PLATFORM  
-  
BUSINESS REQUIREMENTS  
SPECIFICATION*

2018-10-11

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2	<b>TABLE OF CONTENTS</b>	
3	<b>1 INTRODUCTION .....</b>	<b>11</b>
4	<b>2 OBJECTIVE.....</b>	<b>12</b>
5	<b>3 TERMS, ACRONYMS AND ABBREVIATIONS .....</b>	<b>12</b>
6	<b>4 BUSINESS PROCESS VIEWS .....</b>	<b>17</b>
7	<b>5 GENERAL BUSINESS REQUIREMENTS .....</b>	<b>19</b>
8	<b>6 LOAD .....</b>	<b>32</b>
9	6.1 REQUIREMENTS COMMON TO ALL DATA ITEMS.....	32
10	6.2 ACTUAL TOTAL LOAD PER BIDDING ZONE [6.1.A] .....	35
11	6.3 DAY-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.B].....	37
12	6.4 WEEK-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.C] .....	40
13	6.5 MONTH-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.D].....	43
14	6.6 YEAR-AHEAD TOTAL LOAD FORECAST PER BIDDING ZONE [6.1.E].....	45
15	6.7 YEAR-AHEAD FORECAST MARGIN [8.1] .....	47
16	<b>7 TRANSMISSION.....</b>	<b>50</b>
17	7.1 REQUIREMENTS COMMON TO ALL DATA ITEMS.....	50
18	7.2 EXPANSION AND DISMANTLING PROJECTS [9.1] .....	58
19	7.3 EXPANSION AND DISMANTLING PROJECTS (REPORT) [9.1].....	61
20	7.4 FORECASTED YEAR-AHEAD TRANSFER CAPACITIES [11.1] .....	63
21	7.5 FORECASTED MONTH-AHEAD TRANSFER CAPACITIES [11.1].....	67
22	7.6 FORECASTED WEEK-AHEAD TRANSFER CAPACITIES [11.1] .....	70
23	7.7 FORECASTED DAY-AHEAD TRANSFER CAPACITIES [11.1].....	73
24	7.8 OFFERED YEAR-AHEAD TRANSFER CAPACITIES [11.1] .....	76
25	7.9 OFFERED MONTH-AHEAD TRANSFER CAPACITIES [11.1].....	80
26	7.10 OFFERED WEEK-AHEAD TRANSFER CAPACITIES [11.1] .....	84
27	7.11 OFFERED DAY-AHEAD TRANSFER CAPACITY [11.1] .....	88
28	7.12 OFFERED INTRADAY TRANSFER CAPACITY [11.1] .....	91
29	7.13 OTHER OFFERED TRANSFER CAPACITIES [11.1] .....	95
30	7.14 FLOW-BASED CAPACITY ALLOCATION [11.1] .....	99
31	7.15 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – RAMPING RESTRICTIONS .....	102
32	7.16 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – INTRADAY TRANSFER LIMITS .....	104
33	7.17 YEARLY REPORT ABOUT CRITICAL NETWORK ELEMENTS LIMITING OFFERED CAPACITIES [11.4] .....	106

34	7.18	EXPLICIT ALLOCATIONS - USE OF THE TRANSFER CAPACITY [12.1.A] .....	107
35	7.19	EXPLICIT ALLOCATIONS – AUCTION REVENUE [12.1.A] .....	111
36	7.20	TOTAL CAPACITY NOMINATED [12.1.B] .....	115
37	7.21	TOTAL CAPACITY ALREADY ALLOCATED [12.1.C] .....	119
38	7.22	DAY-AHEAD PRICES [12.1.D] .....	122
39	7.23	IMPLICIT ALLOCATIONS – NET POSITIONS [12.1.E] .....	125
40	7.24	IMPLICIT ALLOCATIONS – CONGESTION INCOME [12.1.E] .....	128
41	7.25	SCHEDULED COMMERCIAL EXCHANGES [12.1.F] .....	131
42	7.26	PHYSICAL FLOWS [12.1.G] .....	134
43	7.27	TRANSFER CAPACITIES ALLOCATED WITH THIRD COUNTRIES [12.1.H] .....	137
44	7.28	CONFIGURATION OF TRANSMISSION CAPACITY ALLOCATION .....	140
45	8	CONGESTION MANAGEMENT .....	146
46	8.1	REQUIREMENTS COMMON TO ALL DATA ITEMS .....	146
47	8.2	REDISPATCHING [13.1.A] .....	149
48	8.3	COUNTERTRADING [13.1.B] .....	152
49	8.4	COSTS OF CONGESTION MANAGEMENT [13.1.C] .....	155
50	9	GENERATION .....	157
51	9.1	REQUIREMENTS COMMON TO ALL DATA ITEMS .....	157
52	9.2	INSTALLED GENERATION CAPACITY AGGREGATED [14.1.A] .....	160
53	9.3	INSTALLED GENERATION CAPACITY PER UNIT [14.1.B] .....	163
54	9.4	DAY AHEAD AGGREGATED GENERATION [14.1.C] .....	165
55	9.5	DAY-AHEAD GENERATION FORECASTS FOR WIND AND SOLAR [14.1.D] .....	167
56	9.6	ACTUAL GENERATION OUTPUT PER GENERATION UNIT [16.1.A] .....	170
57	9.7	AGGREGATED GENERATION PER TYPE [16.1.B&C] .....	173
58	9.8	AGGREGATED FILLING RATE OF WATER RESERVOIRS AND HYDRO STORAGE PLANTS [16.1.D] .....	176
59	9.9	GENERATION AND PRODUCTION UNITS .....	179
60	10	BALANCING .....	183
61	10.1	REQUIREMENTS COMMON TO ALL DATA ITEMS .....	183
62	10.2	TERMS AND CONDITIONS [GL EB 12.3.G] .....	186
63	10.3	AMOUNT OF BALANCING RESERVES UNDER CONTRACT [17.1.B] .....	188
64	10.4	PRICES OF PROCURED BALANCING RESERVES [17.1.C] .....	191
65	10.5	PRICES OF ACTIVATED BALANCING ENERGY [17.1.F] .....	196

66	10.6	IMBALANCE PRICES [17.1.G] .....	199
67	10.7	TOTAL IMBALANCE VOLUME [17.1.H] .....	202
68	10.8	FINANCIAL EXPENSES AND INCOME FOR BALANCING [17.1.I] .....	205
69	10.9	CURRENT BALANCING STATE [GL EB 12.3.A] .....	209
70	10.10	BALANCING ENERGY BIDS [GL EB 12.3.B&C] .....	211
71	10.11	INFORMATION ON CONVERSION INTO STANDARD PRODUCTS [GL EB 12.3.D] .....	214
72	10.12	AGGREGATED BALANCING ENERGY BIDS [GL EB 12.3.E] .....	216
73	10.13	PROCURED BALANCING CAPACITY [GL EB 12.3.F] .....	219
74	10.14	TERMS AND CONDITIONS [GL EB 12.3.G] .....	222
75	10.15	ALLOCATED CROSS-ZONAL BALANCING CAPACITY [GL EB 12.3.H] .....	224
76	10.16	USE OF ALLOCATED CROSS-ZONAL BALANCING CAPACITY [GL EB 12.3.I] .....	227
77	10.17	APPROVED METHODOLOGIES [GL EB 12.3.J] .....	230
78	10.18	ALGORITHM [GL EB 12.3.K] .....	232
79	10.19	COMMON ANNUAL REPORT [GL EB 12.3.L] .....	234
80	11	OUTAGES .....	235
81	11.1	REQUIREMENTS COMMON TO ALL DATA ITEMS .....	235
82	11.2	PLANNED UNAVAILABILITY OF CONSUMPTION UNITS [7.1.A] .....	240
83	11.3	CHANGES IN ACTUAL AVAILABILITY OF CONSUMPTION UNITS [7.1.B] .....	244
84	11.4	PLANNED UNAVAILABILITY IN THE TRANSMISSION GRID [10.1.A] .....	246
85	11.5	CHANGES IN ACTUAL AVAILABILITY IN THE TRANSMISSION GRID [10.1.B] .....	250
86	11.6	CHANGES IN ACTUAL AVAILABILITY OF OFF-SHORE GRID INFRASTRUCTURE [10.1.C] .....	252
87	11.7	PLANNED UNAVAILABILITY OF GENERATION UNITS [15.1.A] .....	255
88	11.8	CHANGES IN ACTUAL AVAILABILITY OF GENERATION UNITS [15.1.B] .....	259
89	11.9	PLANNED UNAVAILABILITY OF PRODUCTION UNITS [15.1.C] .....	261
90	11.10	CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION UNITS [15.1.D] .....	264
91	11.11	TRANSMISSION ASSETS .....	266
92	11.12	CONSUMPTION UNITS .....	267
93	12	REFERENCE DATA .....	268
94	12.1	AREAS .....	268
95	12.2	ASSETS .....	269
96	12.3	TRANSMISSION CAPACITY ALLOCATIONS AND CAPACITY PRODUCTS .....	269
97	12.4	PROCESSES, RESERVES AND PRICE TYPES .....	269

98	12.5	TIME UNITS.....	270
99	12.6	ACTIONS AND REASONS .....	270
100	12.7	DATA ITEMS.....	271
101			
102			

## 103 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</p>

Version	Release	Date	Comments
			<p>submitted instead of capacity. 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 – I.</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. Deprecated references to TR articles 17.1.a, d, e and j.</p> <p>Replaced term Market Balance Area</p>

Version	Release	Date	Comments
			<p>by Scheduling Area.</p> <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>

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107 REFERENCE DOCUMENTS

- 108 [1] Commission Regulation (EU) N° 543/2013 of 14 June 2013 on submission and  
109 publication of data in electricity markets and amending Annex I to Regulation (EC) No  
110 714/2009 of the European Parliament and of the Council, referred to as TR in this document
- 111 [3] Detailed Data Descriptions – MoP Ref02
- 112 [4] Implementation Guides – MoP Ref05 through Ref09
- 113 [5] ENTSO-E Acknowledgement Document (EAD) Implementation Guide – version 5.1
- 114 [6] EMR Glossary: [link](#)
- 115 [7] ETSO Problem Statement Document Implementation Guide version 2.0 – MoP Ref16
- 116 [8] The Harmonised Electricity Market Role Model
- 117 [9] Manual of Procedures
- 118 [11] ECAN Implementation Guide v5r0: [link](#)
- 119 [\[12\] Commission Regulation \(EU\) N° 2195/2017 of 23 November 2017 establishing a](#)  
120 [guideline on electricity balancing, referred to as GL EB in this document](#)
- 121 [13] Implementation guide for the Transparency Platform EB GL process – MoP Ref22

122 Note concerning wording used in this document:

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

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

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

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

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

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

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

## 1 INTRODUCTION

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

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

The project objectives are:

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

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

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

## 2 OBJECTIVE

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

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

## 3 TERMS, ACRONYMS AND ABBREVIATIONS

### 3.1 ACRONYMS AND ABBREVIATIONS

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

### 3.2 TERMS

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

	ns [3]		
Area	yes	Yes: matches an “Area” or a “Domain”	An Area is a space allocated for a specific purpose
Bidding Zone	Yes	Yes	See Transparency Regulation [1]
Bidding Zone Aggregation	Not used	No	A bidding Zone aggregation consists of two or more bidding Zones that share the same neighbouring bidding Zone.
Bidding Period	Not used	Yes (see [11])	The date and time when an auction opens for bidding until the date and time when bidding is stopped.  For implicit auctions, the time period when market participants can send their orders books.
Capacity Allocation Period	Not used	Not used	This is the period of time during an auction when capacity allocation is calculated
Classification Category	Not used	Yes (see [11])	The classification category provides the basic category of the auction and describes what hours of the day are being auctioned (base, peak, off-peak, hourly)
Classification Sequence	Not used	Yes (see [11])	This defines the sequence within a given auction category such as Base 1 or Base 2. This in fact identifies the auction round being carried out for a category.
Conducting Party	Not used	No	A conducting party is a party that conducts an Explicit Auction. In the case of split explicit auctions, the capacity is split between two conducting parties, each one

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

Interconnector	Not used	No	See Regulation (EC) N° 714/2009.
Market Information Aggregator	Not used	Yes	Refer to Harmonised Role Model
Market Time Unit	Yes	No	See Transparency Regulation [1]
Production Type	Yes	No	Manual of Procedures [9] will define Production Type and establish list of permitted values
Production Unit	Yes	Yes: matches a Resource Object which itself is a special type of Asset	See Transparency Regulation [1]
Region	Not used	Yes	A Region is an aggregation of Areas in the context of implicit 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")

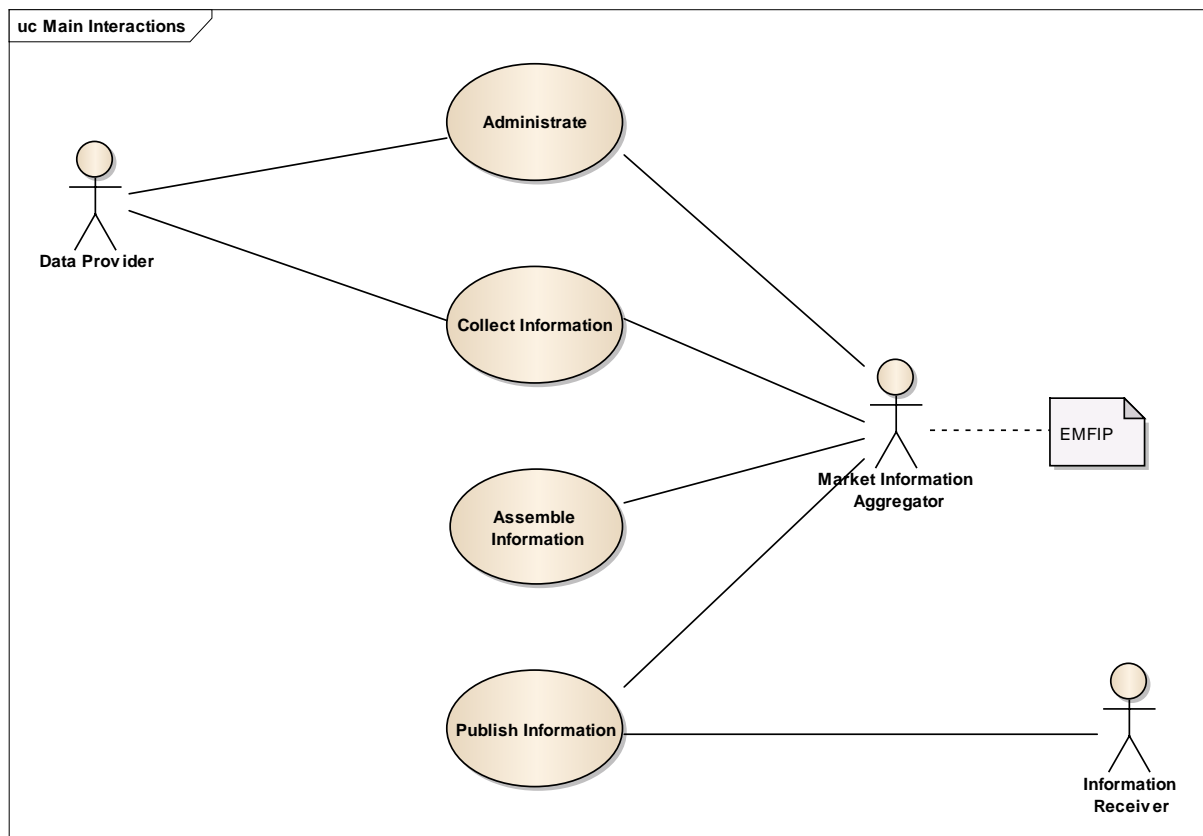
Total Load	Yes	No	See Definitions [3]
Transmission Asset	yes	No (EDI only refers to Line and Tieline)	- Transmission assets are assets used for transmission. They can be DC Link, AC Link or Transformer

188



## 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].

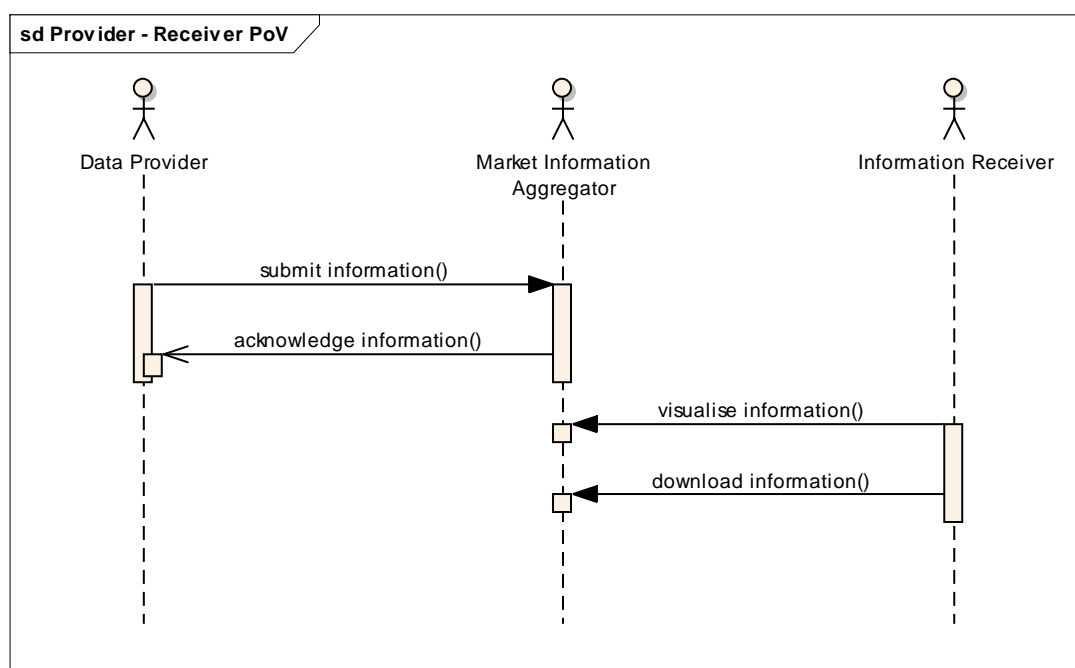
- Data Provider can either be a TSO or a third party acting as data provider. The Data Provider is not necessarily the primary owner of information but it is the entity that submits information to the Market Information Aggregator
- Market Information Aggregator: Embodied by the platform in this context,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

256

## 257 5.1.3 REQUIREMENTS

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

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

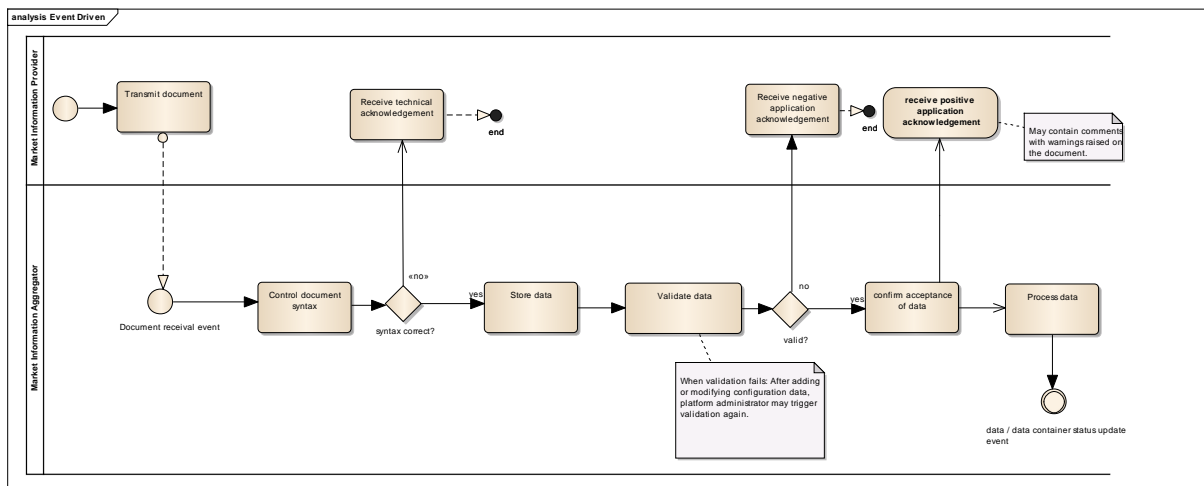
261 The platform shall support a variety of data submission frequencies (yearly, monthly, daily,  
262 hourly, etc).

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

## 267 5.2 INTEGRATION

### 268 5.2.1 BEHAVIOUR ON DOCUMENT RECEIPT EVENT

269 The following diagram describes the general behaviour of the platform upon receipt of a  
270 document.



271

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

<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.

275 1) Control document syntax

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

281 If a problem is detected at this first step of control, the Data Provider is notified with a  
282 "technical acknowledgement".

283 2) Validate data content

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

288 If a problem is detected at this second step of control, the Data Provider is notified with  
289 an "application acknowledgement". If the submitted document passes also this second  
290 step an "application acknowledgement" is issued, accepting the submitted document in  
291 its entirety.

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

295 **5.2.2 REQUIREMENTS**

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

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

299 If validation of a document fails, normally the data provider would submit a new version of the  
300 document. Additionally, the platform offers the option to repeat the validation. This would  
301 typically be the case when some reference data has not been configured properly on the  
302 platform. Validation may be repeated as long as the version of the document remains the  
303 highest (i.e. no update received).

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

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

---

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

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

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

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

318 Data Provider only will have access to invalid data.

### 319 5.3 PROCESSING

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

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

### 325 5.4 MONITORING

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

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

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

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

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

---

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

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

#### 340 5.4.1 MONITORING OF DATA ITEMS REQUIRING AGGREGATION

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

#### 346 5.4.2 DECLARATION OF EXPECTATION AND SUBMISSION DEADLINES

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

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

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

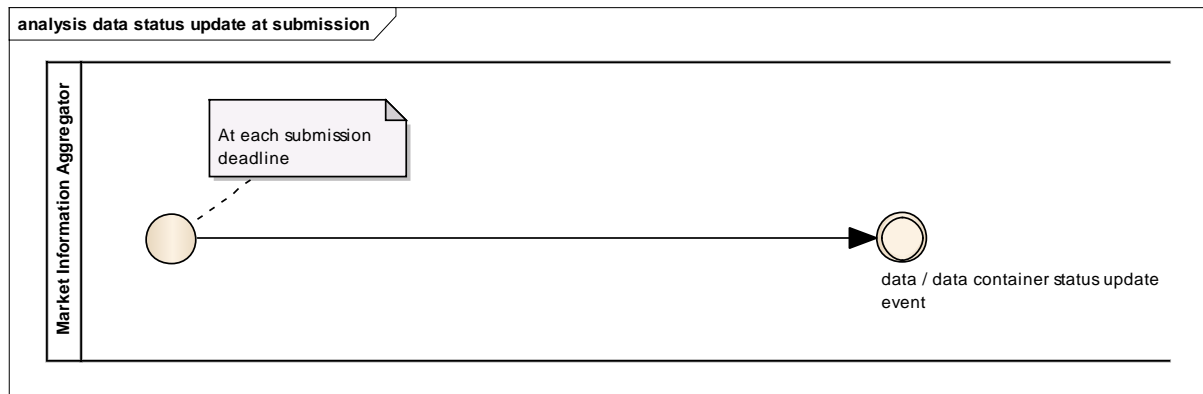
356 - the **definition of the submission deadline** (e.g. declaration that this “forecasted monthly  
357 transfer capacity” has to be submitted no later than the 15<sup>th</sup> of the preceding month).

#### 358 5.4.3 MONITORING FREQUENCY

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

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

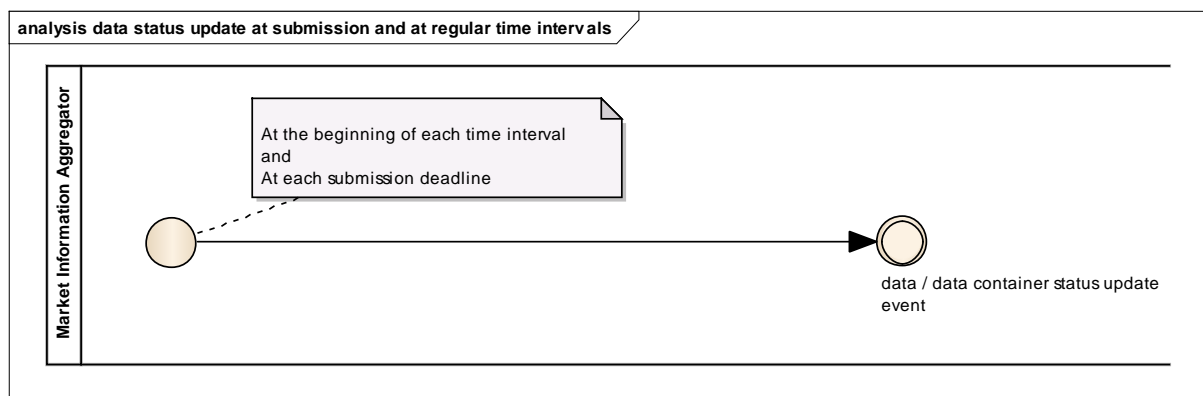
362 - at each submission deadline



363

364 or

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



367

## 368 5.5 DATA CONTAINER STATUS / DATA STATUS

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

370 - a data receipt event

371 - a monitoring event

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

373 - None / Ready for publication / Missing scheme

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

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

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



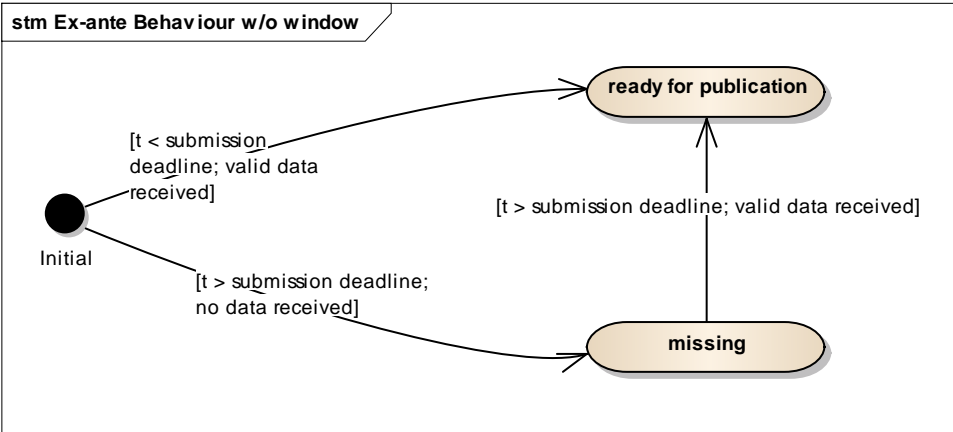
- a data receipt event
- For expected but not monitored data (i.e. with no submission deadline), only one scheme is possible:
- None / Ready for publication scheme
- Data that is not expected will be rejected by platform.

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

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

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

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



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

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

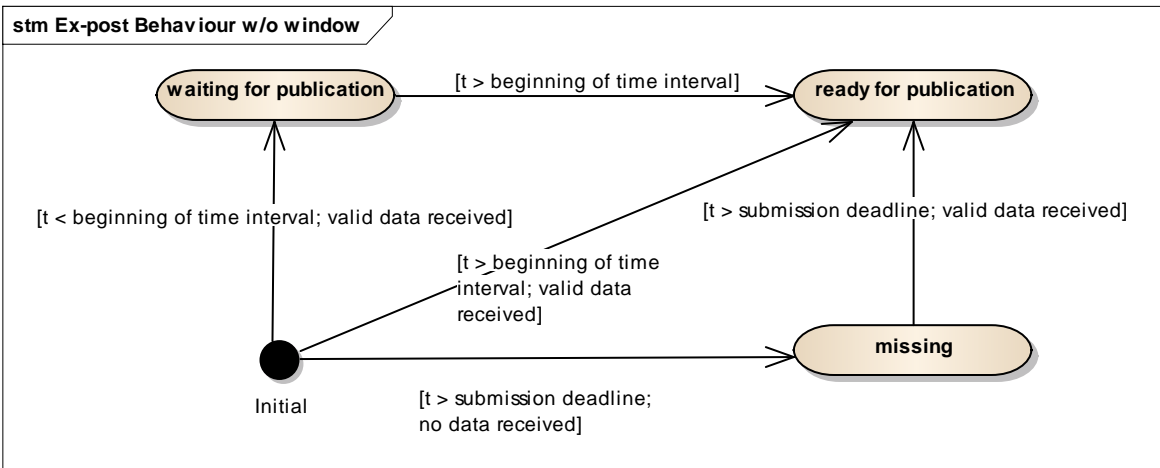
- Until the beginning of the time interval, data can have the following additional status: none or waiting for publication. Indeed, this data item should refer to ex-post information and should not be published before the beginning of the operating period<sup>4</sup>.

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

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

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

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



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

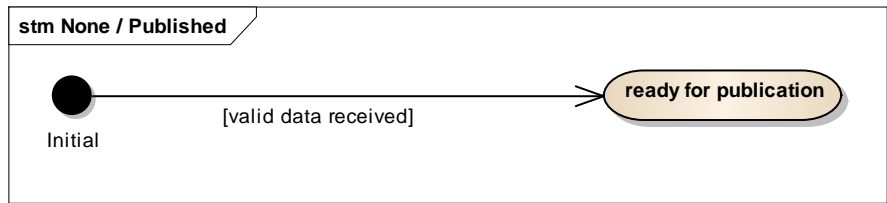
Whenever the platform receives data, at the beginning of the time interval or at submission deadline, the platform checks state transition conditions to update the status of expected data.

### 5.5.3 NONE / READY FOR PUBLICATION SCHEME

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

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

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



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

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

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

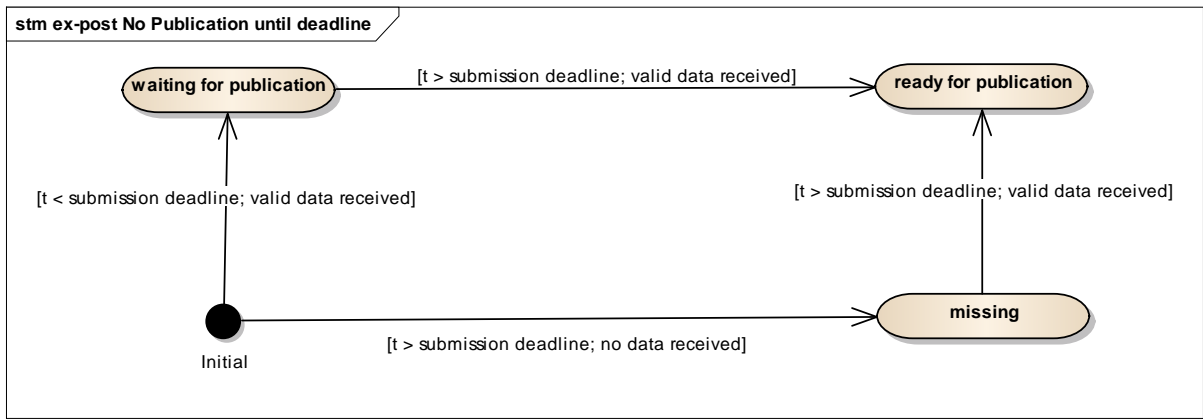
Until the submission deadline, data can have the following status: None or waiting for publication.

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

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

	Submission Deadline>	
none	none	Missing
waiting for publication	waiting for publication	ready for publication

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



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

## 5.6 PUBLICATION

- If a data has been declared as expected with a submission deadline, it is published whenever it is ready for publication
- When no submission deadline is required<sup>5</sup>, data will get published if declared as expected.
- Without further user interaction, only the latest version of the data is displayed by the platform, except where explicitly indicated otherwise. Older versions will be available online, by expanding the view.
- Status of data shall be visible.
- The last update time of published data (i.e. the document creation date and time) is available to the end user on the platform. End users shall be able to choose whether

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

449 or not the last update time for the selected data is included or not when viewing and  
450 downloading data. By default, it is not displayed. Exception is made for Outages.

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

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

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

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

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

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

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

## 467 5.7 ADMINISTRATION OF USERS AND ORGANISATIONS

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

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

<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.

	Update own organisation's reference data, to the extent access granted by Platform administrator.
Platform administrator at ENTSO-E secretariat	Read-only access to published data.  Update all organisations' reference data. Grant permissions to Data Providers to update select reference data.  Create new user accounts. Reset passwords. Disable and re-enable user accounts.
Back-end support (vendor)	Update global settings.  Execute ad-hoc queries.

472

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

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

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

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

## 480 5.8 WEB ACCESS

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

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

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

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

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

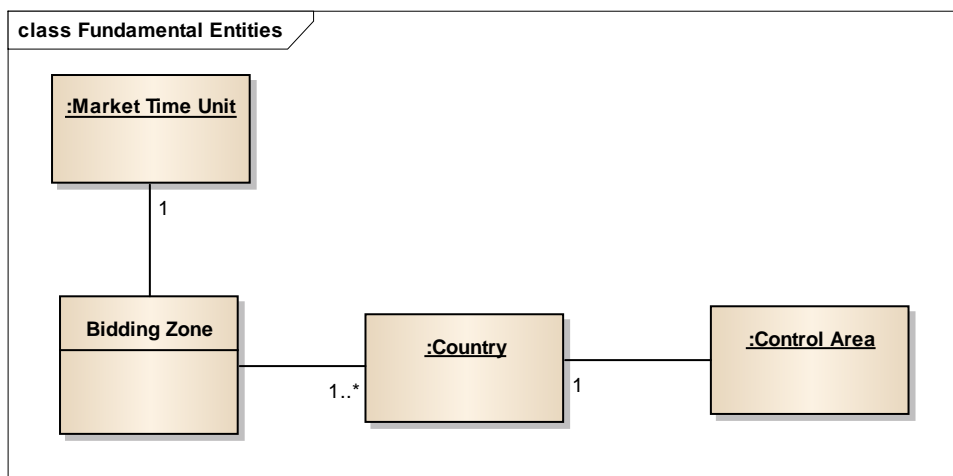
496 By default, data is displayed in Brussels time. Display and download are possible in UTC as  
497 well as in any available time zone.

## 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.

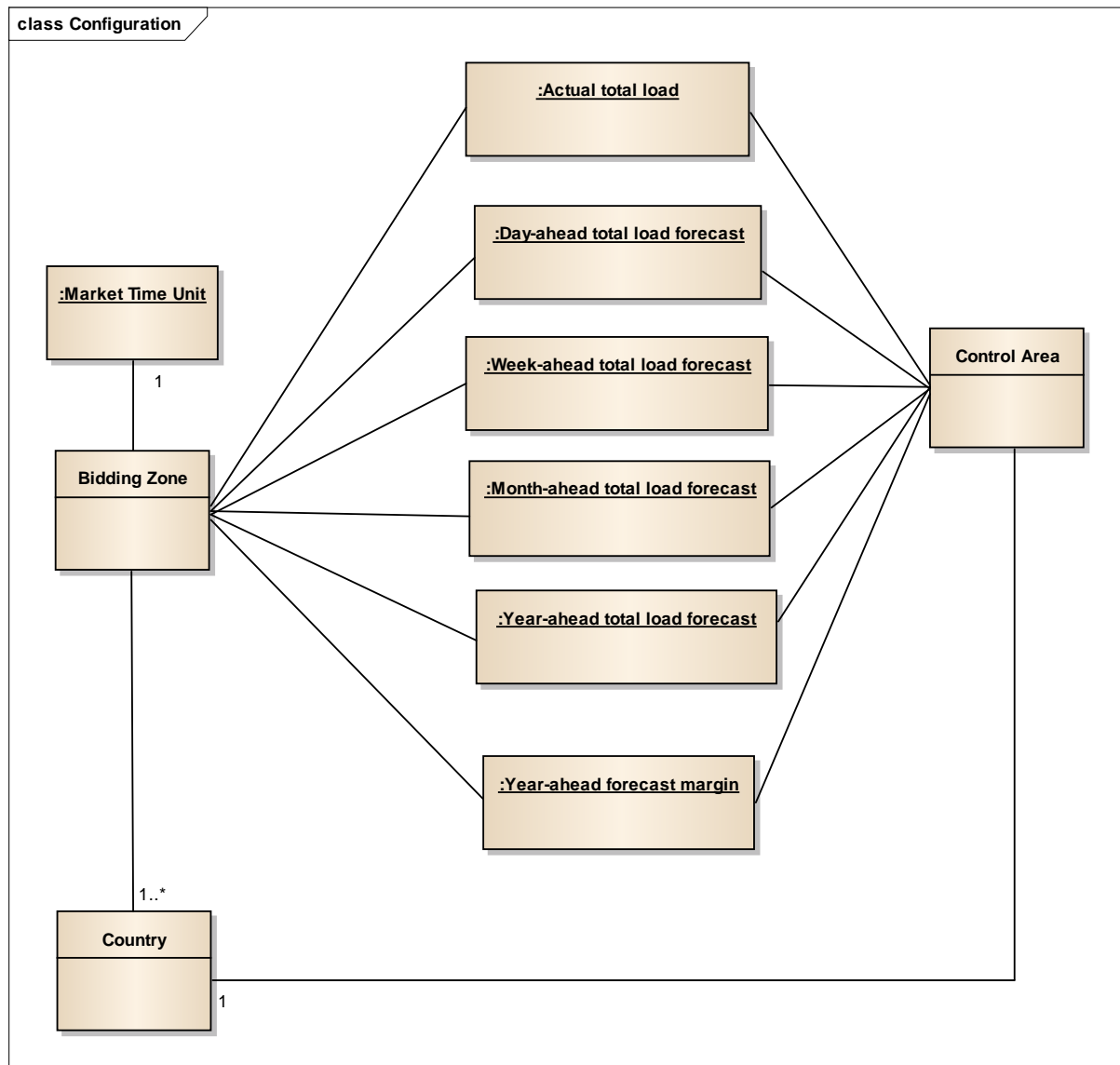


- For a given Bidding Zone, there is one Market Time Unit
- Country will be deduced based on Control Area and Bidding Zone

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.





508

## 509 6.1.2 PRE-CONFIGURATION

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

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

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

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

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

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

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

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

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

### 533 6.1.3 DATA CONTAINER STATUS / DATA STATUS

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

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

### 537 6.1.4 PUBLICATION

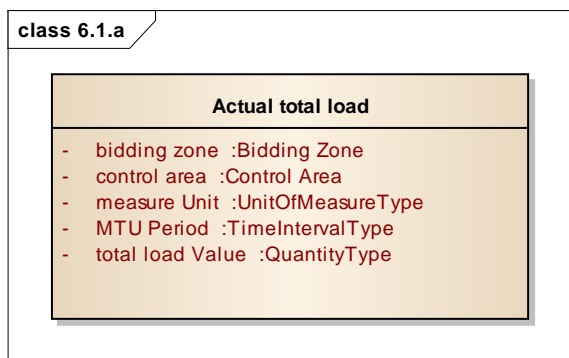
538 Data for a given bidding zone is being published as soon as it is complete, i.e. when all Data  
539 Providers have submitted their contributions.

540 For all data items, end user will have the choice between displaying data in a table or in a  
541 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

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

## 566 6.2.5 MONITORING

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

## 569 6.2.6 PROCESSING

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

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

## 574 6.2.7 PUBLICATION

### 575 6.2.7.1 FILTERING AND SORTING CRITERIA

576 Data shall be visually accessed by selecting the following:

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

### 581 6.2.7.2 DISPLAY

582 This data shall be displayed in the following section:

#### 583 - Load / Actual Load

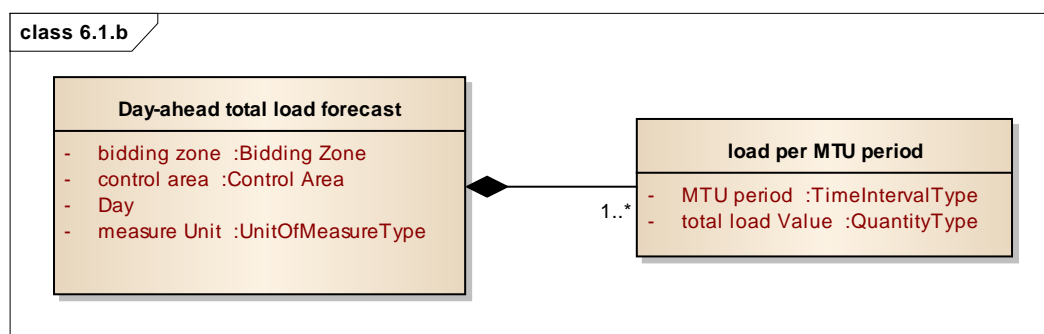
584 The following attributes of data shall be displayed:

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

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

### 6.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

### 6.3.2 PRE-CONFIGURATION

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

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

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

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

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

### 6.3.3 ASSUMPTIONS

There are no assumptions specific to this data item.

### 6.3.4 INTEGRATION

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

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

### 6.3.5 MONITORING

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

### 6.3.6 PROCESSING

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

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

### 6.3.7 PUBLICATION

#### 6.3.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country or Bidding Zone (selection is mandatory)

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

- Day (Selection is mandatory)

#### 6.3.7.2 DISPLAY

This data shall be displayed in the following section:

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

The following attributes of data shall be displayed:

- Title

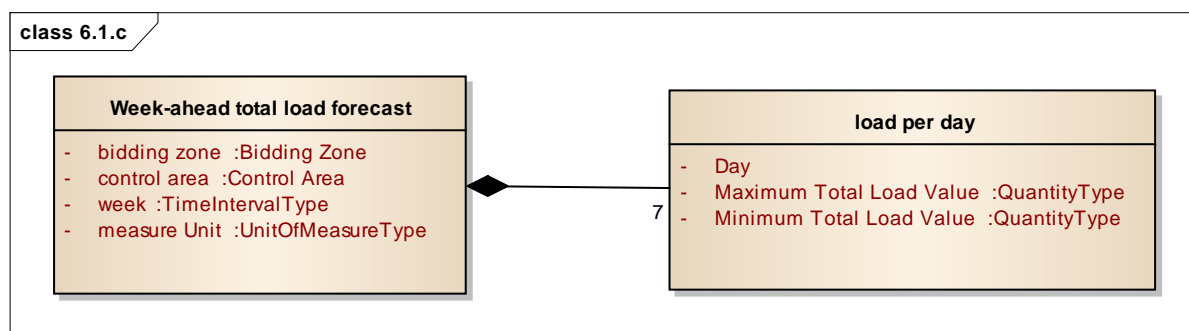
- Country, Bidding Zone or Control Area name

- 638 - Selected day
- 639 - Measurement Unit
- 640 - For each Market Time Unit period during the selected day, the forecast total load value
- 641

## 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.



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

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

### 668 6.4.3 ASSUMPTIONS

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

### 670 6.4.4 INTEGRATION

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

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

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

### 675 6.4.5 MONITORING

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

### 678 6.4.6 PROCESSING

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

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

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

### 688 6.4.7 PUBLICATION

#### 689 6.4.7.1 FILTERING AND SORTING CRITERIA

690 Data shall be visually accessed by selecting the following:

691 - Country or Bidding Zone (selection is mandatory)

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

694 - Week (Selection is mandatory)

#### 695 6.4.7.2 DISPLAY

696 This data shall be displayed in the following section:

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

698 The following attributes of data shall be displayed:

699 - Title

700 - Country, Bidding Zone or Control Area name

701 - Selected week

702 - Measurement Unit

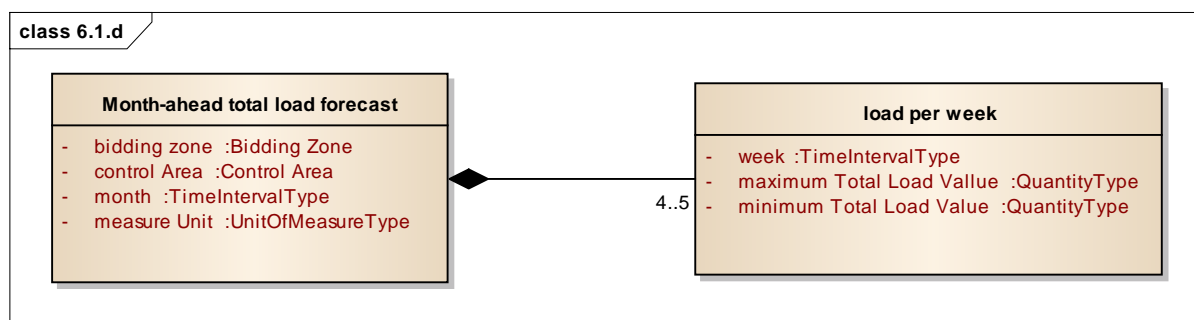
703 - For each day during the selected week, the forecast minimum total load value and  
704 maximum total load value

705

## 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

## 6.5.5 MONITORING

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

## 6.5.6 PROCESSING

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

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

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

## 6.5.7 PUBLICATION

### 6.5.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

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

### 6.5.7.2 DISPLAY

This data shall be displayed in the following section:

#### **- Load / Month-ahead forecast**

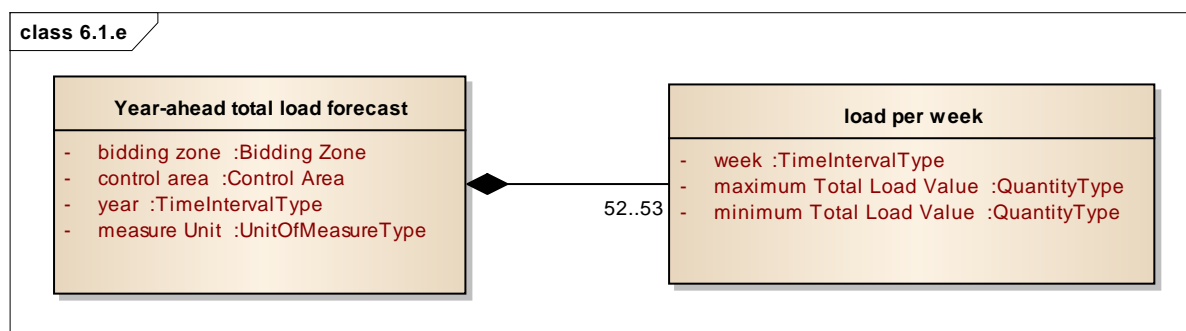
The following attributes of data shall be displayed:

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

## 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

## 778 6.6.5 MONITORING

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

## 781 6.6.6 PROCESSING

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

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

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

## 788 6.6.7 PUBLICATION

### 789 6.6.7.1 FILTERING AND SORTING CRITERIA

790 Data shall be visually accessed by selecting the following:

- 791 - Country or Bidding Zone (selection is mandatory)
- 792 - Control Area (selection is optional and available only when Bidding Zone consists of several  
793 Control Areas)
- 794 - Year (Selection is mandatory)

### 795 6.6.7.2 DISPLAY

796 This data shall be displayed in the following section:

#### 797 - Load / Year-ahead forecast

798 The following attributes of data shall be displayed:

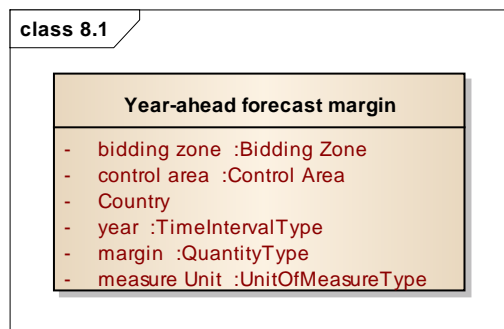
- 799 - Title
- 800 - Country, Bidding Zone or Control Area name
- 801 - Selected year
- 802 - Measurement Unit
- 803 - For each week within the selected year, the forecast minimum total load value and  
804 maximum total load value

805

## 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.

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

### 832 6.7.3 ASSUMPTIONS

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

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

### 840 6.7.4 INTEGRATION

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

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

### 844 6.7.5 MONITORING

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

### 847 6.7.6 PROCESSING

848 No further processing is performed on this data item.

### 849 6.7.7 PUBLICATION

#### 850 6.7.7.1 FILTERING AND SORTING CRITERIA

851 Data shall be visually accessed by selecting the following:

852 - Country or Bidding Zone (selection is mandatory)

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

855 - Year (Selection is mandatory)

#### 856 6.7.7.2 DISPLAY

857 This data shall be displayed in the following section:



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

859    The following attributes of data shall be displayed:

860    - Title

861    - Country, Bidding Zone or Control Area name

862    - Selected year

863    - Measurement Unit

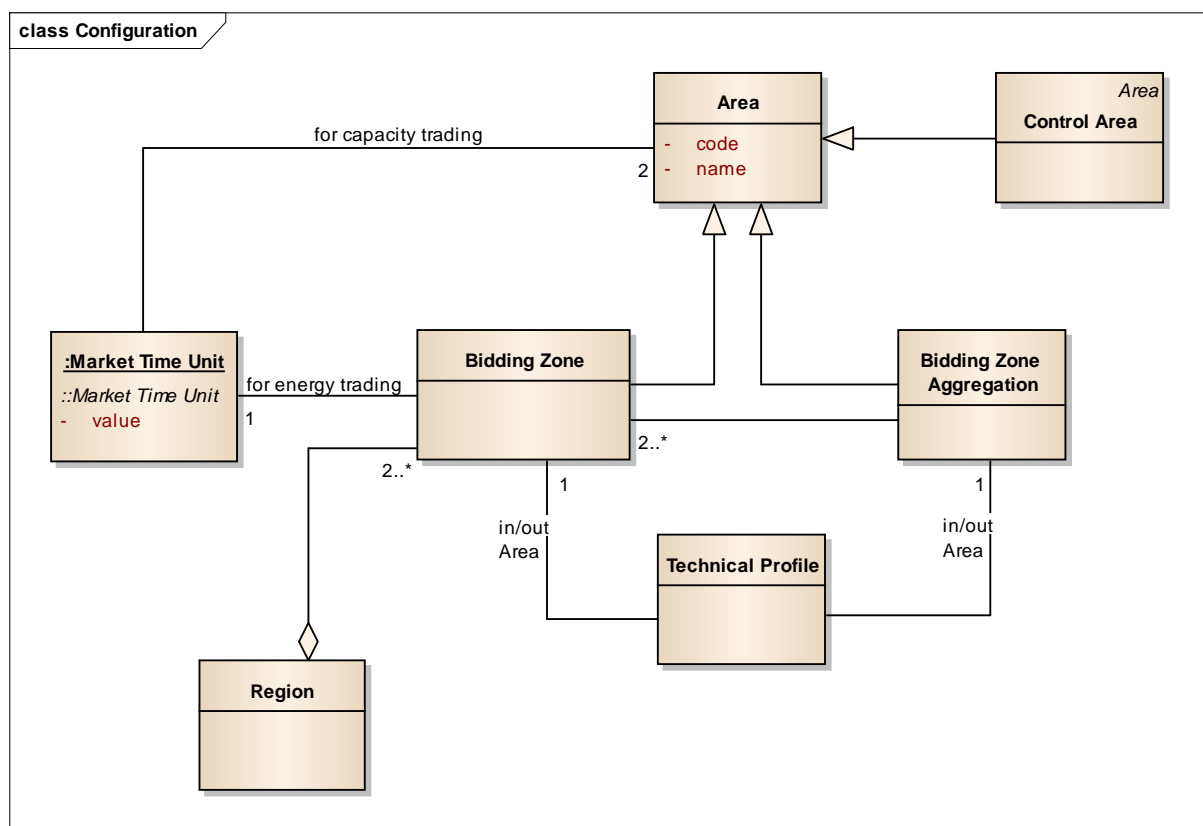
864    - For the year, the forecast margin value

## 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).
- A Region consists of two or more Bidding Zones.

<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.)

