



European Network of
Transmission System Operators
for Electricity

*CENTRAL INFORMATION
TRANSPARENCY PLATFORM
-
BUSINESS REQUIREMENTS
SPECIFICATION*

2014-01-28

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109 REVISION HISTORY

Version	Release	Date	Paragraph	Comments
1	3	2014-01-28		Final document for inclusion in Manual of Procedures

110

111

112 BRS DRAFTING TEAM MEMBERS

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113

114 REFERENCE DOCUMENTS

115 [1] Commission Regulation (EU) No 543/2013 of 14 June 2013 on transparency and
116 provision of information in electricity markets

117 [3] Detailed Data Descriptions

118 [4] Implementation Guides

119 [5] ENTSO-E Acknowledgement Document (EAD) Implementation Guide - version 5.1

120 [6] EMR Glossary: [link](#)

121 [7] ETSO Problem Statement Document Implementation Guide version 1.0

122 [8] The Harmonised Electricity Market Role Model

123 [9] Manual of Procedures

124 [10] ERRP Implementation Guide v4r1: [link](#)

125 [11] ECAN Implementation Guide v5r0: [link](#)

126 Note concerning wording used in this document:

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

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

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

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

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

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

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

1 INTRODUCTION

The ENTSO-E Transparency Platform 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 regulation on submission and publication of data in electricity markets. The requirements arising from the regulation implies a significant extension of the scope of the existing entsoe.net transparency platform. ENTSO-E is responsible for ensuring that the central platform complies with the regulation and proposes to develop a new platform, the Central Information Transparency Platform, hereafter referred to as “the central platform”, which will support the full scope of the regulation.

The project objectives are:

- To develop and maintain the new Central Information Transparency Platform in accordance and compliance with the Guidelines and Regulations,
- To establish standardised methods of communication between the central 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 central 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.

2 OBJECTIVE

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

- Data to be published by the central 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

BTU	Balancing Time Unit
CCrd	Capacity Coordinator
ECAN	ENTSO-E Capacity Allocation and Nomination system
EDI	Electronic Data Interchange
ERRP	ENTSO-E Reserve Resource Process
FCR	Frequency Containment Reserves
FRR	Frequency Restoration Reserves
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 Descriptions [3]	Matching with EDI	Definition for the BRS
Acquiring Area / Connecting Area	yes	Yes (see [10])	In cross-border balancing, the Acquiring Area is the area receiving bids for activation coming from Connecting Areas.

			Acquiring and Connecting Areas are not necessarily neighbouring areas.
Area	yes	Yes: matches an “Area” or a “Domain”	An Area is a space allocated for a specific purpose
Balancing Time Unit	Yes	No	See Regulation [1]
Bidding Zone	Yes	Yes	See 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 Regulation [1]
In Area / Out Area	yes	Yes	- In Area: the Area where the energy is to be put