## 878 7.1.2 TRANSMISSION CAPACITY ALLOCATIONS

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

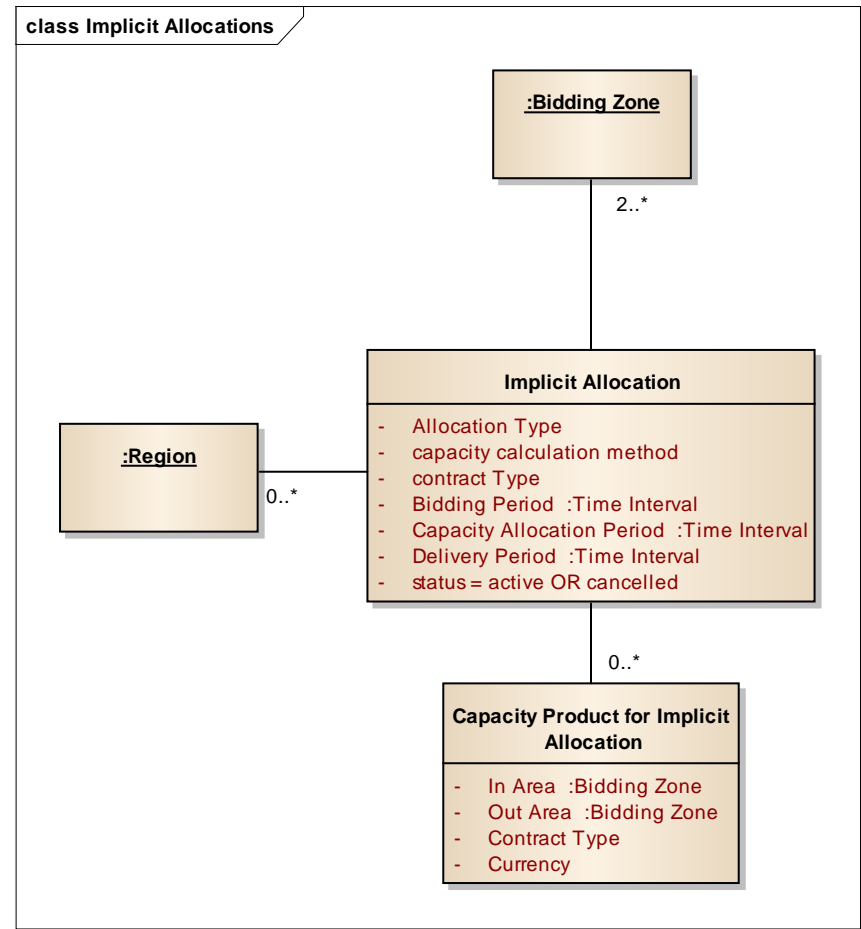
883 Both Implicit and Explicit Allocations present a Bidding Period, which is the time period where  
884 market participants can submit bids and a Capacity Allocation Period, which is the time  
885 period where the attribution of capacities to the participants is realised. The Bidding Period is  
886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

### 888 7.1.2.1 IMPLICIT ALLOCATIONS

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

---

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



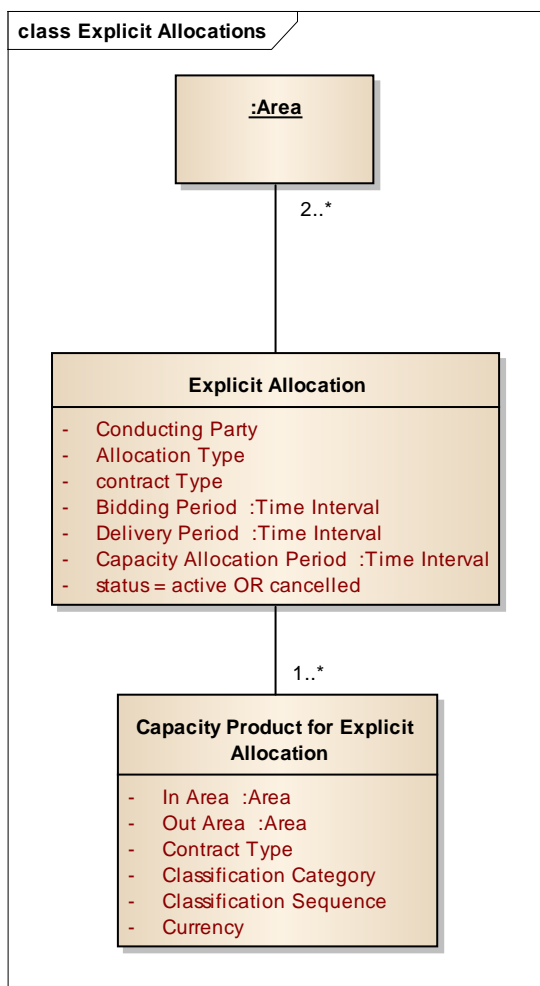
892

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

897 **7.1.2.2 EXPLICIT ALLOCATIONS**

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

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



900

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

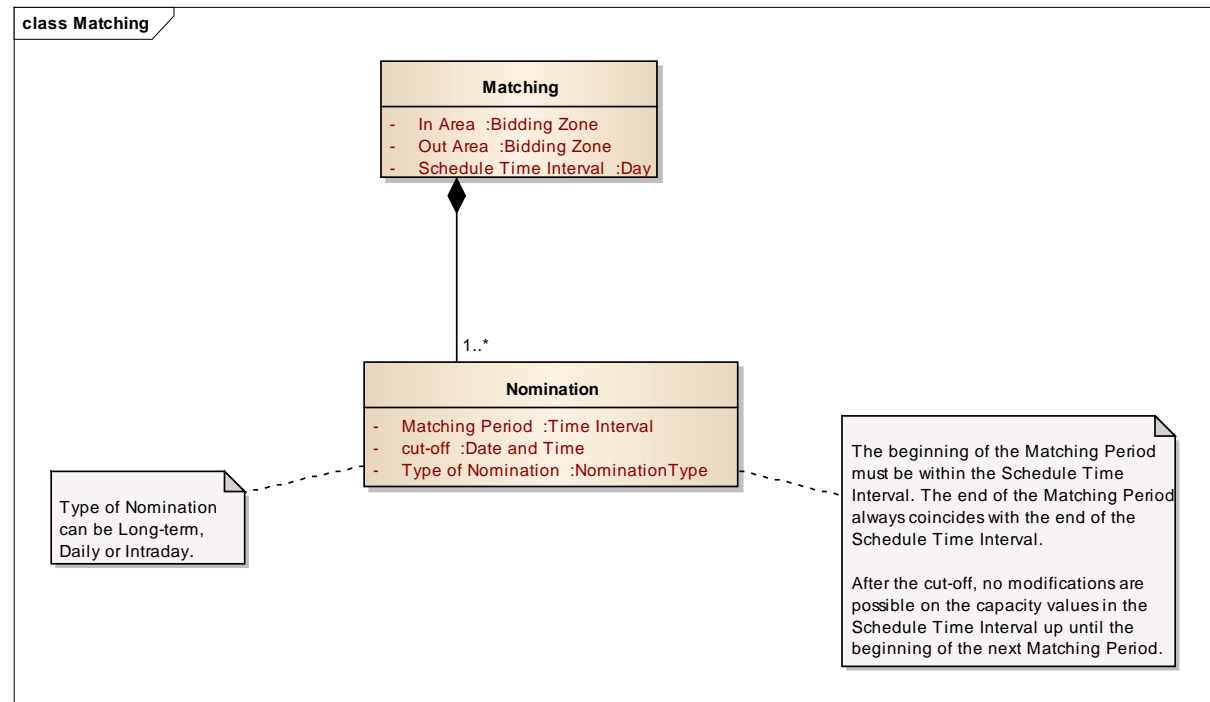
906 There are explicit allocations that formally speaking are not auctions and do not have a  
907 bidding period – this is typically the case when the contract type is intraday.

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

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

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

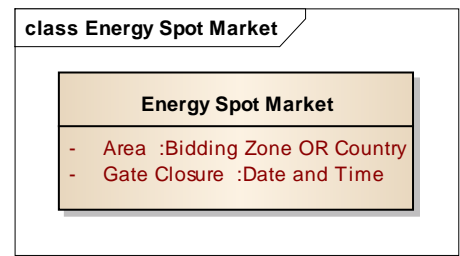
### 7.1.3 MATCHING



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

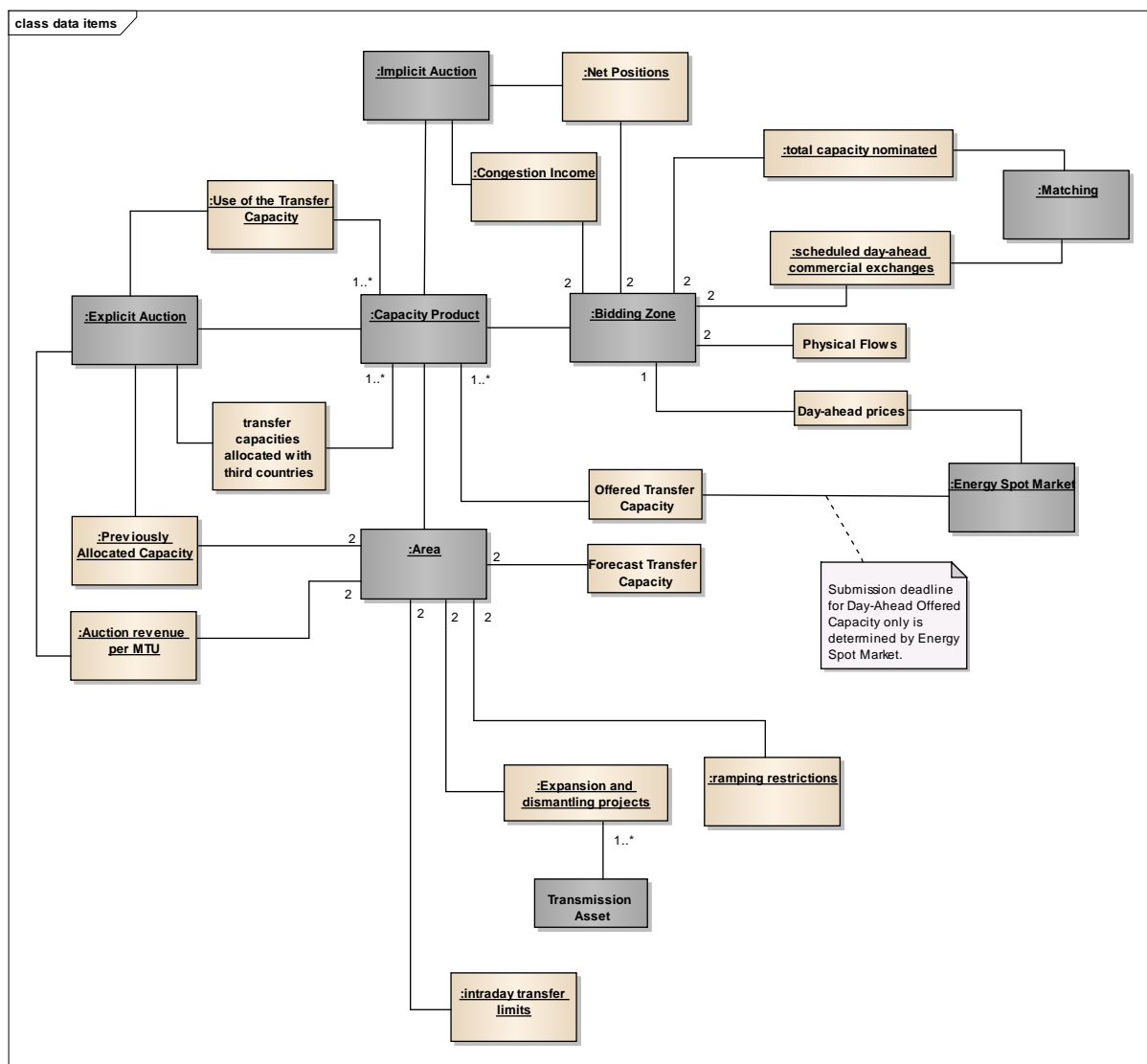
For a given couple of Bidding Zones and day (the Schedule Time Interval), the Matching Period represents the period of the Schedule for which matching process is completed. A Nominations process is considered finished for the Schedule Time Interval after the matching process is complete and until the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

### 7.1.4 ENERGY SPOT MARKET



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

## 932 7.1.5 DATA ITEMS



933

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

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

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

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

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

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

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

## 955 7.1.6 PRE-CONFIGURATION

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

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



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

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

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

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

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

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

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

#### 984 7.1.7 DATA CONTAINER STATUS / DATA STATUS

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

#### 988 7.1.8 PUBLICATION

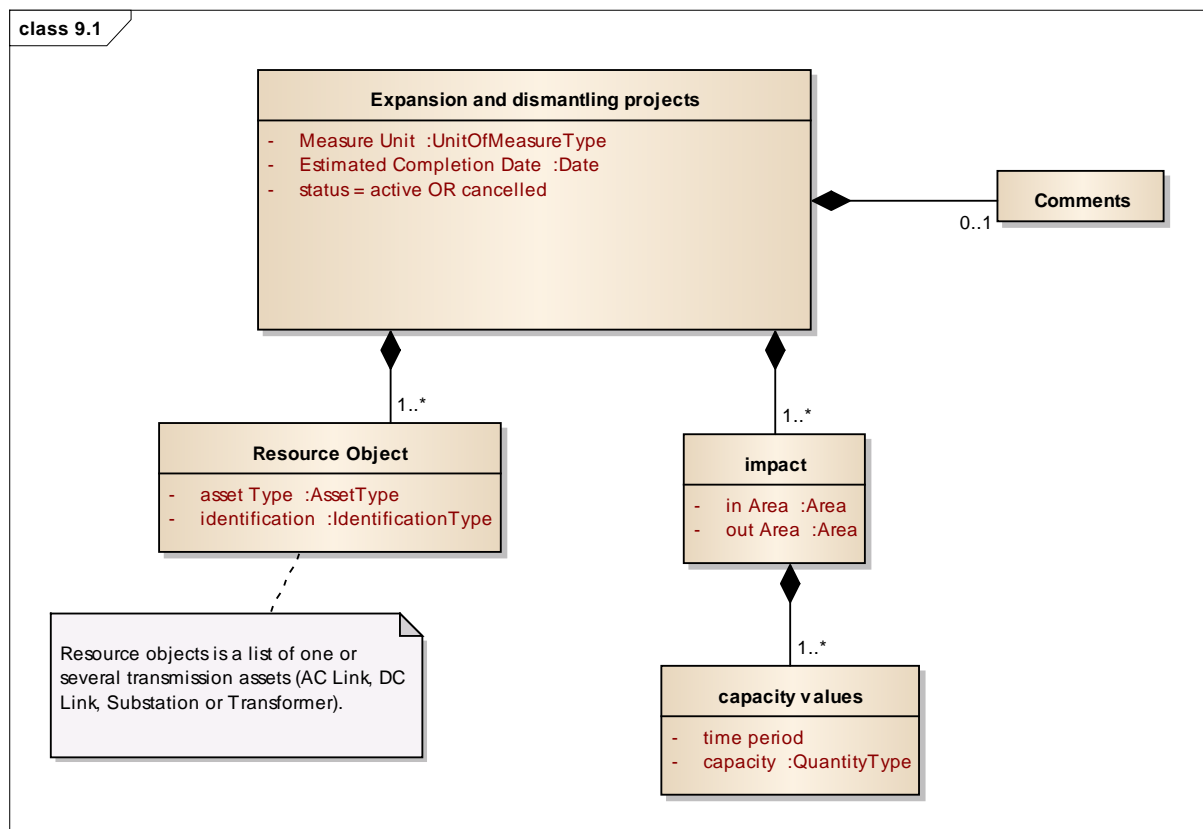
989 For all data items except the report data items [11.3] and [11.4], data shall be available on  
990 web site in all three formats; table, map and chart, unless explicitly stated otherwise in the  
991 chapters dedicated to each data item.

992

## 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.

## 1006 7.2.2 PRE-CONFIGURATION

- 1007 - A list of Area couples for which the data item "Expansion and Dismantling Projects"
- 1008 may be submitted
- 1009 - For each Area couple, one or several Data Providers

## 1010 7.2.3 ASSUMPTIONS

- 1011 Transmission Assets have been declared with the mechanism described in chapter 11.11.
- 1012 Monitoring is not feasible for this data item, since projects cannot be anticipated.
- 1013 If more than one Data Provider submits data for given border, those Data Providers will
- 1014 coordinate between themselves the submitted data. Single submission for all of ENTSO-E
- 1015 could also be coordinated at the level of ENTSO-E secretariat.

## 1016 7.2.4 INTEGRATION

- 1017 - Area couple shall be recognised by the platform
- 1018 - The Data Provider shall be consistent with the identified Area couple
- 1019 - Transmission Assets are recognised by platform
- 1020 - Estimated impact is equal to or greater than 100 MW (configurable)

## 1021 7.2.5 MONITORING

- 1022 Monitoring is not performed on this data item.

## 1023 7.2.6 PROCESSING

- 1024 No processing is performed by the platform on this data item.

## 1025 7.2.7 PUBLICATION

### 1026 7.2.7.1 PUBLICATION BEHAVIOUR

- 1027 Latest version shall be published, however previous versions shall remain available on
- 1028 platform.

### 1029 7.2.7.2 FILTERING AND SORTING CRITERIA

- 1030 End user shall be able to select data for display by specifying:

- 1031 - Country (optional - If selected, In and/or Out Areas that at least partially cover the Country  
1032 will be used as filtering criteria)
- 1033 - One or two Areas with direction (optional)
- 1034 - year or year range (mandatory)
- 1035 - status (optional)
- 1036 **7.2.7.3 DISPLAY**
- 1037 This data shall be displayed in the following section:
- 1038 Transmission / Expansion and dismantling projects
- 1039 The following attributes of data shall be displayed for all projects whose estimated  
1040 completion date falls within the selected year or year range:
- 1041 - Title
- 1042 - Unit of measurement (MW)
- 1043 - status (active or cancelled)
- 1044 - For each couple of Areas and direction, the estimated impact and the estimated date of  
1045 completion, and any comments. The concerned assets shall be published as a list, with links  
1046 to pages providing further details on each asset.
- 1047 Data shall be displayed in table format only.
- 1048

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

### 7.3.1 DATA DESCRIPTION

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

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

### 7.3.2 PRE-CONFIGURATION

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

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

### 7.3.3 ASSUMPTIONS

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

### 7.3.4 INTEGRATION

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

### 7.3.5 MONITORING

No monitoring is performed on this data item.

### 7.3.6 PROCESSING

No processing is performed on this data item.

## 1071 7.3.7 PUBLICATION

### 1072 7.3.7.1 PUBLICATION BEHAVIOUR

1073 Documents are published immediately after upload. All versions shall be published.

### 1074 7.3.7.2 FILTERING AND SORTING CRITERIA

1075 - Country or Control Area (mandatory)

1076 - Date range (optional)

### 1077 7.3.7.3 DISPLAY

1078 This data shall be displayed in the following section:

#### 1079 **Transmission / Expansion and dismantling projects (report)**

1080 Each report shall be available for download by clicking a link.

1081 For every report, the publication date and validity date range shall be displayed.

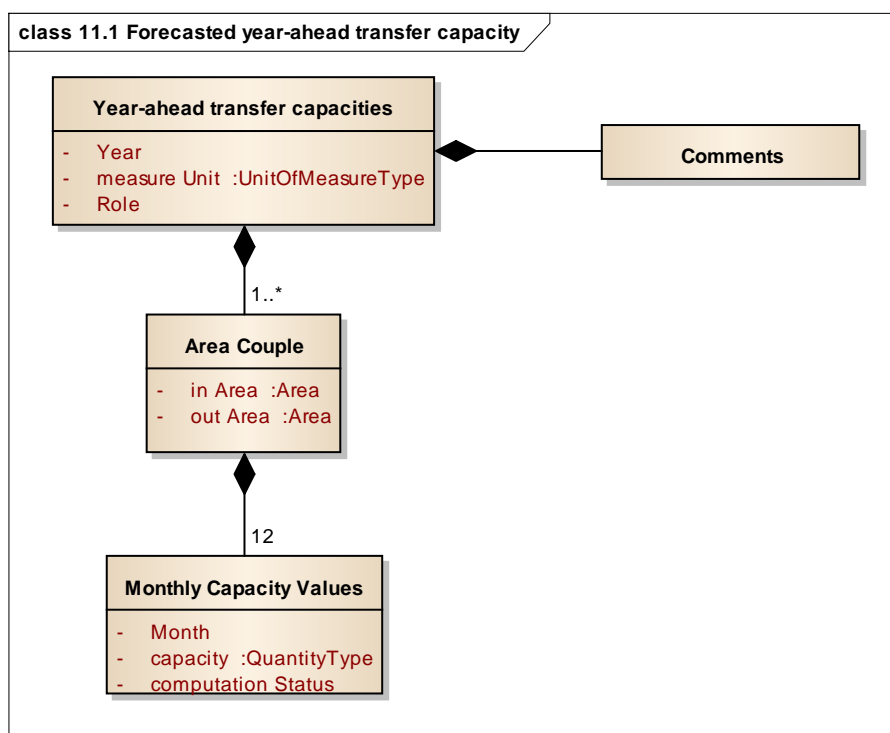
1082

## 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.

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

1098 - For each couple of Areas mentioned above, the yearly submission deadline:

1099 At the latest one week (W-1) before the yearly allocation process

1100 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*  
1101 *Zone, the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity*  
1102 *Allocation Period from 15<sup>th</sup> November 2012, 20:00 UTC until 18<sup>th</sup> November 22:00 UTC,*  
1103 *the document shall be submitted before November 8<sup>th</sup>, 2012, 20:00 UTC.*

1104 or

1105 at the latest December 15 the preceding year at 24:00 UTC.

1106 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1107 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1108 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*

### 1109 7.4.3 ASSUMPTIONS

1110 Values should be given per month, but a higher resolution is possible (up to the Market Time  
1111 Unit used by the couple of Areas).

1112 Submission can be done by multiple Data Providers.

### 1113 7.4.4 INTEGRATION

1114 - Areas shall be recognised by the platform

1115 - The Data Provider shall be consistent with pre-configuration described in 7.4.2

1116 - The time interval of the submitted document is one year

1117 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1118 7.4.5 MONITORING

1119 Platform shall monitor that forecasted yearly transfer capacity values are submitted for all  
1120 area couples declared in pre-configuration, see section 7.4.2, before the submission deadline  
1121 described in same section. If no data has been submitted, all declared Data Providers will be  
1122 notified.

### 1123 7.4.6 PROCESSING

1124 The following processing applies:

1125 - In case the resolution of the submitted document is higher than a month, the lowest value of  
1126 the submitted data should be calculated for each month. For example if data is submitted in  
1127 daily values a computation must be made to compute the lowest daily value for every given



1128 month of the submitted year. This makes it possible to compare this data with data submitted  
1129 with a monthly resolution.

1130 - Once values are computed per month, the platform must apply the following business rule  
1131 [PR-11.1], when processing submitted data for a given oriented couple of Areas and month  
1132 in order to determine whether data shall be marked as "minimum value" or "computed  
1133 minimum value".

1134 • If data is received for a given couple of Areas from a Data Provider the data will be  
1135 marked (computation status) as "minimum value".

1136 • If data is received for the same oriented couple of Areas, from a different Data  
1137 Provider the platform must compute the 'minimum' value from the two received values  
1138 and isolate this value as the value to be published with a "computed minimum value"  
1139 computation status. The previously marked "minimum value" computation status must  
1140 be deleted.

1141 • If data is marked as "minimum value" and the same Data Provider sends a new  
1142 version to the platform, the platform will consider this latest version for publication by  
1143 marking it as "minimum value" and delete the previous "minimum value" computation  
1144 status.

1145 • If data is computed and marked as "computed minimum value" and either Data  
1146 Provider involved sends a new version of the document, the platform must compute  
1147 the 'minimum' value from the received value and the value from the other Data  
1148 Provider and will isolate this value as the value to be published, with the "computed  
1149 minimum value" computation status. The "computed minimum value" computation  
1150 status must be deleted from the previous version of the value.

1151 • If data is received for a given couple of Areas from a Data Provider with the role  
1152 "Capacity Coordinator (CCrd) or "Transmission Capacity Allocator (TCA)", the data  
1153 will be marked as "computed minimum value".

1154 • If data is marked as "computed minimum value" and the Data Provider with the role  
1155 "CCrd" or "TCA" sends a new version to the platform, the platform will consider this  
1156 latest version of the information for display by marking it as "computed minimum  
1157 value" and delete from the previous version the "computed minimum value"  
1158 computation status.

1159

## 1160 7.4.7 PUBLICATION

### 1161 7.4.7.1 PUBLICATION BEHAVIOUR

1162 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1163 computation status. Data without any computation status shall not be published. This rule  
1164 takes precedence over the common rule which states that all versions of the data are  
1165 available on the platform.

### 1166 7.4.7.2 FILTERING AND SORTING CRITERIA

1167 Data shall be visually accessed by selecting the following:

1168 Year (Selection is mandatory)

1169 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1170 partially or completely cover the Country)

1171 Optionally, user may specify Area, couple of Areas and direction.

### 1172 7.4.7.3 DISPLAY

1173 This data shall be displayed in the following section:

#### 1174 - **Forecasted transfer capacities / year-ahead**

1175 The following attributes of data shall be displayed:

1176 - Title

1177 - Measurement Unit

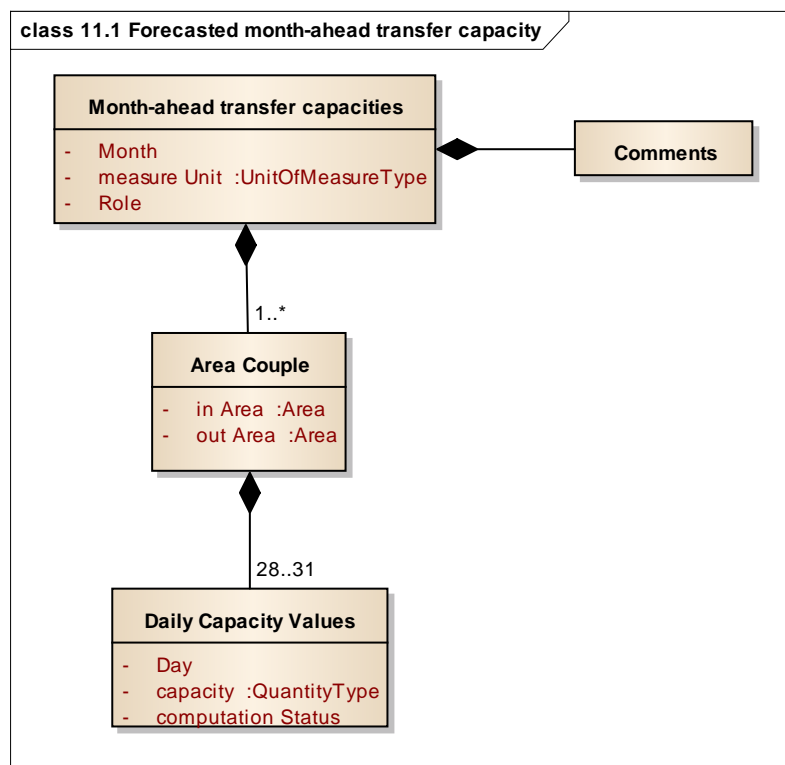
1178 - Comments

1179 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1180 each month within the selected year, the capacity value and its computation status  
1181

## 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

- 1198 - For each couple of Areas mentioned above, one or several Data Providers
- 1199 - For each couple of Areas mentioned above, the monthly submission deadline:
- 1200 For a given month, submission must be done at the latest two working days (D-2) before
- 1201 the monthly allocation process.
- 1202 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
- 1203 *Zone, the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a*
- 1204 *Capacity Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the*
- 1205 *document shall be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*

### 1206 7.5.3 ASSUMPTIONS

- 1207 Values should be given per day, but a higher resolution is possible (up to the Market Time
- 1208 Unit used by the couple of Areas).
- 1209 Submission can be done by multiple Data Providers.

### 1210 7.5.4 INTEGRATION

- 1211 - Areas shall be recognised by the platform
- 1212 - The Data Provider shall be consistent with pre-configuration described in 7.5.2
- 1213 - The time interval of the submitted document is one month
- 1214 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1215 7.5.5 MONITORING

- 1216 Platform shall monitor that forecasted monthly transfer capacity values are submitted for all
- 1217 area couples declared in pre-configuration, see section 7.5.2, before the submission deadline
- 1218 described in same section. If no data has been submitted, all declared Data Providers will be
- 1219 notified.

### 1220 7.5.6 PROCESSING

- 1221 The following processing applies:
- 1222 - In case the resolution of the submitted document is higher than a day, the lowest value of
- 1223 the submitted data should be calculated for each day. For example if data is submitted per
- 1224 MTU period a computation must be made to compute the lowest daily value for every given
- 1225 day of the submitted month. This makes it possible to compare this data with data submitted
- 1226 with a daily resolution.

1227 - Once values are computed per day, the platform must apply the business rule [PR-11.1],  
1228 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas  
1229 and day in order to determine whether data shall be marked as “minimum value” or  
1230 “computed minimum value”.

## 1231 7.5.7 PUBLICATION

### 1232 7.5.7.1 PUBLICATION BEHAVIOUR

1233 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1234 computation status. Data without any computation status shall not be published. This rule  
1235 takes precedence over the common rule which states that all versions of the data are  
1236 available on the platform.

### 1237 7.5.7.2 FILTERING AND SORTING CRITERIA

1238 Data shall be visually accessed by selecting the following:

1239 Month (Selection is mandatory)

1240 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1241 partially or completely cover the Country)

1242 Optionally, user may specify Area, couple of Areas and direction.

### 1243 7.5.7.3 DISPLAY

1244 This data shall be displayed in the following section:

#### 1245 - **Forecasted transfer capacities / month-ahead**

1246 The following attributes of data shall be displayed:

1247 - Title

1248 - Month

1249 - Measurement Unit

1250 - Comments

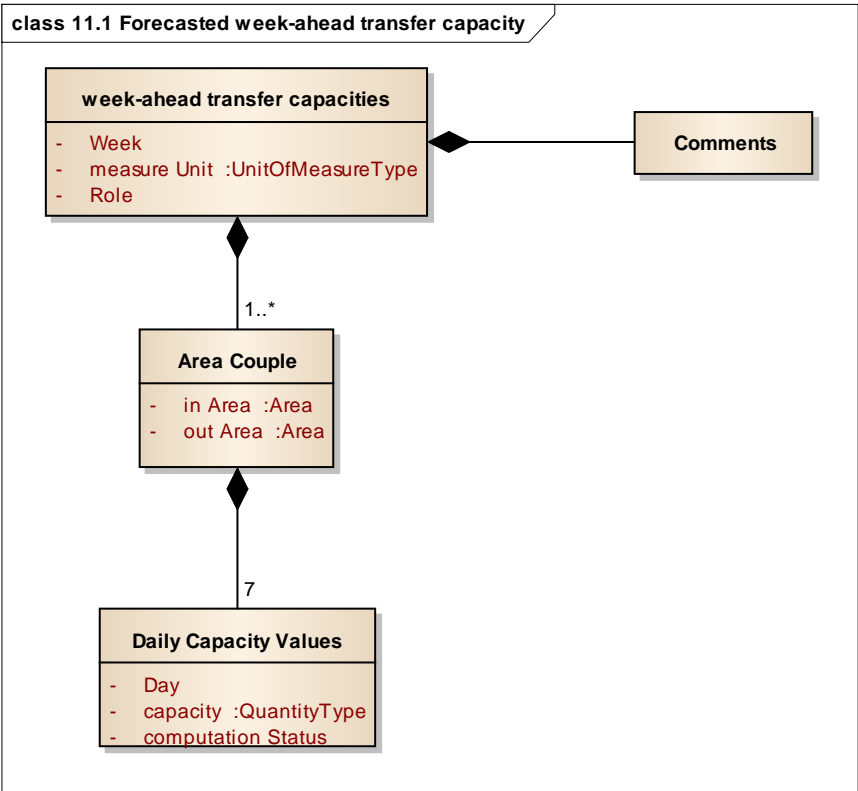
1251 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1252 each day within the selected month the capacity value and its computation status  
1253

# 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

- 1269 - For each couple of Areas mentioned above, one or several Data Providers
- 1270 - For each couple of Areas mentioned above, the weekly submission deadline: Friday before  
1271 the week for which values refer to.
- 1272 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*  
1273 *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>*  
1274 *of March), the document shall be submitted before Friday March 9<sup>th</sup>, 2012, 24:00 UTC.*

### 1275 7.6.3 ASSUMPTIONS

- 1276 Values should be given per day, but a higher resolution is possible (up to the Market Time  
1277 Unit used by the couple of Areas).
- 1278 Submission can be done by multiple Data Providers.

### 1279 7.6.4 INTEGRATION

- 1280 - Areas shall be recognised by the platform
- 1281 - The Data Provider shall be consistent with pre-configuration described in 7.6.2
- 1282 - The time interval of the submitted document is one week
- 1283 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1284 7.6.5 MONITORING

- 1285 Platform shall monitor that forecasted weekly transfer capacity values are submitted for all  
1286 area couples declared in pre-configuration, see section 7.6.2, before the submission deadline  
1287 described in same section. If no data is submitted, all declared Data Providers will be  
1288 notified.

### 1289 7.6.6 PROCESSING

- 1290 The following processing applies:
- 1291 - In case the resolution of the submitted document is higher than a day, the lowest value of  
1292 the submitted data should be calculated for each day. For example if data is submitted in  
1293 hourly values a computation must be made to compute the lowest hourly value for every  
1294 given day of the submitted week. This makes it possible to compare this data with data  
1295 submitted with a daily resolution.
- 1296 - Once values are computed per day, the platform must apply the business rules [PR-11.1],  
1297 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas  
1298 and day in order to determine whether data shall be marked as “minimum value” or  
1299 “computed minimum value”.

## 1300 7.6.7 PUBLICATION

### 1301 7.6.7.1 PUBLICATION BEHAVIOUR

1302 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1303 computation status. Data without any computation status shall not be published. This rule  
1304 takes precedence over the common rule which states that all versions of the data are  
1305 available on the platform.

### 1306 7.6.7.2 FILTERING AND SORTING CRITERIA

1307 Data shall be visually accessed by selecting the following:

1308 Week (Selection is mandatory)

1309 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1310 partially or completely cover the Country)

1311 Optionally, user may specify Area, couple of Areas and direction.

### 1312 7.6.7.3 DISPLAY

1313 This data shall be displayed in the following section:

#### 1314 - **Forecasted transfer capacities / week-ahead**

1315 The following attributes of data shall be displayed:

1316 - Title

1317 - Week

1318 - Measurement Unit

1319 - Comments

1320 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1321 each day within the week the capacity value and its computation status  
1322

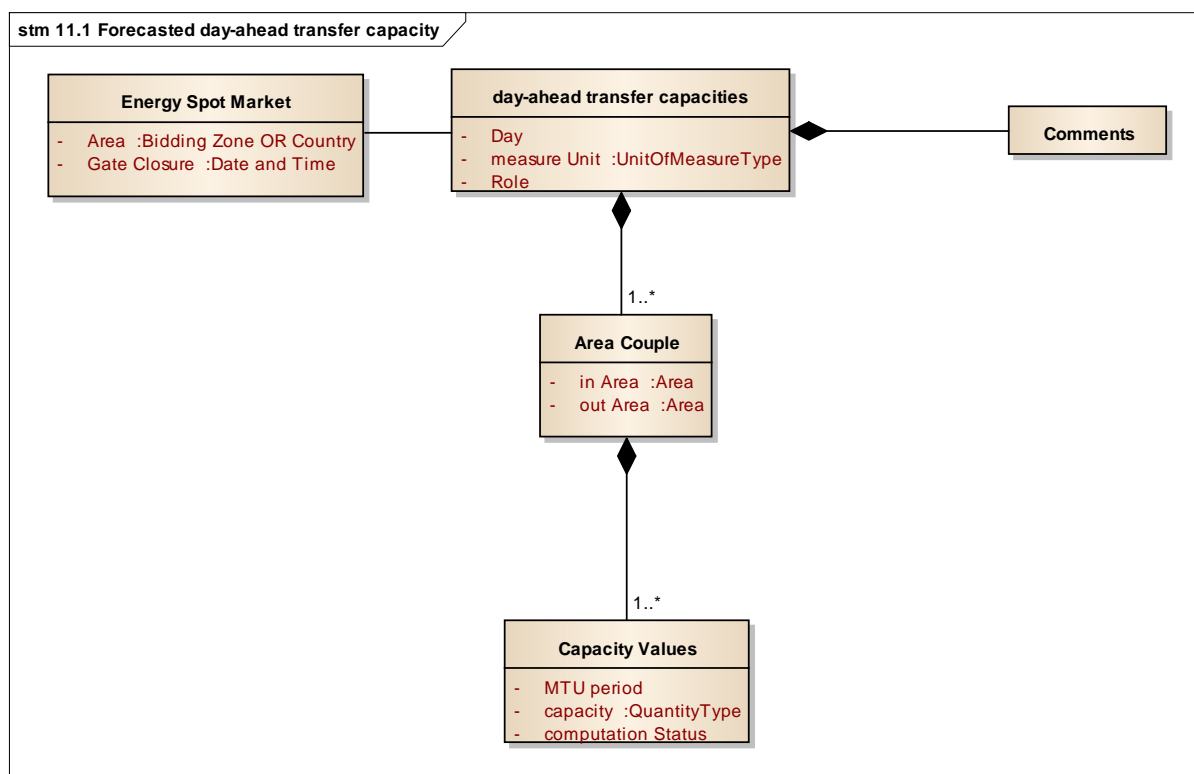


## 7.7 FORECASTED DAY-AHEAD TRANSFER CAPACITIES

### [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

1339 - For each couple of Areas mentioned above, one or several Data Providers

1340 - For each couple of Areas mentioned above, the daily submission deadline: 1 hour before  
1341 spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of energy  
1342 spot markets.

1343 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1344 *and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval of*  
1345 *March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00 UTC.*

### 1346 7.7.3 ASSUMPTIONS

1347 Submission can be done by multiple Data Providers.

### 1348 7.7.4 INTEGRATION

1349 - Areas shall be recognised by the platform

1350 - The Data Provider shall be consistent with pre-configuration described in 7.6.2

1351 - The time interval of the submitted document is one day

1352 - Role of Data Provider is recognised, as per [C-TRM-12]

### 1353 7.7.5 MONITORING

1354 Platform shall monitor that forecasted daily transfer capacity values are submitted for all area  
1355 couples declared in pre-configuration, see section 7.6.2, before the submission deadline  
1356 described in same section. If no data is submitted, all declared Data Providers will be  
1357 notified.

### 1358 7.7.6 PROCESSING

1359 The platform must apply the business rules [PR-11.1], refer to chapter 7.4.6, when  
1360 processing submitted data for a given oriented couple of Areas and day in order to determine  
1361 whether data shall be marked as “minimum value” or “computed minimum value”.

### 1362 7.7.7 PUBLICATION

#### 1363 7.7.7.1 PUBLICATION BEHAVIOUR

1364 Data to be published shall be marked with a “minimum value” or “computed minimum value”  
1365 computation status. Data without any computation status shall not be published. This rule  
1366 takes precedence over the common rule which states that all versions of the data are  
1367 available on the platform.

## 1368 7.7.7.2 FILTERING AND SORTING CRITERIA

1369 Data shall be visually accessed by selecting the following:

1370 Day (Selection is mandatory)

1371 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1372 partially or completely cover the Country)

1373 Optionally, user may specify Area, couple of Areas and direction.

## 1374 7.7.7.3 DISPLAY

1375 This data shall be displayed in the following section:

### 1376 - **Forecasted transfer capacities / day-ahead**

1377 The following attributes of data shall be displayed:

1378 - Title

1379 - Day

1380 - Measurement Unit

1381 - Comments

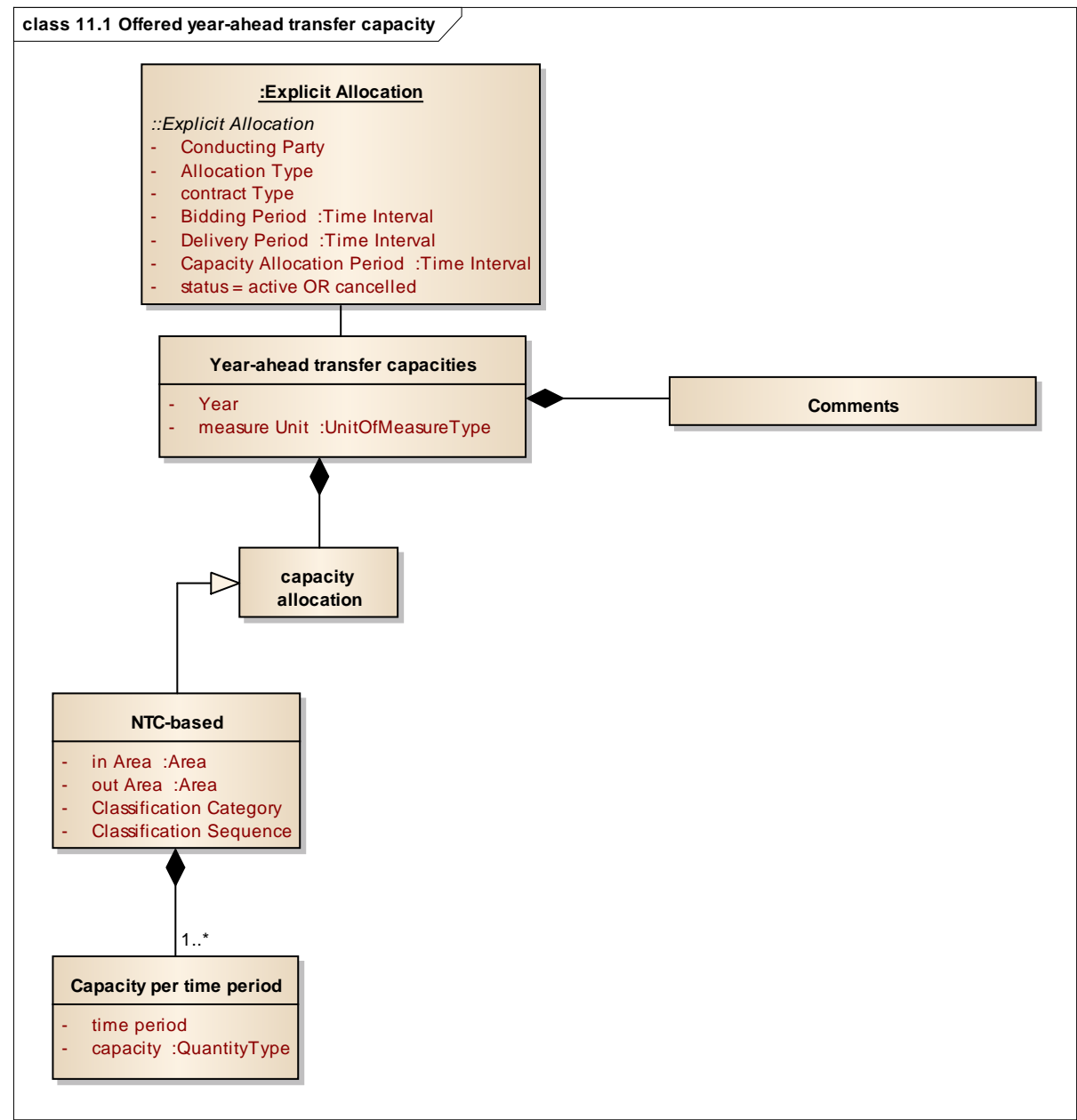
1382 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1383 each MTU period within the day the capacity value and its computation status  
1384

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.

- 1391 Yearly offered transfer capacities are associated with a yearly explicit transmission auction.
- 1392 Offered year-ahead transfer capacities are described between an In Area (the Area flows  
1393 come into) and an out Area (the Area flows come out), for one year, with a single capacity  
1394 value for the whole year expressed in Measure Unit.
- 1395 Capacity values are submitted separately per Classification Category and Classification  
1396 Sequence.
- 1397 Optionally, offered year-ahead transfer capacities can be complemented with comments.
- 1398 **Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.

## 1399 7.8.2 PRE-CONFIGURATION

- 1400 - Year-ahead transfer capacities are expected for all couples of Areas covered by a yearly  
1401 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1402 auction's capacity products.
- 1403 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1404 configuration. Refer to chapter 7.28.1.3 for details.
- 1405 The submission deadline is one week (W-1) before the yearly allocation process, but no later  
1406 than the 15<sup>th</sup> of December. Therefore, there shall be a default submission deadline set to one  
1407 week before the start of the yearly auction's capacity allocation period. Additionally, it must  
1408 be possible to specify another deadline that supersedes the default.
- 1409 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*  
1410 *Zone, the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity*  
1411 *Allocation Period from November 2012, 15<sup>th</sup> 20:00 UTC to 18<sup>th</sup> 22:00 UTC, the document*  
1412 *shall be submitted before November 8<sup>th</sup>, 2012, 20:00 UTC.*
- 1413 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*  
1414 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*  
1415 *submitted before December 15<sup>th</sup>, 2012, 24:00 UTC.*
- 1416 The submission deadline is the same for all area couples covered by the auction's  
1417 capacity products.

## 1418 7.8.3 ASSUMPTIONS

- 1419 A single value should be provided for the whole year, but a higher resolution is possible (up  
1420 to the Market Time Unit used by the couple of Areas).
- 1421 There is not more than one Data Provider per auction instance.

## 1422 7.8.4 INTEGRATION

- 1423 - Areas shall be recognised by the platform
- 1424 - The Data Provider shall be consistent with the auction configuration
- 1425 - The time interval of the submitted document is one year

## 1426 7.8.5 MONITORING

- 1427 For a given instance of an auction, platform shall monitor that offered transfer capacity
- 1428 values are submitted for all area couples as deduced from the auction's capacity products.
- 1429 The submission deadline described in section 7.8.2 will be monitored.
- 1430 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
- 1431 Classification Categories and Classification Sequences).

## 1432 7.8.6 PROCESSING

- 1433 No processing is performed on this data item.

## 1434 7.8.7 PUBLICATION

### 1435 7.8.7.1 PUBLICATION BEHAVIOUR

- 1436 No specific publication behaviour applies.

### 1437 7.8.7.2 FILTERING AND SORTING CRITERIA

- 1438 Data shall be visually accessed by selecting the following:
- 1439 Year (Selection is mandatory)
- 1440 Country (selection is optional: If selected, Areas will be filtered to include only those that
- 1441 partially or completely cover the Country)
- 1442 Optionally, user may specify Area, couple of Areas and direction.

### 1443 7.8.7.3 DISPLAY

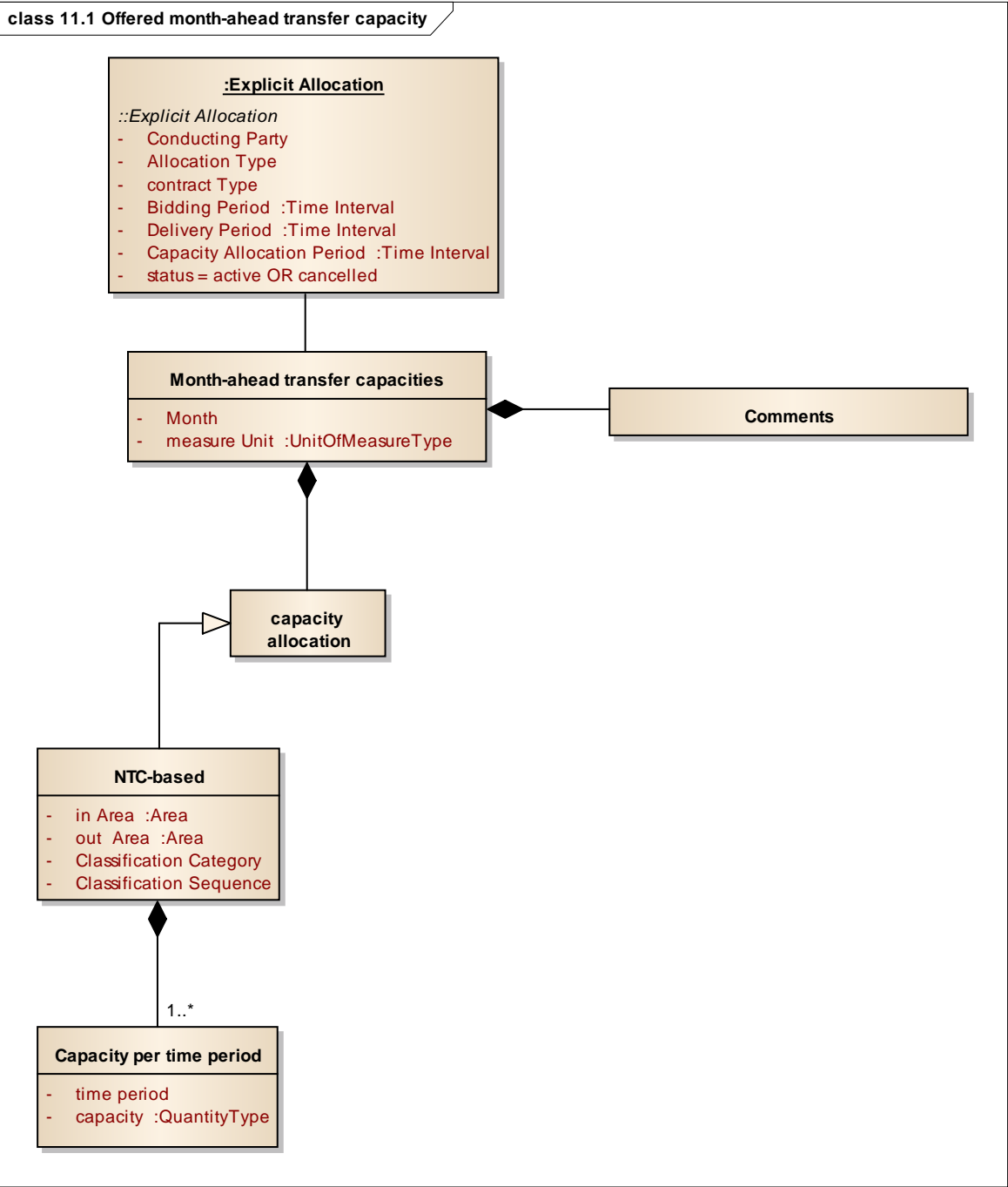
- 1444 This data shall be displayed in the following section:
- 1445 - **offer of transfer capacities / year-ahead**
- 1446 The following attributes of data shall be displayed:
- 1447 - Title

- 1448 - Measurement Unit
- 1449 - Comments
- 1450 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1451 capacity value (for every classification category and classification sequence)
- 1452 If capacity values vary during the year, it shall be possible to expand the view so that they  
1453 are displayed as a curve and in a table.
- 1454

7.9 OFFERED MONTH-AHEAD TRANSFER CAPACITIES  
[11.1]

7.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:





- 1460 The document shall cover the offered capacities related to one auction only.
- 1461 Monthly offered transfer capacities are associated with a monthly explicit transmission  
1462 auction.
- 1463 Offered month-ahead transfer capacities are described between an In Area (the Area flows  
1464 come into) and an out Area (the Area flows come out from), for one month, with a single  
1465 capacity value expressed in Measure Unit.
- 1466 Capacity values are submitted separately per Classification Category and Classification  
1467 Sequence.
- 1468 Optionally, offered month-ahead transfer capacities can be complemented with comments.
- 1469 **Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

## 1470 7.9.2 PRE-CONFIGURATION

- 1471 - Month-ahead offered transfer capacities are expected for all couples of Areas covered by a  
1472 monthly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration  
1473 of an auction's capacity products.
- 1474 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1475 configuration. Refer to chapter 7.28.1.3 for details.
- 1476 For a given month, submission must be done at the latest two working days (D-2) before  
1477 the start of the Allocation Period of the associated monthly explicit auction bidding.
- 1478 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*  
1479 *Zone, the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a*  
1480 *Capacity Allocation Period from March 15<sup>th</sup> 20:00 UTC to March 18<sup>th</sup> 20:00 UTC, the*  
1481 *document shall be submitted before March 13<sup>th</sup>, 2012, 20:00 UTC.*
- 1482 The submission deadline applies to all area couples covered by the auction.