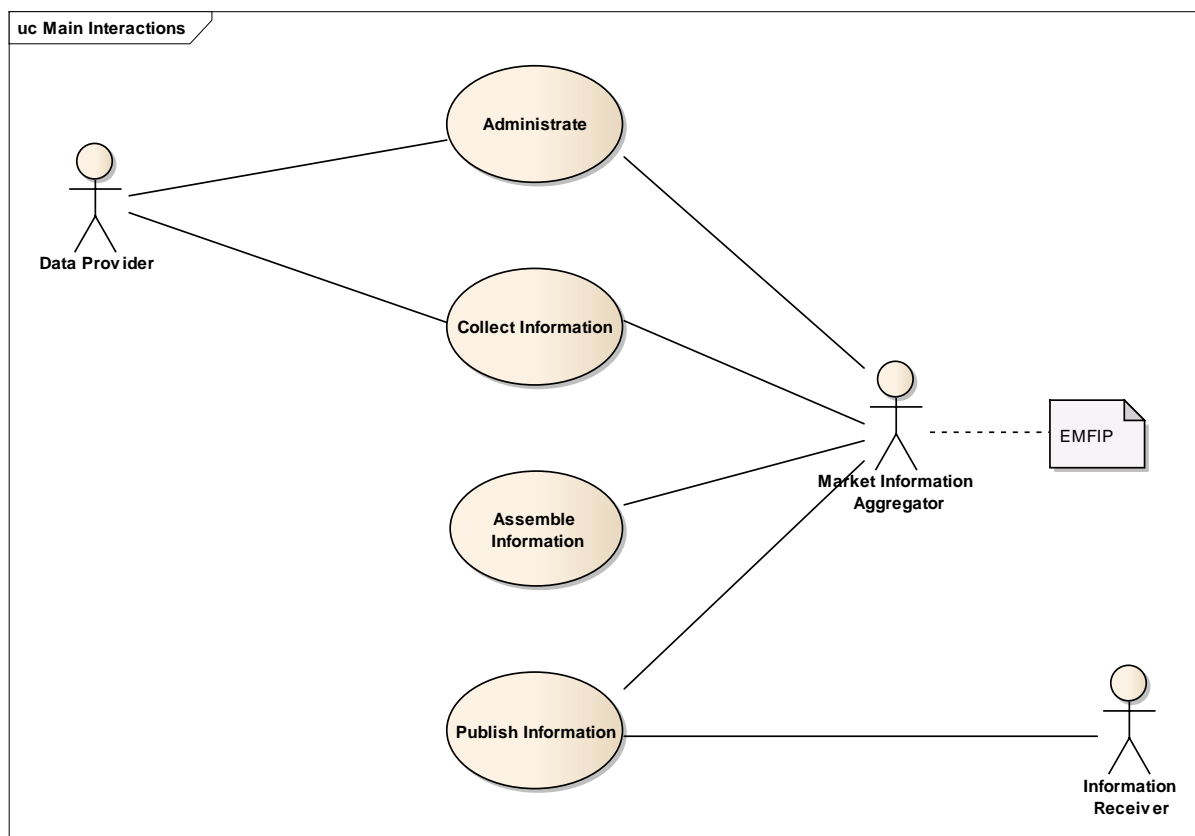
			- Out Area: the Area where the energy is coming from
Information Receiver	Not used	Yes	Refer to Harmonised Role Model
Interconnector	Not used	No	See Regulation 714/2009.
Market Balance Area	Term not used. The term "coordinate d balancing area" is used in some instances.	Yes	
Market Information Aggregator	Not used	Yes	Refer to Harmonised Role Model
Market Time Unit	Yes	No	See 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 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

187

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].

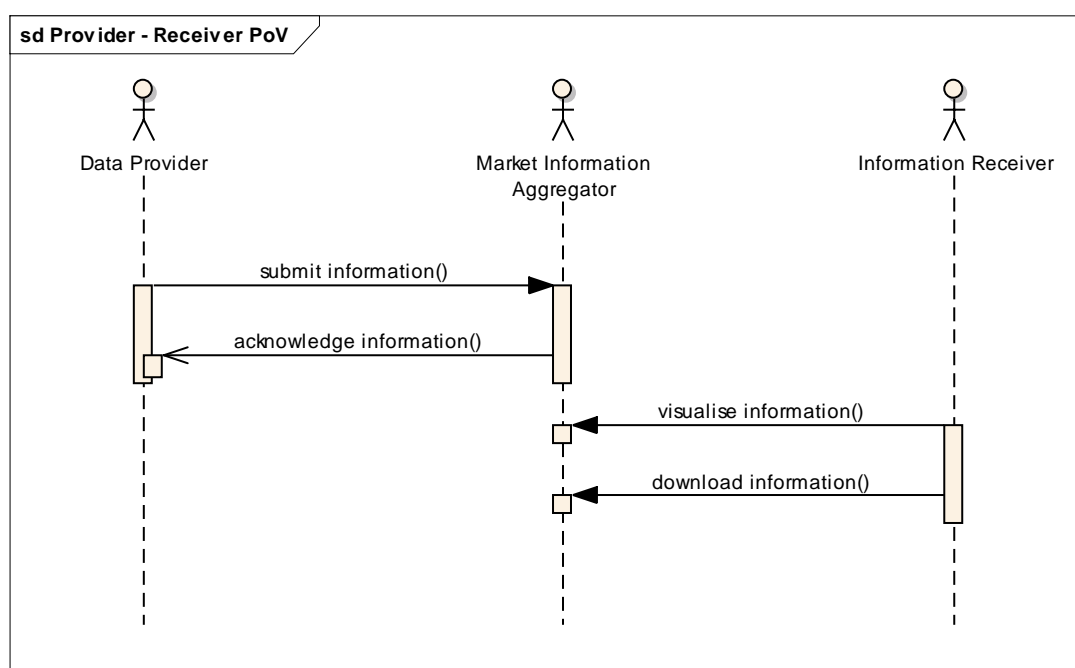
- Data Provider can either be a TSO or a third party acting as data provider. The Data Provider is not necessarily the primary owner of information but it is the entity that submits information to the Market Information Aggregator
- Market Information Aggregator: Embodied by the central platform in this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