## 1483 7.9.3 ASSUMPTIONS

- 1484 A single value should be given for the whole month, but a higher resolution is possible (up to  
1485 the Market Time Unit used by the couple of Areas).
- 1486 There is not more than one Data Provider per auction instance.

## 1487 7.9.4 INTEGRATION

- 1488 - Areas shall be recognised by the platform
- 1489 - The Data Provider shall be consistent with the auction configuration

1490 - The time interval of the submitted document is one month

## 1491 7.9.5 MONITORING

1492 For a given instance of an auction, platform shall monitor that offered transfer capacity  
1493 values are submitted for all area couples as deduced from the auction's capacity products.  
1494 There is a submission deadline as described in section 7.9.2.

1495 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1496 Classification Categories and Classification Sequences).

## 1497 7.9.6 PROCESSING

1498 No processing is performed on this data item.

## 1499 7.9.7 PUBLICATION

### 1500 7.9.7.1 PUBLICATION BEHAVIOUR

1501 No specific publication behaviour applies.

### 1502 7.9.7.2 FILTERING AND SORTING CRITERIA

1503 Data shall be visually accessed by selecting the following:

1504 Month (Selection is mandatory)

1505 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1506 partially or completely cover the Country)

1507 Optionally, user may specify Area, couple of Areas and direction.

### 1508 7.9.7.3 DISPLAY

1509 This data shall be displayed in the following section:

1510 - **offer of transfer capacities / month-ahead**

1511 The following attributes of data shall be displayed:

1512 - Title

1513 - Month

1514 - Measurement Unit

1515 - Comments

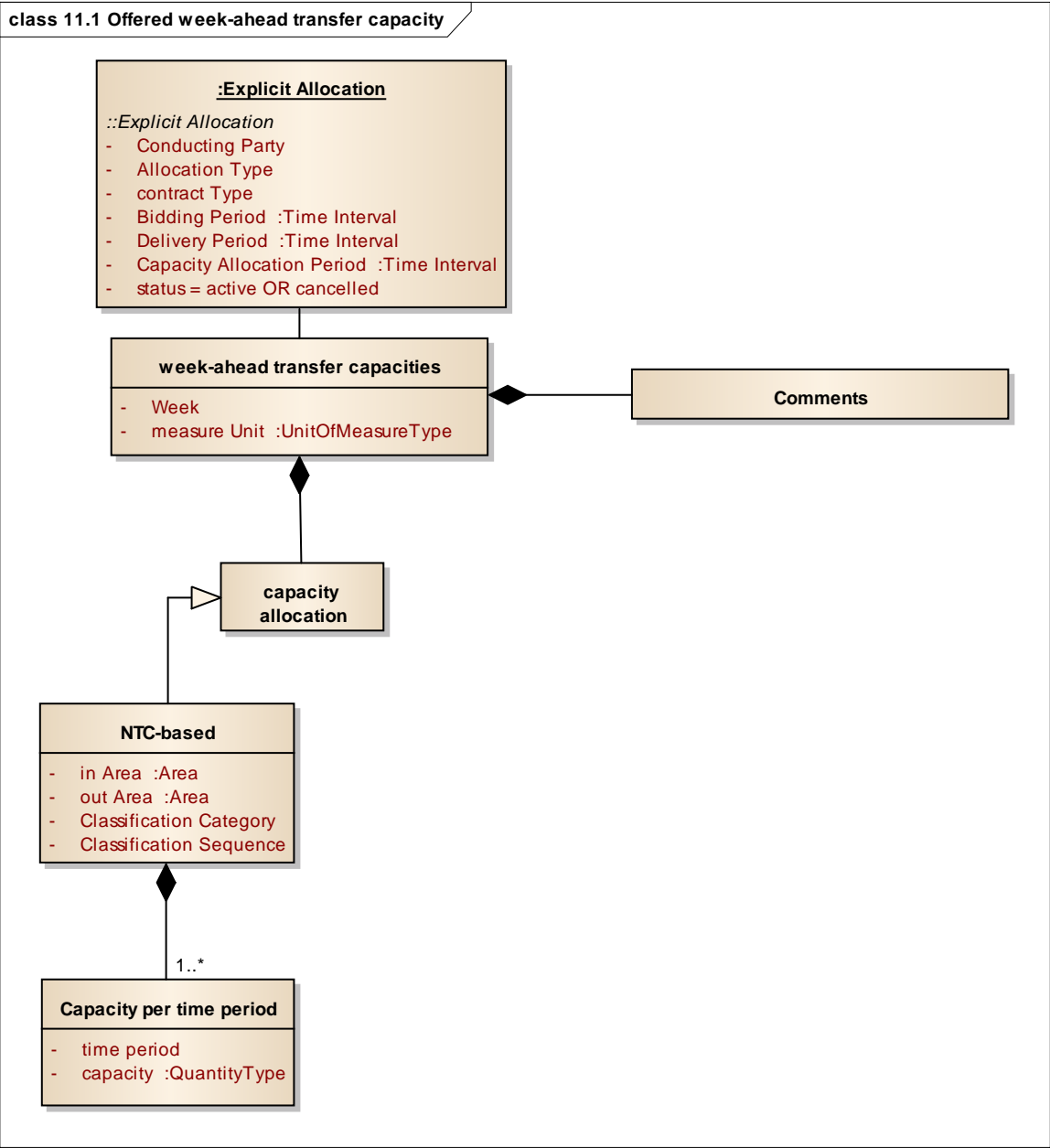
- 1516 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1517 capacity value (for every classification category and classification sequence)
- 1518 If capacity values vary during the month, it shall be possible to expand the view so that they  
1519 are displayed as a curve and in a table.

7.10 OFFERED WEEK-AHEAD TRANSFER CAPACITIES

[11.1]

7.10.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

1526 Weekly offered transfer capacities are associated with a weekly explicit transmission auction.

1527 Offered week-ahead transfer capacities are described between an In Area (the Area flows  
1528 come into) and an out Area (the Area flows come out from), for one week, with a single  
1529 capacity value for the whole week expressed in Measure Unit.

1530 Capacity values are submitted separately per Classification Category and Classification  
1531 Sequence.

1532 Optionally, offered week-ahead transfer capacities can be complemented with comments.

1533 **Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

## 1534 7.10.2 PRE-CONFIGURATION

1535 - Week-ahead offered transfer capacities are expected for all couples of Areas covered by a  
1536 weekly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration  
1537 of an auction's capacity products.

1538 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1539 configuration. Refer to chapter 7.28.1.3 for details.

1540 - The submission deadline for offered week-ahead transfer capacity is one day (D-1) before  
1541 the weekly allocation process:

1542 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*  
1543 *Zone, the weekly capacity allocation period starts on Friday 10:00 UTC and the week for*  
1544 *which offers are to be provided is Week 11, 2012 (12<sup>th</sup> of March to 18<sup>th</sup> of March), the*  
1545 *document shall be submitted before Thursday March 8<sup>th</sup>, 2012, 10:00 UTC.*

1546 The submission deadline is the same for all couples of Areas covered by the auction's  
1547 capacity products.

## 1548 7.10.3 ASSUMPTIONS

1549 A single value should be provided for the whole week, but a higher resolution is possible (up  
1550 to the Market Time Unit used by the couple of Areas).

1551 There is not more than one Data Provider per auction instance.

## 1552 7.10.4 INTEGRATION

1553 - Areas shall be recognised by the platform

1554 - The Data Provider shall be consistent with the capacity allocation configuration

1555 - The time interval of the submitted document is one week

## 1556 7.10.5 MONITORING

1557 For a given instance of an auction, platform shall monitor that offered transfer capacity  
1558 values are submitted for all area couples as deduced from the auction's capacity products.  
1559 The submission deadline described in section 7.10.2 will be monitored.

1560 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1561 Classification Categories and Classification Sequences).

## 1562 7.10.6 PROCESSING

1563 No processing is performed on this data item.

## 1564 7.10.7 PUBLICATION

### 1565 7.10.7.1 PUBLICATION BEHAVIOUR

1566 No specific publication behaviour applies.

### 1567 7.10.7.2 FILTERING AND SORTING CRITERIA

1568 Data shall be visually accessed by selecting the following:

1569 Week (Selection is mandatory)

1570 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1571 partially or completely cover the Country)

1572 Optionally, user may specify Area, couple of Areas and direction.

### 1573 7.10.7.3 DISPLAY

1574 This data shall be displayed in the following section:

#### 1575 - offer of transfer capacities / week-ahead

1576 The following attributes of data shall be displayed:

1577 - Title

1578 - Week

1579 - Measurement Unit

1580 - Comments

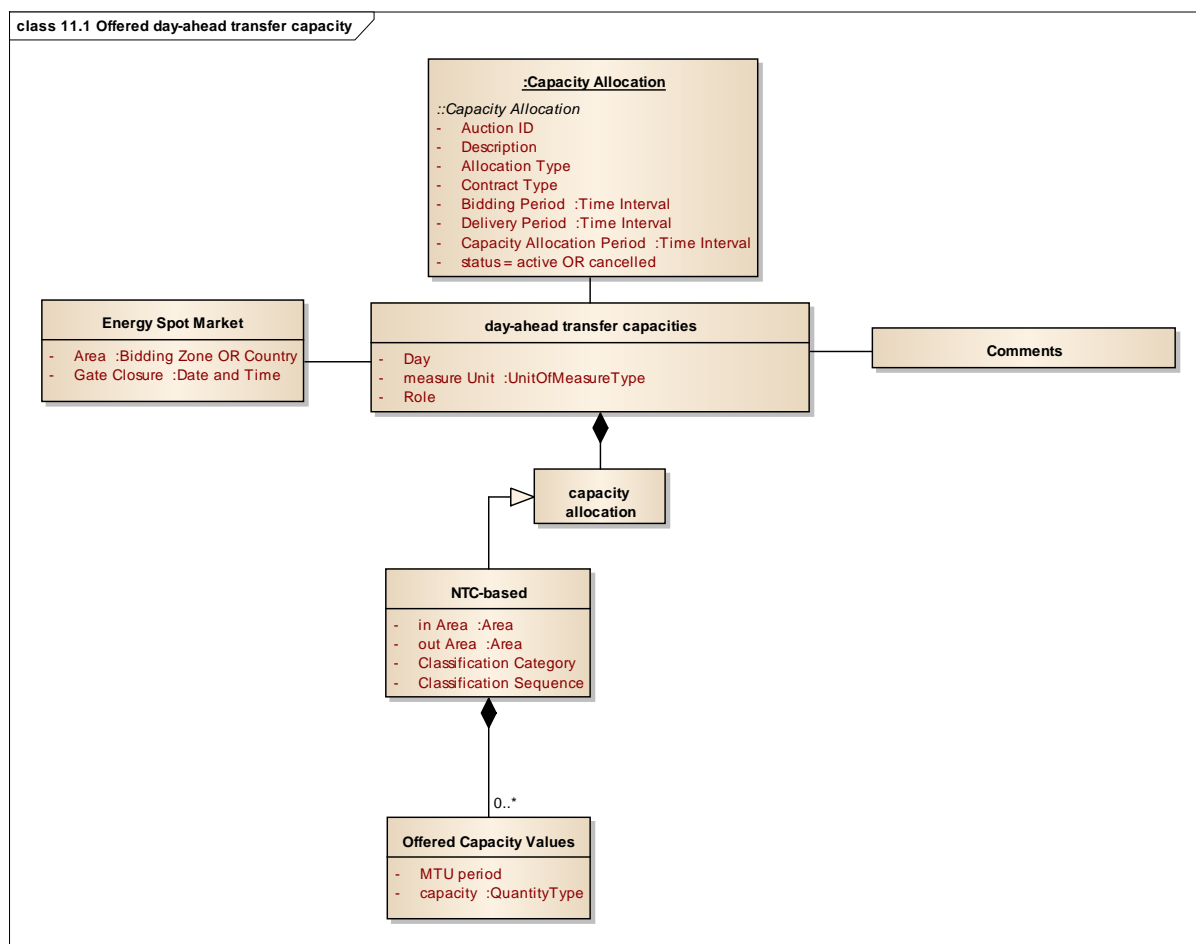
1581 - For each oriented couple of Areas the following data is repeated: Areas, direction and the  
1582 capacity value (for every classification category and classification sequence)

- 1583 If capacity values vary during the week, it shall be possible to expand the view so that they  
1584 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).



1598 NTC-based values are applicable between two Areas.

1599 Optionally, Offered day-ahead transfer capacity can be complemented with comments.

1600 In some situations there may not be any capacity values to submit because of no allocation  
1601 on a specific day.

## 1602 7.11.2 PRE-CONFIGURATION

1603 - Day-ahead transfer capacities are expected for all couples of Areas covered by a daily  
1604 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an  
1605 auction's capacity products.

1606 - For each Auction, the Data Provider is the one indicated in the capacity allocation  
1607 configuration. Refer to chapter 7.28.1.3 for details.

1608 The submission deadline for offered day-ahead transfer capacity is 1 hour (H-1) before  
1609 energy spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of  
1610 energy spot markets.

1611 *Example: if the oriented couple of Areas is France Bidding Area to Germany Bidding*  
1612 *Area, and if spot energy market gate closure is 10:00 UTC March 12<sup>th</sup> for the time interval*  
1613 *of March 13<sup>th</sup>, 2012, the document shall be submitted before March 12<sup>th</sup>, 2012, 09:00*  
1614 *UTC.*

## 1615 7.11.3 ASSUMPTIONS

1616 There is not more than one Data Provider per auction instance.

1617 The deadline determined by spot market gate closure is the same for In Area and Out Area.

## 1618 7.11.4 INTEGRATION

1619 - Areas shall be recognised by the platform

1620 - The Data Provider shall be consistent with the auction configuration

1621 - The time interval of the submitted document is one day

## 1622 7.11.5 MONITORING

1623 For a given instance of an auction, platform shall monitor that transfer capacity values are  
1624 submitted for all area couples as deduced from the auction's capacity products. The  
1625 submission deadline as described in section 7.11.2 will be monitored.

1626 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1627 Classification Categories and Classification Sequences). This is applicable for explicit  
1628 auctions.

#### 1629 7.11.6 PROCESSING

1630 No processing is performed on this data item.

#### 1631 7.11.7 PUBLICATION

##### 1632 7.11.7.1 PUBLICATION BEHAVIOUR

1633 No specific publication behaviour applies.

##### 1634 7.11.7.2 FILTERING AND SORTING CRITERIA

1635 Data shall be visually accessed by selecting the following:

1636 Day (Selection is mandatory)

1637 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1638 partially or completely cover the Country)

1639 Optionally, user may specify Area, couple of Areas and direction.

##### 1640 7.11.7.3 DISPLAY

1641 This data shall be displayed in the following section:

##### 1642 - offer of transfer capacities / Day-ahead

1643 The following attributes of data shall be displayed:

1644 - Title

1645 - Day selection

1646 - Measurement Unit

1647 - Comments

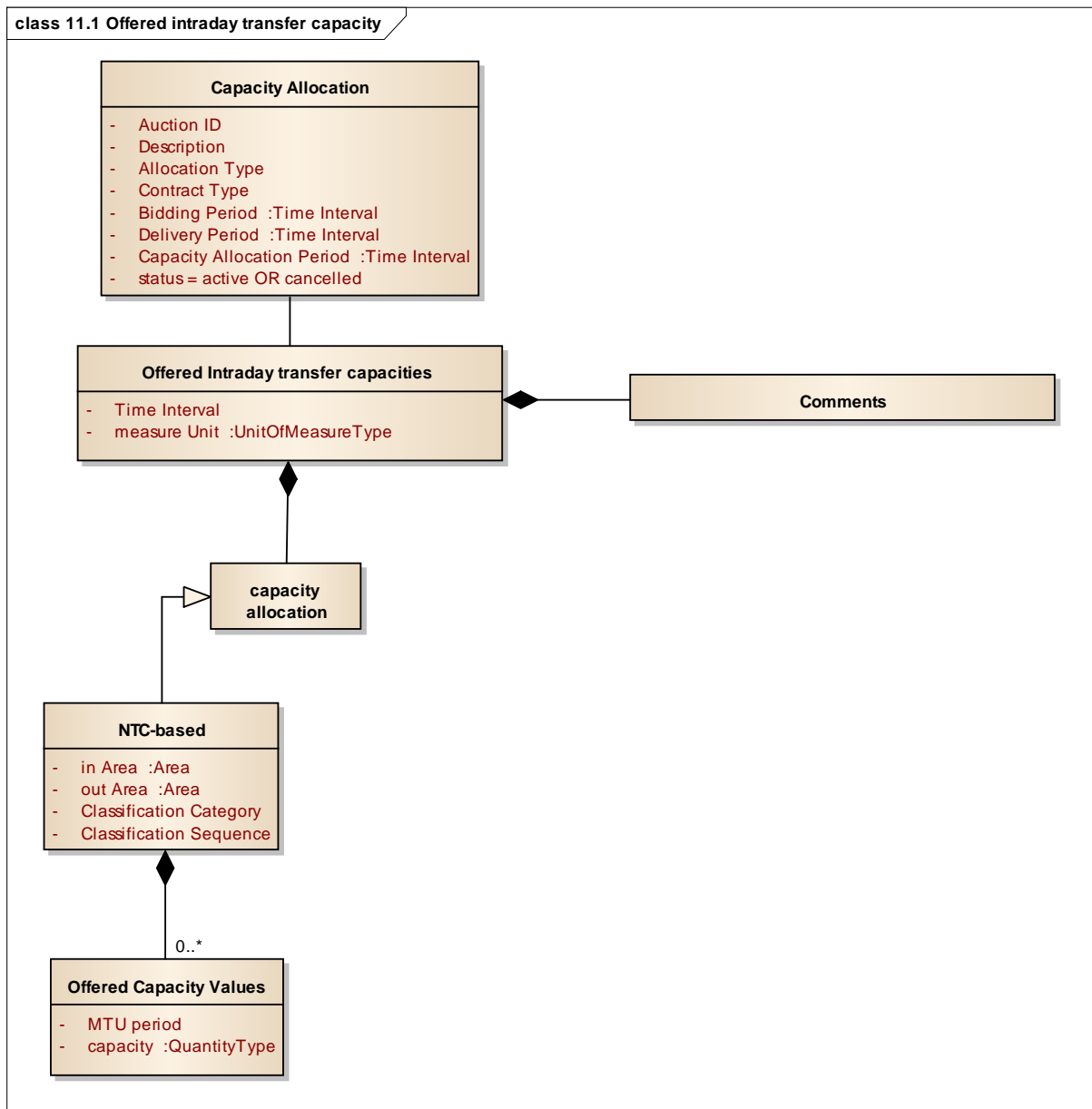
1648 - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1649 each Market Time Unit within the selected day the capacity value (for every classification  
1650 category and classification sequence, when applicable)

1651

## 7.12 Offered INTRADAY TRANSFER CAPACITY [11.1]

### 7.12.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

1660 Offered intraday transfer capacities are described between an In Area and an Out Area, for a  
1661 time interval spanning up to a day. Values are provided for each MTU Period, with a capacity  
1662 value expressed in Measure Unit (MW).

1663 If there are several Capacity Products, capacity values are submitted separately per  
1664 Classification Category and Classification Sequence.

1665 NTC-based values are applicable between two Areas.

1666 Optionally, offered intraday transfer capacity can be complemented with comments.

1667 In some situations there may not be any capacity values to submit.

## 1668 7.12.2 PRE-CONFIGURATION

1669 - Intraday transfer capacities are expected for all couples of Areas covered by the intraday  
1670 capacity allocation's capacity products. Refer to chapter 7.28.1.2 for details on the  
1671 configuration of an auction's capacity products.

1672 - For each capacity allocation, the Data Provider is the one indicated in the capacity  
1673 allocation configuration. Refer to chapter 7.28.1.3 for details.

1674 - The submission deadline for offered intraday transfer capacity is one hour (H-1) before the  
1675 start of the capacity allocation period for the first delivery period of the day. For the remaining  
1676 delivery periods of the day, submissions will be performed close to real-time, for example 5  
1677 minutes before the start of the allocation period.

1678 *Example: If the oriented couple of Areas is France to Germany Bidding Zones, and if*  
1679 *intraday capacity allocation periods are as follows for day D:*

1680 - *1<sup>st</sup> Capacity Allocation Period: D-1, 18:00-19:00 UTC for the delivery period D, 00:00-*  
1681 *24:00 UTC*

1682 - *2<sup>nd</sup> Capacity Allocation Period: D, 03:00-04:00 UTC for the delivery period D, 05:00-*  
1683 *24:00 UTC*

1684 - *3<sup>rd</sup> Capacity Allocation Period: D, 09:00-10:00 UTC for the delivery period D, 11:00-*  
1685 *24:00 UTC*

1686 - *4<sup>th</sup> Capacity Allocation Period: D, 15:00-16:00 UTC for the delivery period D, 17:00-*  
1687 *24:00 UTC*

1688 - *5<sup>th</sup> Capacity Allocation Period: D, 20:00-21:00 UTC for the delivery period D, 22:00-*  
1689 *24:00 UTC*

1690 *Data shall be submitted for the delivery period D, 00:00-24:00 UTC, no later than D-1,*  
1691 *17:00 UTC. Data may be submitted for the delivery period D, 05:00-24:00 UTC, by D,*  
1692 *02:55 UTC, etc.*

1693 The submission deadline is the same for all couples of Areas covered by the capacity  
1694 allocation's products.

### 1695 7.12.3 ASSUMPTIONS

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

### 1697 7.12.4 INTEGRATION

1698 - Areas shall be recognised by the platform

1699 - The Data Provider shall be consistent with the capacity allocation configuration

1700 - The time interval in the document shall be up to one day

### 1701 7.12.5 MONITORING

1702 For a given instance of an auction, platform shall monitor that offered transfer capacity  
1703 values are submitted for all area couples as deduced from the capacity allocation's products.

1704 The submission deadline as described in section 7.12.2 shall be monitored. Monitoring shall  
1705 verify that values are submitted for all Capacity Products (i.e. for all Classification Categories  
1706 and Classification Sequences).

### 1707 7.12.6 PROCESSING

1708 No processing is performed on this data item.

### 1709 7.12.7 PUBLICATION

#### 1710 7.12.7.1 PUBLICATION BEHAVIOUR

1711 No particular publication behaviour applies. As usual, the latest version of submitted values  
1712 will be displayed. In a given day, values submitted for a later allocation period will update the  
1713 offered capacity values for the remainder of the day's delivery period.

#### 1714 7.12.7.2 FILTERING AND SORTING CRITERIA

1715 Data shall be visually accessed by selecting the following:

1716 Day (Selection is mandatory)

1717 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1718 partially or completely cover the Country)

1719 Optionally, user may specify Area, couple of Areas and direction.

1720    **7.12.7.3    DISPLAY**

1721    This data shall be displayed in the following section:

1722    **- offer of transfer capacities / Intraday**

1723    The following attributes of data shall be displayed:

1724    - Title

1725    - Selected day

1726    - Measurement Unit

1727    - Comments

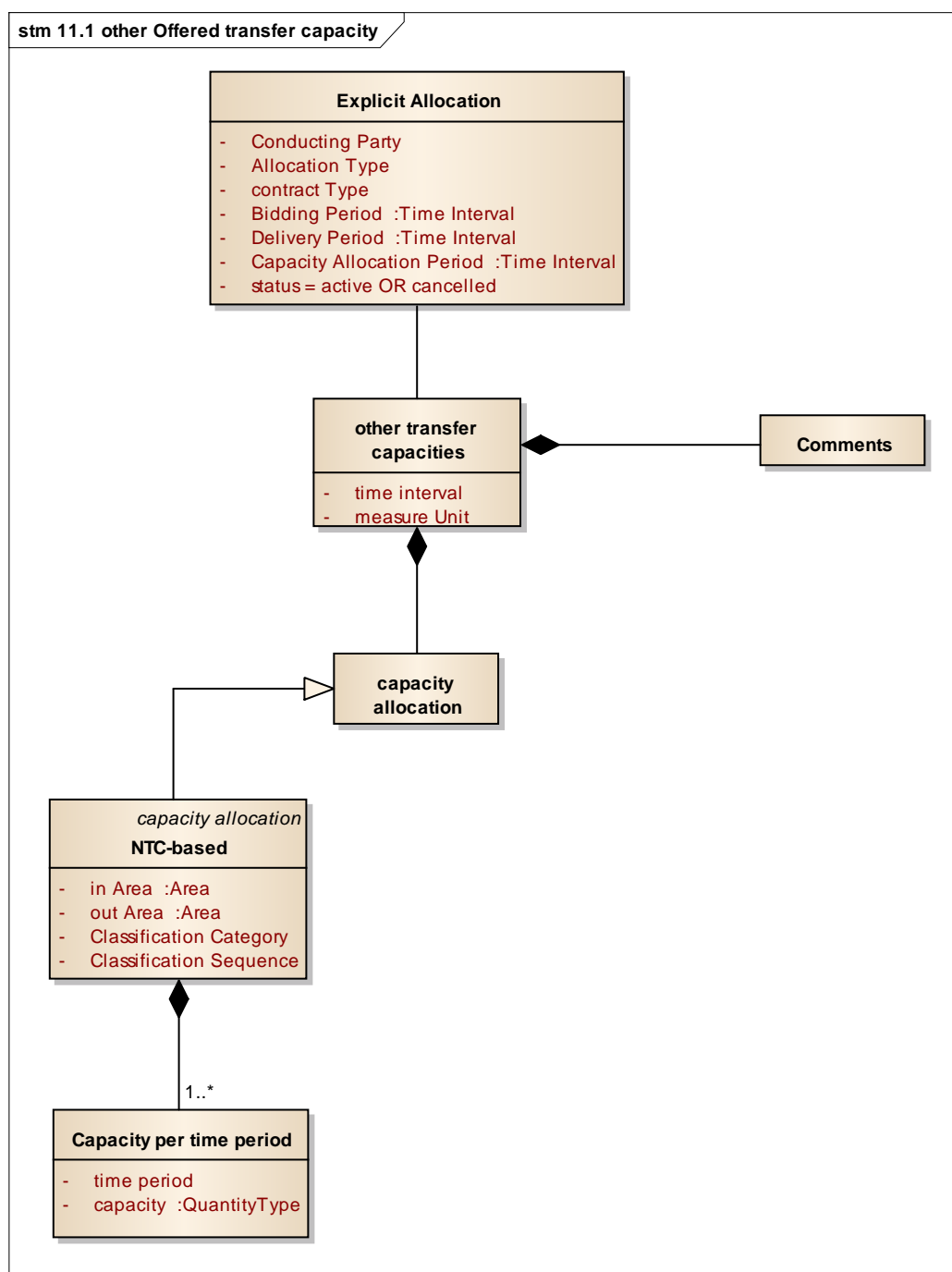
1728    - For each oriented couple of Areas the following data is repeated: Areas, direction and for  
1729    each Market Time Unit period within the selected day, the capacity value (for every  
1730    classification category and classification sequence, when applicable)

1731

## 1732 7.13 OTHER OFFERED TRANSFER CAPACITIES [11.1]

### 1733 7.13.1 DATA DESCRIPTION

1734 This item can be described by the following class diagram:



1735

1736 The document shall cover the offered capacities related to one allocation only.

1737 Other offered transfer capacities are associated with a semester, quarter, weekend and other  
1738 explicit transmission allocations that are not covered by the data items described in chapters  
1739 7.8 through 7.

1740 Other offered transfer capacities are described between an In Area (the Area flows come  
1741 into) and an out Area (the Area flows come out from), during a time interval corresponding to  
1742 the allocation's delivery period, with a single capacity value for the whole time interval  
1743 expressed in Measure Unit.

1744 Capacity values are submitted separately per Classification Category and Classification  
1745 Sequence.

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

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

### 1748 7.13.2 PRE-CONFIGURATION

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

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

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

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

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

### 1762 7.13.3 ASSUMPTIONS

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

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

### 1766 7.13.4 INTEGRATION

1767 - Areas shall be recognised by the platform



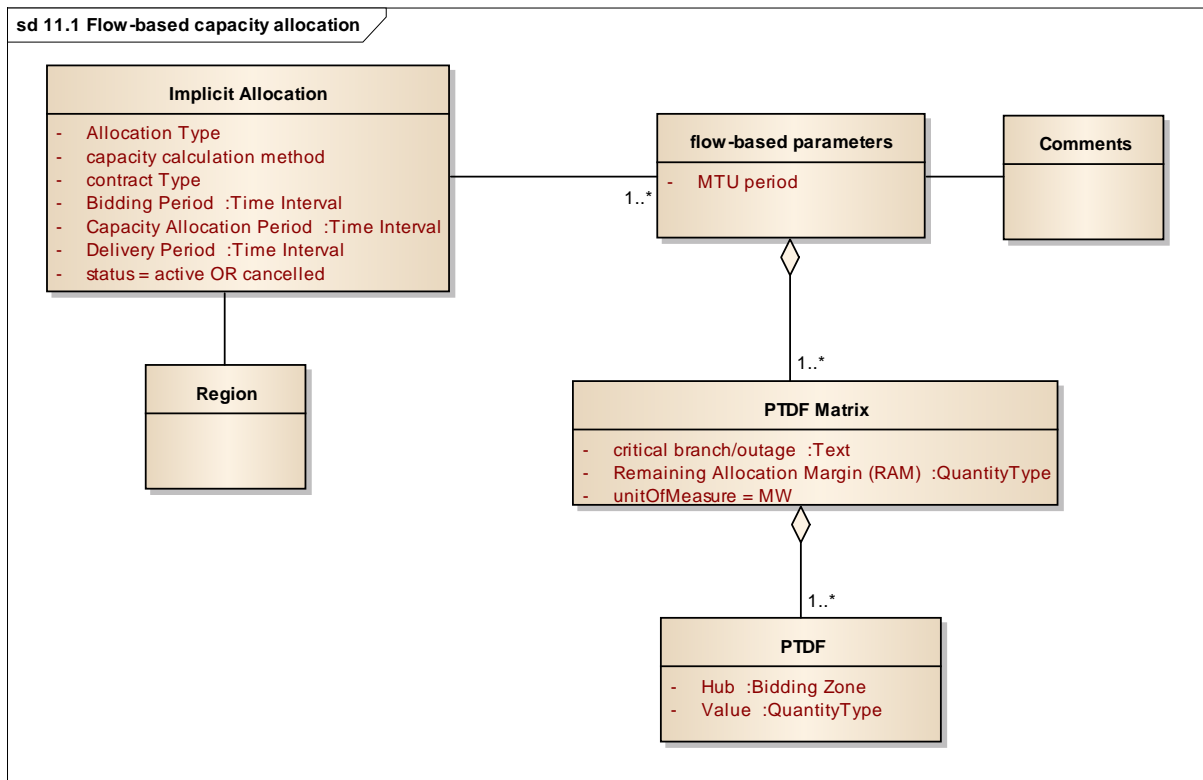
- 1768 - The Data Provider shall be consistent with the capacity allocation configuration
- 1769 - The time interval of the submitted document corresponds to the capacity allocation's  
1770 delivery period
- 1771 **7.13.5 MONITORING**
- 1772 For a given instance of an allocation, platform shall monitor that offered transfer capacity  
1773 values are submitted for all area couples as deduced from the allocation's capacity products.  
1774 The submission deadline described in section 7.13.2 will be monitored.
- 1775 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all  
1776 Classification Categories and Classification Sequences).
- 1777 **7.13.6 PROCESSING**
- 1778 No processing is performed on this data item.
- 1779 **7.13.7 PUBLICATION**
- 1780 **7.13.7.1 PUBLICATION BEHAVIOUR**
- 1781 No specific publication behaviour applies.
- 1782 **7.13.7.2 FILTERING AND SORTING CRITERIA**
- 1783 Data shall be visually accessed by selecting the following:
- 1784 Contract Type (Selection is mandatory)
- 1785 Time interval (Selection is mandatory)
- 1786 Country (selection is optional: If selected, Areas will be filtered to include only those that  
1787 partially or completely cover the Country)
- 1788 Optionally, user may specify Area, couple of Areas and direction.
- 1789 **7.13.7.3 DISPLAY**
- 1790 This data shall be displayed in the following section:
- 1791 **- offer of transfer capacities / other**
- 1792 The following attributes of data shall be displayed:
- 1793 - Title

- 1794 - Contract Type
- 1795 - Time interval
- 1796 - Measurement Unit
- 1797 - Comments
- 1798 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
- 1799 capacity value (for every classification category and classification sequence)
- 1800 If capacity values vary during the time interval, it shall be possible to expand the view so that
- 1801 they are displayed as a curve and in a table.

## 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>14</sup> is described. The PTDF may be positive as well as negative.

Optionally, a free-text comment may be included.

<sup>14</sup> In practice, this corresponds to a variation in the net position of the bidding zone.

## 1816 7.14.2 PRE-CONFIGURATION

1817 - The flow-based parameters are expected for the Region covered by the implicit allocation.  
1818 Refer to chapter 7.28.1.1 for details on the configuration of the flow-based allocation.

1819 - For a given flow-based capacity allocation, the Data Provider is the one indicated in the  
1820 capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

1821 The submission deadline for the flow-based parameters shall be configurable by data  
1822 providers and will be related to the allocation period.

1823 *Example: For the daily flow-based allocation in the CWE region, the allocation starts at*  
1824 *12:00 CET D-1. The submission deadline could then be set to one hour in advance, i.e.*  
1825 *to 11:00 CET D-1.*

## 1826 7.14.3 ASSUMPTIONS

1827 There is not more than one Data Provider for an instance of a flow-based capacity allocation.

## 1828 7.14.4 INTEGRATION

1829 - Region and bidding zones shall be recognised by the platform

1830 - The Data Provider shall be consistent with the allocation configuration

1831 - The time interval of the submitted document covers exactly the allocation instance's  
1832 delivery period

## 1833 7.14.5 MONITORING

1834 For a given instance of a flow-based capacity allocation, platform shall monitor that the flow-  
1835 based parameters are submitted. The submission deadline as described in section 7.14.2 will  
1836 be monitored.

## 1837 7.14.6 PROCESSING

1838 No processing is performed on this data item.

## 1839 7.14.7 PUBLICATION

### 1840 7.14.7.1 PUBLICATION BEHAVIOUR

1841 No specific publication behaviour applies.

## 1842 7.14.7.2 FILTERING AND SORTING CRITERIA

1843 Data shall be visually accessed by selecting the following:

1844 Day (Selection is mandatory)

1845 Region (selection is mandatory)

1846 Contract type: Daily or intraday (selection is mandatory)

## 1847 7.14.7.3 DISPLAY

1848 This data shall be displayed in the following section:

### 1849 - flow-based capacity allocation

1850 The following attributes of data shall be displayed:

1851 - Title

1852 - Region

1853 - Day selection

1854 - Contract type

1855 - Measurement Unit

1856 - Comments

1857 - For each MTU period the PTDF-matrix is presented: Critical branch or outage, remaining  
1858 available margin, and the PTDF value for each hub

## 1859 7.15 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1860 RAMPING RESTRICTIONS

### 1861 7.15.1 DATA DESCRIPTION

1862 This data item consists of a report in the form of a PDF file, describing the ramping or other  
1863 restrictions applied on a Transmission Asset of type DC Link. The two areas connected by  
1864 the DC Link are also recorded inside the report.

### 1865 7.15.2 PRE-CONFIGURATION

1866 Data Providers shall be able to configure the following reference data on the platform:

- 1867 - A list of Control Areas where ramping restrictions may apply
- 1868 - For each Control Area, the unique Data Provider

### 1869 7.15.3 ASSUMPTIONS

1870 Data to be submitted as a report. No monitoring is performed on this data item, due to its  
1871 unpredictability.

### 1872 7.15.4 INTEGRATION

1873 Data Provider shall on the platform's web site, on the same page where these reports are  
1874 published, be able to upload a PDF file and associated it with one Control Area. Platform  
1875 shall validate that the Data Provider is authorized for the given Control Area.

### 1876 7.15.5 MONITORING

1877 No monitoring is performed on this data item.

### 1878 7.15.6 PROCESSING

1879 No processing is performed on this data item.

### 1880 7.15.7 PUBLICATION

#### 1881 7.15.7.1 PUBLICATION BEHAVIOUR

1882 Documents are published immediately after upload. All versions shall be published.

1883    **7.15.7.2    FILTERING AND SORTING CRITERIA**

1884        -    Country or Control Area (mandatory)

1885        -    Date range (optional)

1886    **7.15.7.3    DISPLAY**

1887    This data shall be displayed in the following section:

1888    **Transmission / Cross Border Capacity of DC Links**

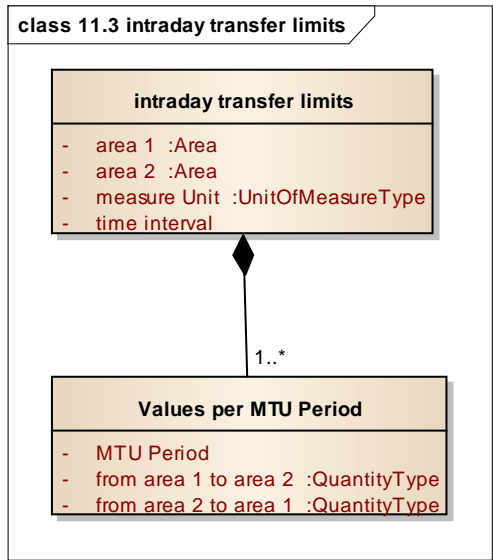
1889    Each report shall be available for download by clicking a link.

1890    For every report, the publication date shall be displayed.

1891

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

## 7.16.1 DATA DESCRIPTION



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

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

Note that the transfer limits may be negative.

## 7.16.2 PRE-CONFIGURATION

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

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

## 7.16.3 ASSUMPTIONS

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

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



1909    **7.16.4        INTEGRATION**

1910    Platform shall validate that it recognises the Area couple.

1911    Platform shall validate that the Data Provider is authorized for the given Area couple.

1912    Time interval covered by document is up to one day.

1913    **7.16.5        MONITORING**

1914    No monitoring is performed on this data item.

1915    **7.16.6        PROCESSING**

1916    If two Data Providers submit data relating to the same Area couple, platform shall for each  
1917    direction and MTU period select the minimum value for publication.

1918    **7.16.7        PUBLICATION**

1919    **7.16.7.1      PUBLICATION BEHAVIOUR**

1920    Documents are published immediately after upload.

1921    Latest version only shall be published.

1922    **7.16.7.2      FILTERING AND SORTING CRITERIA**

1923        -    Area couple (mandatory)

1924        -    Date or date range (mandatory)

1925    **7.16.7.3      DISPLAY**

1926    This data shall be displayed in the following section:

1927    **Transmission / Cross Border Capacity of DC Links**

1928    The following attributes of the data shall be displayed:

1929        - Title

1930        - Unit of measurement (MW)

1931        - Area couple

1932        - For each direction between the Areas and for each MTU period, the transfer limit

## 1933 7.17 YEARLY REPORT ABOUT CRITICAL NETWORK 1934 ELEMENTS LIMITING OFFERED CAPACITIES [11.4]

### 1935 7.17.1 DATA DESCRIPTION

1936 This data item consists of a file that shall be associated with one or several Control Areas.  
1937 No monitoring will be performed.

### 1938 7.17.2 PRE-CONFIGURATION

1939 ENTSO-E administrator shall be able to manage the reference data that indicates the list of  
1940 allowed Data Providers per Control Area for this data item.

### 1941 7.17.3 INTEGRATION

1942 Data Provider shall on the platform's web site, on the same page where these reports are  
1943 published, be able to upload a file and associated it with one or several Control Areas.

1944 Platform shall validate combination of Control Area and Data Provider.

### 1945 7.17.4 PUBLICATION

#### 1946 7.17.4.1 PUBLICATION BEHAVIOUR

1947 Documents are published immediately after upload.

1948 All versions shall be published.

#### 1949 7.17.4.2 FILTERING AND SORTING CRITERIA

1950 End user shall be able to select data for display by specifying:

1951 - Country or Control Area (optional)

1952 - Publication year (optional)

#### 1953 7.17.4.3 DISPLAY

1954 This data shall be displayed in the following section:

1955 Transmission / Critical network elements

1956 Each report shall be available for download by clicking a link.

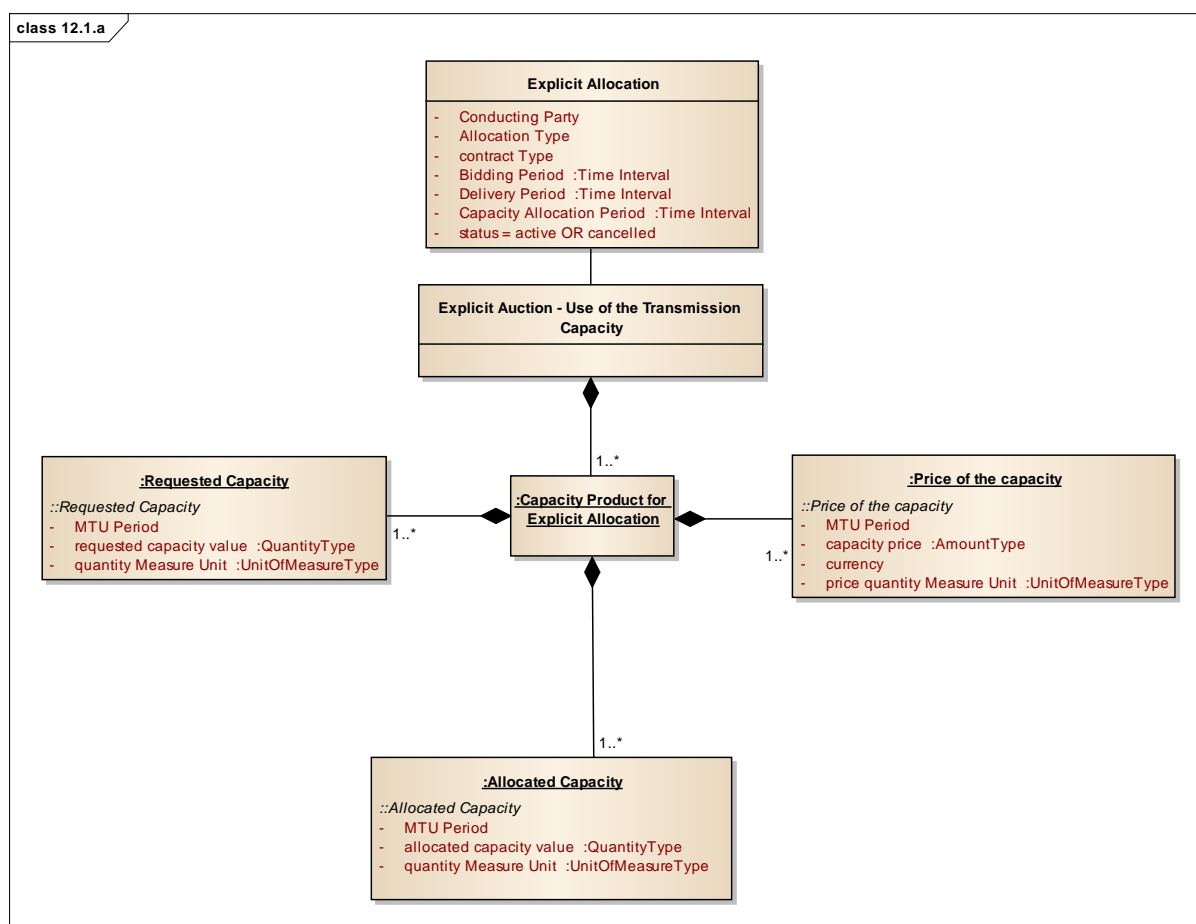
1957 For every report, the publication date shall be displayed.

1958

## 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>15</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>15</sup> The Explicit Auction in question is the same as the Explicit Auction described in « Total Capacity Already Allocated [12.1.c] »

1969 - the Requested Capacity with a quantity in quantity Measure Unit (MW) for each Market  
1970 Time Unit period within the time interval

1971 - the Allocated Capacity with a quantity in quantity Measure Unit (MW) for each Market Time  
1972 Unit period within the time interval

1973 - the Price of the Capacity with a price in Currency per Price Quantity Measure Unit (MWh)  
1974 for each Market Time Unit period within the time interval

## 1975 7.18.2 PRE-CONFIGURATION

1976 - For each Explicit Auction instance's capacity products, the data item "Use of the  
1977 Transmission Capacity", shall be expected by the platform<sup>16</sup>. Refer to chapter 7.28.1.2 for  
1978 details on the configuration of an auction's capacity products.

1979 - For each Explicit Auction instance, the unique allowed Data Provider is the one indicated by  
1980 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

1981 - For each explicit auction instance, the submission deadline:

1982 • For a given Explicit Auction instance, submission must be done at the latest one hour  
1983 (H+1) after the end of the Capacity Allocation Period.

1984 *Example: if the capacity product is Yearly Base 1 between France and German Bidding*  
1985 *Zones for the time interval of year 2013, and if the Capacity Allocation Period ends on*  
1986 *November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the use of transmission*  
1987 *capacity in this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

1988 Submission deadline is the same for all results associated with all of the Auction  
1989 instance's capacity products.

## 1990 7.18.3 ASSUMPTIONS

1991 No specific assumptions apply to this data item.

## 1992 7.18.4 INTEGRATION

1993 - The Data Provider shall be consistent with the configuration of the capacity allocation

1994 - Capacity Product shall be consistent with the configuration of the capacity allocation

1995 - Currency shall be consistent with the capacity product

<sup>16</sup> If Allocation Type is "continuous", prices will not be expected.

1996 - The time interval described in the document shall be complete (e.g. a whole day for the  
1997 results of a Daily Auction)

1998 - If there is no allocated capacity for a given time interval, prices do not have to be included.

## 1999 7.18.5 MONITORING

2000 The submission deadline described in section 7.18.2 shall be monitored for each of the  
2001 auction's capacity products.

2002 If Allocation Type is "continuous", no monitoring will be performed.

## 2003 7.18.6 PROCESSING

2004 No processing is performed by the platform at this step.

## 2005 7.18.7 PUBLICATION

### 2006 7.18.7.1 PUBLICATION BEHAVIOUR

2007 No particular behaviour applies to this data item.

### 2008 7.18.7.2 FILTERING AND SORTING CRITERIA

2009 Data shall be visually accessed by selecting the following:

2010 - Contract Type (Selection is Mandatory)

2011 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2012 partially or completely cover the Country)

2013 - Areas couple (Selection is Mandatory)

2014 - Direction (both by default) (Selection is Mandatory)

2015 - Classification Category (Selection is optional)

2016 - Classification Sequence (Selection is optional)

2017 - Conducting Party (Selection is optional)

2018 - Time interval (Start and End date) (Selection is mandatory)

### 2019 7.18.7.3 DISPLAY

2020 This data shall be displayed in the following section:

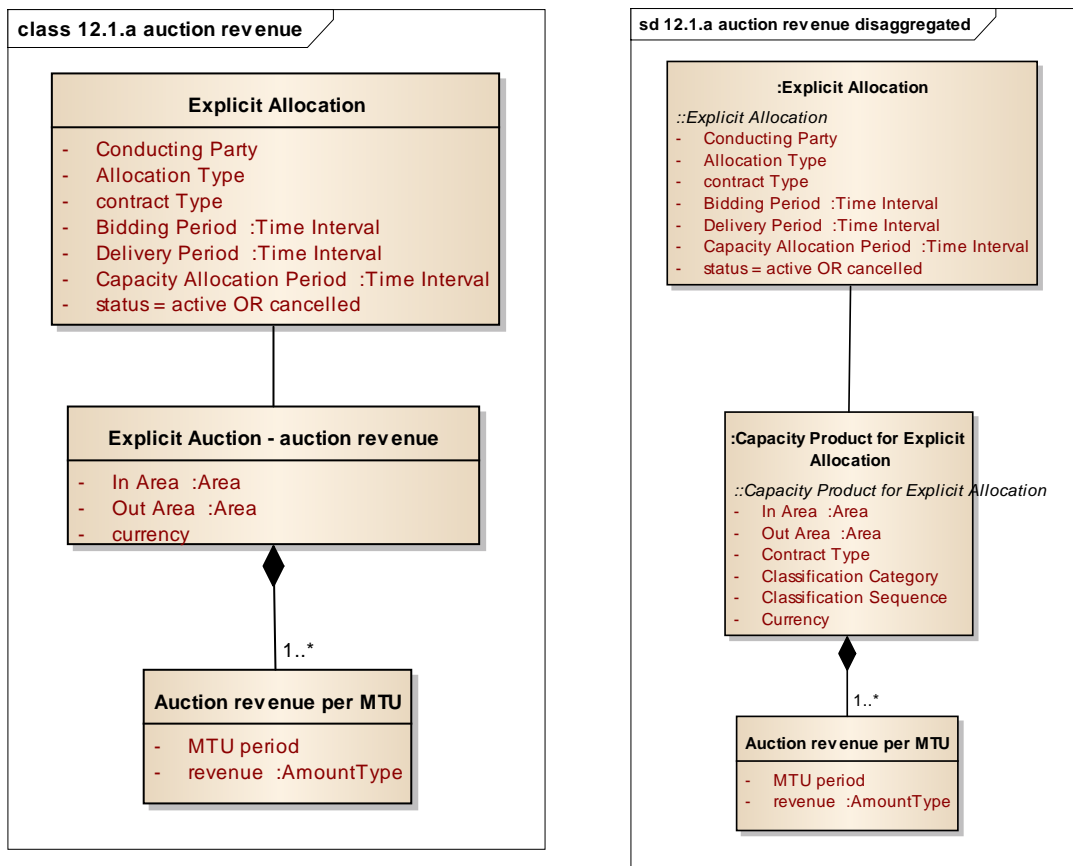
2021 - **Explicit Auctions** (together with the Total Capacity Already Allocated / [12.1.c])

- 2022 The following attributes of data shall be displayed:
- 2023 - Title
- 2024 - Areas name
- 2025 - Contract Type
- 2026 - Conducting Party
- 2027 - Time interval
- 2028 - Measurement Unit for requested and allocated capacity
- 2029 - Currency for capacity price
- 2030 - Measurement Unit for capacity price
- 2031 - For each MTU Period within the time interval, the requested capacity value, the allocated
- 2032 capacity value and the capacity price value. This is repeated per direction, Classification
- 2033 Category and Classification Sequence.
- 2034

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>17</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

<sup>17</sup> The Explicit Auction in question is the same as the Explicit Auction described in « Total Capacity Already Allocated [12.1.c] »

2046 (one year, one month, one day, etc.). Revenue is expressed in a Currency. Resolution is  
2047 MTU period.