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

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

209 4.2 EXTERNAL POINT OF VIEW SEQUENCE DIAGRAM

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



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

222

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 ENTSO-E 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. Rewoked/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.

5.1.3 REQUIREMENTS

Platform shall be able to manage a register of authorised Data Providers.

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

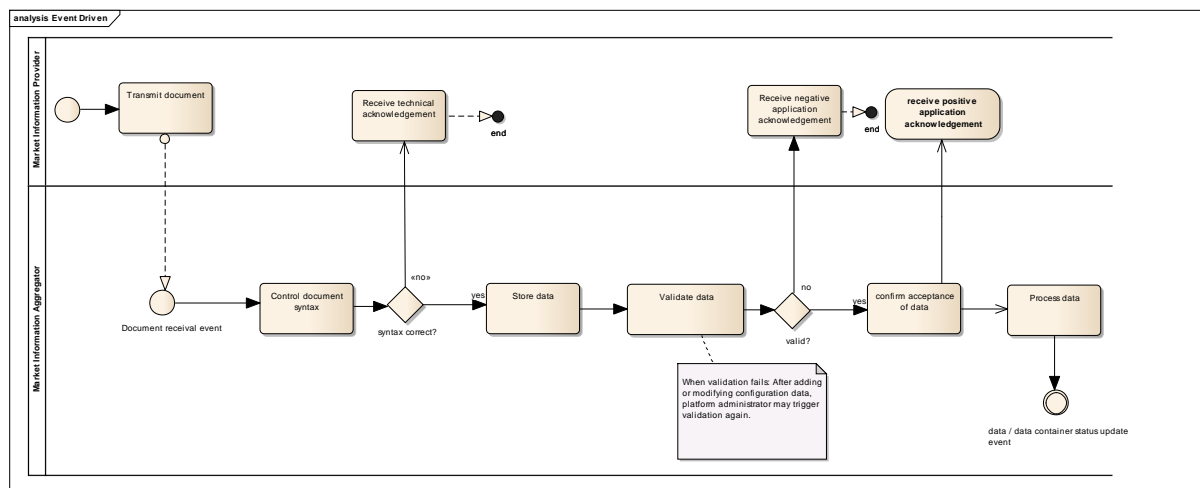
Platform shall support a variety of data submission frequencies (yearly, monthly, daily, hourly, etc).

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

5.2 INTEGRATION

5.2.1 BEHAVIOUR ON DOCUMENT RECEIPT EVENT

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



When a Data Provider transmits a document to the platform, it triggers a “document receipt event” on the platform¹ which starts the integration process. This process is made up of the following steps:

1) Control document syntax

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

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 central
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 central 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 access².

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, the administrator of the platform shall be able to repeat the
300 validation. This would typically be the case when some reference data has not been
301 configured properly on the platform. Validation may be repeated as long as the version of the
302 document remains the highest (i.e. no update received).