2048 It is possible to submit revenue in the disaggregated format together with the use of the  
2049 transfer capacity described in chapter 7.18. Aggregated revenue has to be submitted  
2050 separately though. For further details please refer to the implementation guide.

## 2051 7.19.2 PRE-CONFIGURATION

2052 - For each Area couple covered by an Explicit Auction instance's capacity products, the data  
2053 item "Explicit Auctions – Auction Revenue" shall be expected by the platform<sup>18</sup>. Refer to  
2054 chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2055 - For each Explicit Auction instance, the single allowed Data Provider is the one indicated by  
2056 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2057 - For each explicit auction instance, the submission deadline:

- 2058 • For a given Explicit Auction instance, submission must be done at the latest one hour  
2059 (H+1) after the end of the Capacity Allocation Period.

2060 *Example: if the Explicit Auction instance is Yearly Base 1 between France and German*  
2061 *Bidding Zones for the time interval of year 2013, and if the Capacity Allocation Period*  
2062 *ends on November 17<sup>th</sup>, 2012, at 08:00 UTC, the document describing the auction*  
2063 *revenue in this time interval must be submitted before November 17<sup>th</sup>, 2012, 09:00 UTC.*

2064 Submission deadline is the same for all Area couples covered by the Auction instance's  
2065 capacity products.

## 2066 7.19.3 ASSUMPTIONS

2067 Not more than one Data Provider per Explicit Auction instance.

2068 There are two alternative submission modes: Aggregated per oriented border and  
2069 disaggregated per capacity product, respectively. For a given allocation and border, only one  
2070 mode will be used.

2071 Delivery Periods are the same in both directions across a border. Only one currency is  
2072 applicable in both directions across a border.

## 2073 7.19.4 INTEGRATION

2074 - The Data Provider shall be consistent with the capacity allocation configuration

---

<sup>18</sup> When Allocation Type is "continuous", data is not expected.



2075 - Area couple shall be consistent with capacity product, as per capacity allocation  
2076 configuration

2077 - Currency shall be consistent with the capacity products covering the Area couple

## 2078 7.19.5 MONITORING

2079 The submission deadline described in section 7.18.2 shall be monitored for all Area couples  
2080 covered by the auction's capacity products.

## 2081 7.19.6 PROCESSING

2082 Platform aggregates the total revenue for the whole delivery period by summing up the  
2083 values submitted per MTU period.

2084 Once total revenue values for a given delivery period have been submitted for both  
2085 directions, platform aggregates a grand total for the border.

## 2086 7.19.7 PUBLICATION

### 2087 7.19.7.1 PUBLICATION BEHAVIOUR

2088 A delay in submission of values in a given direction shall not withhold publication of already  
2089 submitted values in the opposite direction. Publication of aggregated sum per border is  
2090 performed independently of publication of values per direction. Aggregated sum per border  
2091 shall be published as soon as values in both directions have been submitted.

### 2092 7.19.7.2 FILTERING AND SORTING CRITERIA

2093 Data shall be visually accessed by selecting the following:

2094 - Contract Type (selection is mandatory)

2095 - Country (selection is optional: If selected, Area couples will be filtered to include only those  
2096 that partially or completely cover the Country)

2097 - Areas couple (selection is mandatory)

2098 - Date or date range (selection is mandatory)

### 2099 7.19.7.3 DISPLAY

2100 This data shall be displayed in the following section:

2101 - **Explicit Auctions** (together with the previously allocated Capacity / [12.1.c])

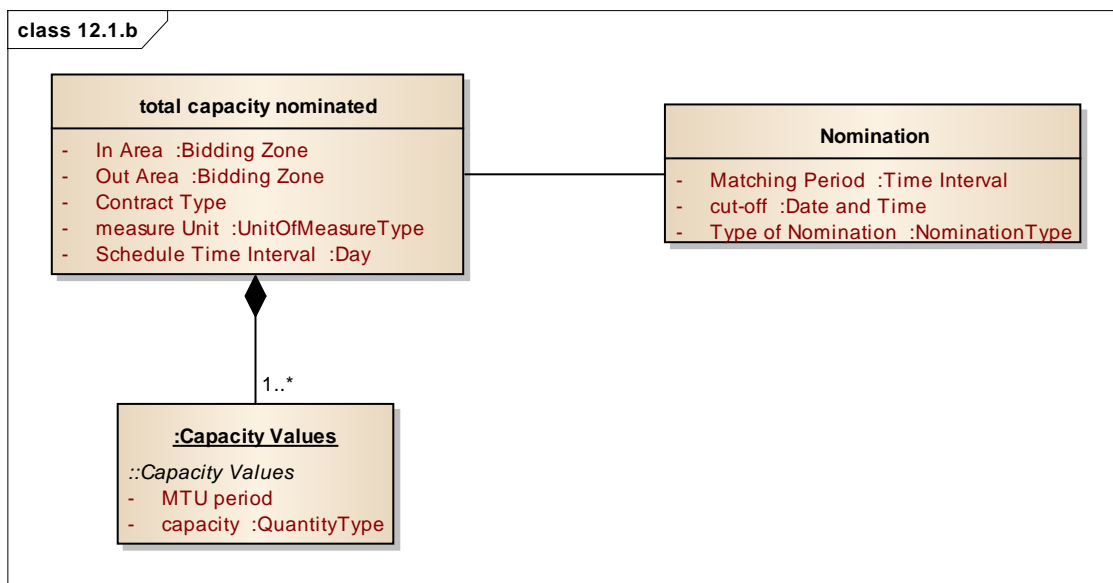
2102 The following attributes of data shall be displayed:

- 2103 - Title
- 2104 - Area couple
- 2105 - Contract Type
- 2106 - Currency
- 2107 - Delivery Period
- 2108 - For each delivery period during the selected date range, the following details of auction
- 2109 revenue are displayed:
- 2110 - In each direction and per MTU period
- 2111 - aggregated revenue in each direction for the whole Delivery Period
- 2112 - aggregated revenue for the border, for the whole Delivery Period

## 2113 7.20 TOTAL CAPACITY NOMINATED [12.1.B]

### 2114 7.20.1 DATA DESCRIPTION

2115 This item can be described by the following class diagram:



2116

2117 The document may cover several couples of bidding zones and directions.

2118 Values are expected for one day and are given by Market Time Unit period. Values for the  
2119 time horizons long-term, day-ahead and intraday are published separately. For some  
2120 borders, intraday values may not be applicable. For other borders, long-term may not be  
2121 applicable.

2122

### 2123 7.20.2 PRE-CONFIGURATION

2124 - A list of In and Out Area couples where the data item "Total Capacity Nominated" is  
2125 expected

2126 - For each In and Out Area couple, the allowed Data Provider(s), with their priorities

2127 - For each In and Out Area couple, indicators whether intraday and/or long-term nominations  
2128 are expected or not

2129 - For each In and Out Area couple, the applicable submission deadlines for day-ahead and if  
2130 applicable intraday and long-term time horizons, respectively:

- 2131       • Submission must be done H+1 after the respective cut-off time of the concerned  
2132       nomination round on this given In and Out Area couple.
- 2133       *Example A: The couple of Bidding Zones is France - Germany, the long-term cut-off time*  
2134       *is at 20:00 UTC and the day-ahead cut-off time is at 22:00 UTC for the delivery day*  
2135       *March 13<sup>th</sup>, 2012. A first document shall be submitted with long-term values before March*  
2136       *12<sup>th</sup>, 2012, 21:00 UTC and contain capacity values for the whole day of March 13<sup>th</sup>, 2012.*
- 2137       *A second document, containing values for the day-ahead time horizon that are updated*  
2138       *with the day-ahead nomination, shall be submitted no later than March 12<sup>th</sup>, 2012, 23:00*  
2139       *UTC.*
- 2140       *Example B: The couple of Bidding Zones is France – Spain and in addition to long-term*  
2141       *and daily nominations there are also intraday nominations:*
- 2142       *long-term nomination round with cut-off at D-1, 12:00 UTC for the delivery period D,*  
2143       *00:00 – 24:00 UTC*
- 2144       *daily nomination round with cut-off at D-1, 18:00 UTC for the delivery period D, 00:00 –*  
2145       *24:00 UTC*
- 2146       *1<sup>st</sup> intraday nomination round with cut-off at D-1, 20:00 UTC for the delivery period D,*  
2147       *06:00-24:00 UTC*
- 2148       *2<sup>nd</sup> intraday nomination round with cut-off at D, 04:00 UTC for the delivery period D,*  
2149       *12:00-24:00 UTC*
- 2150       *3<sup>rd</sup> intraday nomination round with cut-off at D, 12:00 UTC for the delivery period D,*  
2151       *18:00-24:00 UTC*
- 2152       *The following documents shall be submitted:*
- 2153       *A first document containing the values for the long-term time horizon for the whole*  
2154       *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 13:00 UTC*
- 2155       *A second document containing the values for the day-ahead time horizon for the whole*  
2156       *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 19:00 UTC.*
- 2157       *A third document containing the values for the intraday time horizon for the whole*  
2158       *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 21:00 UTC.*
- 2159       *A higher version of the third document containing the values for the intraday time horizon*  
2160       *(including 2<sup>nd</sup> intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2161       *shall be submitted no later than D, 05:00 UTC.*
- 2162       *A higher version of the third document containing the values for the intraday time horizon*  
2163       *(including 3<sup>rd</sup> intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*  
2164       *shall be submitted no later than D, 13:00 UTC.*

2165 The matching process, including cut-off times, is described in chapter 7.1.3.

### 2166 7.20.3 ASSUMPTIONS

2167 If intraday nominations are applicable on a given border, platform will monitor submission  
2168 deadline for the first intraday nomination only.

2169 Platform does not perform any aggregation.

### 2170 7.20.4 INTEGRATION

2171 - Area couple shall be recognised by the platform

2172 - The Data Provider shall be consistent with the identified Area couple

2173 - The Schedule Time Interval in the submitted document is one day

### 2174 7.20.5 MONITORING

2175 This data item is expected one or several times per day for all declared In and Out Area  
2176 couples. For each couple of In and Out Areas, the submission deadlines for long-term, day-  
2177 ahead and intraday values described in section 7.20.2 shall be monitored. If no data has  
2178 been submitted, all declared Data Providers will be notified.

### 2179 7.20.6 PROCESSING

2180 If data has been submitted for a given Bidding Zone couple, direction, time horizon and  
2181 schedule Time Interval (day) by more than one Data Provider, platform shall publish data  
2182 coming from Data Provider with highest priority.

2183

### 2184 7.20.7 PUBLICATION

#### 2185 7.20.7.1 PUBLICATION BEHAVIOUR

2186 Long-term, day-ahead and intraday values shall be published separately.

#### 2187 7.20.7.2 FILTERING AND SORTING CRITERIA

2188 Data shall be visually accessed by selecting the following:

2189 - Day (Selection is mandatory)

2190 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include  
2191 only those that partially or completely cover the Country)

2192 - Bidding Zones couple or Bidding Zone

### 2193 7.20.7.3 DISPLAY

2194 This data shall be displayed in the following section:

2195 - **Transmission / Total nominated capacity**

2196 The following attributes of data shall be displayed:

2197 - Title

2198 - Schedule Time Interval (i.e. selected Day)

2199 - Measurement Unit

2200 - MTU

2201 - Bidding Zone couple

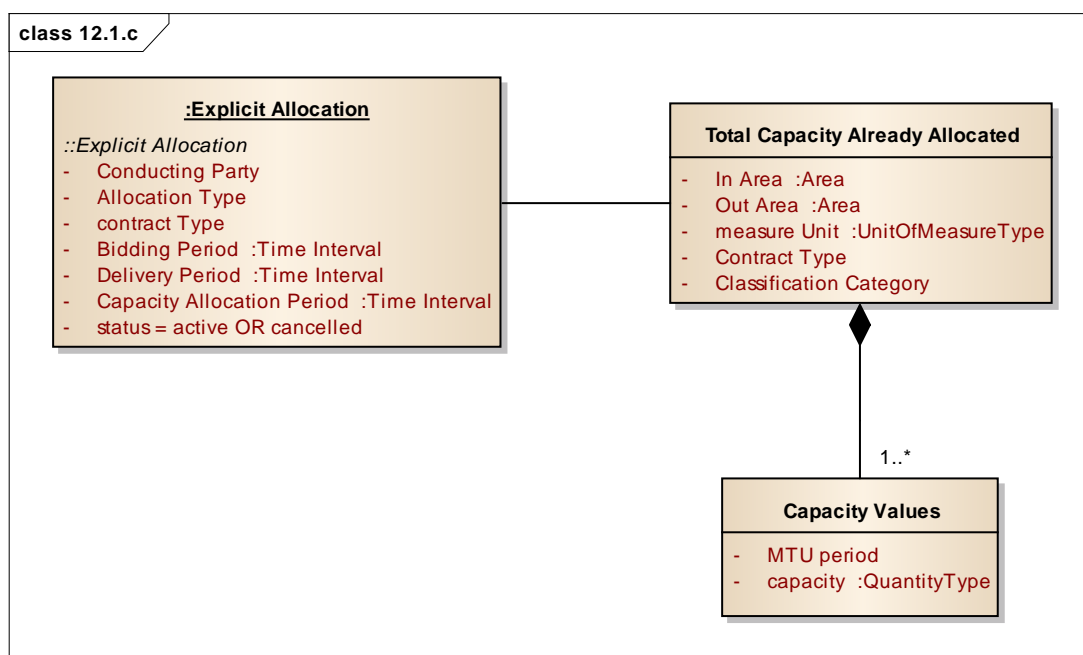
2202 - In each direction, the long-term, day-ahead and intraday values for each MTU

2203 Data is published in table and chart formats.

## 2204 7.21 TOTAL CAPACITY ALREADY ALLOCATED [12.1.C]

### 2205 7.21.1 DATA DESCRIPTION

2206 This item can be described by the following class diagram:



2207

2208 The document shall contain data related to exactly one auction instance. The total capacity  
 2209 already allocated is described by In and Out Areas and per Contract Type and Classification  
 2210 Category, with one capacity value in measure Unit for each Market Time Unit period within a  
 2211 time interval corresponding to the auction's Delivery Period.

2212 This data item is relevant for explicit allocations only.

2213 *Example: Before a daily base auction, a single document shall be submitted to the platform,*  
 2214 *containing the total capacity already allocated, taking into account earlier allocations (i.e.*  
 2215 *yearly, monthly and weekly auctions) and explicit resales or use it or sell it (UIOSI). Capacity*  
 2216 *values shall be provided for each MTU period of the delivery period of the daily auction.*  
 2217 *Contract Type of document is Daily and Classification Category is Base.*

### 2218 7.21.2 PRE-CONFIGURATION

2219 - For each Explicit Allocation instance, the data item "Total Capacity Already Allocated" may  
 2220 be expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of a  
 2221 capacity allocation.

2222 - For each Explicit Allocation instance, the unique allowed Data Provider is the one indicated  
2223 in the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2224 - For a given allocation, the submission deadline depends on the Contract Type (monthly,  
2225 weekly, etc.) and is the same as for the offered transfer capacity [11.1], refer to sections  
2226 7.11.2 through 7.12.2.

### 2227 7.21.3 ASSUMPTIONS

2228 Data providers have performed all calculations, taking into account earlier allocations and  
2229 explicit resales or use it or sell it (UIOSI). Platform will not perform any calculation.

### 2230 7.21.4 INTEGRATION

2231 - The Data Provider shall be consistent with the configuration of the capacity allocation, refer  
2232 to chapter 7.28.1.3 for details

2233 - The time interval described in the document shall be complete (e.g. a whole day for a Daily  
2234 auction)

### 2235 7.21.5 MONITORING

2236 For a given instance of an Explicit Allocation, platform shall monitor that the data item "Total  
2237 Capacity Already Allocated" is submitted

2238 Submission deadlines depend on the auction as explained in chapter 7.21.2.

### 2239 7.21.6 PROCESSING

2240 No processing performed on this data item.

### 2241 7.21.7 PUBLICATION

#### 2242 7.21.7.1 PUBLICATION BEHAVIOUR

2243 Standard publication behaviour applies.

#### 2244 7.21.7.2 FILTERING AND SORTING CRITERIA

2245 Data shall be visually accessed by selecting the following:

2246 - Contract Type (Selection is Mandatory)

2247 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2248 partially or completely cover the Country)



2249 - Areas couple (Selection is Mandatory)

2250 - Direction (both by default) (Selection is Mandatory)

2251 - Time window (Start and End date) (Selection is mandatory)

### 2252 7.21.7.3 DISPLAY

2253 This data shall be displayed in the following section:

#### 2254 - **Explicit Auctions / Total Capacity Already Allocated**

2255 The following attributes of data shall be displayed:

2256 - Title

2257 - Areas name

2258 - Contract Type

2259 - Classification Category

2260 - Time window

2261 - Measurement Unit

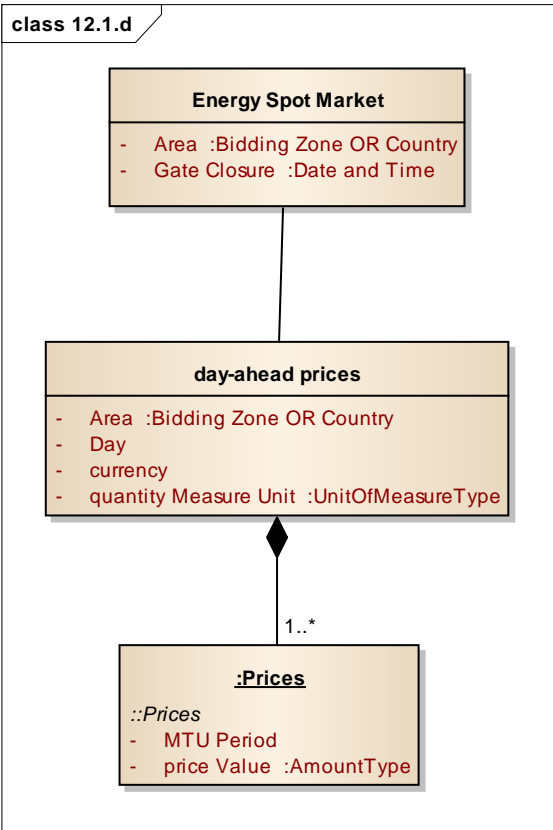
2262 - For each MTU Period within the time window, the total capacity already allocated. This is  
2263 repeated per direction.

2264

7.22 DAY-AHEAD PRICES [12.1.D]

7.22.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

7.22.2 PRE-CONFIGURATION

By default, day-ahead prices are expected for all bidding zones. In some instances, it is submitted by country rather than bidding zone<sup>19</sup>.

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

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

<sup>19</sup> This is the case for Germany and Austria.

2278    **7.22.3        ASSUMPTIONS**

2279    There shall be only one Data Provider for a given bidding zone or country.

2280    **7.22.4        INTEGRATION**

2281    - Bidding zone or country shall be recognised by the platform

2282    - The Data Provider shall be consistent with the bidding zone or country

2283    - Currency shall be consistent with pre-configuration [C9]

2284    **7.22.5        MONITORING**

2285    For every bidding zone or country where this data is expected, the daily submission deadline  
2286    shall be monitored.

2287    **7.22.6        PROCESSING**

2288    No processing is performed by the platform on this data item.

2289    **7.22.7        PUBLICATION**

2290    **7.22.7.1      PUBLICATION BEHAVIOUR**

2291    No particular behaviour applies to this data item.

2292    **7.22.7.2      FILTERING AND SORTING CRITERIA**

2293    Data shall be visually accessed by selecting the following:

2294    - Country or Bidding zone (Selection is Mandatory)

2295    - Day (Selection is mandatory)

2296    **7.22.7.3      DISPLAY**

2297    This data shall be displayed in the following section:

2298    - **Day-ahead prices**

2299    The following attributes of data shall be displayed:

2300    - Title

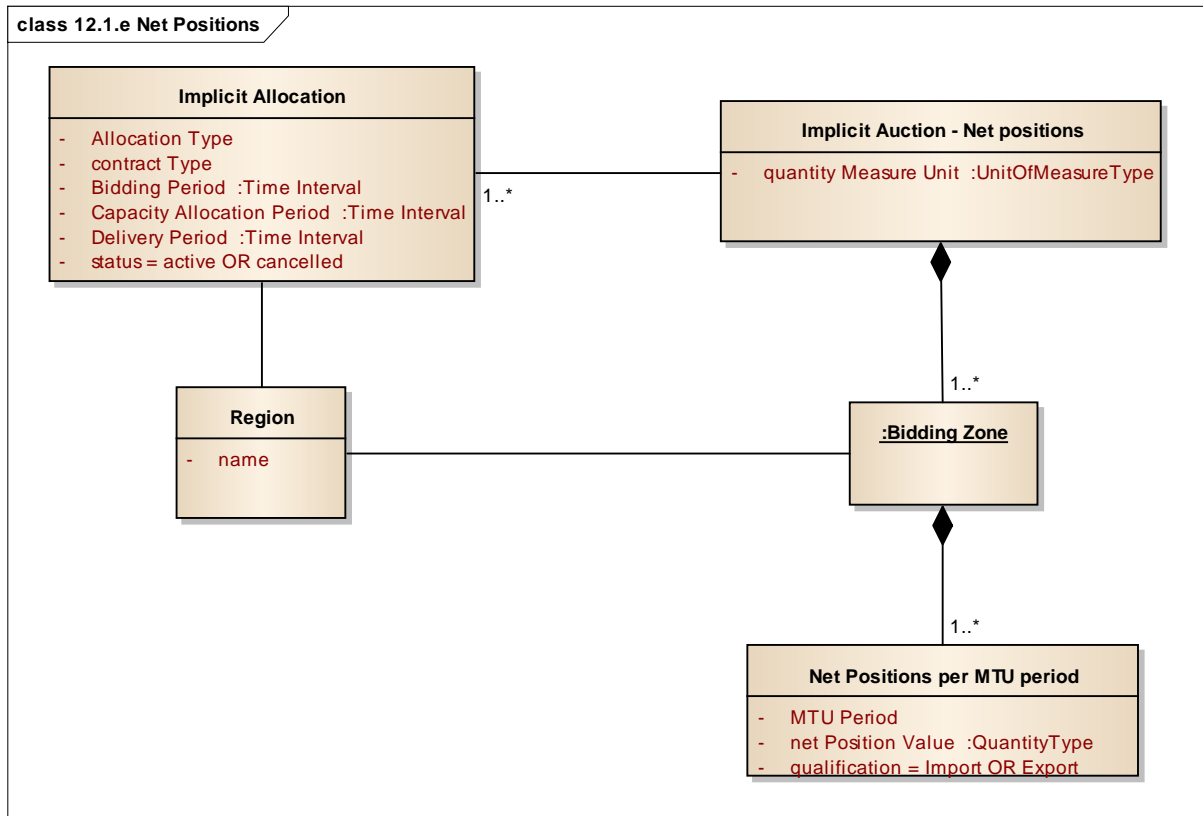
2301    - Bidding Zone or Country

- 2302 - Selected day
- 2303 - Currency
- 2304 - Quantity Measurement Unit (MWh)
- 2305 - For each MTU period during the selected day, the day-ahead price
- 2306

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

### 7.23.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Net positions resulting from one or several Implicit Allocations<sup>20</sup> are given by Bidding Zone for a given time interval corresponding to the allocations' delivery period (for which transfer capacity was auctioned and will be used). The Net Positions consist of a value for each Market Time Unit period during the Delivery Period, in Quantity Measure Unit (MW). Note that net position is always a positive value or zero. The Net Position is described as "import" or "export".

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

<sup>20</sup> The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Congestion Income » - chapter 7.24

## 2319 7.23.2 PRE-CONFIGURATION

2320 - For each bidding zone covered by an implicit allocation's products, net positions shall be  
2321 expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of an  
2322 allocation's capacity products.

2323 - For each bidding zone covered by any implicit allocation, the single allowed Data Provider.

2324 - For each bidding zone, the submission deadline:

- 2325 • For a given Implicit Allocation instance, submission must be done at the latest one  
2326 hour (H+1) after the end of the Capacity Allocation Period.

2327 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*  
2328 *Zones for a time interval of March 13<sup>th</sup>, 2012, and if the Capacity Allocation Period ends*  
2329 *on March 12<sup>th</sup>, 2012, at 12:00 UTC, the documents describing the net positions for the*  
2330 *time interval must be submitted before March 12<sup>th</sup>, 2012, 13:00 UTC.*

2331 Submission deadline is the same for all bidding zones associated with the Implicit  
2332 Allocation.

## 2333 7.23.3 ASSUMPTIONS

2334 There is not more than one Implicit Allocation per Region and Contract Type.

## 2335 7.23.4 INTEGRATION

2336 - The Data Provider shall be consistent with bidding zone as per pre-configuration described  
2337 in 7.23.2

2338 - The Delivery Period described in the document shall be complete

## 2339 7.23.5 MONITORING

2340 For a given bidding zone and contract type, the submission deadline shall be monitored.

## 2341 7.23.6 PROCESSING

2342 No processing is performed by the platform.

## 2343 7.23.7 PUBLICATION

### 2344 7.23.7.1 PUBLICATION BEHAVIOUR

2345 No specific behaviour applies to this data item.

## 2346 7.23.7.2 FILTERING AND SORTING CRITERIA

2347 Data shall be visually accessed by selecting the following:

2348 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2349 partially or completely cover the Country)

2350 - One or several Bidding Zones<sup>21</sup> (Selection is Mandatory)

2351 - Day (Selection is mandatory)

2352 - Contract Type: Day-Ahead or Intraday

## 2353 7.23.7.3 DISPLAY

2354 This data shall be displayed in the following section:

### 2355 - **Implicit Allocations**

2356 The following attributes of data shall be displayed:

2357 - Title

2358 - Day

2359 - Measurement Unit (MW)

2360 - Contract Type

2361 - The following data is repeated for each selected Bidding Zone: Bidding Zone name and for  
2362 each MTU Period within the selected day, the net position and whether it is “import” or  
2363 “export”. When selected Contract Type is Intraday, net positions are displayed for each  
2364 Delivery Period during the selected day.

2365

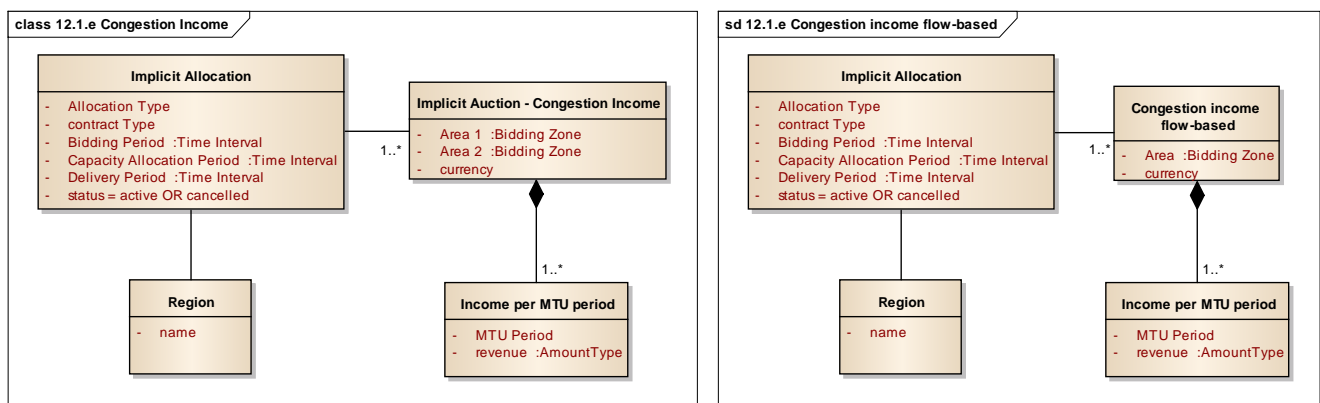
---

<sup>21</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>22</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>22</sup> The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Net Positions » (chapter 7.23)



- 2385 - For flow-based allocations, a single allowed Data Provider for all bidding zones in the  
2386 region is indicated.
- 2387 - For each Implicit Allocation, the submission deadline:
- 2388 • For a given Implicit Allocation instance, submission must be done at the latest one  
2389 hour (H+1) after the end of the Capacity Allocation Period.
- 2390 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*  
2391 *Zones for the time interval of March 13<sup>th</sup>, 2012, and if the Capacity Allocation Period ends*  
2392 *on March 12<sup>th</sup>, 2012, at 12:00 UTC, the documents describing the Congestion Income for*  
2393 *this time interval must be submitted before March 12<sup>th</sup>, 2012, 13:00 UTC.*
- 2394 Submission deadline is the same for all Area couples covered by the Implicit Allocation.  
2395 For flow-based allocations, the submission deadline is the same for all bidding zones in  
2396 the region.

### 2397 7.24.3 ASSUMPTIONS

- 2398 Only one Data Provider per Area couple or per region (for flow-based).
- 2399 There is not more than one Implicit Allocation per Region.
- 2400 Data is submitted per area couple or bidding zone (for flow-based) and platform does not  
2401 have to perform any calculation.

### 2402 7.24.4 INTEGRATION

- 2403 - Currency shall be consistent with the capacity products covering the Area couple or with the  
2404 bidding zone (for flow-based)
- 2405 - The Data Provider shall be consistent with the implicit allocation as per pre-configuration  
2406 described in 7.24.2
- 2407 - The Delivery Period described in the document shall be complete

### 2408 7.24.5 MONITORING

- 2409 For a given instance of an Implicit Allocation, the submission deadline common to all Area  
2410 couples or bidding zones (for flow-based) covered by the capacity products shall be  
2411 monitored.

### 2412 7.24.6 PROCESSING

- 2413 No processing is performed by the platform at this step.

## 2414 7.24.7 PUBLICATION

### 2415 7.24.7.1 PUBLICATION BEHAVIOUR

2416 No specific behaviour applies to this data item.

### 2417 7.24.7.2 FILTERING AND SORTING CRITERIA

2418 Data shall be visually accessed by selecting the following:

2419 - Region (for flow-based)

2420 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only  
2421 those that partially or completely cover the Country)

2422 - One or several Bidding Zones (Selection is Mandatory)

2423 - Contract Type

2424 - Day (Selection is mandatory)

### 2425 7.24.7.3 DISPLAY

2426 This data shall be displayed in the following section:

#### 2427 - **Implicit Auctions**

2428 The following attributes of data shall be displayed:

2429 - Title

2430 - Capacity calculation method (ATC- or flow-based)

2431 - Region (for flow-based)

2432 - Day

2433 - Contract Type

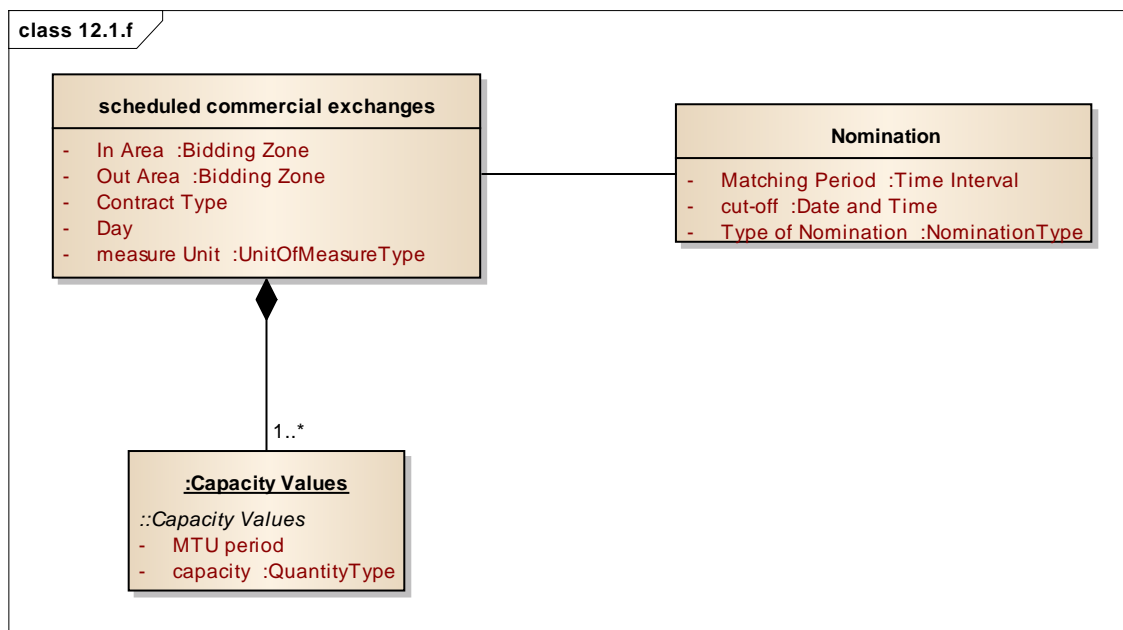
2434 - The following is repeated for each border or Bidding Zones (for flow-based): Name of  
2435 Bidding Zone(s) and currency and for each MTU Period within the selected day, the revenue  
2436 amount. When selected Contract Type is Intraday, revenue amounts are displayed for each  
2437 Delivery Period during the selected day.

2438

## 7.25 SCHEDULED COMMERCIAL EXCHANGES [12.1.F]

### 7.25.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

### 7.25.2 PRE-CONFIGURATION

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

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

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

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

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

2458 intraday values shall be submitted no later than two hours (H+2) after the intraday  
2459 nomination.

### 2460 7.25.3 ASSUMPTIONS

2461 Updates are submitted only if schedule has been modified. As a consequence, monitoring of  
2462 submission deadlines for updates are not feasible and will not be performed.

2463 Platform does not perform any aggregations for day-ahead or intraday values.

2464 Platform will monitor the separate submission deadlines for day-ahead and intraday values.  
2465 If there is more than one intraday nomination on the given border, platform will monitor the  
2466 first submission of intraday values only.

### 2467 7.25.4 INTEGRATION

2468 - Bidding Zones shall be recognised by the platform

2469 - The Data Provider shall be consistent with the identified Bidding Zones

2470 - The time interval in the submitted document is of one day

### 2471 7.25.5 MONITORING

2472 For each couple of In and Out Areas, the submission of day-ahead and first submission of  
2473 intraday values described in section 7.25.2 shall be monitored. If no data has been  
2474 submitted, all declared Data Providers will be notified.

### 2475 7.25.6 PROCESSING

2476 If for a given Bidding Zone couple and MTU period more than one Data Provider has  
2477 submitted data, platform will publish the value from the Data Provider with highest priority.

### 2478 7.25.7 PUBLICATION

#### 2479 7.25.7.1 PUBLICATION BEHAVIOUR

2480 Day-ahead and intraday values will be published separately on the same data view.

#### 2481 7.25.7.2 FILTERING AND SORTING CRITERIA

2482 Data shall be visually accessed by selecting the following:

2483 - Day (Selection is mandatory)

2484 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include  
2485 only those that partially or completely cover the Country)

2486 - Bidding Zones couple or Bidding Zone

### 2487 7.25.7.3 DISPLAY

2488 This data shall be displayed in the following section:

#### 2489 - **Transmission / Scheduled day-ahead commercial exchanges**

2490 The following attributes of data shall be displayed:

2491 - Title

2492 - selected Day

2493 - Measurement Unit

2494 - MTU

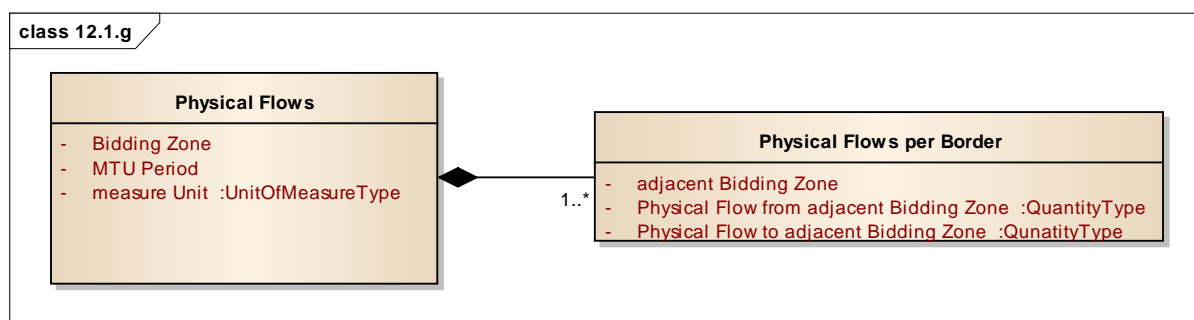
2495 - for each couple of Bidding Zones, for each Market Time Unit within the selected day, the  
2496 day-ahead and intraday values per direction in each Bidding Zone

2497

## 7.26 PHYSICAL FLOWS [12.1.G]

### 7.26.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

### 7.26.2 PRE-CONFIGURATION

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

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

### 7.26.3 ASSUMPTIONS

Data Provider must have the same priority for both directions.

## 2522 7.26.4 INTEGRATION

- 2523 - Bidding Zones or countries shall be recognised by the platform
- 2524 - The Data Provider shall be consistent with the identified couple of Bidding Zones or  
2525 countries
- 2526 - Data will be rejected if data provider configured as sending netted values sends non-netted  
2527 values
- 2528 - Data will be rejected if data provider configured as sending non-netted values actually  
2529 sends netted values (i.e. submits values in one direction only).

## 2530 7.26.5 MONITORING

- 2531 For a given couple of Bidding Zones or countries where Physical Flows are expected, the  
2532 submission deadline described above shall be monitored for every MTU Period. If no data  
2533 has been received, all declared Data Providers will be notified.

## 2534 7.26.6 PROCESSING

- 2535 If Data Provider is configured as submitting non-netted values for a given couple of Bidding  
2536 Zones (or countries) and MTU period, platform shall calculate net value.
- 2537 If Data Provider is configured as submitting netted values, the absence of a value in a given  
2538 direction and MTU period shall be treated as a zero value.
- 2539 Values from all senders (when applicable) are to be stored in the database, with the  
2540 indication of the associated priority.

## 2541 7.26.7 PUBLICATION

### 2542 7.26.7.1 PUBLICATION BEHAVIOUR

- 2543 The following precedence rule applies, when more than one party is responsible for the  
2544 submission of data:
- 2545 - For a given direction between a couple of Bidding Zones (or countries) and a given MTU  
2546 Period, the platform shall publish the net value available from the party with the highest  
2547 priority
- 2548 - If, for a given MTU Period, data is missing from the provider with the highest priority, then  
2549 the net value from the Data Provider with the inferior priority shall be displayed if available  
2550 (and so on if more than two providers).

2551    **7.26.7.2    FILTERING AND SORTING CRITERIA**

2552    Data shall be visually accessed by selecting the following:

2553    - Day (Selection is mandatory)

2554    - Country or Bidding Zone, alternatively couple of countries or Bidding Zones

2555

2556    **7.26.7.3    DISPLAY**

2557    This data shall be displayed in the following section:

2558    **- Cross-Border Physical Flows**

2559    The following attributes of data shall be displayed:

2560    - Title

2561    - Selected day

2562    - Measurement Unit

2563    - For each Bidding Zone or country couple, for each Market Time Unit within the selected  
2564    day, the netted physical flow values in each direction

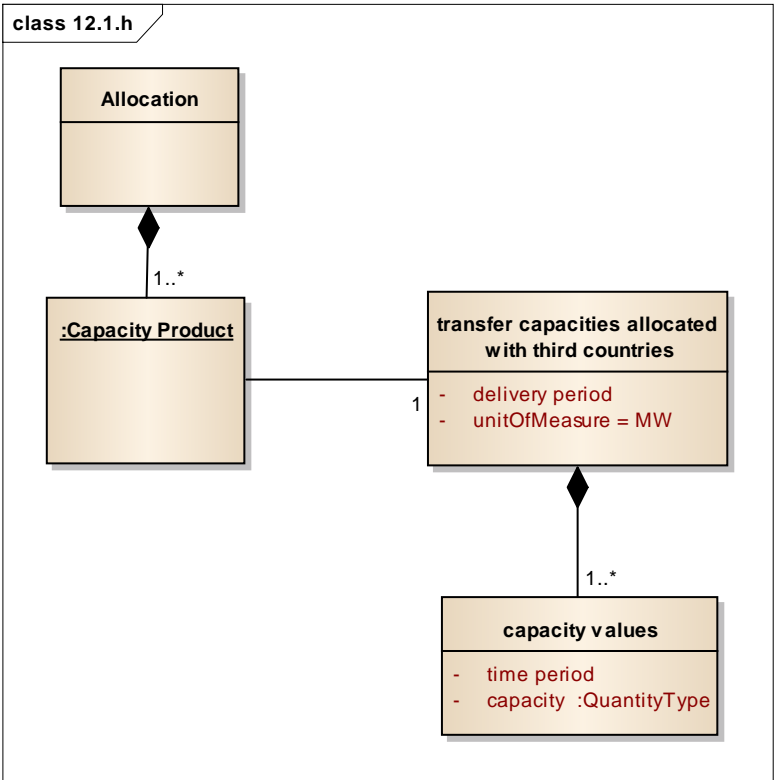
2565



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

2581 - If for a given auction instance the In Area or Out Area of a capacity product is a third  
2582 country, the data "Transfer Capacities allocated with third countries" shall be expected by the  
2583 platform. Refer to chapter 7.28.1.2 for details on the configuration of an auction's capacity  
2584 products.

2585 - For each capacity product, the unique allowed Data Provider is the one indicated by the  
2586 Transmission Auction configuration. Refer to chapter 7.28.1.3 for details.

2587 - For each auction instance, the submission deadline: One hour after end of the capacity  
2588 allocation period.

2589 Submission deadline is the same for all the Auction's products.

### 2590 7.27.3 ASSUMPTIONS

2591 No specific assumptions apply to this data item.

### 2592 7.27.4 INTEGRATION

2593 - The Data Provider shall be consistent with the capacity product

### 2594 7.27.5 MONITORING

2595 The submission deadline shall be monitored for each explicit auction's capacity products that  
2596 cover a third country.

### 2597 7.27.6 PROCESSING

2598 No processing is performed by the platform on this data item.

### 2599 7.27.7 PUBLICATION

#### 2600 7.27.7.1 PUBLICATION BEHAVIOUR

2601 No particular behaviour applies to this data item.

#### 2602 7.27.7.2 FILTERING AND SORTING CRITERIA

2603 Data shall be visually accessed by selecting the following:

2604 - Allocation type: Explicit or implicit

2605 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover  
2606 the Country will be used as filtering criteria)

2607 - Areas couple (Selection is Mandatory)

2608 - Direction (Selection is Optional)

2609 - Date or date range (Selection is mandatory)

2610 - capacity product (i.e. contract type), selection is optional

### 2611 7.27.7.3 DISPLAY

2612 This data shall be displayed in the following section:

#### 2613 - **Transmission / Transfer capacities allocated with third countries**

2614 The following attributes of data shall be displayed:

2615 - Title

2616 - Allocation type

2617 - Areas name

2618 - Date or date range

2619 - Contract Type

2620 - Measurement Unit

2621 - Attributes of the applicable capacity product(s): contract type, classification category,  
2622 classification sequence and allocated capacity value.

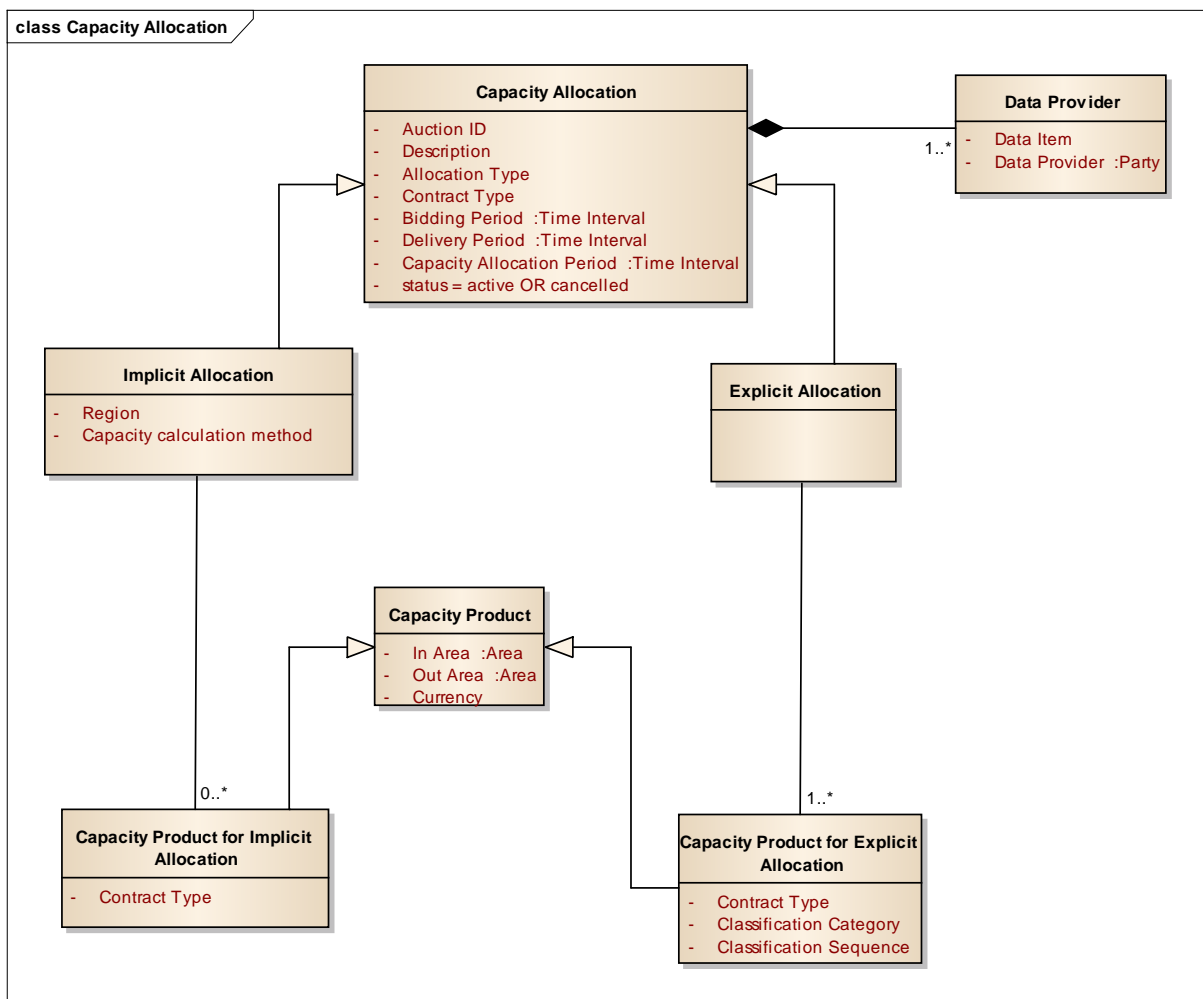
2623 If capacity values vary during the delivery period, it shall be possible to expand the view so  
2624 that they are displayed as a curve and in a table.

## 7.28 CONFIGURATION OF TRANSMISSION CAPACITY ALLOCATION

### 7.28.1 DATA DESCRIPTION

#### 7.28.1.1 CAPACITY ALLOCATIONS

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



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

For implicit allocations, optionally the allocation type may be specified (Market Coupling or Market Splitting). For implicit allocations, the capacity calculation method is either ATC-based or flow-based. For explicit auctions, by default the allocation type is not specified but

- 2637 may in particular cases be “shadow auction” or “continuous”. Capacity calculation method is  
2638 always ATC-based for explicit allocations.
- 2639 For implicit allocations, optionally a Region may be indicated. Region is mandatory when  
2640 capacity calculation method is flow-based.
- 2641 For explicit allocations, optionally a Conducting Party may be declared.
- 2642 The Auction ID may never be modified once an Allocation has been created.
- 2643 Instances of capacity allocations have specific bidding, allocation and delivery periods.
- 2644 Allocations typically take place on a recurring basis, for example in December every year to  
2645 sell capacity products for use during the following year (i.e. yearly products). The Contract  
2646 Type determines the frequency, i.e. once a year, once a month, every day, etc.
- 2647 Exceptionally, there may also be non-recurring allocations, held at a single occasion only.
- 2648 For every allocation, it shall be possible to record the date(s) and time(s) when it is being  
2649 held. It shall be possible to select the date(s) using a calendar.
- 2650 For recurring allocations, it shall be possible to record exceptions to the configuration that  
2651 apply on a specific instance of the allocation (i.e. on a specific date). Examples of exceptions  
2652 are extending the capacity allocation period, excluding or adding one or several capacity  
2653 products from/to the capacity allocation or cancelling the whole capacity allocation instance.
- 2654 It shall be possible to cancel a capacity allocation instance. When a capacity allocation is  
2655 cancelled, as a consequence platform will not expect any data submissions related to the  
2656 capacity allocation or its products.

## 2657 7.28.1.2 CAPACITY PRODUCTS

- 2658 Each capacity allocation is associated with one or several capacity products. Each capacity  
2659 product is described by the following mandatory attributes: In Area, Out Area, Currency and  
2660 Contract Type. For implicit allocations, Contract Type must be Day-Ahead or Intraday. For  
2661 products associated with explicit allocations, additionally the attributes Classification  
2662 Category and Classification Sequence are mandatory.
- 2663 All capacity products associated with a given capacity allocation must have the same  
2664 contract type as the capacity allocation, i.e. yearly products for a yearly auction only, etc.
- 2665 By default the capacity product will be applicable during the capacity allocation’s Delivery  
2666 Period. As a consequence, platform will expect data for the Capacity Product and  
2667 corresponding Bidding Zones. When a capacity product exceptionally has been excluded

2668 from a capacity allocation instance<sup>23</sup>, platform shall not expect any data submissions related  
2669 to that product.

2670 For implicit allocations having flow-based capacity calculation method, capacity products do  
2671 not apply.

### 2672 7.28.1.3 DATA PROVIDERS

2673 For a transmission capacity allocation, as specified by the combination of Auction ID,  
2674 Contract Type and capacity products, the relevant Data Providers must be configured as  
2675 well. For each applicable data item, the unique Data Provider is to be selected.

2676 For implicit allocations with ATC-based capacity calculation method as well as explicit  
2677 capacity allocations:

2678 - Offered Transfer Capacity [11.1]

2679 - Transfer Capacities Allocated with Third Countries [12.1.h]

2680 For implicit allocations with flow-based capacity calculation method:

2681 - Flow-based capacity allocation [11.1]

2682 For implicit capacity allocations:

2683 - Net Positions [12.1.e]

2684 - Congestion Income [12.1.e]

2685 For explicit capacity allocations:

2686 - Use of the Transfer Capacity [12.1.a]

2687 - Auction revenue [12.1.a]

2688 - Total Capacity already Allocated [12.1.c]

2689

### 2690 7.28.2 MONITORING

2691 No monitoring will be performed on the submission of capacity allocation configuration.

---

<sup>23</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.

### 2692 7.28.3 CREATION OF CAPACITY ALLOCATION

2693 Capacity allocations may be created through machine-to-machine data submission and via  
2694 human-to-machine submission. For human-to-machine submission, there shall be a  
2695 webpage, where creation or modification of capacity allocations will require authentication<sup>24</sup>.

2696 Data Providers shall be permitted to create capacity allocations. Platform administrator in  
2697 ENTSO-E shall be able to create and modify capacity allocations on behalf of Data  
2698 Providers.

2699 When capacity allocation is created, the uniqueness of the ID shall be verified by checking  
2700 that no other capacity allocation on platform with same ID already exists. Note that the  
2701 assignation of ID assumes a manual procedure that is outside the scope of the central  
2702 platform.

2703 When creating or modifying capacity allocations, the values of the following attributes shall  
2704 be validated against list of permitted values held in platform's master data: Type, sub-type, In  
2705 Area, Out Area, combination of In and Out Areas, Contract Type, Classification Category and  
2706 Currency.

2707 When creating a capacity allocation via the webpage, it shall be possible to use an already  
2708 defined capacity allocation as template when defining a new one.

### 2709 7.28.4 UPDATES TO CAPACITY ALLOCATIONS

2710 The Data Provider that created the capacity allocation may update the data at any time. ID  
2711 will be used to match updated data to Auction.

2712 Platform shall validate that capacity allocation with quoted ID already exists. If not, update  
2713 will be rejected.

2714 Platform will validate that Data Provider performing update is consistent with the Data  
2715 Provider recorded for the capacity allocation. Platform administrator in ENTSO-E shall be  
2716 able to update capacity allocation on behalf of Data Provider.

2717 Deletions are not foreseen under normal circumstances, but could be performed in  
2718 exceptional situations by platform administrator in ENTSO-E.

### 2719 7.28.5 QUERIES OF REFERENCE DATA FOR CAPACITY ALLOCATIONS

2720 Data on capacity allocation shall be made available for visual inspection and download via  
2721 web page.

---

<sup>24</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.

## 2722 7.28.5.1 FILTERING AND SORTING CRITERIA

2723 It shall be possible to search for a capacity allocation by using ID as search criterion.

2724 Also, it shall be possible to retrieve several capacity allocations at the same time, by  
2725 specifying the following filtering and sorting criteria:

2726 - Country: –Selection is optional. If selected, In and/or Out Areas that at least partially cover  
2727 the Country will be used as filtering criteria

2728 - Area: Selection is mandatory, one or several may be chosen

2729 - Date: Selection is mandatory, one day or range may be chosen. By default the current date  
2730 shall be used. This date or date range will be used to filter auctions by delivery period.

2731 - Auction type: Explicit or implicit, selection is optional

2732 - Contract type: Selection is optional

## 2733 7.28.5.2 DISPLAY

2734 This data shall be displayed in the following section:

### 2735 - **Transmission / Auctions**

2736 The following attributes of data shall be displayed:

2737 - Description

2738 - ID

2739 - Allocation Type: Explicit or implicit

2740 - Allocation sub-type (when applicable)

2741 - Conducting Party (when applicable)

2742 - Region (when applicable)

2743 - Effective Date

2744 - Bidding, Capacity Allocation and Delivery Period

2745 - Data Provider that created capacity allocation: Shall only be displayed towards  
2746 authenticated users.

2747 - Capacity Products and their attributes

2748 - Clear indication when capacity allocation has been cancelled or capacity product excluded



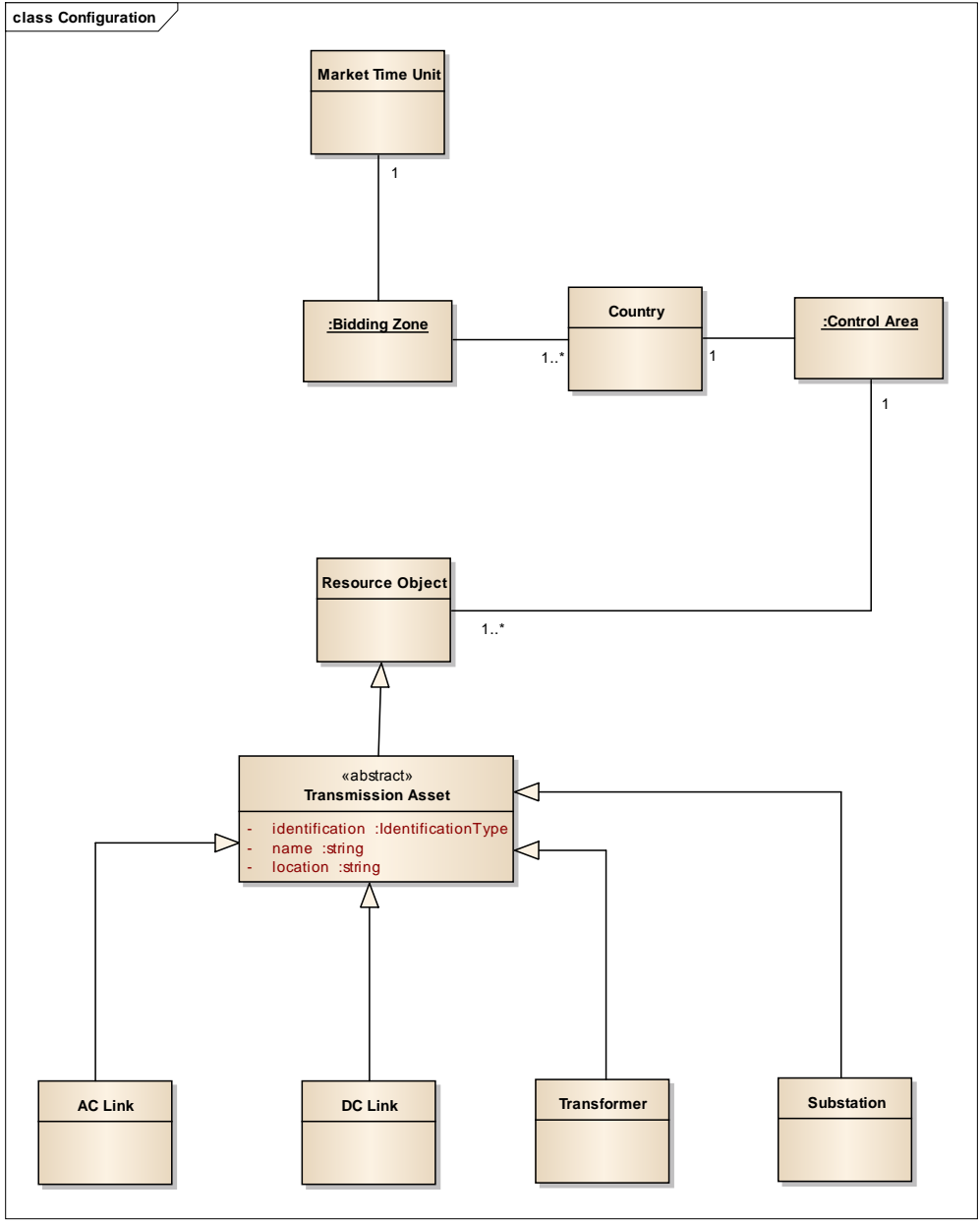
- 2749 - For each applicable data item, the unique Data Provider: Shall only be displayed towards  
2750 authenticated users
- 2751 Data shall be displayed in a Table.
- 2752

## 8 CONGESTION MANAGEMENT

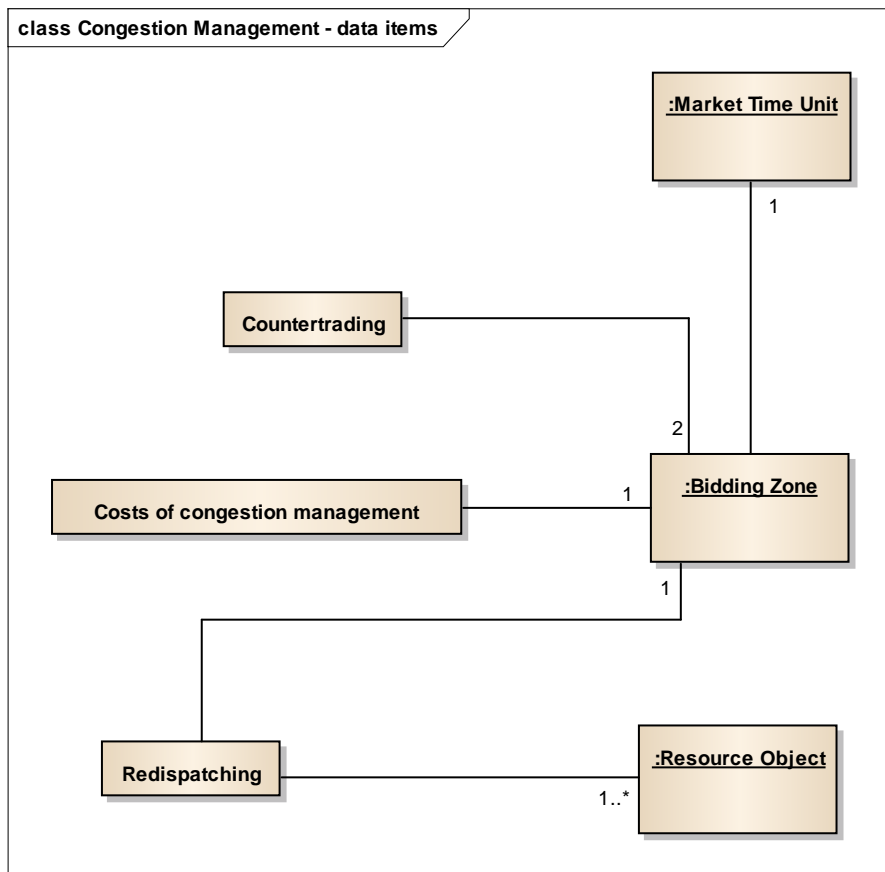
### 8.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 8.1.1 FUNDAMENTAL ENTITIES

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



2759 For Congestion Management, the following relations between the fundamental entities and  
2760 the required information have been identified:



- 2761
- 2762 **8.1.2 PRE-CONFIGURATION**
- 2763 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
2764 reference data:
- 2765 - [C-CGT-1] a list of Bidding Zones. This is the same configuration as for Generation, Load  
2766 and Transmission
- 2767 - [C-CGT-2] for each Bidding Zone, the Market Time Unit. This is the same configuration as  
2768 for Generation, Load and Transmission
- 2769 - [C-CGT-3] a list of redispatching actions: Production increase or decrease, load increase or  
2770 decrease
- 2771 - [C-CGT-4] a list of countertrading actions: Cross-zonal exchange increase or decrease
- 2772 - [C-CGT-5] for each Control Area, the single authorized Data Provider, identified by a unique  
2773 Code. This is the same configuration as for Generation and Load

2774 - [C-CGT-6] for each Bidding Zone, the Currency. This is the same configuration as for  
2775 Transmission

2776 - [C-CGT-7] a list of Control Areas. This is the same configuration as for Generation and  
2777 Load

2778 - [C-CGT-8] a list of countries and for each country, the corresponding Control Area(s). This  
2779 is the same configuration as for Generation and Load

2780 - [C-CGT-9] a list of reasons for congestion management: "Load flow overload" and "Voltage  
2781 level adjustment"

### 2782 8.1.3 DATA CONTAINER STATUS / DATA STATUS

2783 All data items follow the "None / Ready for publication" scheme.

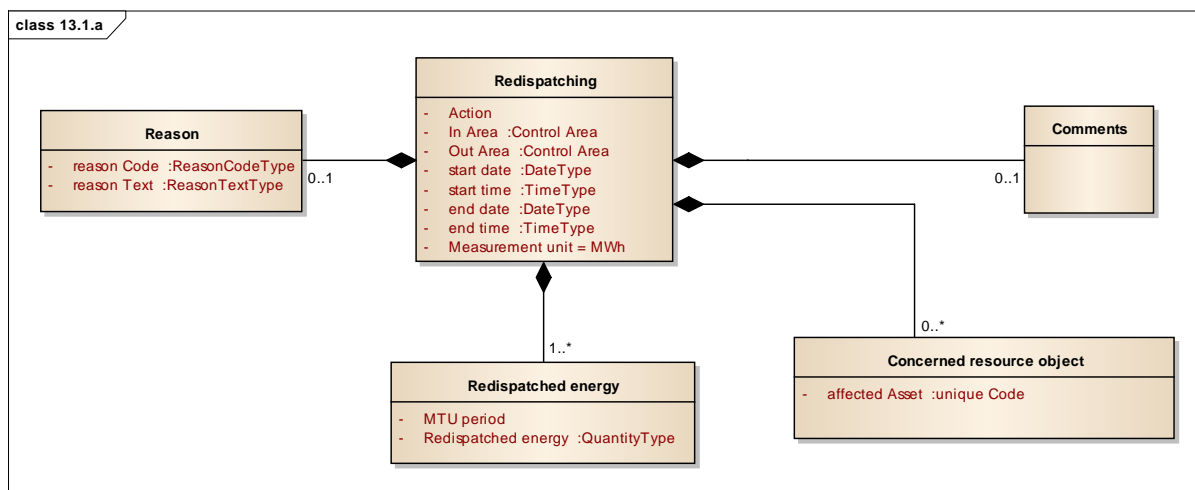
2784

2785

## 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.

2815  
2816 Data Provider may choose to include in one single data submission values for a time interval  
2817 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
2818 MTU.

2819  
2820 For a given area, there may be several instances of redispatching occurring at the same  
2821 time. No aggregation is performed on platform and every submitted and successfully  
2822 validated instance will be published.

## 2823 8.2.4 INTEGRATION

- 2824  
2825 - Areas are recognised by platform  
2826  
2827 - Data Provider is consistent with area(s)  
2828  
2829 - Data Provider is consistent with concerned resource objects. This validation shall trigger a  
2830 warning only.  
2831 - Concerned resource objects, if provided, are recognised by the platform.  
2832  
2833 - Concerned resource objects are located within the Area(s). This validation shall trigger a  
2834 warning only.  
2835 - Action is among the values prescribed by pre-configuration [C-CGT-3]  
2836  
2837 - Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]  
2838  
2839 - Document should not be submitted before the start date and time declared within the  
2840 document. Reason being that this is ex-post information. This validation shall trigger a  
2841 warning only.  
2842  
2843 The time interval in the submitted document is of one MTU at least and is a multiple of the  
2844 MTU identified for the area as per [C-CGT-2].

## 2845 8.2.5 MONITORING

2846 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
2847 is performed. Submission deadlines are not relevant to this data item.

## 2848 8.2.6 PROCESSING

2849 No processing is performed on this data item.

## 2850 8.2.7 PUBLICATION

### 2851 8.2.7.1 FILTERING AND SORTING CRITERIA

2852 Data shall be visually accessed by selecting the following:

2853 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
2854 partially or completely cover the Country)

2855 - Area(s) (selection is mandatory, at least one must be selected)

2856 - Day or date range (selection is mandatory)

## 2857 8.2.7.2 DISPLAY

2858 This data shall be displayed in the following section:

### 2859 - **Congestion Management / Redispatching**

2860 The following attributes of data shall be displayed:

2861 - Area(s)

2862 - Market Time Unit

2863 - Start and end dates and times

2864 - Measurement Unit

2865 - The action

2866 - For each MTU period during the matching redispatching time intervals, the redispatched  
2867 energy.

2868  
2869 - Reason, if provided

2870  
2871 - Comments, if provided

2872  
2873 - A list of concerned resource objects, if available, with links to pages on central platform  
2874 providing more details on the resource objects.

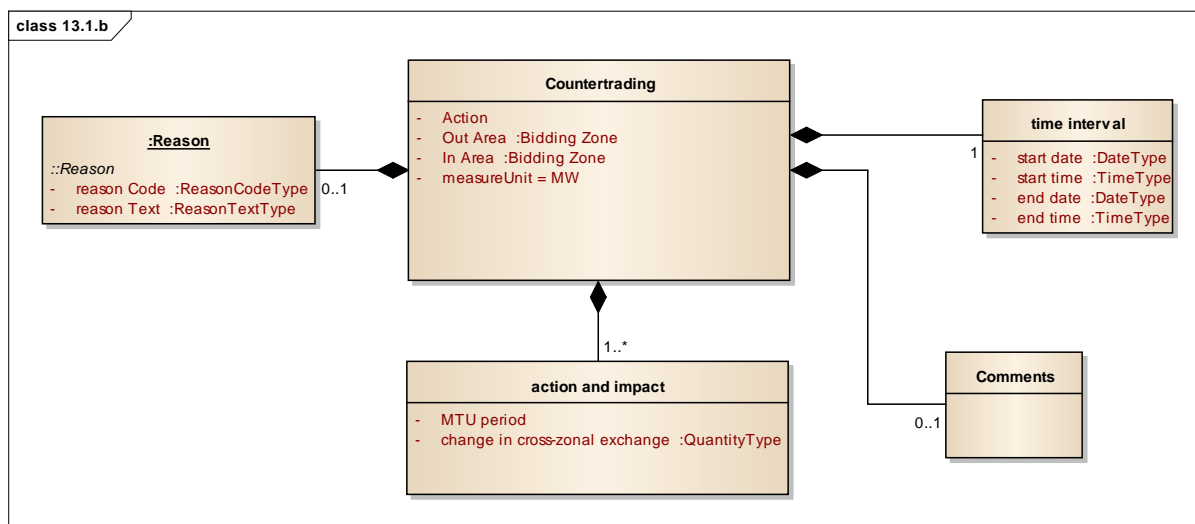
2875  
2876 Data shall be published as a table and as a chart.

2877

## 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.



## 2903 8.3.4 INTEGRATION

- 2904 - Bidding Zones and Control Area are recognised by platform
- 2905
- 2906 - Data Provider is consistent with Control Area
- 2907
- 2908 - Action is among the values prescribed by pre-configuration [C-CGT-4]
- 2909
- 2910 Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 2911
- 2912 - Document should not be submitted before the end of the MTU. Reason being that this is ex-
- 2913 post information. This validation shall trigger a warning only.
- 2914
- 2915 The time interval in the submitted document is of one MTU at least and is a multiple of the
- 2916 MTU identified for the Bidding Zone as per [C-CGT-2].

## 2917 8.3.5 MONITORING

- 2918 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
- 2919 is performed. Submission deadlines are not relevant to this data item.

## 2920 8.3.6 PROCESSING

- 2921 No processing is performed on this data item.

## 2922 8.3.7 PUBLICATION

### 2923 8.3.7.1 FILTERING AND SORTING CRITERIA

- 2924 Data shall be visually accessed by selecting the following:
- 2925 - Country (selection is optional: If selected, couple of Bidding Zones will be filtered to include
- 2926 only those that partially or completely cover the Country)
- 2927 - Bidding Zone couple (selection is mandatory)
- 2928 - Day or date range (selection is mandatory)

### 2929 8.3.7.2 DISPLAY

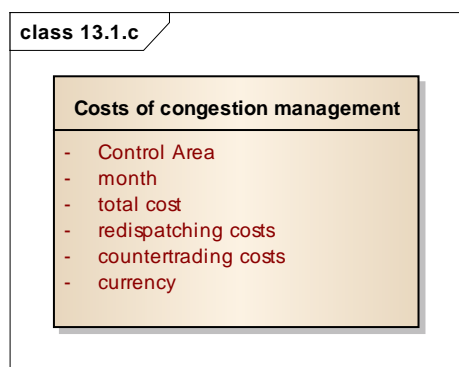
- 2930 This data shall be displayed in the following section:
- 2931 - **Congestion Management / Countertrading**
- 2932 The following attributes of data shall be displayed:
- 2933 - In and Out Areas

- 2934 - Market Time Unit
- 2935 - Start and end dates and times
- 2936 - Measurement Unit
- 2937 - Reason, if available
- 2938 - Comments, if available
- 2939 - For each MTU period during the matching countertrading time intervals, the Action and
- 2940 change in cross-zonal exchange
- 2941
- 2942 Data shall be published as a table and as a chart.
- 2943

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

### 8.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

Document shall cover one single Control Area only.

### 8.4.2 PRE-CONFIGURATION

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

### 8.4.3 ASSUMPTIONS

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

### 8.4.4 INTEGRATION

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

2970     **8.4.5 MONITORING**

2971     Due to the nature of the data, frequency of submission is not fixed and hence no monitoring  
2972     is performed. Submission deadlines are not relevant to this data item.

2973     **8.4.6 PROCESSING**

2974     Platform will per Control Area and month calculate costs for other remedial action, by  
2975     subtracting from total cost the costs of redispatching and countertrading.

2976     **8.4.7 PUBLICATION**

2977     **8.4.7.1     FILTERING AND SORTING CRITERIA**

2978     Data shall be visually accessed by selecting the following:

2979     - Country (selection is optional: If selected, Control Area will be filtered to include only those  
2980     that partially or completely cover the Country)

2981     - Control Area (selection is mandatory)

2982     - Month range (selection is mandatory)

2983     **8.4.7.2     DISPLAY**

2984     This data shall be displayed in the following section:

2985     - **Congestion Management / Costs**

2986     The following attributes of data shall be displayed:

2987     - Control Area

2988     - Currency

2989     - Selected month range

2990     - For each month, the total cost, costs of redispatching, costs of countertrading and costs for  
2991     other remedial actions

2992     Data shall be published as a table and chart.

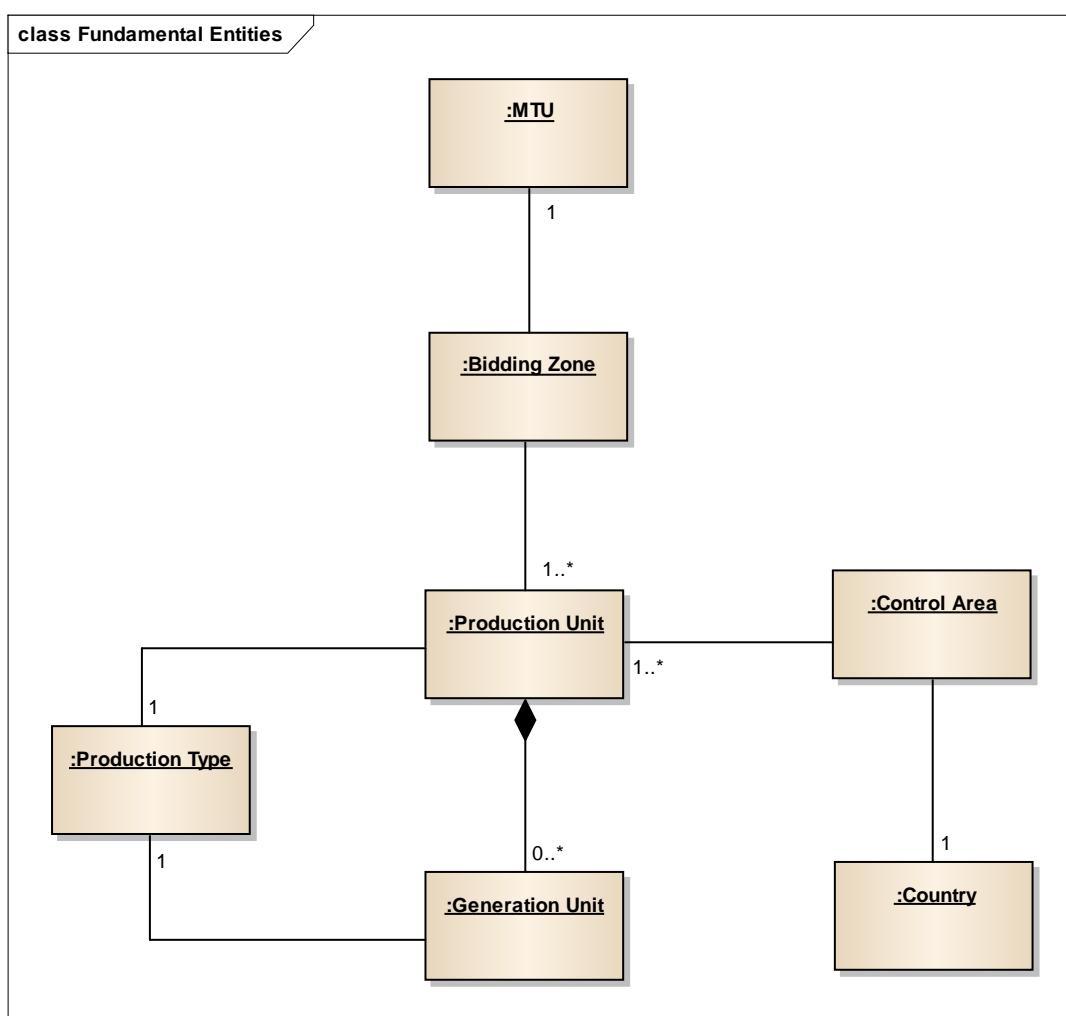
2993

## 2994 9 GENERATION

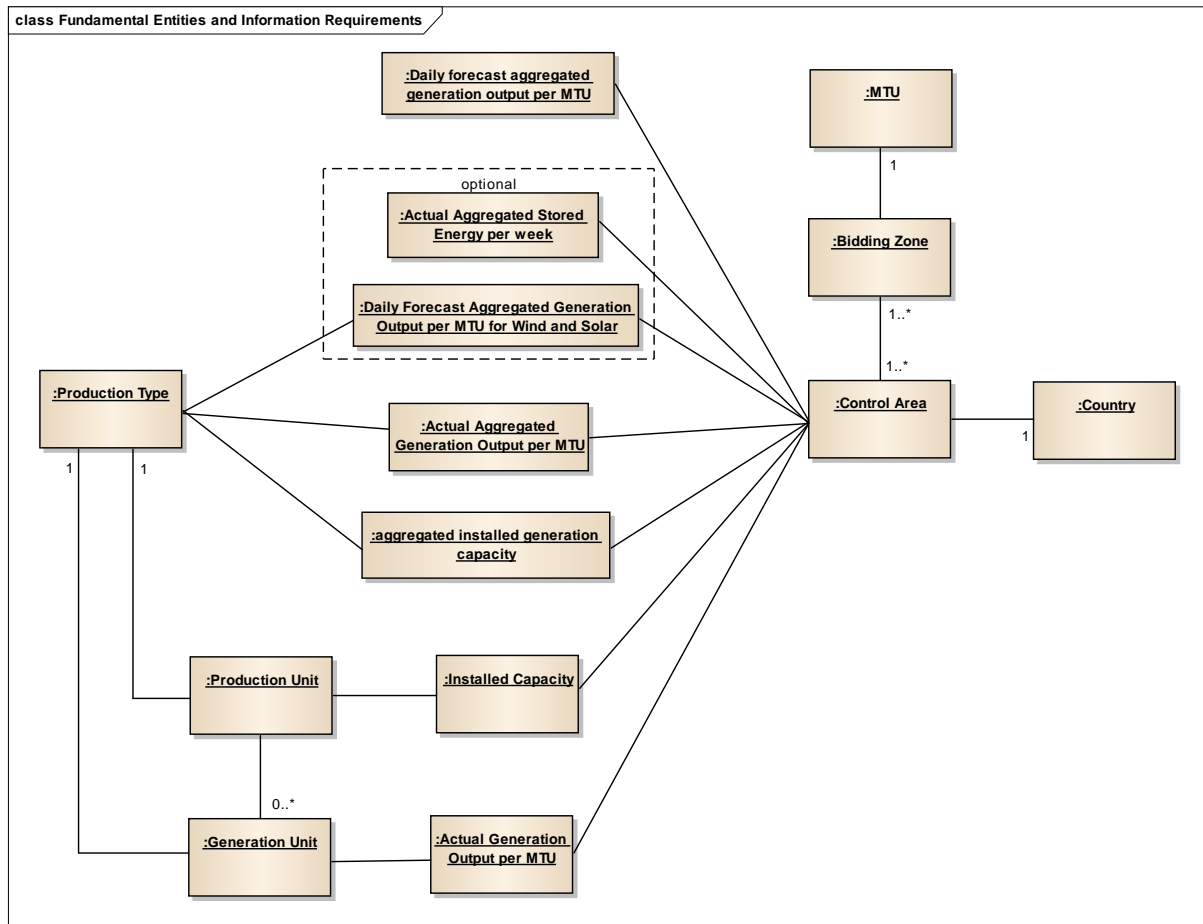
### 2995 9.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 2996 9.1.1 FUNDAMENTAL ENTITIES

2997 The following class diagram describes the fundamental entities to be taken into account  
2998 within the scope of this document in order to pre-configure the platform.



- 2999
- 3000 • For a given Bidding Zone, there will be a Market Time Unit
  - 3001 • For a given Bidding Zone, there will be a list of Production and Generation Units. Every
  - 3002 Production and Generation Unit is of exactly one Production Type
  - 3003 • Country will be deduced based on Control Area



3004

3005 Optional means here that submission of data is necessary only when power from  
3006 corresponding Production Types exceed certain thresholds, as stipulated in [1].

3007 It must be possible to determine to which bidding zone and control area that generation data  
3008 contained in submitted documents refer to<sup>25</sup>.

## 3009 9.1.2 PRE-CONFIGURATION

3010 The platform administrator at ENTSO-E shall pre-configure application with the following  
3011 reference data:

3012 - [C-GNR-1] a list of Bidding Zones

3013 - [C-GNR-2] a list of Production Types

3014 - [C-GNR-3] for each Bidding Zone the Market Time Unit, expressed as duration

<sup>25</sup> If format of data does not permit explicit declaration of Control Area it may be deduced from Sender.

- 3015 - [C-GNR-4] for each Bidding Zone, Control Area and data item subject to publication, the  
3016 allowed Data Providers, identified by unique Codes<sup>26</sup>
- 3017 - [C-GNR-7] a percentage tolerance that indicates how much scheduled or actual capacity  
3018 may exceed installed capacity. This is a single value common to all Generation Units and will  
3019 be set to 25%. If tolerance is exceeded, only a warning will be triggered.
- 3020 The following reference data will be managed by Data Providers:
- 3021 - [C-GNR-5] a list of Production and Generation Units, refer to chapter 9.9 for further details.  
3022 This will be used for validation during the integration step.
- 3023 - [C-GNR-8] a list of Control Areas
- 3024 - [C-GNR-9] a list of countries and for each country, the corresponding Control Area(s)

### 3025 9.1.3 PUBLICATION

- 3026 For data items that do not require aggregation, data is published as soon as received, except  
3027 for data item [16.1.a] where publication will be pending a specified delay.
- 3028 For data items that require aggregation, aggregated values only shall be published. Data is  
3029 being published as soon as it is complete, i.e. when all relevant Data Providers have  
3030 submitted their contributions. However, if by the submission deadline data is still pending  
3031 from one or several Data Providers, the aggregated value shall be published with a clear  
3032 indication that the final value is pending further data submissions.

---

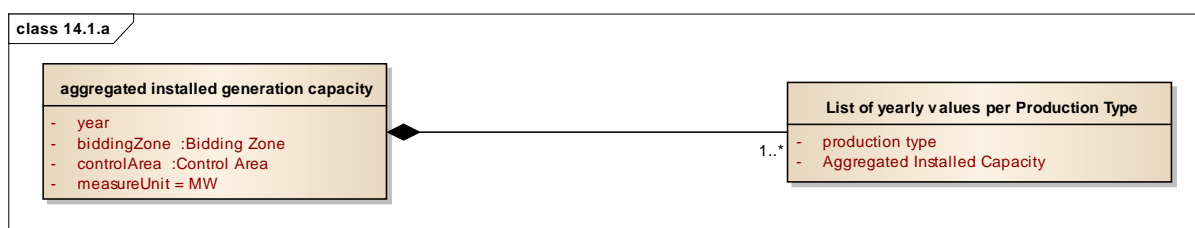
<sup>26</sup> Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

## 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.



## 3056 9.2.5 MONITORING

3057 For a given Bidding Zone and year data is expected. This is controlled by pre-configuration  
3058 [PC14.1.A-1]. For every Bidding Zone and year at least one Capacity Value is expected for at  
3059 least one Production Type. The submission deadline [PC14.1.A-2] will be monitored for  
3060 compliance.

3061 For a given Bidding Zone, data is not considered complete before all Data Providers  
3062 declared per pre-configuration [C-GNR-4] have submitted their data contributions. If by the  
3063 deadline only some Data Providers have submitted data, the data will be considered  
3064 “missing”.

## 3065 9.2.6 PROCESSING

3066 Submitted Capacity values shall be aggregated per Country, Bidding Zone, Production Type  
3067 and year. Aggregation here means simply adding up the submitted Capacity values.

3068 Submitted Capacity values shall also be aggregated per Country, Bidding Zone and year for  
3069 the purpose of calculating a grand total value for the whole Country or Bidding Zone,  
3070 common to all Production Types.

3071 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3072 9.2.7 DATA CONTAINER STATUS / DATA STATUS

3073 This data item follows the “None / Ready for publication / Missing” scheme.

## 3074 9.2.8 PUBLICATION

### 3075 9.2.8.1 FILTERING AND SORTING CRITERIA

3076 Data shall be visually accessed by selecting the following:

- 3077 - Country or Bidding Zone: selection is mandatory
- 3078 - Production Type: selection is optional, one or several may be chosen
- 3079 - Year: selection is mandatory, single year or a range may be chosen

### 3080 9.2.8.2 DISPLAY

3081 This data shall be displayed in the following section:

3082 - **Generation / Aggregated Installed Capacity**

3083 The following attributes of data shall be displayed:

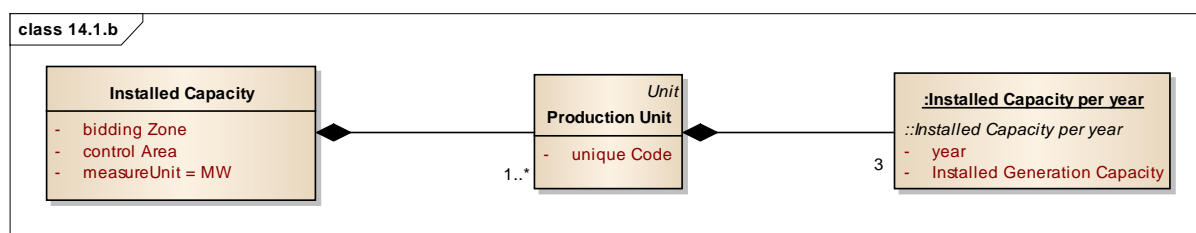
- 3084 - Country or Bidding Zone name
- 3085 - Capacity per Production Type for each year
- 3086 Grand total Capacity for each year shall also be displayed.
- 3087 User shall have the choice between displaying data in a Table, Map or Pie Chart.
- 3088

## 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>27</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>27</sup> Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

3109 **9.3.6 PROCESSING**

3110 No processing performed on this data item.

3111 **9.3.7 DATA CONTAINER STATUS / DATA STATUS**

3112 Not applicable since installed capacities are recorded in Master Data.

3113 **9.3.8 PUBLICATION**

3114 **9.3.8.1 FILTERING AND SORTING CRITERIA**

3115 Data shall be visually accessed by selecting the following:

3116 - Country or Bidding Zone: selection is mandatory

3117 - Production Type: selection is optional, one or several may be chosen

3118 - Year: selection is mandatory, single year or a range to be chosen

3119 **9.3.8.2 DISPLAY**

3120 This data shall be displayed in the following section:

3121 **- Generation / List of Production Units and Installed Capacity**

3122 The following attributes of data shall be displayed:

3123 - Country or Bidding Zone name

3124 - Production Type, unique Code and Name

3125 - For every Production Unit and selected year(s), the installed capacity value(s)

3126 - For every Production Unit, the commissioning date and, if available, decommissioning date

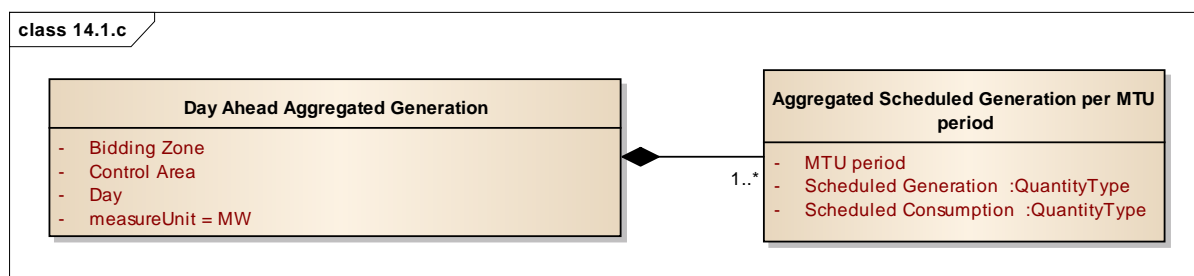
3127 Data shall be displayed in a Table.

3128 Links to pages on platform with more details on each Production Unit shall be provided.

## 3129 9.4 DAY AHEAD AGGREGATED GENERATION [14.1.c]

### 3130 9.4.1 DATA DESCRIPTION

3131 This item can be described by the following class diagram:



3132  
3133 For a given Bidding Zone and Control Area the Scheduled Generation for the day-ahead  
3134 shall be recorded. The number of values corresponds to the number of Market Time Unit  
3135 periods in one day. The fixed measure Unit is MW.

3136 Optionally, power consumed by production/generation units may be included.

### 3137 9.4.2 PRE-CONFIGURATION

3138 [PC-14.1.c-1] This data item shall be configured as expected.

3139 [PC-14.1.c-2] There is a daily submission deadline, common to all Bidding Zones.

3140 Submission must be performed not later than D-1 at 18:00 CET.

### 3141 9.4.3 ASSUMPTIONS

3142 No specific assumptions apply to this data item.

### 3143 9.4.4 INTEGRATION

3144 - Bidding Zone and Control Area shall be recognised by the platform

3145 - The Data Provider shall be consistent with the identified Control Area

### 3146 9.4.5 MONITORING

3147 For a given Bidding Zone and day, data is expected. This is controlled by pre-configuration  
3148 [PC-14.1.c-1]. Compliance with the submission deadline [PC-14.1.c-2] will be monitored.

## 3149 9.4.6 PROCESSING

3150 Submitted Scheduled Generation values shall be aggregated per Country, Bidding Zone and  
3151 Market Time Unit period. Aggregation here means simply adding up the submitted  
3152 Scheduled Generation values.

3153 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3154 9.4.7 DATA CONTAINER STATUS / DATA STATUS

3155 This data item follows the “None / Ready for publication / Missing” scheme.

## 3156 9.4.8 PUBLICATION

### 3157 9.4.8.1 FILTERING AND SORTING CRITERIA

3158 Data shall be visually accessed by selecting the following:

3159 - Country or Bidding Zone: selection is mandatory

3160 - Day: selection is mandatory, one or two consecutive days may be chosen

3161 - Start and end time: selection is mandatory, start and end time within the selected day

### 3162 9.4.8.2 DISPLAY

3163 This data shall be displayed in the following section:

3164 - **Generation / Day Ahead Aggregated Generation**

3165 The following attributes of data shall be displayed:

3166 - Country or Bidding Zone name

3167 - Measure Unit

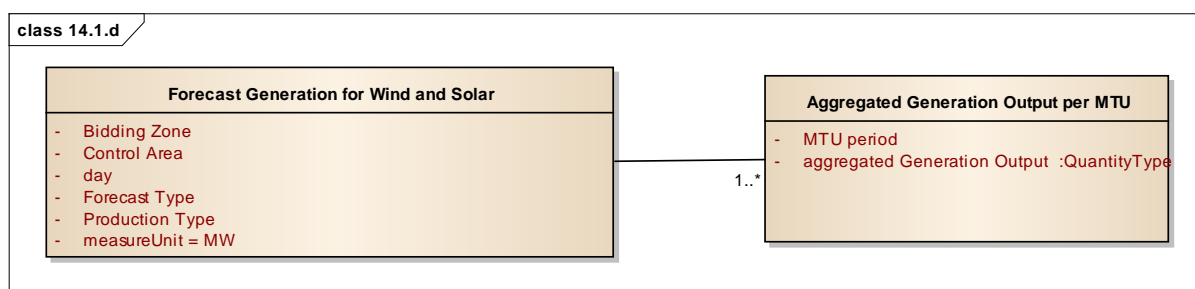
3168 - Selected Day(s)

3169 - For every MTU period within the selected day(s), the scheduled generation values, and  
3170 consumption values (if available). User shall have the choice between displaying data in a  
3171 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.

### 3197 9.5.3 ASSUMPTIONS

3198 No specific assumptions apply to this data item.

### 3199 9.5.4 INTEGRATION

3200 - Bidding Zone and Control Area shall be recognised by the platform

3201 - The Data Provider shall be consistent with the identified Control Area

### 3202 9.5.5 MONITORING

3203 If for a given Bidding Zone and Production Type the data item has been configured as  
3204 expected per [PC-14.1.d-1], compliance with submission deadlines [PC-14.1.d-2] and [PC-  
3205 14.1.d-3] will be monitored.

3206 Monitoring of the submissions of current forecast at 1800 on day D-1 and at 0800 on day D  
3207 are covered by the monitoring of the day-ahead and intraday forecasts. Any other  
3208 submissions of current forecast cannot be predicted. Hence, no monitoring of current  
3209 forecast will be undertaken.

3210 For a given Bidding Zone, data is not considered complete before all Data Providers have  
3211 submitted their data contributions. If by the deadline only some Data Providers have  
3212 submitted data, the data will be considered “missing”.

### 3213 9.5.6 PROCESSING

3214 Submitted Scheduled Values shall be aggregated per Country, Bidding Zone, Forecast type,  
3215 Production Type (wind onshore, wind offshore and solar, respectively) and Market Time Unit  
3216 period. Aggregation here means simply adding up the submitted Scheduled Values.

3217 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

### 3218 9.5.7 DATA CONTAINER STATUS / DATA STATUS

3219 This data item follows the “None / Ready for publication / Missing” scheme.

### 3220 9.5.8 PUBLICATION

#### 3221 9.5.8.1 FILTERING AND SORTING CRITERIA

3222 Data shall be visually accessed by selecting the following:

3223 - Country or Bidding Zone: selection is mandatory



3224 - Production Type: wind onshore, wind offshore or solar, selection is mandatory, one or  
3225 several may be chosen. By default all are chosen

3226 - Day: selection is mandatory, one or two consecutive days may be chosen

3227 - Start and end time: must be within the selected day(s) and selection is mandatory

## 3228 9.5.8.2 DISPLAY

3229 This data shall be displayed in the following section:

### 3230 - **Generation / Day Ahead Generation Forecasts for Wind and Solar**

3231 The following attributes of data shall be displayed:

3232 - Country or Bidding Zone name

3233 - Measure Unit

3234 - Selected day(s)

3235 - Forecast type

3236 - For the selected Production Type(s), generation forecast values for each MTU period within  
3237 the selected start and end dates and times

3238 User shall have the choice between displaying data in a Table or in a Chart.

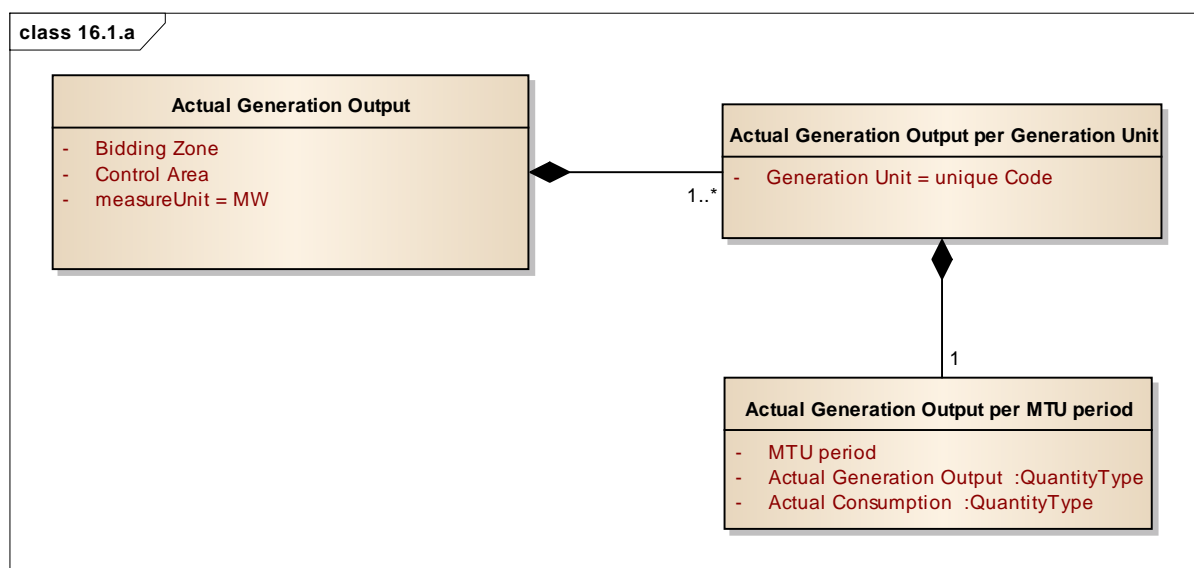
3239

## 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

3259 monitoring described in the next sections. If installed capacity has not been recorded in the  
3260 platform, the validation will trigger a warning and monitoring will not produce any notification  
3261 about missing data.

3262 Data Provider may choose to include in one single data submission values for a time interval  
3263 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3264 MTU.

## 3265 9.6.4 INTEGRATION

3266 - Bidding Zone and Control Area shall be recognised by the platform

3267 - The Data Provider shall be consistent with the identified Control Area and Generation Unit

3268 - Document should not be submitted before the end of the MTU period. Reason being that  
3269 this is ex-post information. This validation shall trigger a warning only. The warning may be  
3270 suppressed completely by changing configuration.

3271 - The Codes that identify Generation Units must already exist in the platform. This is  
3272 controlled by pre-configuration [C-GNR-5].

3273 - Generation Unit must be within the Control Area. This shall be validated against the  
3274 Generation Unit reference data described in chapter 9.9.

3275 - For each Generation Unit, it shall be validated that the actual generation output does not  
3276 exceed the Installed Capacity, recorded for the same year, by more than the percentage  
3277 tolerance expressed in [C-GNR-7]. Tolerance currently set to 25%. This validation will trigger  
3278 a warning only.

3279 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3280 MTU identified for the Bidding Zone as per [C-GNR-3].

## 3281 9.6.5 MONITORING

3282 For a given Bidding Zone and MTU period, actual generation output is expected. This is  
3283 controlled by pre-configuration [PC-16.1.a-1]. This data is expected for all Generation Units  
3284 with an installed generation capacity  $\geq 100$  MW and that are in status Commissioned during  
3285 the MTU period. The submission deadline [PC-16.1.a-2] will be monitored for compliance.

## 3286 9.6.6 PROCESSING

3287 No further processing is performed on this data item.

## 3288 9.6.7 DATA CONTAINER STATUS / DATA STATUS

3289 The ex-post data item applies the “none / waiting for publication x 2 / ready for publication /  
3290 missing” scheme.

## 3291 9.6.8 PUBLICATION

### 3292 9.6.8.1 FILTERING AND SORTING CRITERIA

3293 Data shall be visually accessed by selecting the following:

- 3294 - Country or Bidding Zone: selection is mandatory
- 3295 - Production Type: selection is optional, one or several may be chosen.
- 3296 - Production or Generation unit, selection is optional
- 3297 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3298 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3299 9.6.8.2 DISPLAY

3300 This data shall be displayed in the following section:

#### 3301 - **Generation / Actual Generation per Generation Unit**

3302 The following attributes of data shall be displayed:

- 3303 - Country or Bidding Zone name
- 3304 - Production Type, Code and Name of every Generation Unit
- 3305 - selected day(s)
- 3306 - For every Generation Unit, the actual generation output and actual consumption, if
- 3307 available, per MTU period within the selected start and end dates and times

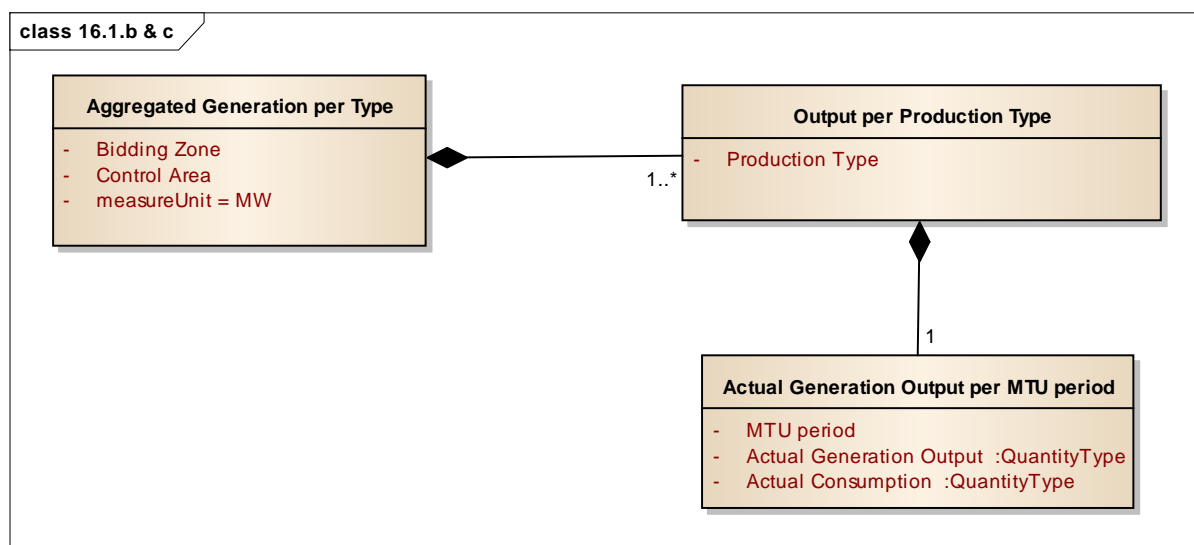
3308 Data shall be displayed in a Table.

3309 Links shall be provided to pages on central platform that provide additional details on each  
3310 Generation Unit.

## 3311 9.7 AGGREGATED GENERATION PER TYPE [16.1.B&C]

### 3312 9.7.1 DATA DESCRIPTION

3313 This item can be described by the following class diagram:



3314

3315 For a given Bidding Zone, Control Area and a given Production Type, there shall be an  
3316 Aggregated Generation Output per Market Time Unit (MTU) period. Common to all  
3317 Production Types there is a fixed measure Unit (MW).

3318 Optionally, power consumed by production/generation units may be included.

3319 Note that duration of MTU depends on Bidding Zone.

### 3320 9.7.2 PRE-CONFIGURATION

3321 [PC-16.1.bc-1] This data item shall be configured as expected.

3322 [PC-16.1.bc-2] For every Bidding Zone and MTU period there is a submission deadline.  
3323 Submission must be performed not later than one hour after the end of the MTU period.

3324 *Example: If the MTU duration in the Bidding Zone is 15 minutes, then the document that*  
3325 *covers the time 14:00-14:15 must be submitted by 15:15.*

### 3326 9.7.3 ASSUMPTIONS

3327 There is no requirement to configure per production type whether data is expected or not.

3328 Data Provider may choose to include in one single data submission values for a time interval  
3329 longer than one MTU. The time interval would in this case necessarily be a multiple of the  
3330 MTU.