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

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

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

² Currently, EDI documents cannot be used to transmit warnings.

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

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

317 Data Provider only will have access to invalid data.

318 5.3 PROCESSING

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

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

324 5.4 MONITORING

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

327 For every data item, it shall be possible, but not necessary³, to configure a submission
328 deadline. It will be possible to define exceptions to the deadline. Reason is that there may be
329 deviations due to local market practice.

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

331 Platform shall be capable of monitoring data submission, generate reminders and report on
332 submission status.

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

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

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

339 5.4.1 MONITORING OF DATA ITEMS REQUIRING AGGREGATION

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

345 5.4.2 DECLARATION OF EXPECTATION AND SUBMISSION DEADLINES

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

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

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

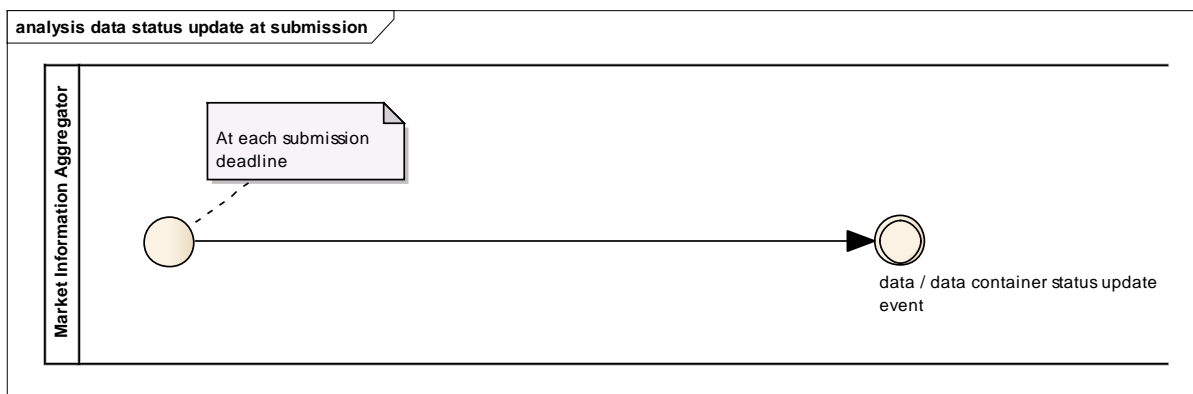
355 - the **definition of the submission deadline** (e.g. declaration that this “forecasted monthly
356 transfer capacity” has to be submitted no later than the 15th of the preceding month).

357 5.4.3 MONITORING FREQUENCY

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

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

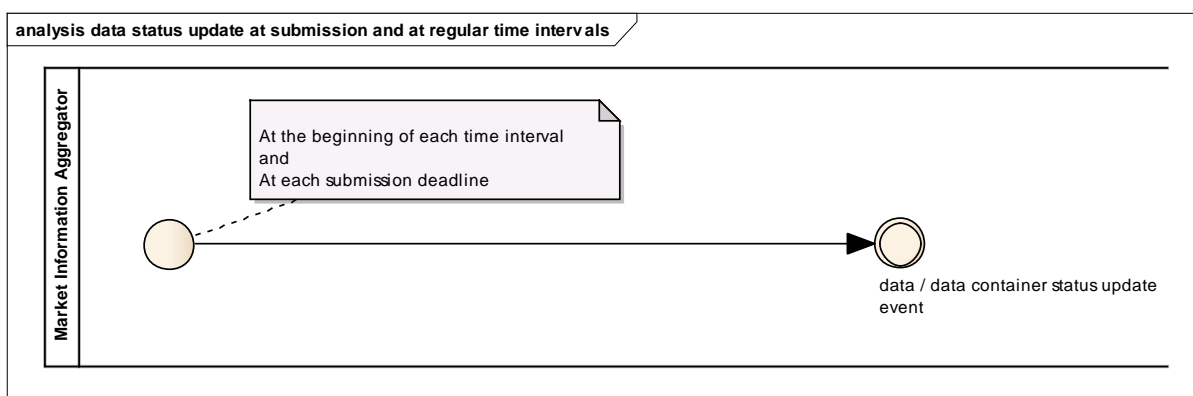
361 - at each submission deadline



362

363 or

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



366

367 5.5 DATA CONTAINER STATUS / DATA STATUS

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

369 - a data receipt event

370 - a monitoring event

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

372 - None / Ready for publication / Missing scheme

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

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

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

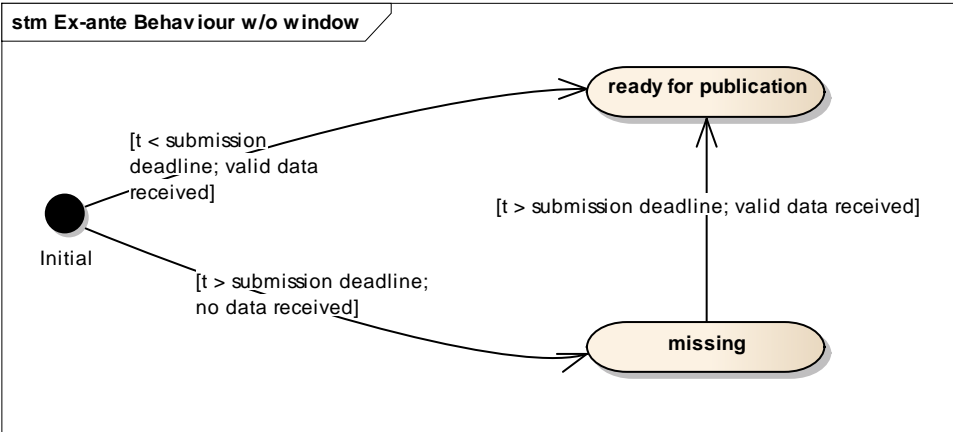
- a data receipt event
- For expected but not monitored data (i.e. with no submission deadline), only one scheme is possible:
- None / Ready for publication scheme
- Data that is not expected will be rejected by platform.

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

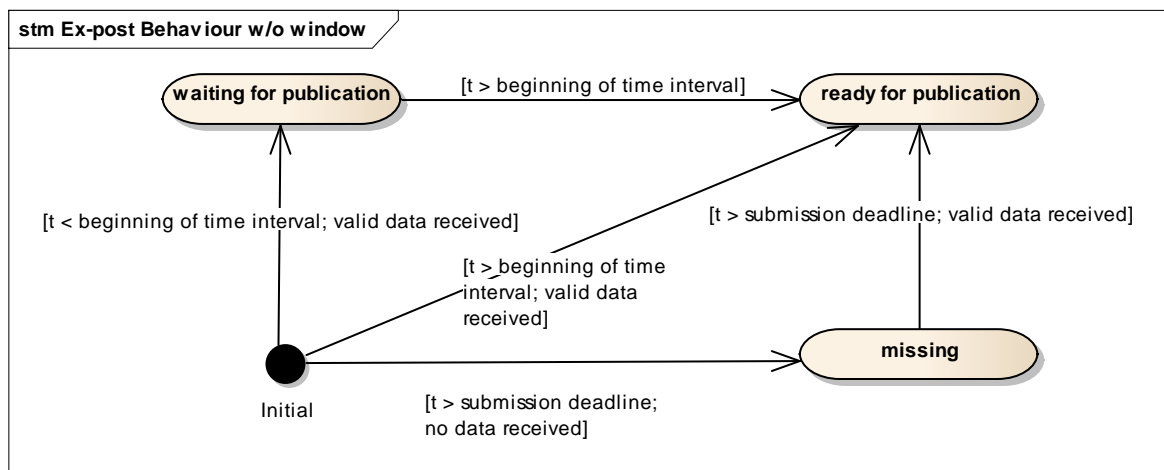
- Until the beginning of the time interval, data can have the following additional status: none or waiting for publication. Indeed, this data item should refer to ex-post information and should not be published before the beginning of the operating period⁴.