#### 3331 9.7.4 INTEGRATION

3332 - Bidding Zone and Control Area shall be recognised by the platform

3333 - Production Type shall be recognised by the platform

3334 - The Data Provider shall be consistent with the identified Control Area

3335 - Document may not be submitted before the end of the MTU period. Reason being that this  
3336 is ex-post information. This validation shall trigger a warning only. The warning may be  
3337 suppressed completely by changing configuration.

3338 The time interval in the submitted document is of one MTU at least and is a multiple of the  
3339 MTU identified for the Bidding Zone as per [C-GNR-3].

#### 3340 9.7.5 MONITORING

3341 For this data item, data is expected. This is controlled by pre-configuration [PC-16.1.bc-1].  
3342 For a given Bidding Zone and MTU period an actual aggregated generation output value is  
3343 expected for at least one Production Type. The submission deadline [PC-16.1.bc-2] will be  
3344 monitored for compliance.

3345 For a given Bidding Zone, data is not considered complete before all Data Providers  
3346 declared per pre-configuration [C-GNR-4] have submitted their data contributions. If by the  
3347 deadline only some Data Providers have submitted data, the data will be considered  
3348 “missing”.

#### 3349 9.7.6 PROCESSING

3350 Submitted actual generation values shall be aggregated per Country, Bidding Zone,  
3351 Production Type and MTU period. Aggregation here means simply adding up the submitted  
3352 actual generation values.

3353 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

#### 3354 9.7.7 DATA CONTAINER STATUS / DATA STATUS

3355 The ex-post data item applies the “none / waiting for publication / ready for publication /  
3356 missing” scheme.

## 3357 9.7.8 PUBLICATION

### 3358 9.7.8.1 FILTERING AND SORTING CRITERIA

3359 Data shall be visually accessed by selecting the following:

3360 - Country or Bidding Zone: selection is mandatory

3361 - Production Type: selection is optional, one or several may be chosen

3362 - Production and Consumption or Production only: selection is optional, by default Production  
3363 and Consumption are both displayed

3364 - Day: selection is mandatory, one or two consecutive days may be chosen

3365 - Start and end time: selection is mandatory and must be within the selected day(s)

### 3366 9.7.8.2 DISPLAY

3367 This data shall be displayed in the following section:

3368 - **Generation / Actual Aggregated Generation Output per Production Type**

3369 The following attributes of data shall be displayed:

3370 - Country or Bidding Zone name

3371 - Selected day(s)

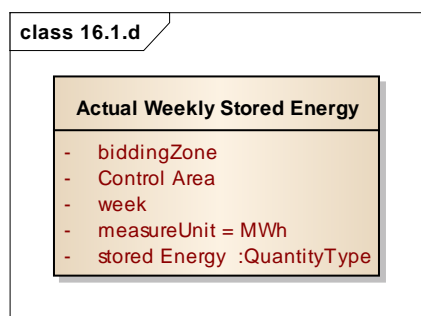
3372 - For the selected Production Type(s), for each MTU period within the selected start and end  
3373 dates and times, the actual aggregated generation output and consumption, if available

3374 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



3396 - Submission shall not be performed before the end of the week W. This validation shall  
3397 trigger a warning only. The warning may be suppressed completely by changing  
3398 configuration.

## 3399 9.8.5 MONITORING

3400 If for a given Bidding Zone the data item has been configured as expected as per [PC-  
3401 16.1.d-1], compliance with submission deadline [PC-16.1.d-2] will be monitored. For a given  
3402 Bidding Zone, data is not considered complete before all Data Providers have submitted their  
3403 data contributions. If by the deadline only some Data Providers have submitted data, the  
3404 data will be considered “missing”.

## 3405 9.8.6 PROCESSING

3406 Submitted Stored Energy Values shall be aggregated per Country and Bidding Zone.

3407 Aggregation here means simply adding up the submitted Stored Energy Values.

3408 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

## 3409 9.8.7 DATA CONTAINER STATUS / DATA STATUS

3410 This is an ex-post data item that applies the “none / waiting for publication x 2 / ready for  
3411 publication / missing” scheme.

## 3412 9.8.8 PUBLICATION

### 3413 9.8.8.1 FILTERING AND SORTING CRITERIA

3414 Data shall be visually accessed by selecting the following:

3415 - Country or Bidding Zone: selection is mandatory

3416 - Week: selection is mandatory, a single week or a range (from – to) may be chosen

### 3417 9.8.8.2 DISPLAY

3418 This data shall be displayed in the following section:

3419 - **Generation / water reservoirs and hydro storage plants**

3420 The following attributes of data shall be displayed:

3421 - Country or Bidding Zone name

3422 - Measure Unit

3423 - selected week(s)

3424 - Stored Energy Values for the selected week(s) and the same week(s) during previous year

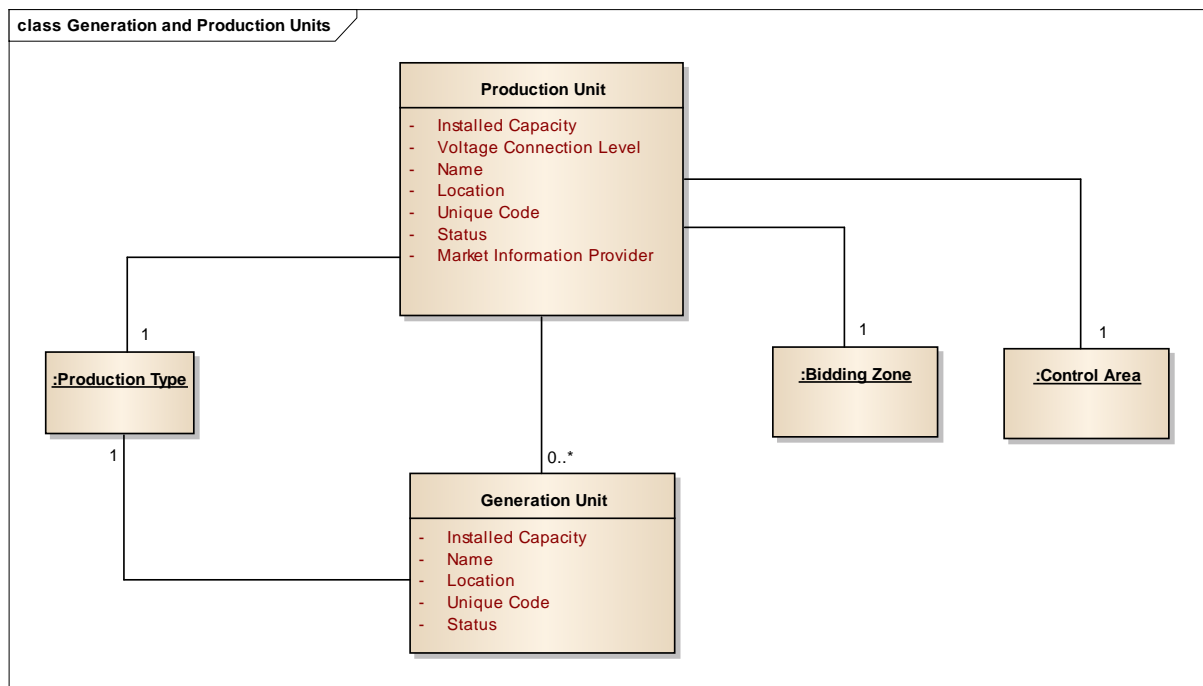
3425 User shall have the choice between displaying data in a Table or in a Chart.

3426

## 9.9 GENERATION AND PRODUCTION UNITS

### 9.9.1 DATA DESCRIPTION

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



A Production Unit may have zero, one or several Generation Units. A Generation Unit may not be defined on its own, without the corresponding Production Unit.

Status describes whether a Generation or Production Unit is commissioned or decommissioned. If Unit is no longer relevant, its status should be changed to Cancelled<sup>28</sup>. All attributes listed above in diagram are mandatory.

The unique code may never be modified once a Generation or Production Unit has been created. Data representing Generation and Production Units will be effective dated, since in particular Status may change over time.

### 9.9.2 ASSUMPTIONS

Although a Production Unit always has at least one Generation Unit, there is no obligation for Data Providers to register Generation Units with an installed capacity smaller than 100 MW.

<sup>28</sup> This could be useful in a scenario where a project to deploy a Unit is curtailed.

3442 Alignment of Production Type or Status between Production Unit and its Generation Unit(s)  
3443 will not be enforced by the platform.

3444 Data Provider is assumed to be the same for the Production Unit and its Generation Unit(s).

3445 Location is a free text field – guidelines regarding its content to be specified by [3].

3446 Platform will not aggregate installed capacity for generation units.

3447 Platform will not validate installed capacity of production unit against installed capacity of its  
3448 generation units.

### 3449 9.9.3 CREATION OF GENERATION AND PRODUCTION UNITS

3450 Generation and Production Units may be created one by one or several in one go. There  
3451 shall be a webpage to this end, where creation or modification of Generation and Production  
3452 Units will require authentication. Additionally, a machine-to-machine interface shall be  
3453 available, based on EDI mechanism.

3454 Platform administrator in ENTSO-E shall be able to create and modify Generation and  
3455 Production Units on behalf of Data Providers.

3456 When Generation or Production Unit is created, the uniqueness of the Code shall be verified  
3457 by checking that no other Generation or Production Unit on platform with same Code already  
3458 exists.

3459 Note that the assignation of unique Code assumes a manual procedure that is outside the  
3460 scope of the central platform.

3461 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3462 Production Type shall be validated against the list of Production Types [C-GNR-2].

3463 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8]

### 3464 9.9.4 UPDATES TO GENERATION AND PRODUCTION UNITS

3465 The Data Provider associated with the Generation or Production Unit may update the data at  
3466 any time. Code will be used to match updated data to Generation or Production Unit.

3467 Platform shall validate that Generation or Production Unit with quoted Code already exists. If  
3468 not, update will be rejected.

3469 Platform will validate that Data Provider performing update is consistent with the Data  
3470 Provider recorded for the Production Unit.

3471 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

- 3472 Production Type shall be validated against the list of Production Types [C-GNR-2].
- 3473 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8].
- 3474 Deletions are not foreseen under normal circumstances, but could be performed in  
3475 exceptional situations by platform administrator in ENTSO-E.

## 3476 9.9.5 QUERIES OF REFERENCE DATA FOR GENERATION AND PRODUCTION 3477 UNITS

- 3478 Data on Generation and Production Units shall be made available for visual inspection and  
3479 download via web page.

### 3480 9.9.5.1 FILTERING AND SORTING CRITERIA

- 3481 It shall be possible to search for Generation or Production Unit by using Code as search  
3482 criterion.

- 3483 Also, it shall be possible to retrieve several Generation and Production Units at the same  
3484 time, by specifying the following filtering and sorting criteria:

- 3485 - Country or Bidding Zone: selection is mandatory
- 3486 - Production Type: selection is optional, one or several may be chosen
- 3487 - Status: selection is optional, by default set to Commissioned
- 3488 - Effective Date: selection is optional, one day or from-to range may be chosen. By default  
3489 the current date shall be used

### 3490 9.9.5.2 DISPLAY

- 3491 This data shall be displayed in the following section, accessible to Data Providers only:

#### 3492 - **Generation / Generation and Production Units**

- 3493 The following attributes of data shall be displayed:

- 3494 - Country or Bidding Zone
- 3495 - Effective Date
- 3496 - List of Production Units, with their Installed Capacity, Production Type, Voltage Connection  
3497 Level, Name, Location, Unique Code and Status.
- 3498 - For each Production Unit, the associated Generation Unit(s) with their Installed Capacity,  
3499 Production Type, Name, Location, Unique Code and Status.

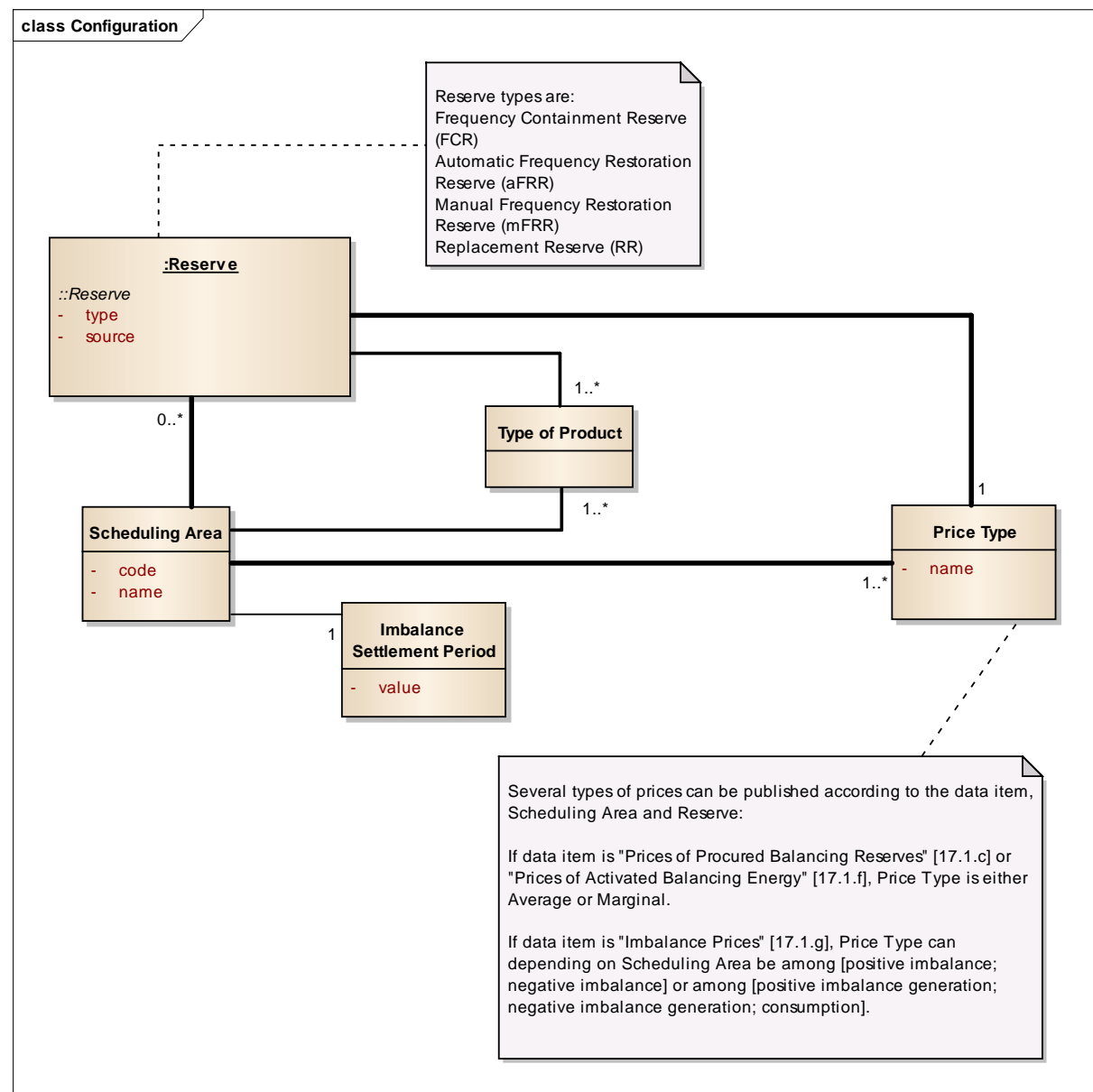
3500 Data shall be displayed in a Table.

## 10 BALANCING

### 10.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

#### 10.1.1 FUNDAMENTAL ENTITIES

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



- 3507 • Except for “Financial Expenses and Income for Balancing” [17.1.i] which is provided per  
3508 control area, all information regarding Balancing is by default given per **Scheduling**  
3509 **Area**, however balancing energy prices [17.1.f] and imbalance prices [17.1.g] may in  
3510 some cases be published per imbalance price area and imbalance volume [17.1.h] and  
3511 current balancing state [12.3.a] per imbalance area. For most data items, there is a set of  
3512 applicable Reserves in each Scheduling Area. But in the cases of the data items  
3513 “Imbalance Prices” [17.1.g], “Total Imbalance Volumes” [17.1.h] and “Financial Expenses  
3514 and Income for Balancing” [17.1.i] the Reserves are not relevant.
- 3515 • The **Reserve** is of different **Types**. Reserve may be further differentiated by **source**;  
3516 load, generation or mixed load/generation. However the latter distinction is mandatory  
3517 only for data item “Contracted Balancing Reserves” [17.1.b].
- 3518 • The **Imbalance Settlement Period (ISP)** is dependent on the Scheduling Area
- 3519 • The **Type of Price** depends on the Scheduling Area and for some data items additionally  
3520 also on the Reserve
- 3521 • For the data item “Imbalance Prices” [17.1.g], the price in question is an imbalance price.  
3522 Imbalance prices generally concern both generation and consumption but in certain  
3523 Scheduling Areas or imbalance price areas there is a distinction to be made between  
3524 imbalance prices for generation and imbalance prices for consumption (in which case  
3525 there is one price for consumption, whatever the direction, and two prices – one upwards  
3526 and one downwards for generation)
- 3527 • The **Type of Product** depends on the Reserve Type and the Scheduling Area. Initially  
3528 only two types of products are foreseen; Standard and Specific. As the implementation of  
3529 the GL EB progresses, further granularity (i.e. different standard or specific products)  
3530 may be introduced.

3531

## 3532 10.1.2 PRE-CONFIGURATION

- 3533 - The platform administrator at ENTSO-E shall pre-configure the platform with the following  
3534 reference data:
- 3535 - [C-BLC-1] a list of Reserves
- 3536 - [C-BLC-3] for each data item a separate list of relevant Scheduling Areas, imbalance areas,  
3537 imbalance price areas or control areas
- 3538 - [C-BLC-4] for select data items, a list of applicable Reserves in each Scheduling Area



3539 - [C-BLC-5] a list of Price Types and their dependencies with the data item or combination of  
3540 data item, Scheduling Area and Contract Type<sup>29</sup>

3541 - [C-BLC-6] a list of Imbalance Settlement Periods and their dependencies with the  
3542 Scheduling Area

3543 - [C-BLC-8] a list of Contract Types. The same list as for Transmission applies, refer to  
3544 chapter 7.1.6

3545 - [C-BLC-9] for each Scheduling Area or imbalance price area, the currency

3546

3547 - [C-BLC-11] for each Scheduling Area, imbalance area and imbalance price area, the  
3548 country or list of countries that it covers, to facilitate publication of data per country

3549 - [C-BLC-12] a list of Product Types

3550

### 3551 10.1.3 ASSUMPTIONS

3552 No specific assumptions apply to the data items in the Balancing domain.

### 3553 10.1.4 INTEGRATION

3554 Data Provider shall in one single data submission be able to provide data for a time interval  
3555 longer than one Imbalance Settlement Period. The time interval would in this case  
3556 necessarily be a multiple of the Imbalance Settlement Period. Similarly, for data item  
3557 Financial Expenses and Income for Balancing [17.1.i], the time interval may encompass  
3558 several months.

### 3559 10.1.5 DATA CONTAINER STATUS / DATA STATUS

3560 All structured data items, with the exception of [17.1.b], [17.1.c], [12.3.b&c], [12.3.f], 12.3.h]  
3561 and [12.3.i] follow the “none / waiting for publication / published / missing” scheme if properly  
3562 declared as expected and if the submission deadline has been configured.

### 3563 10.1.6 PUBLICATION

3564 For all data items except [12.3.g, 12.3.j-l], data shall be available on web site in all three  
3565 formats; table, map and chart.

---

<sup>29</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 is relevant for data item “Prices of Procured Balancing Reserves” [17.1.c] only.

## 3566 10.2 TERMS AND CONDITIONS [GL EB 12.3.g]

### 3567 10.2.1 DATA DESCRIPTION

3568 This data item consists of a PDF file per Scheduling Area. No monitoring will be performed.  
3569 Once Data Provider has implemented the GL EB, there shall be a single publication covering  
3570 both TR 17.1.a and GL EB 12.3.g.

### 3571 10.2.2 PRE-CONFIGURATION

3572 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
3573 allowed Data Provider per Scheduling Area for this data item.

### 3574 10.2.3 INTEGRATION

3575 Data Provider shall on the platform's web site, on the same page where these reports are  
3576 published, be able to select a Scheduling Area and upload a PDF file.

3577 Platform shall validate combination of Scheduling Area and Data Provider.

### 3578 10.2.4 PUBLICATION

#### 3579 10.2.4.1 PUBLICATION BEHAVIOUR

3580 Documents are published immediately after upload.

3581 All versions shall be published.

#### 3582 10.2.4.2 FILTERING AND SORTING CRITERIA

3583 End user shall be able to select data for display by specifying:

3584 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
3585 those that partially or completely cover the Country)

3586 - Scheduling Area (optional)

3587 - Publication year (optional)

#### 3588 10.2.4.3 DISPLAY

3589 This data shall be displayed in the following section:

3590 Balancing / Rules / Terms and Conditions

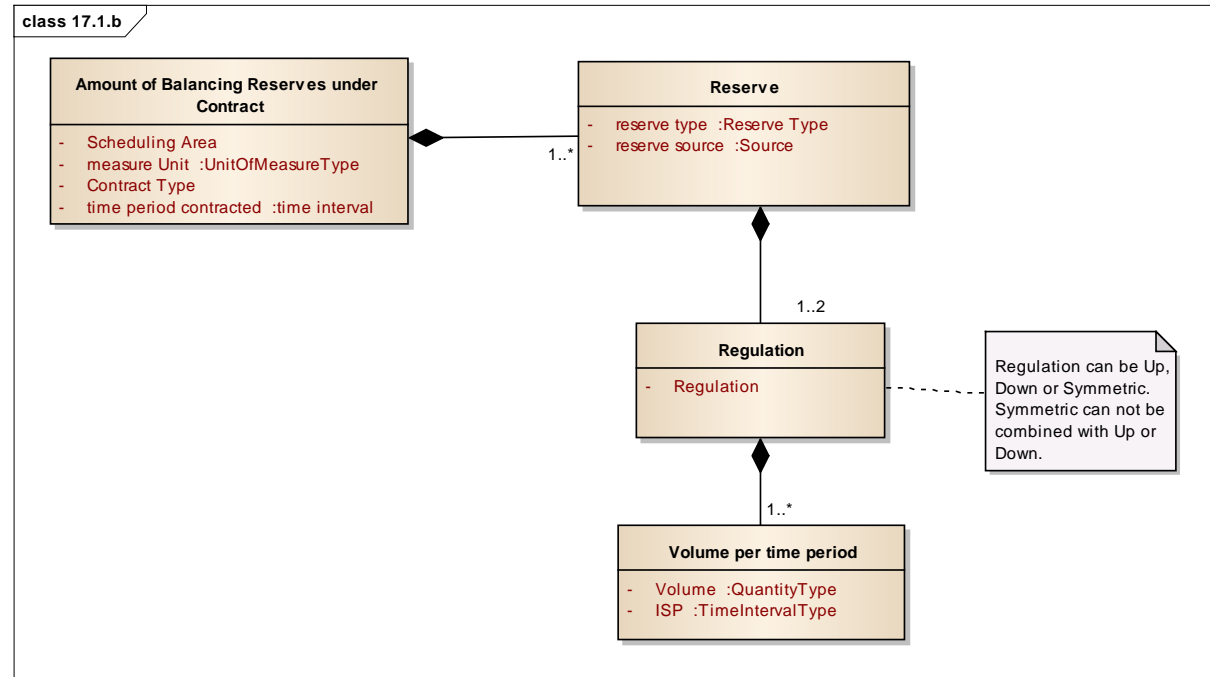
3591 Each report shall be available for download by clicking a link.

3592 For every report, the Scheduling Area and publication date shall be displayed.

## 10.3 AMOUNT OF BALANCING RESERVES UNDER CONTRACT [17.1.B]

### 10.3.1 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 time period, the quantity of contracted balancing reserve volume per Regulation in a given fixed measure Unit (MW). For this data item, it is mandatory to qualify Reserve by Source.

Volume is described with resolution equivalent to ISP.

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

## 3610 10.3.2 PRE-CONFIGURATION

3611 - For each applicable Scheduling Area, the unique allowed Data Provider

## 3612 10.3.3 INTEGRATION

3613 - The Scheduling Area shall be recognised by the platform

3614 - The Reserve shall be recognised by the platform

3615 - Contract Type shall be recognised by the platform

3616 - The provided Scheduling Area and Reserve shall be associated together with the data item  
3617 [17.1.b] in the pre-configuration of reference data, as in [C-BLC-4]

3618 - The Data Provider shall be consistent with the identified Scheduling Area

## 3619 10.3.4 MONITORING

3620 Contracted time intervals and dates and times for procurement processes vary significantly  
3621 among market balance areas, hence monitoring will not be performed on this data item.

## 3622 10.3.5 PROCESSING

3623 No processing is performed on this data item.

## 3624 10.3.6 DATA CONTAINER STATUS / DATA STATUS

3625 Data follows the "None / Ready for publication" scheme.

## 3626 10.3.7 PUBLICATION

### 3627 10.3.7.1 FILTERING AND SORTING CRITERIA

3628 Data shall be visually accessed by selecting the following:

3629 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
3630 those that partially or completely cover the Country)

3631 - Scheduling Area (selection is mandatory)

3632 - Reserve (selection is mandatory)

3633 - Contract Type (selection is mandatory)

3634 - Date or date range (selection is mandatory)

3635    **10.3.7.2    DISPLAY**

3636    This data shall be displayed in the following section:

3637    **- Balancing / Capacity / Volumes of Contracted Reserves**

3638    The following attributes of data shall be displayed:

3639    - Title

3640    - Scheduling Area name

3641    - Contract Type

3642    - Selected date or date range

3643    - Measurement Unit

3644    - For reserves with contracted time period partially or completely within the selected date or  
3645    date range, Reserve Type, Source and the contracted time period

3646    - For each Reserve, the Regulation and contracted Volumes

3647    If volumes vary during the contracted time period, it shall be possible to expand the view so  
3648    that volumes are displayed as a curve and a table.

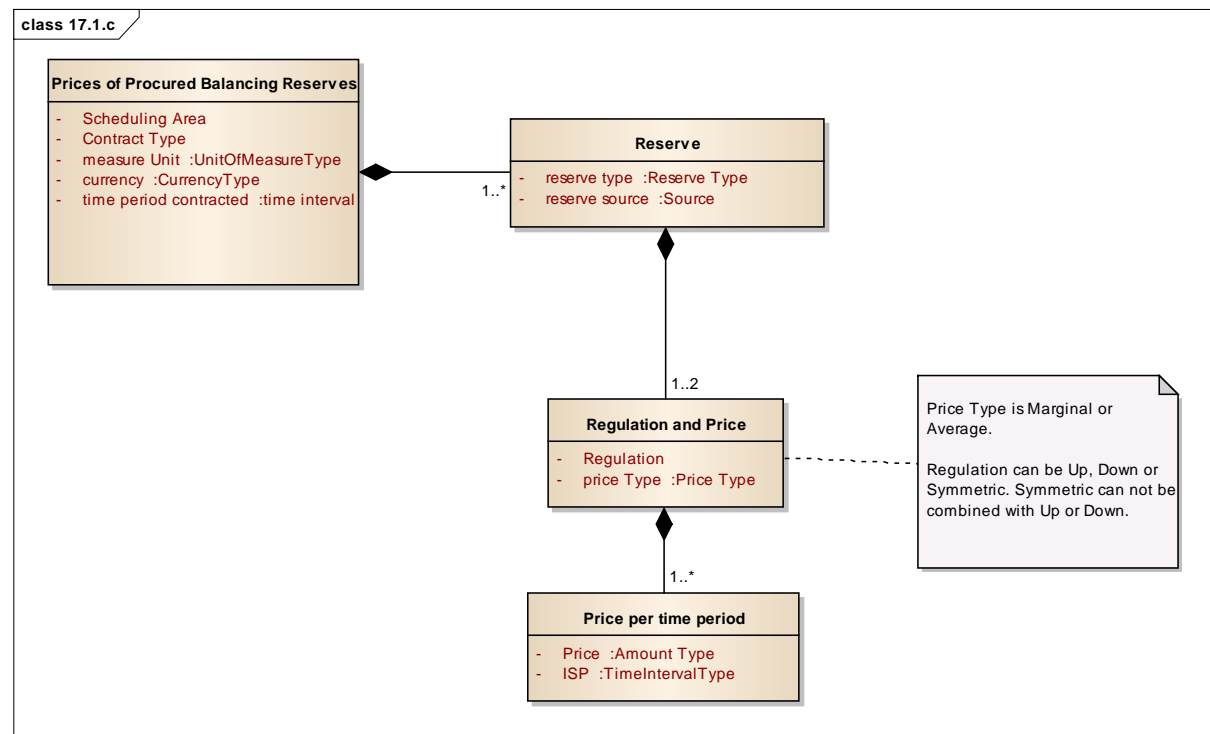
3649

## 10.4 PRICES OF PROCURED BALANCING RESERVES

### [17.1.c]

#### 10.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For this data item, the submitted document shall contain values pertaining to 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.

3664    **10.4.2        PRE-CONFIGURATION**

3665    - For each applicable Scheduling Area, the unique allowed Data Provider

3666    **10.4.3        INTEGRATION**

3667    - The Scheduling Area shall be recognised by the platform

3668    - The Reserve shall be recognised by the platform

3669    - The Contract Type shall be recognised by the platform

3670    - The provided Scheduling Area and Reserve shall be associated together with the data item  
3671    [17.1.c] in the pre-configuration of reference data, as in [C-BLC-4]

3672    - The Data Provider shall be consistent with the identified Scheduling Area

3673    - Currency shall be consistent with pre-configuration [C-BLC-9]

3674    **10.4.4        MONITORING**

3675    Contracted time intervals and dates and times for procurement processes vary significantly  
3676    among Scheduling areas, hence monitoring will not be performed on this data item.

3677    **10.4.5        PROCESSING**

3678    Platform determines Price Type based on Scheduling Area, Reserve and possibly also  
3679    Contract Type, using pre-configuration [C-BLC-5].

3680    **10.4.6        DATA CONTAINER STATUS / DATA STATUS**

3681    Data follows the “None / Ready for publication” scheme.

3682    **10.4.7        PUBLICATION**

3683    **10.4.7.1      FILTERING AND SORTING CRITERIA**

3684    Data shall be visually accessed by selecting the following:

3685    - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
3686    those that partially or completely cover the Country)

3687    - Scheduling Area (selection is mandatory)

3688    - Reserve (selection is mandatory)

3689    - Date or date range (selection is mandatory)



3690 - Contract Type (selection is mandatory)

## 3691 10.4.7.2 DISPLAY

3692 This data shall be displayed in the following section:

3693 - **Balancing / Capacity / Prices of Procured Balancing Reserves** (same section as for  
3694 "Contracted Balancing Reserves / 17.1.b")

3695 The following attributes of data shall be displayed:

3696 - Title

3697 - Scheduling Area name

3698 - Measurement Unit

3699 - Currency

3700 - Contract Type

3701 - For each Reserve with a contracted time period at least partially within the selected date or  
3702 date range, the contracted time period, Reserve Type and Source (if provided) are displayed.

3703 For each Reserve, the Regulation, Price Type and Prices are displayed.

3704 Data shall be displayed together with the volumes (i.e. "Contracted Balancing Reserves /  
3705 17.1.b").

3706 If prices vary during the contracted time period, it shall be possible to expand the view so that  
3707 prices are displayed as a curve and a table.

3708

3709

3710

3711

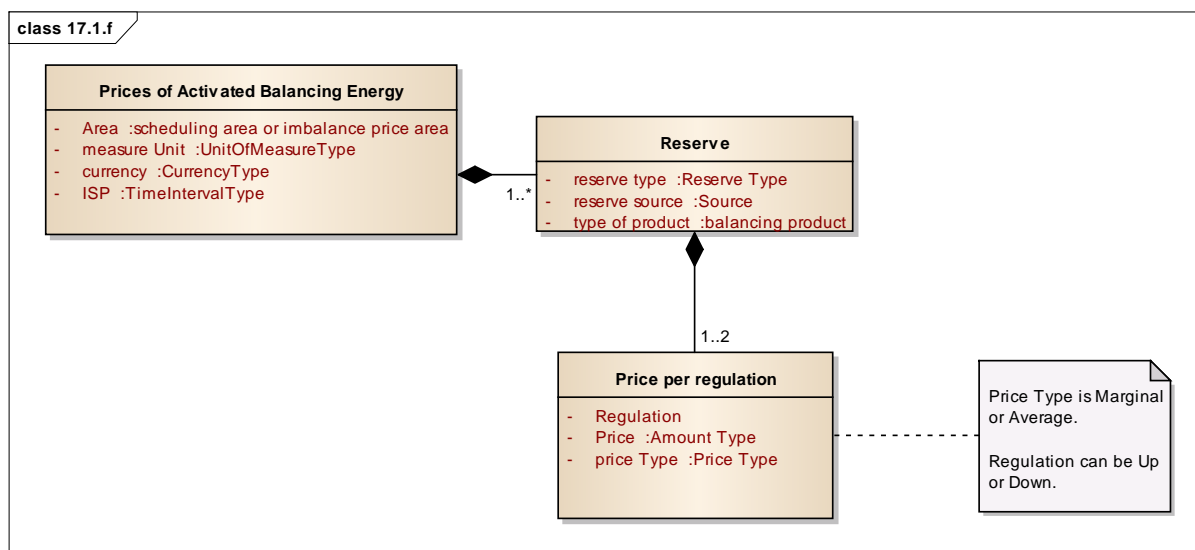
3712

3713

## 3714 10.5 PRICES OF ACTIVATED BALANCING ENERGY [17.1.F]

### 3715 10.5.1 DATA DESCRIPTION

3716 This item can be described by the following class diagram:



3717

3718 For this data item, the submitted document shall contain values pertaining to only one area,

3719 which may be either a scheduling area or an imbalance price area.

3720 This item describes for a time interval, equal to one ISP, for the applicable Reserves in the

3721 considered area, the price of activated balancing energy per Regulation in a given currency

3722 and fixed measure Unit (MWh). Price may be positive as well as negative.

3723 Source of Reserve and/or Type of Product are optionally included.

3724 If no energy was activated for a given Reserve, no price shall be submitted for that Reserve.

### 3725 10.5.2 PRE-CONFIGURATION

3726 - For each applicable area and reserve type, the unique allowed Data Provider

3727 - For each applicable srea and reserve type, the submission deadline:

- 3728 • For a given ISP, submission must be done at the latest one hour (H+1) after the end
- 3729 of the ISP.

3730 *Example: if the ISP is 30 min for a given Area and Reserve, and the time interval being*

3731 *described is January 15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be*

3732 *submitted before January 15<sup>th</sup>, 09:30 UTC.*

### 3733 10.5.3 INTEGRATION

- 3734 - The Area shall be recognised by the platform
- 3735 - The Reserve shall be recognised by the platform
- 3736 - If included, the Type of Product shall be recognised by the platform
- 3737 - The provided Area and Reserve shall be associated together with the data item [17.1.f] in
- 3738 the pre-configuration of reference data, as in [C-BLC-4]
- 3739 - The time interval in the submitted document is of one ISP at least and is necessarily a
- 3740 multiple of the ISP, this ISP being identified for the Area as in [C-BLC-6]
- 3741 - The Data Provider shall be consistent with the identified Area and Reserve
- 3742 - Currency shall be consistent with pre-configuration [C-BLC-9]

### 3743 10.5.4 MONITORING

- 3744 For a given Area, the submission deadline described above shall be monitored for each time
- 3745 interval. If a non-zero activated volume was submitted under GL EB article 12.3.e (refer to
- 3746 chapter 10.12), price is expected for the given reserve. Conversely, if the activated volume is
- 3747 zero, no price will be expected. If a price is submitted although the activated volume is zero,
- 3748 platform shall respond with a warning.

### 3749 10.5.5 PROCESSING

- 3750 Platform determines Price Type based on Area and Reserve, using pre-configuration [C-
- 3751 BLC-5].

### 3752 10.5.6 PUBLICATION

#### 3753 10.5.6.1 FILTERING AND SORTING CRITERIA

- 3754 Data shall be visually accessed by selecting the following:
- 3755 - Country (selection is optional: If selected, Areas will be filtered to include only those that
- 3756 partially or completely cover the Country)
- 3757 - Area (selection is mandatory)
- 3758 - Reserve Type (selection is optional)
- 3759 - Type of Product (selection is optional)
- 3760 - Day (selection is mandatory)

3761 - Time Window (Start time and end time) (selection is mandatory)

## 3762 10.5.6.2 DISPLAY

3763 This data shall be displayed in the following section:

3764 - **Balancing / Energy / Prices of Activated Balancing Energy**

3765 The following attributes of data shall be displayed:

3766 - Title

3767 - Area name

3768 - Reserve: Type and Source (if provided)

3769 - Type of Product (if provided)

3770 - ISP for the given Area

3771 - Day

3772 - Measurement Unit

3773 - Currency

3774 - For each Reserve, the Regulation and Price Type

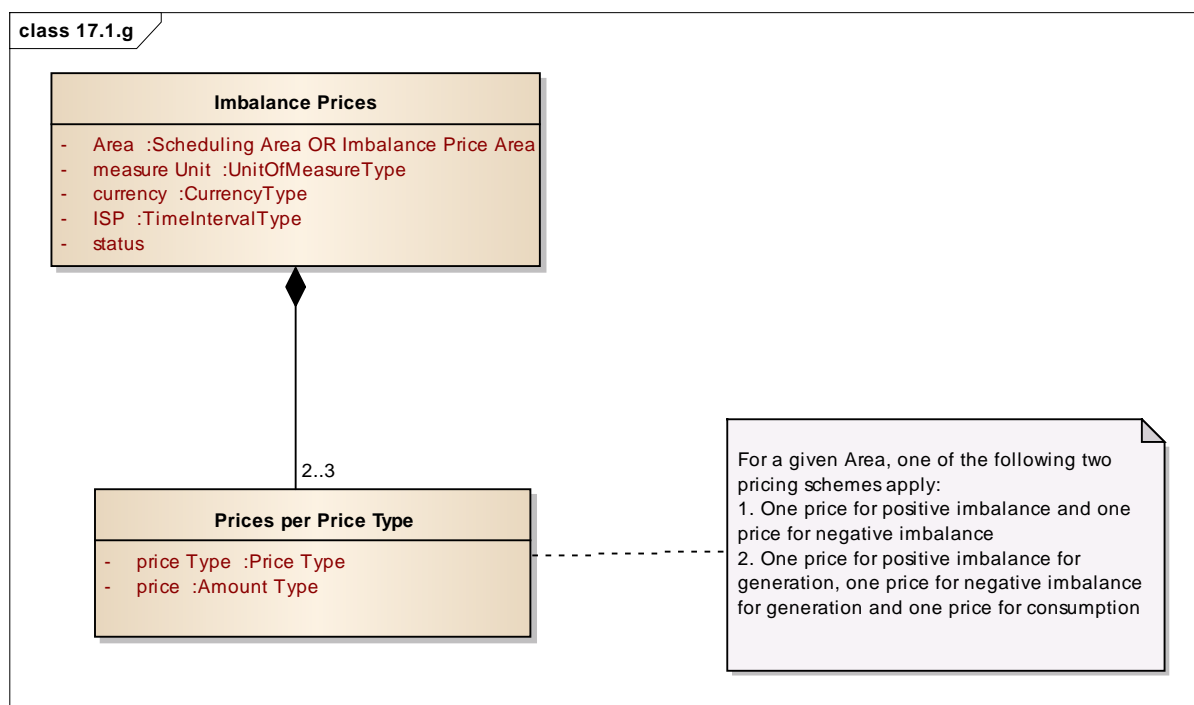
3775 - Prices per ISP within the Time Window

3776 Data shall be displayed together with GL EB article 12.3.e Aggregated balancing energy  
3777 bids.

## 3778 10.6 IMBALANCE PRICES [17.1.G]

### 3779 10.6.1 DATA DESCRIPTION

3780 This item can be described by the following class diagram:



3781

3782 For each applicable area, which may be a scheduling are or an imbalance price area, there

3783 should be a given ISP value and two or three applicable price types. For this data item, the

3784 submitted document shall contain values pertaining to only one Area.

3785 This item describes for a time interval, equal to one ISP, the imbalance prices in a given

3786 currency and fixed measure Unit (MWh). Prices may be negative, positive or zero. The status

3787 of the data (estimated or final) shall also be indicated.

### 3788 10.6.2 PRE-CONFIGURATION

3789 - For each applicable Area, the unique allowed Data Provider

3790 - For each applicable Area, the submission deadline:

- 3791 • Data shall be submitted as soon as possible. The specific submission deadline will
- 3792 depend on Area.

3793        *Example: ISP is 30 min for a given Area where submission deadline is H+2. The time*  
3794        *interval in question is January 15<sup>th</sup> [08:00; 08:30] UTC. Values for this time interval must*  
3795        *be submitted before January 15<sup>th</sup>, 10:30 UTC.*

### 3796    10.6.3        INTEGRATION

- 3797    - The Area shall be recognised by the platform
- 3798    - The Price Types shall be recognised by the platform
- 3799    - The provided Area shall be associated with the data item [17.1.g] in the pre-configuration of  
3800    reference data, as in [C-BLC-3]
- 3801    - The provided Price Types shall be associated with the data item [17.1.g] and the given  
3802    Area, as in [C-BLC-5]
- 3803    - The time interval in the submitted document is of one ISP at least and is necessarily a  
3804    multiple of the ISP, this ISP being identified for the Area as in [C-BLC-6]
- 3805    - The Data Provider shall be consistent with the identified Area
- 3806    - Currency shall be consistent with pre-configuration [C-BLC-9]

### 3807    10.6.4        MONITORING

3808    For a given Area, the submission deadline described above shall be monitored for each time  
3809    interval.

### 3810    10.6.5        PROCESSING

3811    No processing is performed on this data item.

### 3812    10.6.6        PUBLICATION

#### 3813    10.6.6.1       FILTERING AND SORTING CRITERIA

3814    Data shall be visually accessed by selecting the following:

- 3815    - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3816    partially or completely cover the Country)
- 3817    - Area (selection is mandatory)
- 3818    - Day (selection is mandatory)
- 3819    - Time Window (Start time and end time) (selection is mandatory)



3820    **10.6.6.2    DISPLAY**

3821    This data shall be displayed in the following section:

3822    - **Balancing / Imbalance / Imbalance Prices**

3823    The following attributes of data shall be displayed:

3824    - Title

3825    - Area name

3826    - ISP for the given Area

3827    - Day

3828    - Measurement Unit

3829    - Currency

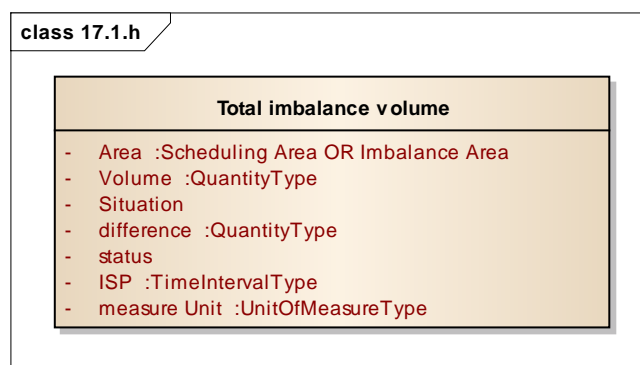
3830    - Status of the data (estimated or final) per ISP within the time window

3831    - For each applicable Price Type, the Price Type and the price per ISP within the Time  
3832    Window for the given Area

## 3833 10.7 TOTAL IMBALANCE VOLUME [17.1.H]

### 3834 10.7.1 DATA DESCRIPTION

3835 This item can be described by the following class diagram:



3836  
3837 For each applicable Market Balance Area, there should be a given ISP value. For this data  
3838 item, the submitted document shall contain values pertaining to only one area, which may be  
3839 a scheduling area or an imbalance area.

3840 This item describes for a time interval, equal to one ISP, the total imbalance volume in a  
3841 given fixed measure Unit (MWh). The volume represents either a surplus or a deficit. The  
3842 difference between measured and scheduled flows over all interconnectors shall be  
3843 published separately. The status of the data (estimated or final) shall also be indicated. Data  
3844 shall be submitted as absolute values.

3845  
3846 10.7.2 PRE-CONFIGURATION  
3847 - For each applicable area, the unique allowed Data Provider  
3848 - For each applicable area, the submission deadline:  
3849 • For a given time interval, submission must be done at the latest 30 minutes after the  
3850 end of the time interval.

3851 *Example: if the ISP is 30 min for a given area, and the time interval in question is January*  
3852 *15<sup>th</sup> [08:00; 08:30] UTC, values for this time interval must be submitted before January*  
3853 *15<sup>th</sup>, 09:00 UTC.*

### 3854 10.7.3 INTEGRATION

3855 - The area shall be recognised by the platform

3856 - The provided area shall be associated together with the data item [17.1.h] in the pre-  
3857 configuration of reference data, as in [C-BLC-3]

3858 - The time interval in the submitted document is of one ISP at least and is necessarily a  
3859 multiple of the ISP, this ISP being identified for the area as in [C-BLC-6]

3860 - The Data Provider shall be consistent with the identified area

#### 3861 10.7.4 MONITORING

3862 For a given area, the submission deadline described above shall be monitored for each time  
3863 interval.

#### 3864 10.7.5 PROCESSING

3865 No processing is performed on this data item.

#### 3866 10.7.6 PUBLICATION

##### 3867 10.7.6.1 FILTERING AND SORTING CRITERIA

3868 Data shall be visually accessed by selecting the following:

3869 - Country (selection is optional: If selected, areas will be filtered to include only those that  
3870 partially or completely cover the Country)

3871 - area (selection is mandatory)

3872 - Day (selection is mandatory)

3873 - Time Window (Start time and end time) (selection is mandatory)

##### 3874 10.7.6.2 DISPLAY

3875 This data shall be displayed in the following section:

3876 - **Balancing / Imbalance** (same section as for “Imbalance prices / 17.1.g”)

3877 The following attributes of data shall be displayed:

3878 - Title

3879 - Area name

3880 - Balancing Time Unit for the given area

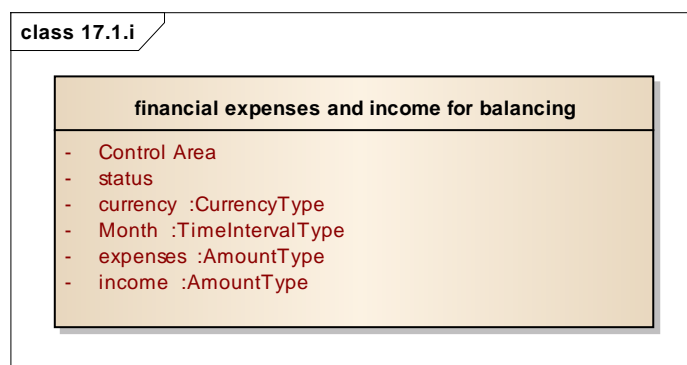
3881 - Day

- 3882 - Measurement Unit (MWh)
- 3883 - Deficit or surplus for each ISP within the Time Window for the given area
- 3884 - Status of data (Estimated or Final) for each ISP within the Time Window for the given area
- 3885 - The total imbalance volume and difference per ISP within the Time Window for the given area
- 3886

## 10.8 FINANCIAL EXPENSES AND INCOME FOR BALANCING [17.1.i]

### 10.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Control Area, this item describes for each month the expenses and income, in a given currency, together with a status of this financial information (provisional or final).

**Note:** Amounts (whether expense or income) can be both positive and negative.

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

### 10.8.2 PRE-CONFIGURATION

- For each applicable Control Area, the unique allowed Data Provider

- For each applicable Control Area, the submission deadline:

- For a given month, submission must be done at the latest at the end of the last calendar day of M+3, where M is the month to which submitted values pertain.

*Example: if the considered month is January 2012, values for this month must be submitted before 30<sup>th</sup> April, 24:00 UTC.*

### 10.8.3 INTEGRATION

- The Control Area shall be recognised by the platform

3907 - The provided Control Area shall be associated with the data item [17.1.i] in the pre-  
3908 configuration of reference data, as in [C-BLC-3]

3909 - The time interval in the submitted document is of one month at least and is necessarily a  
3910 multiple of one month

3911 - The Data Provider shall be consistent with the identified Control Area

3912 - Document is submitted after the end of the month described in the document, reason being  
3913 that this is ex-post data. This validation shall trigger a warning only.

3914 - Currency shall be consistent with pre-configuration [C-BLC-9]

#### 3915 10.8.4 MONITORING

3916 For this item, the monthly submission deadline shall be monitored.

#### 3917 10.8.5 PROCESSING

3918 The following processing is performed by the platform:

3919 - calculate the difference between the expense and the income

#### 3920 10.8.6 PUBLICATION

##### 3921 10.8.6.1 FILTERING AND SORTING CRITERIA

3922 Data shall be visually accessed by selecting the following:

3923 - Country (selection is optional: If selected, Control Areas will be filtered to include only those  
3924 that partially or completely cover the Country)

3925 - Control Area (selection is mandatory)

3926 - Time Window (from one month to a year) (selection is mandatory)

##### 3927 10.8.6.2 DISPLAY

3928 This data shall be displayed in the following section:

3929 - **Balancing / Financial Balance / Financial expenses and income**

3930 The following attributes of data shall be displayed:

3931 - Title

3932 - Control Area name

- 3933 - Time Window
- 3934 - Currency
- 3935 - For each month, the status of data (Provisional or Final)
- 3936 - For each month, the income
- 3937 - For each month, the expenses
- 3938 - For each month, the calculated difference between the expenses and income

3939

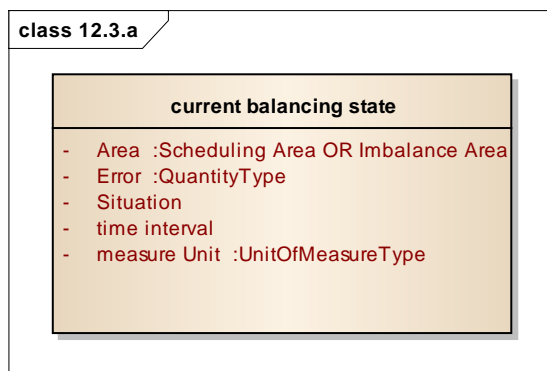
3940



## 10.9 CURRENT BALANCING STATE [GL EB 12.3.A]

### 10.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The submitted document describes for a given area, which may be of type scheduling area or Imbalance area, the open loop control area error, expressed in MW per minute. The volume of this error represents either a surplus or a deficit, as indicated by the Situation attribute. If the system is balanced, a zero volume shall be submitted. Data shall be submitted as absolute values.

### 10.9.2 PRE-CONFIGURATION

- For each applicable area, the unique allowed Data Provider

- For each applicable area, the submission deadline:

- For a given time interval, submission must be done at the latest 30 minutes after the end of the minute being described by the data.

*Example: if the document describes the time interval January 15<sup>th</sup> [08:00; 08:01] UTC, values for this time interval must be submitted before January 15<sup>th</sup>, 08:31 UTC.*

### 10.9.3 INTEGRATION

- The area shall be recognised by the platform

- The provided area shall be associated together with the data item [GL EB 12.3.a] in the pre-configuration of reference data, as in [C-BLC-3]

- The time interval in the submitted document is of one minute at least and is necessarily a multiple of minutes

- The Data Provider shall be consistent with the identified area

#### 3964 10.9.4 MONITORING

3965 For a given area, the submission deadline described above shall be monitored for each time  
3966 interval.

#### 3967 10.9.5 PROCESSING

3968 No processing is performed on this data item.

#### 3969 10.9.6 PUBLICATION

##### 3970 10.9.6.1 FILTERING AND SORTING CRITERIA

3971 Data shall be visually accessed by selecting the following:

3972 - Country (selection is optional: If selected, Areas will be filtered to include only those that  
3973 partially or completely cover the Country)

3974 - Area (selection is mandatory)

3975 - Day (selection is mandatory)

3976 - Time Window (Start time and end time) (selection is mandatory)

##### 3977 10.9.6.2 DISPLAY

3978 This data shall be displayed in the following section:

3979 - **Balancing / Imbalance / Current balancing state**

3980 The following attributes of data shall be displayed:

3981 - Title

3982 - Area

3983 - Day

3984 - Measurement Unit (MW)

3985 - Indicator of deficit or surplus per minute within the Time Window for the given area

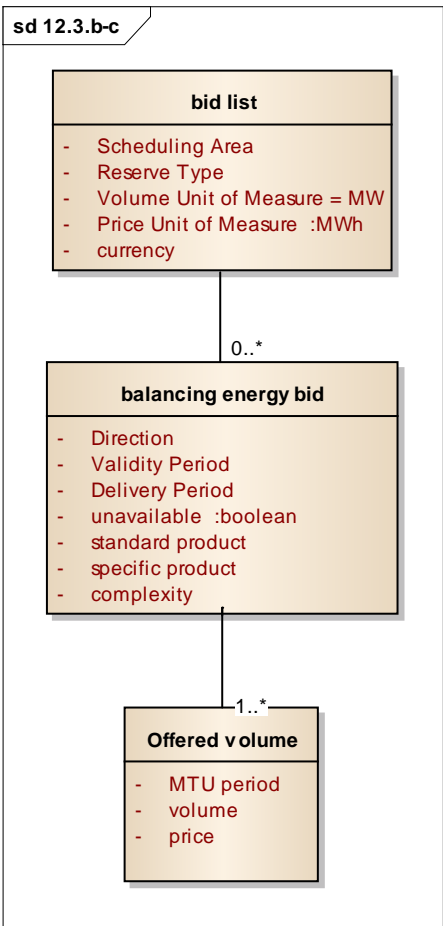
3986 - The open loop control area error per minute within the Time Window for the given area

## 10.10 BALANCING ENERGY BIDS [GL EB 12.3.B&C]

### 10.10.1 DATA DESCRIPTION

This data item contains the balancing energy bids for the Scheduling area. The data submissions to the central transparency platform shall distinguish the reserve type, the direction, the validity and delivery periods, offered volume and price. It shall also be indicated whether the bid is available or unavailable. A complexity indicator will express whether the bid is linked, exclusive or multipart.

The standard product attribute will be used when the bid refers to a standard product or a specific product has been converted into a standard product. The specific product attribute will be used when the bid refers to a specific product, when the bid has been converted into a standard product or when the bid originates from an integrated scheduling process.



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.

4001    **10.10.2    PRE-CONFIGURATION**

4002    - For each applicable scheduling area: The applicable reserve types

4003    - For each applicable scheduling area and reserve type: The allowed data providers<sup>30</sup>

4004    **10.10.3    VALIDATION**

4005    - The scheduling area and data provider shall be recognised by the platform

4006    - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4007    configured reference data

4008    - The data provider shall be consistent with the identified scheduling area and reserve type

4009    **10.10.4    MONITORING**

4010    Gate closure times vary significantly among scheduling areas and reserve types. Further,  
4011    bids are not guaranteed to be submitted, hence monitoring will not be performed on this data  
4012    item.

4013    **10.10.5    PROCESSING**

4014    No processing is performed on this data item.

4015    **10.10.6    PUBLICATION**

4016    **10.10.6.1    FILTERING AND SORTING CRITERIA**

4017    Data shall be visually accessed by selecting the following:

4018    - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4019    those that partially or completely cover the country)

4020    - scheduling area (selection is mandatory)

4021    - reserve type (selection is mandatory)

4022    - date, to be matched against the bids' delivery periods

4023    **10.10.6.2    DISPLAY**

4024    This data shall be displayed in the following section:

---

<sup>30</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

4025 - **Balancing / Energy / Bids**

4026 The following attributes of data shall be displayed:

4027 - scheduling area

4028 - reserve type

4029 - selected date

4030 - unit of measurement

4031 - For bids with delivery time interval that fall within the selected date, the following data is  
4032 displayed:

4033 - validity period

4034 - delivery period

4035 - direction

4036 - offered volumes and prices per MTU period during the delivery period

4037 - standard and/or specific type of product, as applicable

4038 - if applicable, complexity indicator

4039 - Indicator whether the bid is available or unavailable

4040

## 10.11 INFORMATION ON CONVERSION INTO STANDARD

### PRODUCTS [GL EB 12.3.D]

#### 10.11.1 DATA DESCRIPTION

This data item consists of a PDF file per Scheduling Area, providing a description of how specific products or bids from an integrated scheduling process are converted into standard products. This information complements the data published under GL EB articles 12.3.b&c. No monitoring will be performed.

#### 10.11.2 PRE-CONFIGURATION

ENTSO-E administrator shall be able to manage the reference data that indicates the single allowed Data Provider per Scheduling Area for this data item.

#### 10.11.3 INTEGRATION

Data Provider shall on the platform's web site, on the same page where these reports are published, be able to select a Scheduling Area, upload a PDF file and indicate the date as of which the uploaded document entries into force.

Platform shall validate combination of Scheduling Area and Data Provider.

#### 10.11.4 PUBLICATION

##### 10.11.4.1 PUBLICATION BEHAVIOUR

Documents are published immediately after upload.

All versions shall be published.

##### 10.11.4.2 FILTERING AND SORTING CRITERIA

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

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

- Scheduling Area (mandatory)

##### 10.11.4.3 DISPLAY

This data shall be displayed in the following section:

4067    **Balancing / Rules and Reports / Information on conversion into standard products**

4068    The following attributes of data shall be displayed:

4069    - Scheduling Area name

4070    - A link to download each uploaded PDF document

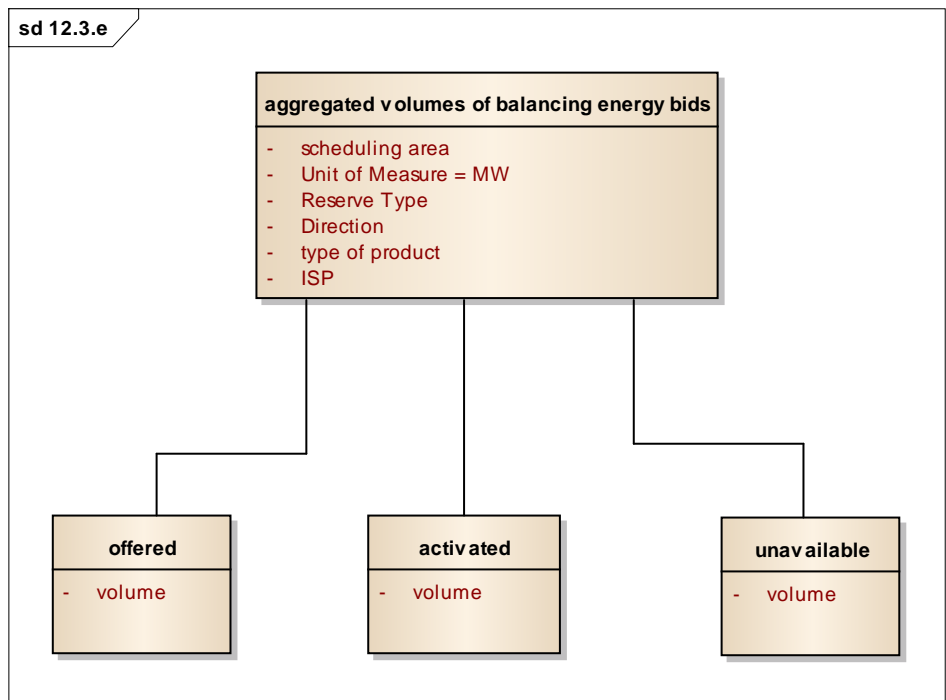
4071    - For each document, the effective date

4072

## 10.12 AGGREGATED BALANCING ENERGY BIDS [GL EB 12.3.E]

### 10.12.1 DATA DESCRIPTION

This data item contains the aggregated volumes of activated, offered and unavailable balancing energy, respectively, per scheduling area. The data submissions to the central transparency platform shall distinguish the reserve type, direction, type of product and the ISP. Offered, activated and unavailable volumes are accounted for separately.



Unavailable volumes are applicable for standard products only.

For reserve type FCR no publication is applicable.

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



4089 - For each applicable scheduling area and reserve type: The allowed data providers<sup>31</sup>

4090 - The submission deadline: 30 minutes after every ISP

### 4091 10.12.3 VALIDATION

4092 - The scheduling area and data provider shall be recognised by the platform

4093 - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4094 configured reference data

4095 - The data provider shall be consistent with the identified scheduling area

### 4096 10.12.4 MONITORING

4097 For every applicable combination of scheduling area, reserve type and type of product, the  
4098 designated data provider shall submit a document for every ISP.

### 4099 10.12.5 PROCESSING

4100 Platform shall for every scheduling area, direction and ISP aggregate totals separately for  
4101 standard and specific products by summing up the values for all reserve types taken  
4102 together.

4103 Platform shall for every scheduling area, reserve type, direction and ISP aggregate totals for  
4104 offered and activated volumes, by summing up the values provided per type of product.

4105 Platform shall aggregate the grand totals for all reserve types taken together, summing up for  
4106 every scheduling area, direction and ISP the offered, activated and unavailable volumes.

### 4107 10.12.6 PUBLICATION

#### 4108 10.12.6.1 FILTERING AND SORTING CRITERIA

4109 Data shall be visually accessed by selecting the following:

4110 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4111 those that partially or completely cover the country)

4112 - scheduling area (selection is mandatory)

4113 - date (selection is mandatory)

4114 - reserve type (selection is optional)

---

<sup>31</sup> For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

4115 - direction (selection is optional)

## 4116 10.12.6.2 DISPLAY

4117 This data shall be displayed in the following section:

4118 - **Balancing / Energy / Aggregated bids**

4119 The following attributes of data shall be displayed:

4120 -- scheduling area

4121 - selected date

4122 - unit of measurement (MW)

4123 - For all ISP during the selected day, the following data is displayed:

4124 - offered, activated and unavailable volumes per direction

4125 - offered and activated volumes for standard and specific products per direction, respectively

4126 - offered, activated and unavailable volumes per reserve type and direction

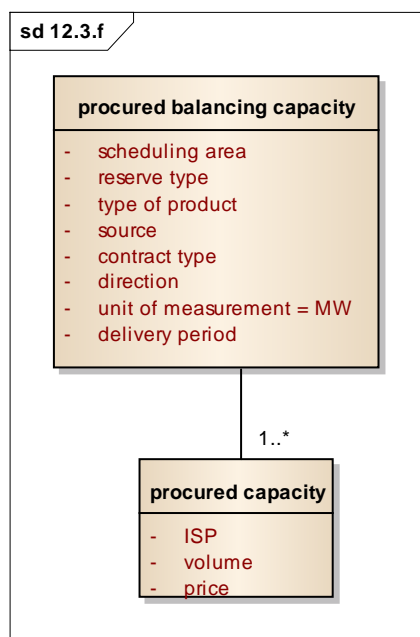
4127 - offered and activated volumes for standard and specific products per direction and reserve  
4128 type, respectively

4129

## 4130 10.13 PROCURED BALANCING CAPACITY [GL EB 12.3.F]

### 4131 10.13.1 DATA DESCRIPTION

4132 This data item contains the procured balancing capacity per scheduling area. For every  
4133 accepted bid, data provider shall submit to the central transparency platform the reserve  
4134 type, type of product, contract type and direction. Source may optionally be included as well.  
4135 Offered volume and price are provided for every ISP of the delivery period.



4136  
4137 Type of Product shall at least distinguish between standard and specific products.

4138 Assumptions:

- 4139 - Data is submitted per accepted bid/offer. Data provider does not perform any
- 4140 aggregation.

4141

### 4142 10.13.2 PRE-CONFIGURATION

- 4143 - For each applicable scheduling area: The applicable reserve types
- 4144 - For each applicable scheduling area and reserve type: The single allowed data provider

### 4145 10.13.3 VALIDATION

- 4146 - The scheduling area and data provider shall be recognised by the platform

4147 - The provided scheduling area and reserve type shall be consistent with the platform's pre-  
4148 configured reference data

4149 - The data provider shall be consistent with the identified scheduling area

#### 4150 10.13.4 MONITORING

4151 Dates and times for procurement processes vary significantly among scheduling areas and  
4152 there is no guarantee that bids will be accepted, hence monitoring will not be performed on  
4153 this data item.

#### 4154 10.13.5 PROCESSING

4155 Not applicable.

#### 4156 10.13.6 PUBLICATION

##### 4157 10.13.6.1 FILTERING AND SORTING CRITERIA

4158 Data shall be visually accessed by selecting the following:

4159 - Country (selection is optional: If selected, scheduling areas will be filtered to include only  
4160 those that partially or completely cover the country)

4161 - scheduling area (selection is mandatory)

4162 - date or date range (selection is mandatory)

4163 - reserve type (selection is mandatory)

4164 - type of product (standard or specific, selection is optional)

4165 - source (selection is optional)

4166 - contract type (selection is optional)

4167 - direction (selection is optional)

##### 4168 10.13.6.2 DISPLAY

4169 This data shall be displayed in the following section:

4170 - **Balancing / Capacity / Procured bids**

4171 The following attributes of data shall be displayed:

4172 - scheduling area

- 4173 - reserve type
- 4174 - unit of measurement (MW) for capacity
- 4175 - unit of measurement (currency/MW/ISP) for prices
- 4176 - For all procured capacities whose delivery periods partially or completely fall within the
- 4177 select date or date range, the following data is displayed:
  - 4178 - type of product
  - 4179 - source (if available)
  - 4180 - direction
  - 4181 - contract type
  - 4182 - offered capacity and price per ISP

## 4183 10.14 TERMS AND CONDITIONS [GL EB 12.3.G]

### 4184 10.14.1 DATA DESCRIPTION

4185 This data item consists of a PDF file per Scheduling Area. No monitoring will be performed.

4186 Note: Published document also covers the requirements of TR article 17.1.a.

### 4187 10.14.2 PRE-CONFIGURATION

4188 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4189 allowed Data Provider per Scheduling Area for this data item.

### 4190 10.14.3 INTEGRATION

4191 Data Provider shall on the platform's web site, on the same page where these reports are  
4192 published, be able to select a Scheduling Area, upload a PDF file and indicate the date as of  
4193 which the uploaded document entries into force.

4194 Platform shall validate combination of Scheduling Area and Data Provider.

### 4195 10.14.4 PUBLICATION

#### 4196 10.14.4.1 PUBLICATION BEHAVIOUR

4197 Documents are published immediately after upload.

4198 All versions shall be published.

#### 4199 10.14.4.2 FILTERING AND SORTING CRITERIA

4200 End user shall be able to select data for display by specifying:

4201 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
4202 those that partially or completely cover the Country)

4203 - Scheduling Area (mandatory)

#### 4204 10.14.4.3 DISPLAY

4205 This data shall be displayed in the following section:

4206 **Balancing / Rules and reports / Terms and conditions**

4207 The following attributes of data shall be displayed:

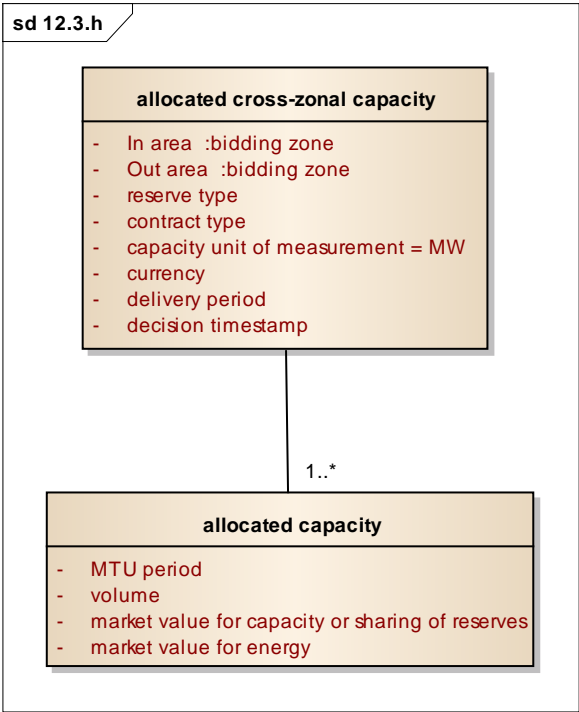
- 4208 - Scheduling Area name
- 4209 - A link to download each uploaded PDF document
- 4210 - For each document, the date of entry into force
- 4211

# 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 and its market values are provided per MTU period.



Contact type may be long-term, week-ahead or day-ahead. Capacity is expressed in MW.  
Market values are expressed in currency.

As a transitory measure, until the prescribed methodologies have been fully implemented, a single market value per MTU period may be submitted and published. Refer to implementation guide [13] for details.

Note: The allocations described in this data item are the same as the ones covered by GL EB article 12.3.i.

### 10.15.2 PRE-CONFIGURATION

- For each applicable bidding zone couple and reserve type, the allowed data provider(s)



### 4230 10.15.3 VALIDATION

- 4231 - The In and Out bidding zones and data provider shall be recognised by the platform
- 4232 - The In and Out bidding zones, reserve type and data provider shall be consistent with the
- 4233 platform's pre-configured reference data

### 4234 10.15.4 MONITORING

- 4235 Timelines of allocation processes may vary significantly depending on border and contract
- 4236 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will
- 4237 be performed.

### 4238 10.15.5 PROCESSING

- 4239 No aggregation or other processing is performed on the central transparency platform.

### 4240 10.15.6 PUBLICATION

#### 4241 10.15.6.1 FILTERING AND SORTING CRITERIA

- 4242 Data shall be visually accessed by selecting the following:

- 4243 - Country (selection is optional: If selected, bidding zones will be filtered to include only those
- 4244 that partially or completely cover the country)
- 4245 - In and Out bidding zones (selection is mandatory)
- 4246 - Reserve type (selection is mandatory)
- 4247 - Date or date range (selection is mandatory)
- 4248 - Contract type (selection is optional)

#### 4249 10.15.6.2 DISPLAY

- 4250 This data shall be displayed in the following section:

- 4251 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL
- 4252 EB article 12.1.i)

- 4253 The following attributes of data shall be displayed:

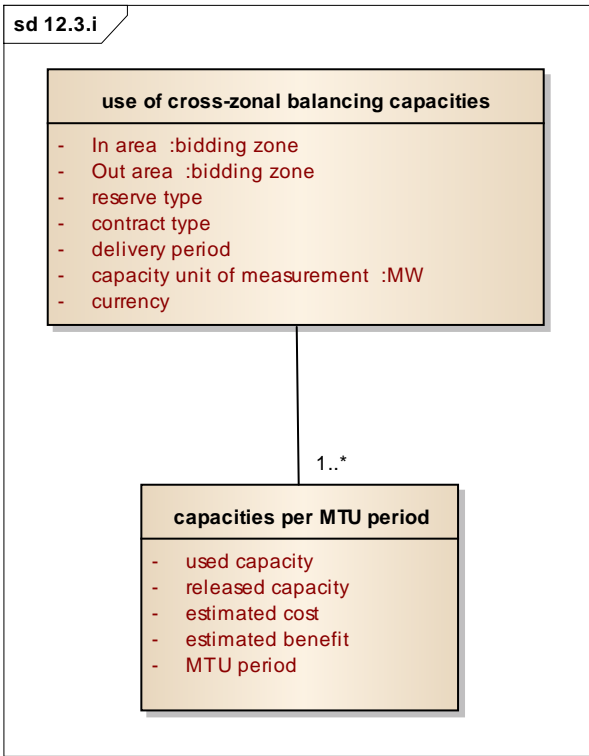
- 4254 - In and Out bidding zones
- 4255 - Reserve type
- 4256 - unit of measurements: MW and currency

- 4257 - For all allocations whose delivery periods fall, entirely or partially, within the selected date  
4258 or date range, the following data is displayed:
- 4259 - contract type
- 4260 - delivery period
- 4261 - date and time of allocation decision
- 4262 - allocated capacity volume and market values per MTU period.

10.16 USE OF ALLOCATED CROSS-ZONAL BALANCING  
CAPACITY [GL EB 12.3.i]

10.16.1 DATA DESCRIPTION

This data item describes the use of cross-zonal balancing capacity per border. The data submissions to the central transparency platform shall indicate the In and Out bidding zones (or technical profile), reserve type, contract type and delivery period of the allocation process.



Contract type may be long-term, week-ahead or day-ahead.

Costs, benefits and volumes of used and released capacities are provided with MTU resolution for the whole delivery period.

Note: The allocations described in this data item are the same as the ones covered by GL EB article 12.3.h. Data required under this GL EB article 12.3.i shall be submitted as an update to the document containing the allocated capacity, previously submitted under GL EB article 12.3.h.

10.16.2 PRE-CONFIGURATION

- For each applicable bidding zone couple and reserve type, the allowed data provider

### 4279 10.16.3 VALIDATION

- 4280 - The In and Out bidding zones and data provider shall be recognised by the platform
- 4281 - The bidding zone couple, reserve type and data provider shall be consistent with the
- 4282 platform's pre-configured reference data

### 4283 10.16.4 MONITORING

- 4284 Timelines of allocation processes may vary significantly depending on border and contract
- 4285 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will
- 4286 be performed.

### 4287 10.16.5 PROCESSING

- 4288 No aggregation or other processing is performed on the central transparency platform.

### 4289 10.16.6 PUBLICATION

#### 4290 10.16.6.1 FILTERING AND SORTING CRITERIA

- 4291 Data shall be visually accessed by selecting the following:
- 4292 - Country (selection is optional: If selected, market balance areas will be filtered to include
- 4293 only those that partially or completely cover the country)
- 4294 - In and Out bidding zones (selection is mandatory)
- 4295 - reserve type (selection is mandatory)
- 4296 - date or date range (selection is mandatory)
- 4297 - contract type (selection is optional)

#### 4298 10.16.6.2 DISPLAY

- 4299 This data shall be displayed in the following section:
- 4300 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL
- 4301 EB article 12.1.h)
- 4302 The following attributes of data shall be displayed:
- 4303 - In and Out bidding zones
- 4304 - reserve type
- 4305 - unit of measurements: MW and currency

- 4306 - For all allocations whose delivery period fall, entirely or partially, within the selected date or  
4307 date range, the following data is displayed:
- 4308 - contract type
- 4309 - delivery period
- 4310 - estimated realised costs, benefits and volumes of used and released capacity per  
4311 MTU period during the delivery period.
- 4312

- 4313      **10.17 APPROVED METHODOLOGIES [GL EB 12.3.J]**
- 4314      **10.17.1 DATA DESCRIPTION**
- 4315      This data item consists of a PDF file per Scheduling Area. No monitoring will be performed.
- 4316      **10.17.2 PRE-CONFIGURATION**
- 4317      ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4318      allowed Data Provider per Scheduling Area for this data item.
- 4319      **10.17.3 INTEGRATION**
- 4320      Data Provider shall on the platform's web site, on the same page where these reports are  
4321      published, be able to select a Scheduling Area, upload a PDF file and indicate the date as of  
4322      which the uploaded document entries into force.
- 4323      Platform shall validate combination of Scheduling Area and Data Provider.
- 4324      **10.17.4 PUBLICATION**
- 4325      **10.17.4.1 PUBLICATION BEHAVIOUR**
- 4326      Documents are published immediately after upload.
- 4327      All versions shall be published.
- 4328      **10.17.4.2 FILTERING AND SORTING CRITERIA**
- 4329      End user shall be able to select data for display by specifying:
- 4330      - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only  
4331      those that partially or completely cover the Country)
- 4332      - Scheduling Area (mandatory)
- 4333      **10.17.4.3 DISPLAY**
- 4334      This data shall be displayed in the following section:
- 4335      **Balancing / Rules and Reports / Approved methodologies**
- 4336      The following attributes of data shall be displayed:
- 4337      - Scheduling Area name

- 4338 - A link to download each uploaded PDF document
- 4339 - For each document, the date of entry into force
- 4340

## 4341 10.18 ALGORITHM [GL EB 12.3.K]

### 4342 10.18.1 DATA DESCRIPTION

4343 This data item consists of a PDF file per reserve type. No monitoring will be performed.

### 4344 10.18.2 PRE-CONFIGURATION

4345 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4346 allowed Data Provider per reserve type for this data item.

### 4347 10.18.3 INTEGRATION

4348 Data Provider shall on the platform's web site, on the same page where these reports are  
4349 published, be able to select a reserve type, upload a PDF file and indicate the date as of  
4350 which the uploaded document entries into force.

4351 Platform shall validate combination of reserve type and Data Provider.

### 4352 10.18.4 PUBLICATION

#### 4353 10.18.4.1 PUBLICATION BEHAVIOUR

4354 Documents are published immediately after upload.

4355 All versions shall be published.

#### 4356 10.18.4.2 FILTERING AND SORTING CRITERIA

4357 End user shall be able to select data for display by specifying:

4358 - Reserve type (mandatory)

4359

#### 4360 10.18.4.3 DISPLAY

4361 This data shall be displayed in the following section:

4362 **Balancing / Rules and reports / Algorithm**

4363 The following attributes of data shall be displayed:

4364 - reserve type

4365 - A link to download each uploaded PDF document



4366 - For each document, the date of entry into force

4367

## 4368 10.19 COMMON ANNUAL REPORT [GL EB 12.3.L]

### 4369 10.19.1 DATA DESCRIPTION

4370 This data item consists of a PDF file per year. No monitoring will be performed.

### 4371 10.19.2 PRE-CONFIGURATION

4372 ENTSO-E administrator shall be able to manage the reference data that indicates the single  
4373 allowed Data Provider: ENTSO-E.

### 4374 10.19.3 INTEGRATION

4375 Data Provider shall on the platform's web site, on the same page where these reports are  
4376 published, be able to upload a PDF file and indicate the year that the uploaded document  
4377 refers to.

### 4378 10.19.4 PUBLICATION

#### 4379 10.19.4.1 PUBLICATION BEHAVIOUR

4380 Documents are published immediately after upload.

4381 All versions shall be published.

#### 4382 10.19.4.2 FILTERING AND SORTING CRITERIA

4383 End user shall be able to select data for display by specifying:

4384 - Year (optional)

#### 4385 10.19.4.3 DISPLAY

4386 This data shall be displayed in the following section:

4387 **Balancing / Rules and reports / Common annual report**

4388 The following attributes of data shall be displayed:

4389 - A link to download each uploaded PDF document

4390 - For each document, the year it refers to

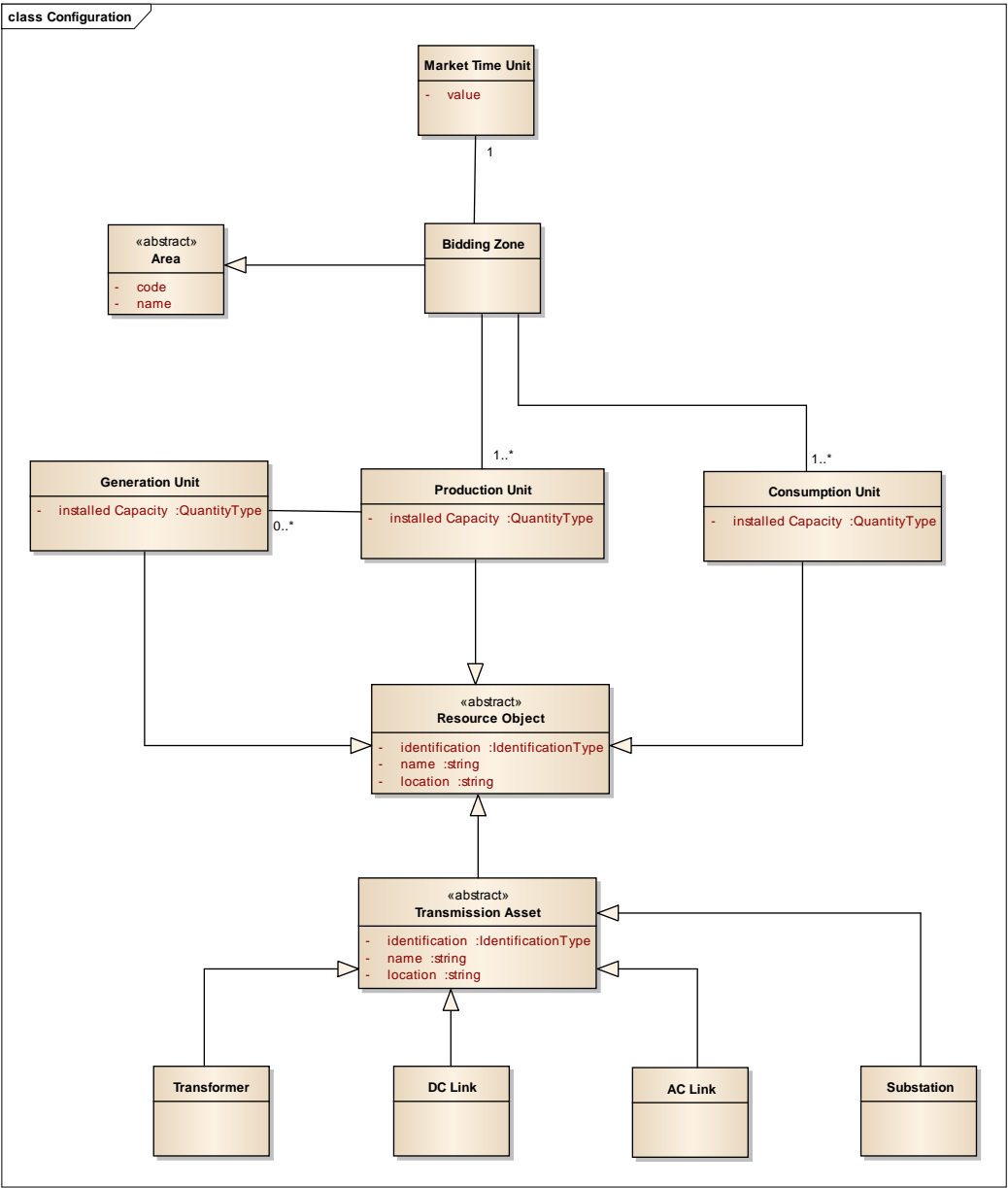
4391

# 11 OUTAGES

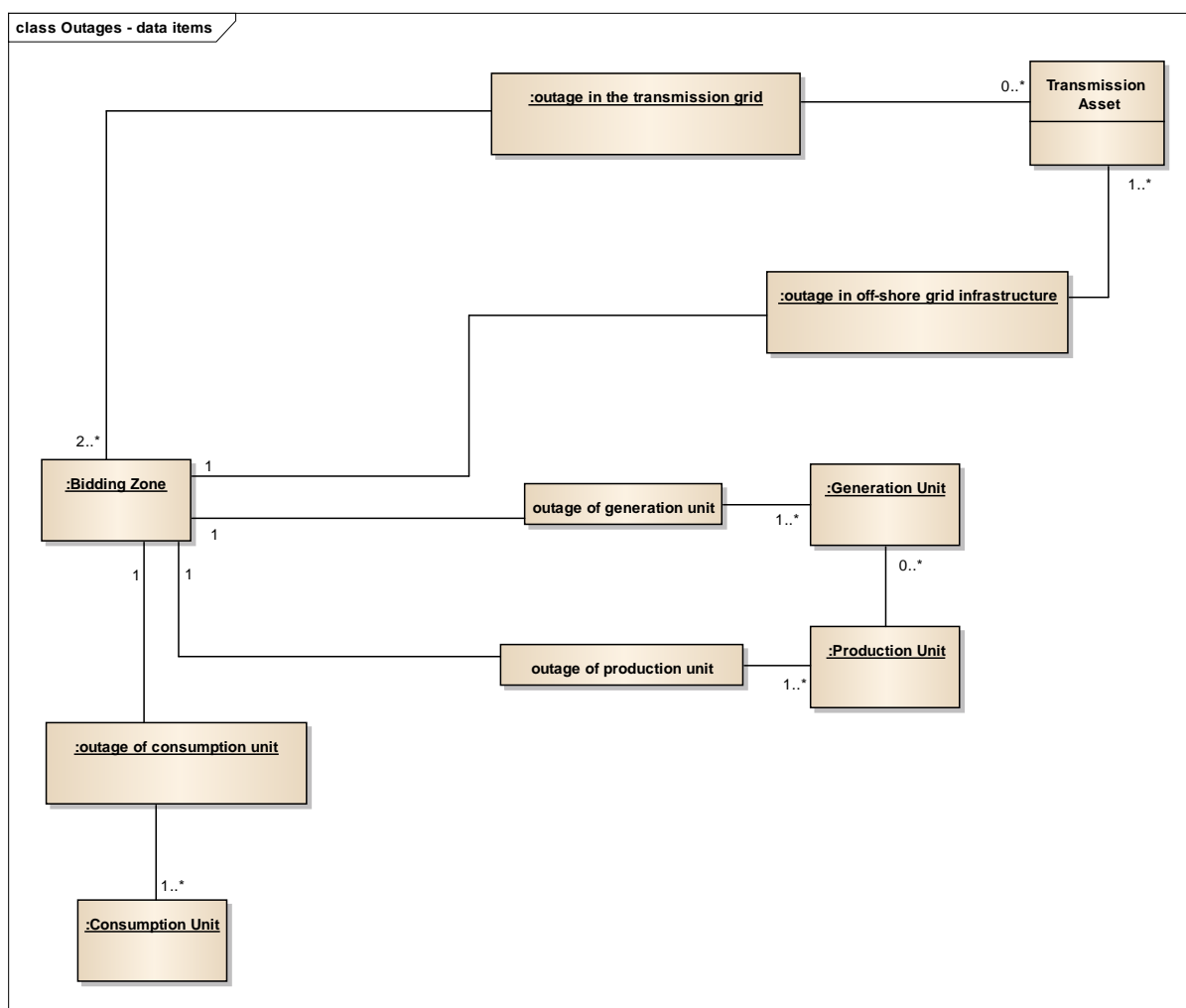
## 11.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

### 11.1.1 FUNDAMENTAL ENTITIES

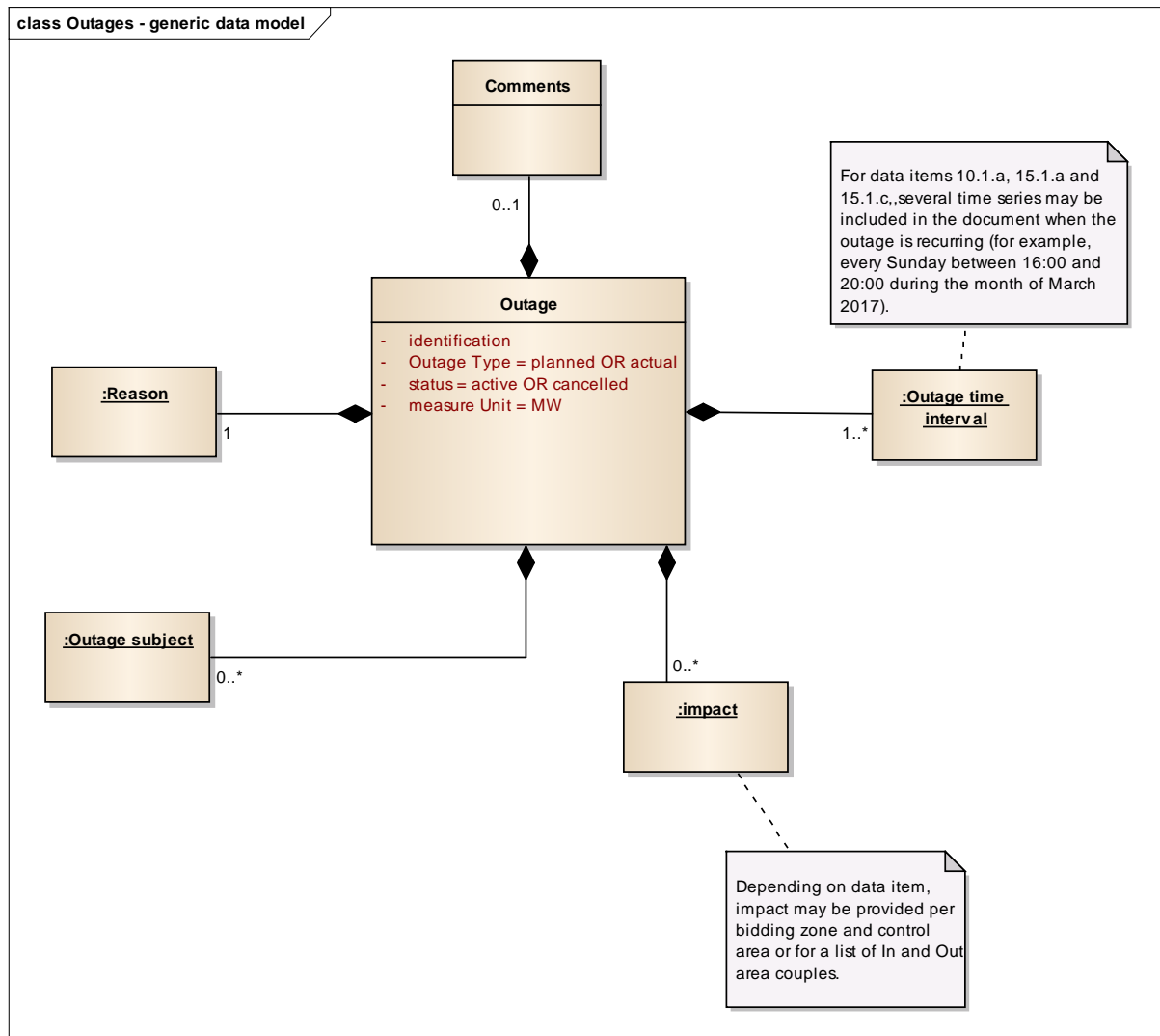
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 4398 • For a given Bidding Zone, there is a Market Time Unit
- 4399 • There are four types of assets subject to outages: Transmission Assets, Generation
- 4400 Units, Production Units and Consumption Units. They are special types of Resource
- 4401 Objects
- 4402 • All assets have an identification a name and a location
- 4403 • A Transmission Asset can be a Transformer, a Substation, a DC Link or an AC Link
- 4404 • A Generation or Production Unit has a Production Type and an Installed Capacity and
- 4405 sits in a given Bidding Zone. Generation and Production Units are described in chapter
- 4406 9.9
- 4407 • A Consumption Unit sits in a given Bidding Zone



- 4408
- 4409 The submitted document shall contain one Outage only, which may be recurring. The
- 4410 following generic data model is suggested:



4411

## 4412 11.1.2 PRE-CONFIGURATION

4413 The ENTSO-E platform administrator shall pre-configure the following data, before collecting  
4414 information, for the purpose of validation:

4415 - [C-OTG-1] a list of Areas. Areas may be Bidding Zones and Bidding Zone Aggregations.  
4416 The list of Bidding Zones is the same as for Generation, Load and Transmission domains.  
4417 The Bidding Zone Aggregations are the same as for Transmission domain.

4418 - [C-OTG-8] for each Bidding Zone and Control Area, the allowed Data Provider, identified by  
4419 a unique code. If need be, additionally the granularity of data item could be applied. This  
4420 reference data is used also for the data items in the Load and Generation domains.

4421 - [C-OTG-2] values of Market Time Unit for a given Bidding Zone. This reference data is the  
4422 same as for Generation, Load and Transmission domains.

- 4423 - [C-OTG-6] a list of In and Out Area couples. The In and Out Area couples are also used in  
4424 the Transmission domain<sup>32</sup>.
- 4425 - [C-OTG-7] for each In and Out Area couples, the allowed Data Providers, identified by  
4426 unique codes.
- 4427 - [C-OTG-9] a list of countries and for each country, the corresponding Control Area(s). This  
4428 is the same reference data as in Generation and Load domains. It will be used to facilitate  
4429 search and filtering of published data by country and to aggregate capacity values for  
4430 Outages of Consumption Units.
- 4431 - [C-OTG-10] for each Bidding Zone the country or countries that it covers. This is the same  
4432 reference data as in Load domain. It will be used to facilitate search and filtering of published  
4433 data by country.
- 4434 Data Providers shall record the following pre-configuration on the platform for the purpose of  
4435 validation of submitted information:
- 4436 - [C-OTG-3] a list of Generation and Production Units in a given Bidding Zone, with their  
4437 characteristics, refer to chapter 9.9 for details. This is the same reference data as for the  
4438 Generation domain.
- 4439 - [C-OTG-4] a list of Consumption Units in a given Bidding Zone, with their characteristics.  
4440 Refer to chapter 11.12 for further details.
- 4441 - [C-OTG-5] a list of Transmission Assets (Transformer, Substation, DC Link or AC Link) with  
4442 their characteristics. Refer to chapter 11.11 for further details. This is the same reference  
4443 data as for the Transmission domain.
- 4444 - [C-OTG-11] a list of Reasons for Outages: Maintenance, Failure, Shutdown and Other.

### 4445 11.1.3 ASSUMPTIONS

- 4446 Data can be submitted for correction or update at any time, even after the end of the  
4447 outage/unavailability.
- 4448 Planned unavailability can be cancelled at any time.
- 4449 The frequency of submission is not fixed.
- 4450 No monitoring is performed. For this data domain, submission deadlines are irrelevant to the  
4451 platform.

---

<sup>32</sup> Technical Profiles (where one of the Areas is a Bidding Zone Aggregation) constitute a subset of this list.

#### 4452 11.1.4 INTEGRATION

4453 A change in actual availability cannot be transformed into a planned unavailability, and vice  
4454 versa. A change in actual availability remains until the affected asset becomes  
4455 available/operational.

4456 Planned unavailability may be cancelled, which is reflected as a status update. This is not  
4457 permitted for changes in actual unavailability though. If a document has been submitted by  
4458 mistake it may be withdrawn/revoked as outlined in chapter 5.1.2.

4459 Reason “Failure” is permitted for changes in actual availability only. Reason “Shutdown” is  
4460 permitted for planned unavailability and changes in actual availability of Consumption,  
4461 Production and Generation Units.

4462 ENTSO-E administrator may suppress all warnings triggered during validation by changing  
4463 configuration.

4464

#### 4465 11.1.5 PUBLICATION RULES

4466 Data items are displayed in table format only.

4467 Latest version of outage will be displayed. Previous versions will be available online, for  
4468 example by expanding the view. If there is more than one version of the document, i.e. an  
4469 update has been submitted, all versions shall be available with clear indication of version  
4470 number.

4471 Submission date and time of each version will be available online, for example by expanding  
4472 the view.

#### 4473 11.1.6 DATA CONTAINER STATUS / DATA STATUS

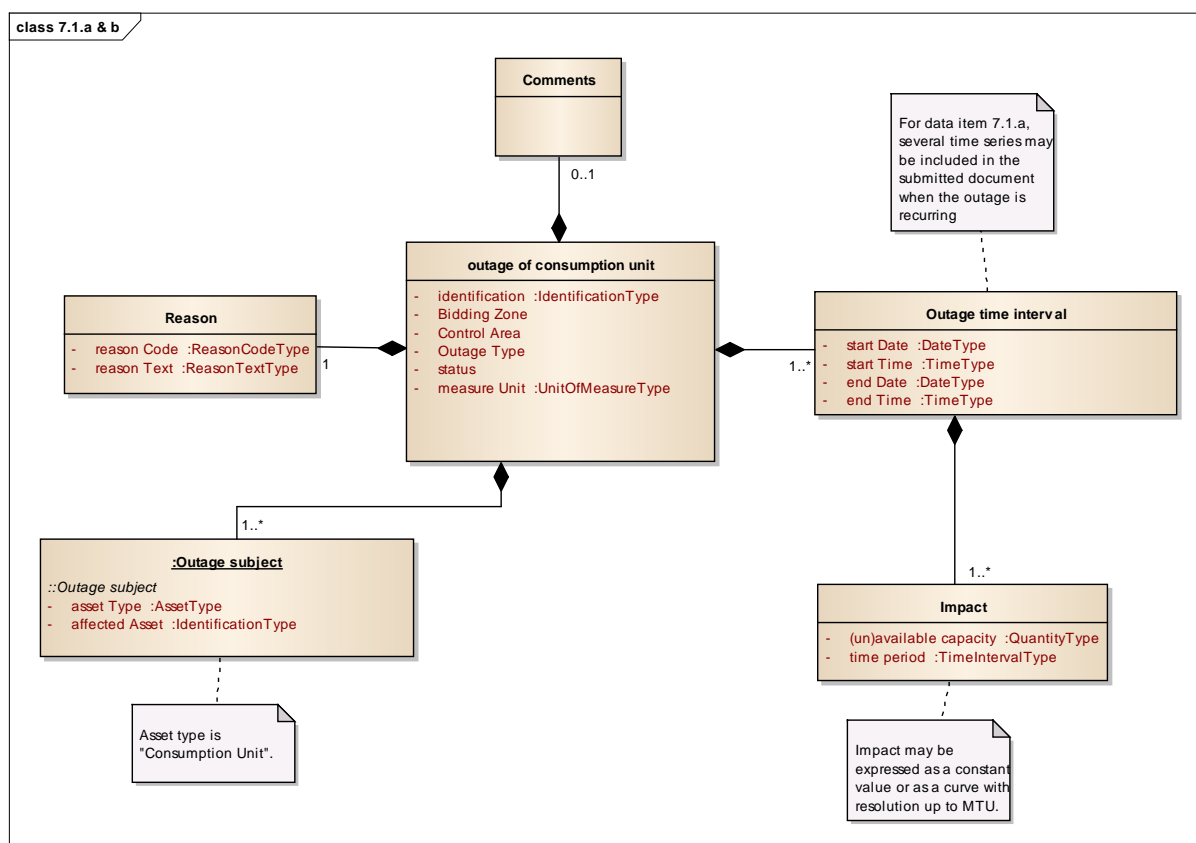
4474 All data follows the “none / ready for publication” scheme.

4475

## 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)



4489 - Type of outage is “planned”

## 4490 11.2.2 PRE-CONFIGURATION

4491 For each data provider, an indicator whether available or unavailable capacity is being  
4492 submitted.

## 4493 11.2.3 ASSUMPTIONS

4494 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4495 For a given unavailability, there will be only one Data Provider.

4496 Platform shall calculate unavailable capacity in bidding zone per market time unit, based on  
4497 the submitted available or unavailable capacity values.

4498 Available or unavailable consumption capacity may vary during the outage time interval.

## 4499 11.2.4 INTEGRATION

4500 - The outage subject (asset) described in the document shall be recognised by the platform

4501 - Data Provider shall be consistent with the identified outage subject.

4502 - The Bidding Zone and Control Area described in the document shall be recognised by the  
4503 platform

4504 - Data Provider shall be consistent with the identified Bidding Zone and Control Area

4505 - For a given consumption unit there may not be more than one active planned unavailability  
4506 at any point in time

## 4507 11.2.5 PROCESSING

4508 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4509 Platform establishes unavailable consumption capacity per MTU period based on the  
4510 submitted available or unavailable capacity during the outage time interval and the installed  
4511 capacity of the Consumption Unit (as recorded per chapter 11.12). In case MTU period only  
4512 partially coincides with outage start or end time, the submitted available or unavailable  
4513 consumption capacity will apply also for those MTU periods.

4514 The platform aggregates the unavailable consumption capacity in each Bidding Zone and  
4515 Country by Market Time Unit period. A single value per Country, Bidding Zone and MTU  
4516 period shall be calculated, taking all planned unavailability into account.

4517 Likewise, a single value shall be established per Country, Bidding Zone and MTU period  
4518 taking all changes in actual availability into account (refer to chapter 11.3 regarding changes  
4519 in actual availability of consumption units).

4520 Finally, a grand total per Country, Bidding Zone and MTU period shall be calculated, taking  
4521 both planned unavailability and changes in actual availability into account.

4522 The unavailability marked for cancellation is marked as such in the platform database and  
4523 not taken into account in the aggregation calculation.

4524 Pre-configuration [C-OTG-9] will be used to aggregate values per Country.

## 4525 11.2.6 PUBLICATION

### 4526 11.2.6.1 PUBLICATION BEHAVIOUR

4527 Aggregated values only shall be published, not individual unavailabilities.

### 4528 11.2.6.2 FILTERING AND SORTING CRITERIA

4529 Data shall be visually accessed by selecting the following:

4530 For all options:

4531 - Date or date range (selection is mandatory)

4532 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4533 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4534 accordingly)

4535 - Type of unavailability: planned, actual or both, selection is optional

4536 Unavailability for which time interval is either completely or partially on the selected date (or  
4537 possibly date range) will be displayed.

### 4538 11.2.6.3 DISPLAY

4539 This data shall be displayed in the following section:

#### 4540 - Load / Unavailability

4541 The following attributes of data shall be displayed:

4542 - Title

4543 - Measure Unit

4544 - MTU

- 4545 The following details are displayed for the selected date range:
- 4546 - Country or Bidding Zone
- 4547 - Start date and time
- 4548 - End date and time
- 4549 - The aggregated unavailable consumption capacity per MTU period, by country or Bidding
- 4550 Zone: Separate values for planned unavailability, changes in actual availability and a grand
- 4551 total
- 4552
- 4553

## 11.3 CHANGES IN ACTUAL AVAILABILITY OF CONSUMPTION UNITS [7.1.B]

### 11.3.1 DATA DESCRIPTION

Data description is almost identical to data item “Planned unavailability of consumption units [7.1.a]”, refer to chapter 11.2. The differences are:

- outage type is “actual”
- status is always “active”
- not more than one outage subject is permitted
- only one time interval is permitted

### 11.3.2 PRE-CONFIGURATION

Same pre-configuration as for planned unavailability of consumption units [7.1.a] applies to this data item, refer to chapter 11.2.2.

### 11.3.3 ASSUMPTIONS

Unavailability of consumption units is submitted per Bidding Zone and Control Area.  
For a given unavailability, there will be only one Data Provider.

### 11.3.4 INTEGRATION

- The document date and time of the submitted document should be posterior to the start date and time of the unavailability. This will trigger a warning only.
  - For a given consumption unit there may not be more than one active change in actual availability at any point in time.
- All other validations are the same as for planned outages of consumption units, refer to chapter 11.2.4.

### 11.3.5 PROCESSING

Same processing as for planned outages of consumption units, refer to chapter 11.2.5.

4578    **11.3.6       PUBLICATION**

4579    **11.3.6.1    PUBLICATION BEHAVIOUR**

4580    Same processing as for planned outages of consumption units, refer to chapter 11.2.6.

4581    **11.3.6.2    FILTERING AND SORTING CRITERIA**

4582    Data shall be displayed together with planned unavailability on the same page. Filter and  
4583    sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4584    unavailability (planned or actual) as a criterion. Refer to section 11.2.6.2.