- 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.



⁴ 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

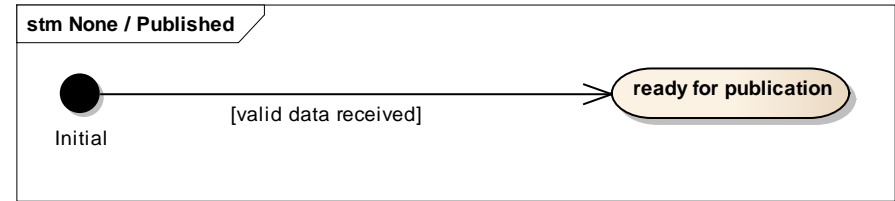
Whenever the platform receives data, at the beginning of the time interval or at submission deadline, the platform checks state transition conditions to update the status of expected data.

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.

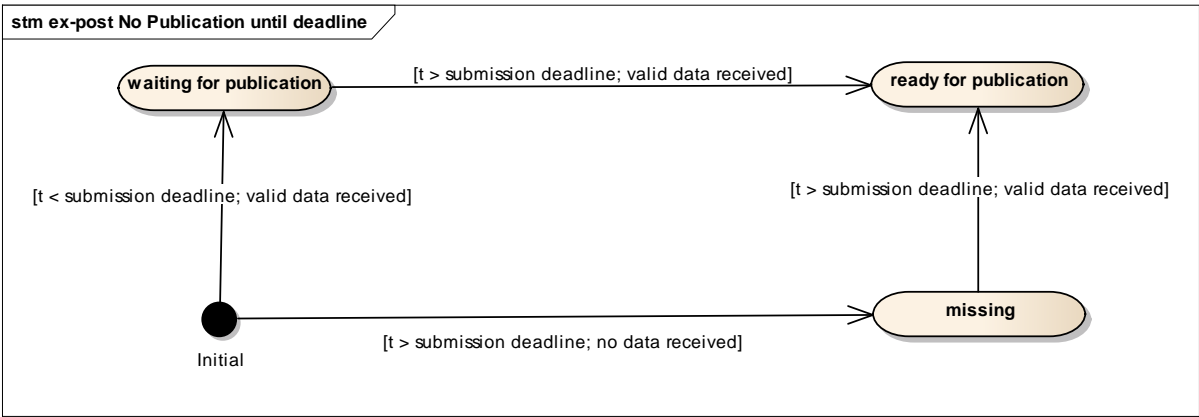
Until the submission deadline, data can have the following status: None or waiting for publication.

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 required⁵, 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

⁵ This is the case for outages where no submission deadline is required

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

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

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

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

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

456 When filtering and sorting criteria are available, all applicable criteria will be displayed for the
457 user to choose among.

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

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

464 5.7 ADMINISTRATION OF USERS AND ORGANISATIONS

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

467 It shall be possible to create, modify and delete user Roles, having different sets of
468 privileges. The following roles and privileges are foreseen:

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

⁶ 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.

	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.

469

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

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

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

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

477 5.8 WEB ACCESS

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

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

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

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

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

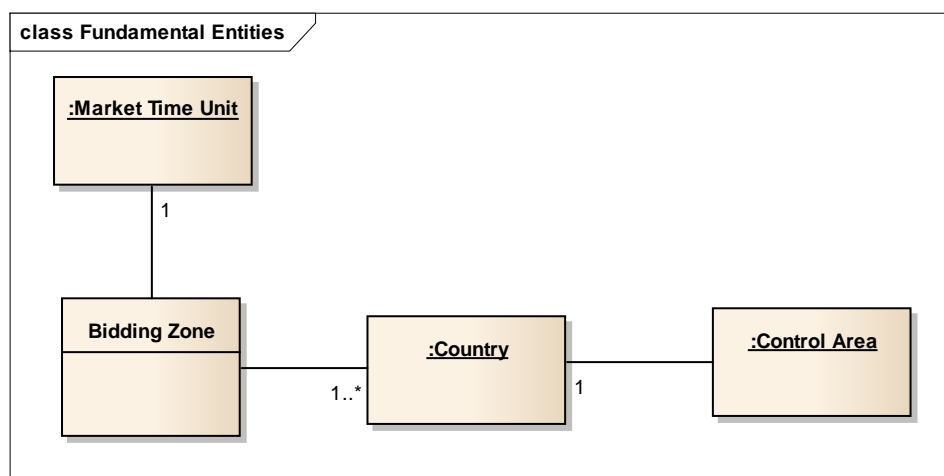
493 By default, data is displayed in Brussels time. Display and download are possible in UTC as
494 well as in any available time zone.

6 LOAD

6.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

6.1.1 FUNDAMENTAL ENTITIES

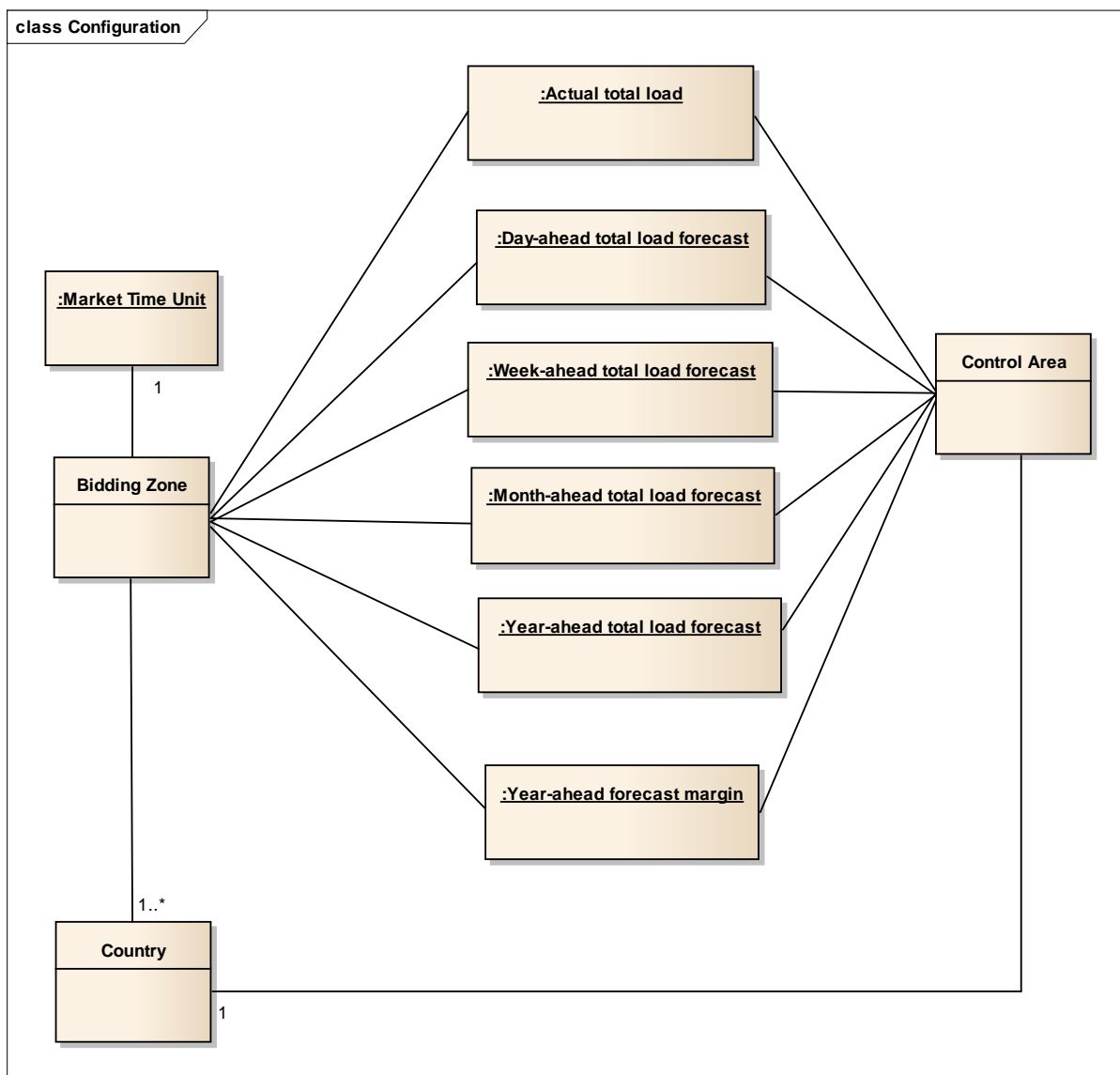
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 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 refer⁷