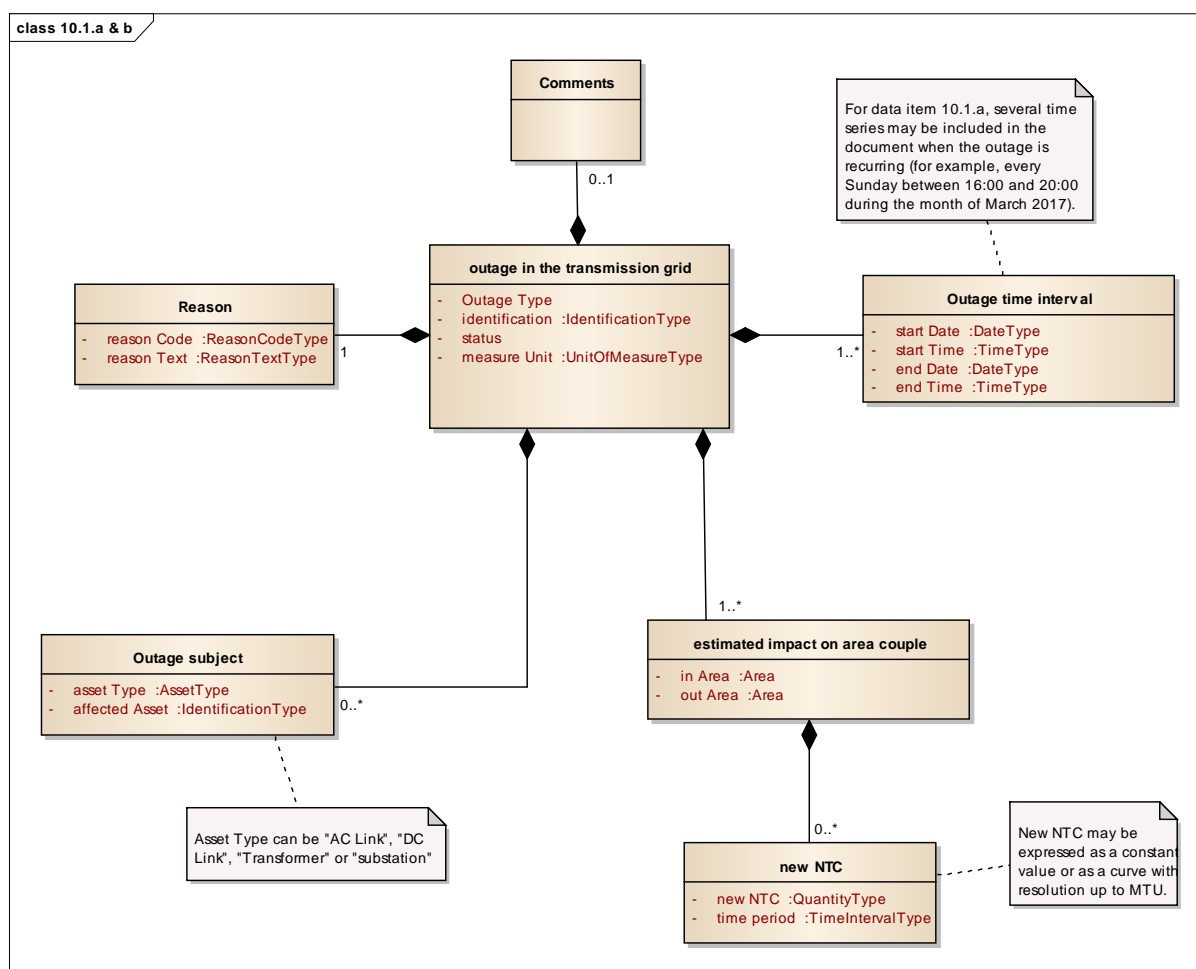
4585    **11.3.6.3    DISPLAY**

4586    Data shall be displayed together with planned unavailability on the same page. The type of  
4587    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

4599 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g.  
4600 every day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time  
4601 series may be included in the document.

4602 - One or several In and Out Area couples that are impacted, along with the new NTC, given  
4603 in Measure Unit, for each couple. New NTC may be expressed as a constant value or as a  
4604 curve with resolution up to MTU. If the outage occurs in a region where flow-based  
4605 allocations occur, inclusion of new NTC is optional.

4606 - Measure Unit is fixed to megawatt (MW)

4607 - For this data item, outage type is “planned”.

4608 - The reason for the planned outage

4609 - Optionally, a free-text comment may be included<sup>33</sup>

## 4610 11.4.2 PRE-CONFIGURATION

4611 For this data item, there is no additional pre-configuration.

## 4612 11.4.3 ASSUMPTIONS

4613 For outages on interconnectors, there is a memorandum of understanding between Data  
4614 Providers that governs who submits data to central platform, to avoid a situation with more  
4615 than one data provider submitting data referring to the same outage.

## 4616 11.4.4 INTEGRATION

4617 - If included in the document, the list of outage subjects (assets) shall be recognised by the  
4618 platform.

4619 - The list of In and Out Area couples described in the document shall be recognised by the  
4620 platform, as per pre-configuration [C-OTG-6]

4621 - Data Provider shall be consistent with the In and Out Area couples, as per pre-configuration  
4622 [C-OTG-7]

4623 - Data Provider shall be consistent with the outage subject(s).

4624 - The outage time intervals may not overlap

4625 - The time interval describing a new NTC must fall within an outage time interval

---

<sup>33</sup> This includes the explanation of the case when two parallel AC Links are given in the list of affected assets

4626 - For a transmission asset, there may not be more than one active planned unavailability at  
4627 any point in time for a specific direction on a specific border.

#### 4628 11.4.5 PROCESSING

4629 Outages marked for cancellation shall be marked as cancelled in the platform database.

#### 4630 11.4.6 PUBLICATION

##### 4631 11.4.6.1 PUBLICATION BEHAVIOUR

4632 [PR-91a-4] An outage marked for cancellation at submission shall be accessible on the  
4633 platform but marked explicitly as cancelled

##### 4634 11.4.6.2 FILTERING AND SORTING CRITERIA

4635 Data shall be visually accessed by selecting the following:

4636 - Date or date range (selection is mandatory)

4637 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover  
4638 the Country will be used as filtering criteria)

4639 - In Area (selection is optional)

4640 - Out Area (selection is optional)

4641 - Type of Asset (selection is optional)

4642 - Type of outage: planned or actual, selection is optional

4643 Outages for which outage time interval falls either completely or partially on the selected date  
4644 (or possibly date range) will be displayed.

##### 4645 11.4.6.3 DISPLAY

4646 This data shall be displayed in the following section:

##### 4647 - **Transmission Grid / Unavailability**

4648 The following attributes of data shall be displayed:

4649 - Title

4650 For each outage that falls within the selected date or date range, the following details are  
4651 displayed:

4652 - Measure Unit



- 4653 - Status (active or cancelled)
- 4654 - Type of outage (planned or actual)
- 4655 - If provided, the outage subjects with links to pages on central platform that provide full  
4656 details; type, name and location. This is displayed in a list if more than one asset has been  
4657 declared.
- 4658 - The reason for the outage
- 4659 - Comments, if available
- 4660 The following information is provided for each declared time interval that falls within the  
4661 selected date or date range:
- 4662 - Start date and time
- 4663 - End date and time
- 4664 - The In and Out Area(s) and the new NTC. If new NTC is expressed as a curve, it shall be  
4665 possible to expand the view so time periods and NTC values are displayed in a table and in a  
4666 chart
- 4667

## 11.5 CHANGES IN ACTUAL AVAILABILITY IN THE TRANSMISSION GRID [10.1.B]

### 11.5.1 DATA DESCRIPTION

Data description is almost identical to data item “Planned unavailability in the transmission grid [10.1.a]”, refer to chapter 11.2. The differences are:

- outage type shall be “actual”
- only one time interval is permitted
- status is always “active”

Note that several outage subjects are permitted though, also for this data item.

### 11.5.2 PRE-CONFIGURATION

For this data item, there is no additional pre-configuration.

### 11.5.3 ASSUMPTIONS

Reasons for the outage can be updated D+1 after the start of the outage.

For outages on interconnectors, there is a memorandum of understanding between Data Providers that governs who submits data to central platform, to avoid a situation with more than one data provider submitting data referring to the same outage.

### 11.5.4 INTEGRATION

- The document date and time of the submitted document should be posterior to the start date and time of the outage. This validation will trigger a warning only.

- For a transmission asset, there may not be more than one change in actual availability at any point in time for a specific direction on a specific border.

All other validations are the same as for planned unavailability of transmission infrastructure, refer to chapter 11.4.4.

### 11.5.5 PROCESSING

No processing is performed on this data item.

4693    **11.5.6       PUBLICATION**

4694    **11.5.6.1    PUBLICATION BEHAVIOUR**

4695    No specific publication behaviour applies to this data item.

4696    **11.5.6.2    FILTERING AND SORTING CRITERIA**

4697    Data shall be displayed together with planned outages on the same page. Filter and sorting  
4698    criteria are the same as for planned outages. It shall be possible to use type of outage  
4699    (planned or actual) as a criterion. Refer to section 11.4.6.2.

4700    **11.5.6.3    DISPLAY**

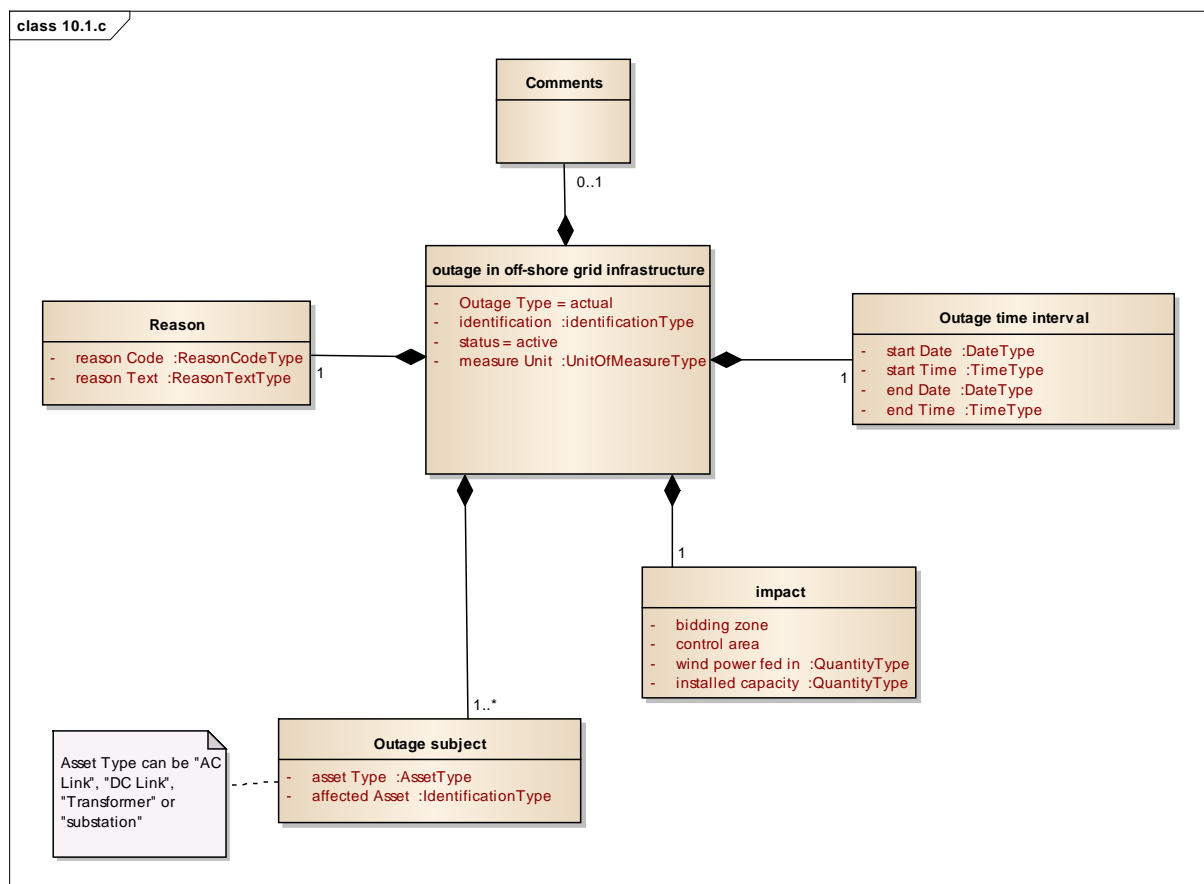
4701    Data shall be displayed together with planned outages on the same page. The type of outage  
4702    (planned or actual) shall be displayed. Refer to section 11.4.6.3.

4703

## 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

- 4716 - Installed generation capacity
- 4717 - Wind power fed in at the time of the change in the availability
- 4718 - Measure Unit is fixed to megawatt (MW)
- 4719 - Outage type is fixed to “actual”
- 4720 - Status is fixed to “active”
- 4721 - The reason for the outage
- 4722 - Optionally, a free-text comment may be provided
- 4723 **11.6.2 PRE-CONFIGURATION**
- 4724 For this data item, there is no additional pre-configuration.
- 4725 **11.6.3 ASSUMPTIONS**
- 4726 Outage of Generation units and Production Units will be accounted for in separate document,
- 4727 as per chapters 11.8 and 11.10.
- 4728 **11.6.4 INTEGRATION**
- 4729 - The outage subjects (assets) described in the document shall be recognised by the
- 4730 platform.
- 4731 - The Data Provider shall be consistent with the identified outage subjects.
- 4732 - The document date and time of the submitted document should be posterior to the start
- 4733 date and time of the outage. This validation will trigger a warning only.
- 4734 **11.6.5 PROCESSING**
- 4735 No processing is performed on this data item.
- 4736 **11.6.6 PUBLICATION**
- 4737 **11.6.6.1 PUBLICATION BEHAVIOUR**
- 4738 No specific publication behaviour applies to this data item.
- 4739 **11.6.6.2 FILTERING AND SORTING CRITERIA**
- 4740 Data shall be visually accessed by selecting the following:

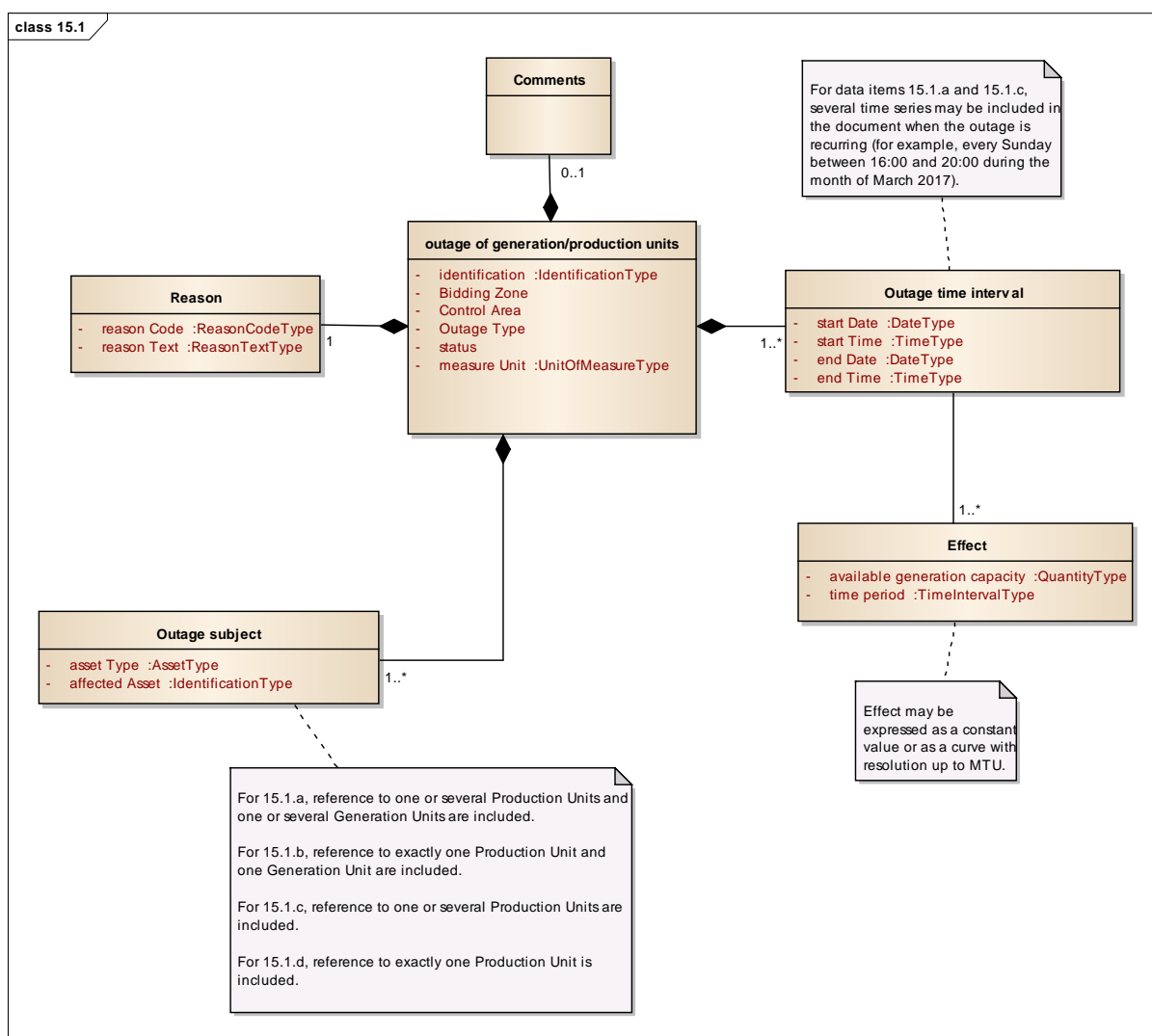
- 4741 - Date or date range (selection is mandatory)
- 4742 - Country or Bidding Zone (selection is mandatory); if Country is selected, pre-configuration  
4743 [C9] will be used to identify the corresponding Control Area and filter Outages accordingly)
- 4744 Outages for which time interval falls either completely or partially on the selected date (or  
4745 possibly date range) will be displayed.
- 4746 **11.6.6.3 DISPLAY**
- 4747 Data shall be displayed in the following section:
- 4748 **- Transmission Grid / Unavailability of off-shore grid**
- 4749 The following attributes of data shall be displayed:
- 4750 - Title
- 4751 - Measure Unit
- 4752 For each outage that falls within the selected date or date range, the following details are  
4753 displayed:
- 4754 - Country or Bidding Zone
- 4755 - Status (always “active”)
- 4756 - Type of outage (always “actual”)
- 4757 - The outage subjects with links to pages on central platform that provide full details; asset  
4758 type, name, location. This is provided in a list if more than one asset has been declared.
- 4759 - The reason for the outage
- 4760 - Comments, if available
- 4761 - Start date and time
- 4762 - End date and time
- 4763 - installed generation capacity
- 4764 - Wind power fed in
- 4765

## 11.7 PLANNED UNAVAILABILITY OF GENERATION UNITS

### [15.1.A]

#### 11.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



A planned unavailability on generation unit is described by the following:

- An identification of the outage, having a status (active or cancelled)
- Bidding Zone and Control Area
- Type of outage is planned

- 4775 - The outage subject, defined by the asset Type (Generation Unit) and its Unique Code
- 4776 - The Production Unit that the Generation Unit belongs to, defined by the asset Type
- 4777 (Production Unit) and its Unique Code
- 4778 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g.
- 4779 every day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time
- 4780 series may be included in the document.
- 4781 - The estimated available generation capacity in Measure Unit
- 4782 - The reason for the planned outage
- 4783 - Measure Unit is fixed to megawatt (MW)
- 4784 - Optionally, a free-text comment may be provided

## 4785 11.7.2 PRE-CONFIGURATION

- 4786 For select control areas, the validation against overlapping outages may be disabled.

## 4787 11.7.3 ASSUMPTIONS

- 4788 Unavailability of generation units is submitted per Bidding Zone and Control Area. For a
- 4789 given unavailability, there will be only one Data Provider.
- 4790 Installed capacity of generation unit is recorded in Master Data.

## 4791 11.7.4 INTEGRATION

- 4792 - The outage subject (asset) described in the document shall be recognised by the platform
- 4793 - Outage subject shall be consistent with Bidding Zone and Control Area
- 4794 - Data Provider shall be consistent with Bidding Zone and Control Area
- 4795 - Data Provider shall be consistent with the identified outage subject
- 4796 - For a given generation unit there may not be more than one active planned unavailability at
- 4797 any point in time.

## 4798 11.7.5 PROCESSING

- 4799 Unavailability marked for cancellation shall be marked as cancelled in the platform database.
- 4800 Platform deduces Name of Generation Unit, location, production type and installed
- 4801 generation capacity based on the submitted Unique Code.



4802 Platform deduces Name of Production Unit based on the submitted Unique Code of the  
4803 Production Unit.

## 4804 11.7.6 PUBLICATION

### 4805 11.7.6.1 PUBLICATION BEHAVIOUR

4806 An outage marked for cancellation at submission shall be accessible on the platform but  
4807 marked explicitly as cancelled

### 4808 11.7.6.2 FILTERING AND SORTING CRITERIA

4809 Data shall be visually accessed by selecting the following:

4810 - Date or date range (selection is mandatory)

4811 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4812 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4813 accordingly)

4814 - Type of unavailability: planned or actual, selection is optional

4815 - Production or Generation unit, selection is optional

4816 Unavailability for which time interval falls either completely or partially on the selected date  
4817 (or possibly date range) will be displayed.

### 4818 11.7.6.3 DISPLAY

4819 This data shall be displayed in the following section:

#### 4820 - **Generation / Unavailability**

4821 There shall be a link to the section Generation / List of Production Units and Installed  
4822 Capacity, refer to 9.3.8.2.

4823 - Title

4824 - Measure Unit (MW)

4825 For each outage that falls within the selected date or date range, the following details are  
4826 displayed:

4827 - Status (active or cancelled)

4828 - The outage subject(s) with link to page on central platform that provide full details;  
4829 Production Type, Production and Generation Unit names and installed capacity.

- 4830 - The reason for the outage
- 4831 - Comments, if available
- 4832 - Country or Bidding Zone
- 4833 - Type of unavailability (planned or actual)
- 4834 The following information is provided for each declared time interval that falls within the
- 4835 selected date or date range:
- 4836 - Start date and time
- 4837 - End date and time
- 4838 - The available generation capacity per MTU period
- 4839

## 4840 11.8 CHANGES IN ACTUAL AVAILABILITY OF GENERATION 4841 UNITS [15.1.B]

### 4842 11.8.1 DATA DESCRIPTION

4843 Data description is almost identical to data item "Planned unavailability of generation units  
4844 [15.1.a]", refer to chapter 11.6. The differences are:

- 4845 - outage type shall be "actual"
- 4846 - only one time interval is permitted
- 4847 - status is always "active"
- 4848 - not more than one generation unit and production unit included

### 4849 11.8.2 PRE-CONFIGURATION

4850 For select control areas, the validation against overlapping outages may be disabled.

### 4851 11.8.3 ASSUMPTIONS

4852 Unavailability of generation units is submitted per Bidding Zone and Control Area.

4853 For a given unavailability, there will be only one Data Provider.

4854 Installed capacity of generation unit is recorded in Master Data.

### 4855 11.8.4 INTEGRATION

4856 The document date and time of the submitted document should be posterior to the start date  
4857 and time of the unavailability. This validation shall trigger a warning only.

4858 -For a given generation unit there may not be more than one active change in actual  
4859 availability at any point in time.

4860 All other validations are the same as for planned unavailability of generation units, refer to  
4861 chapter 11.7.4.

### 4862 11.8.5 PROCESSING

4863 Platform deduces Name of Generation Unit, location, production type and installed  
4864 generation capacity based on the submitted Unique Code.

4865 Platform deduces Production Unit and retrieves its Name based on reference data described  
4866 in 9.9. The submitted Unique Code of Production Unit is used as key.

4867    **11.8.6       PUBLICATION**

4868    **11.8.6.1     PUBLICATION BEHAVIOUR**

4869    No specific publication behaviour applies to this data item.

4870    **11.8.6.2     FILTERING AND SORTING CRITERIA**

4871    Data shall be displayed together with planned unavailability on the same page. Filter and  
4872    sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4873    unavailability (planned or actual) as a criterion. Refer to section 11.7.6.2.

4874    **11.8.6.3     DISPLAY**

4875    Data shall be displayed together with planned unavailability on the same page. The type of  
4876    unavailability (planned or actual) shall be displayed. Refer to section 11.7.6.3.

4877

## 4878 11.9 PLANNED UNAVAILABILITY OF PRODUCTION UNITS

### 4879 [15.1.c]

#### 4880 11.9.1 DATA DESCRIPTION

4881 Data description is almost identical to data item "Planned unavailability of generation units  
4882 [15.1.a]", refer to chapter 11.6. The difference is that Asset Type is Production Unit.

#### 4883 11.9.2 PRE-CONFIGURATION

4884 For select control areas, the validation against overlapping outages may be disabled.

#### 4885 11.9.3 ASSUMPTIONS

4886 Unavailability of Production Units is submitted per Bidding Zone and Control Area.

4887 For a given unavailability, there will be only one Data Provider.

4888 Installed capacity per Production Unit has been recorded in Master Data.

#### 4889 11.9.4 INTEGRATION

4890 - The outage subject (asset) described in the document shall be recognised by the platform

4891 - Outage subject shall be consistent with Bidding Zone and Control Area

4892 - Data Provider shall be consistent with Bidding Zone and Control Area

4893 - Data Provider shall be consistent with the identified outage subject

4894 - For a given production unit there may not be more than one active planned unavailability at  
4895 any point in time. Validation shall be carried out separately for production unit and its  
4896 generation units, i.e. overlaps between outages of a production unit and any of its generation  
4897 units are permitted.

#### 4898 11.9.5 PROCESSING

4899 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4900 Platform deduces Name of Production Unit, location, production type and installed  
4901 generation capacity based on the submitted Unique Code.

## 4902 11.9.6 PUBLICATION

### 4903 11.9.6.1 PUBLICATION BEHAVIOUR

4904 An outage marked for cancellation at submission shall be accessible on the platform but  
4905 marked explicitly as cancelled.

### 4906 11.9.6.2 FILTERING AND SORTING CRITERIA

4907 Data shall be visually accessed by selecting the following:

4908 - Date or date range (selection is mandatory)

4909 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration  
4910 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages  
4911 accordingly)

4912 - Type of unavailability: planned or actual, selection is optional

4913 - Production unit, selection is optional

4914 Unavailability for which time interval falls either completely or partially on the selected date  
4915 (or possibly date range) will be displayed.

### 4916 11.9.6.3 DISPLAY

4917 This data shall be displayed in the following section:

#### 4918 - **Generation / Unavailability**

4919 There shall be a link to the section Generation / List of Production Units and Installed  
4920 Capacity, refer to 9.3.8.2.

4921 - Title

4922 - Measure Unit (MW)

4923 For each outage that falls within the selected date or date range, the following details are  
4924 displayed:

4925 - Status (active or cancelled)

4926 - The outage subject(s) with link to page(s) on central platform that provide full details;  
4927 Production Type, Production Unit name and installed capacity.

4928 - The reason for the outage

4929 - Comments, if available

- 4930 - Country or Bidding Zone
- 4931 - Type of unavailability (planned or actual)
- 4932 The following information is provided for each declared time interval that falls within the
- 4933 selected date or date range:
- 4934 - Start date and time
- 4935 - End date and time
- 4936 - The available generation capacity per MTU period
- 4937

## 4938 11.10 CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION 4939 UNITS [15.1.D]

### 4940 11.10.1 DATA DESCRIPTION

4941 Data description is almost identical to data item “Planned unavailability of production units  
4942 [15.1.c]”, refer to chapter 11.9. The differences are:

- 4943 - outage type shall be “actual”
- 4944 - only one time interval is permitted
- 4945 - status is always “active”
- 4946 - not more than one production unit included

### 4947 11.10.2 PRE-CONFIGURATION

4948 For select control areas, the validation against overlapping outages may be disabled.

### 4949 11.10.3 ASSUMPTIONS

- 4950 Installed capacity per Production Unit has previously been recorded in Master Data.
- 4951 Unavailability of production units is submitted per Bidding Zone and Control Area.
- 4952 For a given unavailability, there will be only one Data Provider.

### 4953 11.10.4 INTEGRATION

4954 The document date and time of the submitted document should be posterior to the start date  
4955 and time of the unavailability. This validation shall trigger a warning only.

4956 For a given production unit there may not be more than one active change in actual  
4957 availability at any point in time. Validation shall be carried out separately for production unit  
4958 and its generation units, i.e. overlaps between outages of a production unit and any of its  
4959 generation units are permitted.

4960 All other validations are the same as for planned unavailability of generation units, refer to  
4961 chapter 11.7.4.

### 4962 11.10.5 PROCESSING

4963 Platform deduces Name of Production Unit, location, production type and installed  
4964 generation capacity based on the submitted Unique Code.



4965    **11.10.6    PUBLICATION**

4966    **11.10.6.1   PUBLICATION BEHAVIOUR**

4967    No specific publication behaviour applies to this data item.

4968    **11.10.6.2   FILTERING AND SORTING CRITERIA**

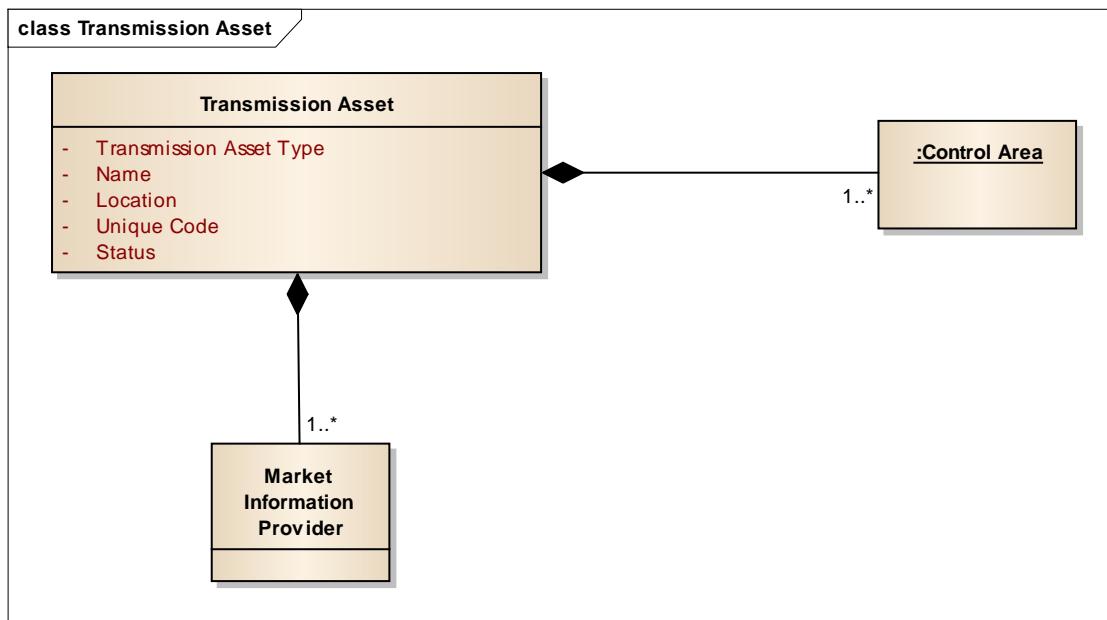
4969    Data shall be displayed together with planned unavailability on the same page. Filter and  
4970    sorting criteria are the same as for planned unavailability. It shall be possible to use type of  
4971    unavailability (planned or actual) as criteria. Refer to section 11.9.6.2.

4972    **11.10.6.3   DISPLAY**

4973    Data shall be displayed together with planned unavailability on the same page. The type of  
4974    unavailability (planned or actual) shall be displayed. Refer to section 11.9.6.3.

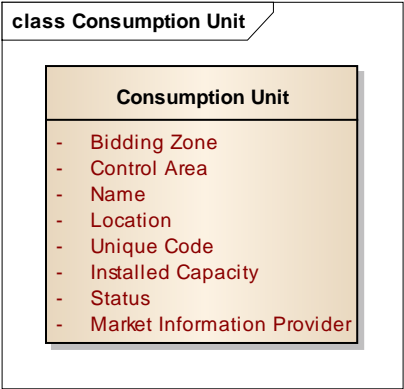
4975

## 11.11 TRANSMISSION ASSETS



- Reference data for transmission assets will have similar structure and maintenance mechanism as generation and production units, refer to chapter 9.9.
- Just like generation units, transmission assets will have a status (commissioned, decommissioned or cancelled), a unique code, name and location. Additionally, transmission assets will have the attribute transmission asset type (AC Link, DC Link, Transformer or Substation).
- As opposed to generation units, a transmission asset may have several Data Providers.
- Note that Bidding Zone is *not* an attribute of transmission asset.
- Note that more than one Control Area may be associated with a transmission asset.
- Transmission assets shall be visible for the Data Provider in the following section on the website:
- Transmission / Transmission Assets**
- It shall be possible to filter the transmission assets by Control Area or Country.

4991 11.12 CONSUMPTION UNITS

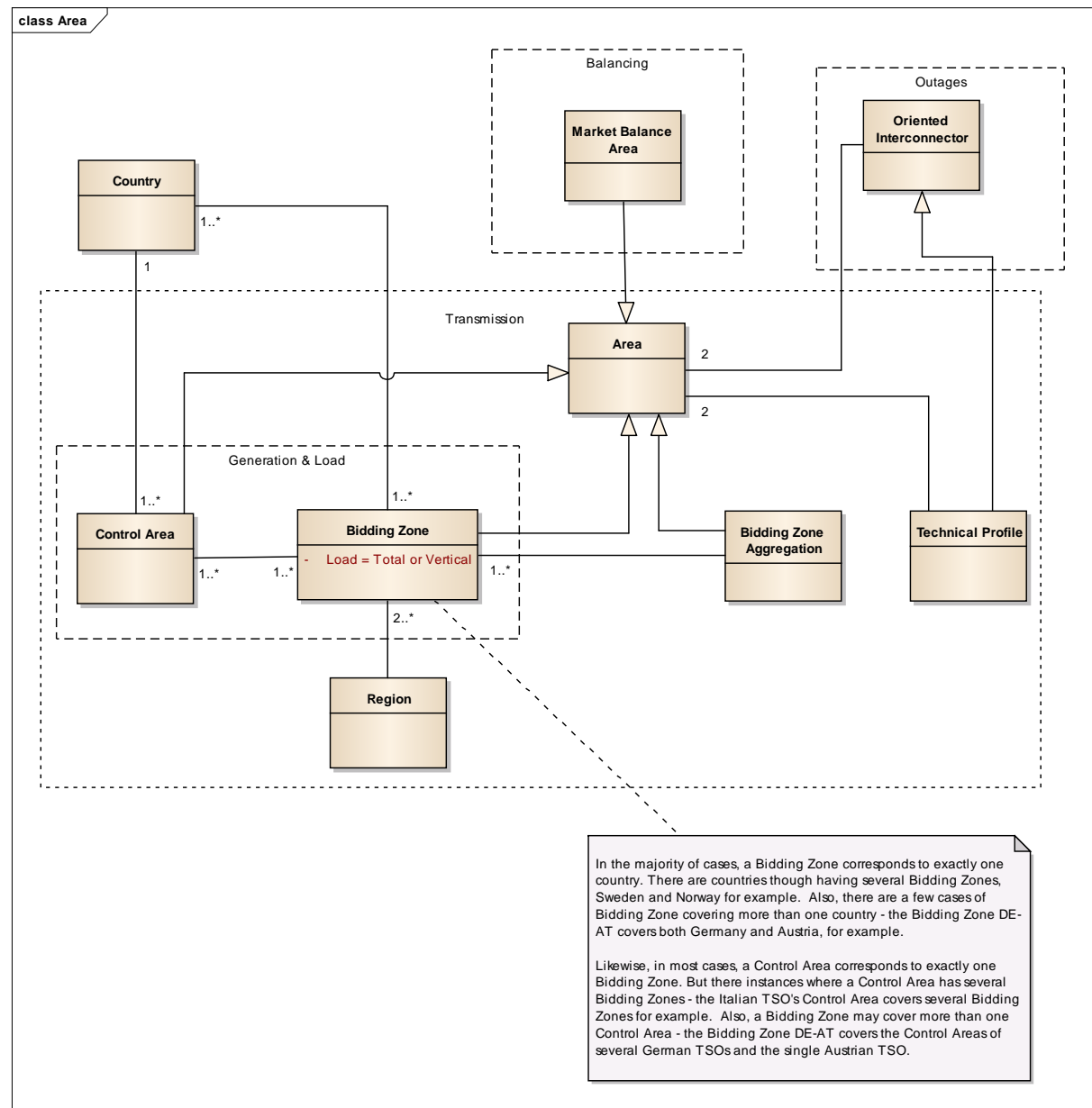


- 4992
- 4993 Reference data for consumption units will have similar structure and maintenance
- 4994 mechanism as generation units, refer to chapter 9.9. Just like generation units, consumption
- 4995 units will have a status (commissioned, decommissioned or cancelled), bidding area, control
- 4996 area, a unique code, name and location. Installed capacity is mandatory.
- 4997 Similar to generation units, a consumption unit will have only one Data Provider.
- 4998 Consumption Units shall be displayed in the following section on the website:
- 4999 - **Load / Consumption Units**
- 5000 It shall be possible to filter the consumption units by Control Area, Bidding Zone or Country.
- 5001

## 12REFERENCE 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



- 5009 Bidding Zone is used in all domains except Balancing, where Market Balance Area is used  
5010 instead.
- 5011 A Control Area never overlaps another Control Area. Likewise, a Bidding Zone never  
5012 overlaps another Bidding Zone.
- 5013 In the Transmission domain, there are Regions and aggregation of Bidding Zones. An Area  
5014 may consist of either a single Bidding Zone or a Bidding Zone Aggregation. Also in  
5015 Transmission domain, a Technical Profile consists of two Areas with a direction. See section  
5016 7.1 for further details.
- 5017 For Outages, there are Oriented Interconnectors that consist of two Areas with a direction.  
5018 See also section 11.1.2.

## 5019 12.2 ASSETS

- 5020 There are four types of assets: Generation Units, Production Units, Consumption Units and  
5021 Transmission Assets. Refer to diagram in section 11.1.1.
- 5022 More information on Generation and Production Units is available in section 9.9.  
5023 Consumption Units are detailed in 11.12. Transmission Assets are described in section  
5024 11.11.

## 5025 12.3 TRANSMISSION CAPACITY ALLOCATIONS AND 5026 CAPACITY PRODUCTS

- 5027 Capacity Allocations and products are relevant to the Transmission domain. Capacity  
5028 Allocations can be either explicit or implicit. Capacity products are associated with Capacity  
5029 Allocations and are characterised by two Areas with a direction and a Contract Type, and  
5030 additionally for explicit allocations a Classification Category and a Classification Sequence.
- 5031 Further details on Transmission Capacity Allocations and Capacity Products are available in  
5032 chapters 7.1.1 and 7.28.

## 5033 12.4 PROCESSES, RESERVES AND PRICE TYPES

- 5034 In the Balancing domain, there are constraints on the valid combinations of Market Balance  
5035 Area, Reserves and Price Type. Full details are available in chapters 10.1.1 and 10.1.2. For  
5036 some data items also Contract Types may be relevant. Contract Types are the same as in  
5037 Transmission domain.

## 5038 12.5 TIME UNITS

5039 In all domains except Balancing, Market Time Units are used and depend on Bidding Zone or  
5040 Bidding Zone Aggregation. For Balancing, Balancing Time Units are used and depend on  
5041 Market Balance Area.

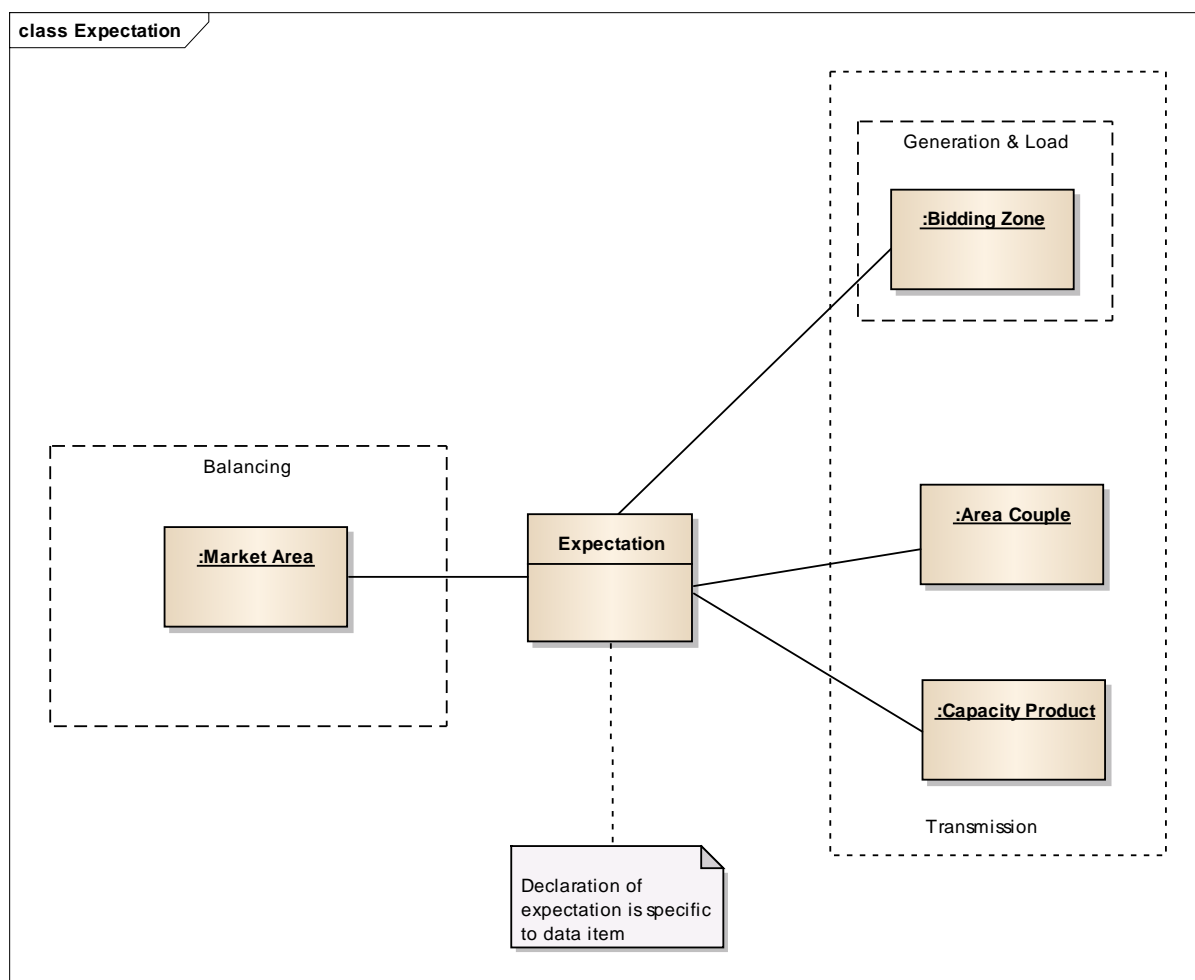
## 5042 12.6 ACTIONS AND REASONS

5043 For Congestion Management, different sets of actions are foreseen. Further details provided  
5044 in chapter 8.1.2.

5045 For Outages, a single set of reason codes is foreseen, common to all kinds of Outages.  
5046 Details are provided in chapter 11.1.2.

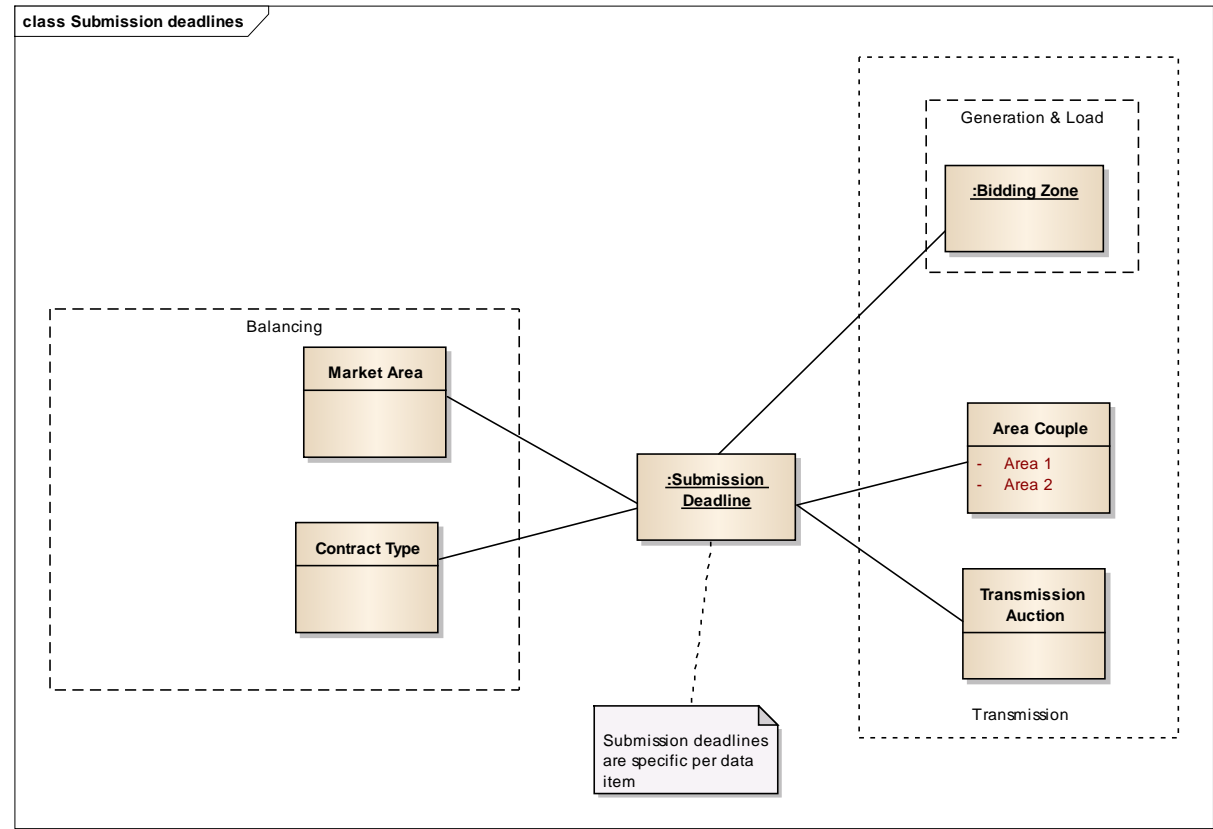
## 5047 12.7 DATA ITEMS

### 5048 12.7.1 EXPECTATION OF DATA



- 5049
- 5050 Whether data is expected or not is declared per Bidding Zone for data items in the domains
- 5051 Generation and Load. In the Transmission domain, expectation is declared per Bidding Zone,
- 5052 Bidding Zone couple or per Technical Profile. For some Transmission data items related to
- 5053 capacity allocations, expectation is determined per capacity product.
- 5054 For data items in the Balancing domain, expectation is declared per Market Balance Area.

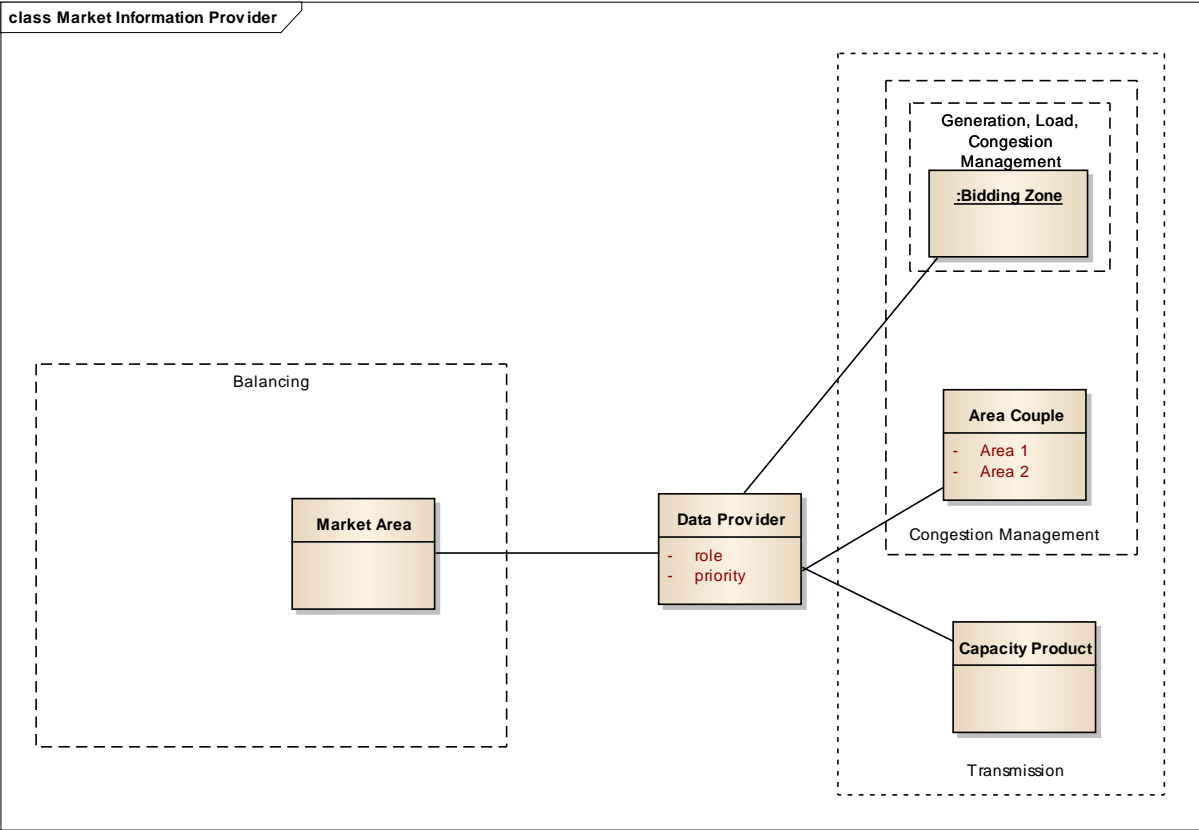
5055 12.7.2 SUBMISSION DEADLINES



- 5056
- 5057 For data items in Generation and Load domains, submission deadlines are determined by
- 5058 Bidding Zone.
- 5059 In Transmission domain, deadlines are defined per Bidding Zone or couple of Bidding Zones.
- 5060 For some Transmission data items related to capacity allocations, submission deadlines are
- 5061 set per capacity allocation instance.
- 5062 For data items in the Balancing domain, submission deadlines are defined per Market
- 5063 Balance Area and for some data items also per Contract Type.



5064      12.7.3    ALLOWED DATA PROVIDERS



- 5065
- 5066      Data Providers have a priority and a role – those attributes are relevant in the Transmission
- 5067      domain only.
- 5068      In the domains Generation and Load, the allowed Data Providers are associated with the
- 5069      Control Area and Bidding Zone.
- 5070      In the Transmission and Congestion Management domains, the allowed Data Providers are
- 5071      associated with Bidding Zone, a couple of Bidding Zones or a Technical Profile. For some
- 5072      data items related to Transmission capacity allocations, allowed Data Providers are identified
- 5073      per Capacity Allocation.
- 5074      In the Balancing domain, the allowed Data Provider is associated with Market Balance Area.