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



505

506 6.1.2 PRE-CONFIGURATION

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

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

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

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

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

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

530 6.1.3 DATA CONTAINER STATUS / DATA STATUS

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

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

534 6.1.4 PUBLICATION

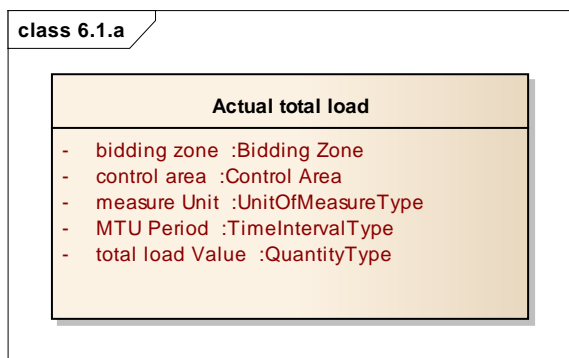
535 Data for a given bidding zone is being published as soon as it is complete, i.e. when all Data
536 Providers have submitted their contributions.

537 For all data items, end user will have the choice between displaying data in a table or in a
538 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 17th, 2012, between 08:00 and 08:30 UTC, the document describing the actual total load during this Period must be submitted before November 17th, 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

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

563 6.2.5 MONITORING

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

566 6.2.6 PROCESSING

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

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

571 6.2.7 PUBLICATION

572 6.2.7.1 FILTERING AND SORTING CRITERIA

573 Data shall be visually accessed by selecting the following:

574 - Country or Bidding Zone (selection is mandatory)

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

577 - Day (Selection is mandatory)

578 6.2.7.2 DISPLAY

579 This data shall be displayed in the following section:

580 - Load / Actual Load

581 The following attributes of data shall be displayed:

582 - Title

583 - Country, Bidding Zone or Control Area name

584 - Day

585 - Measurement Unit

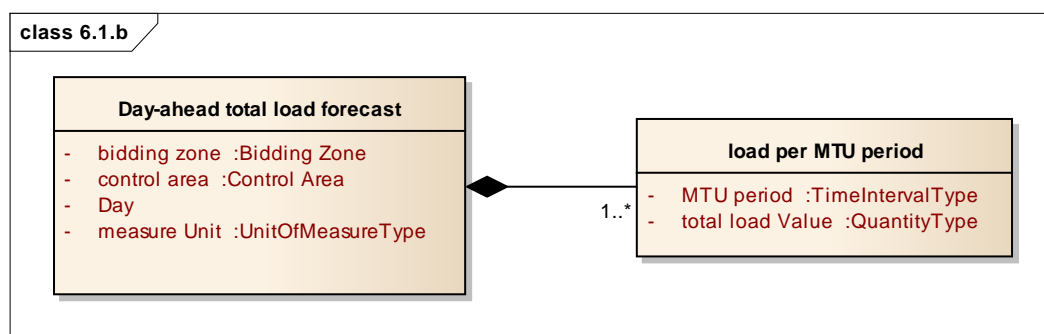
586 - For each Market Time Unit period within the selected Day, the total load

587

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 times⁸, 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.

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

610 6.3.3 ASSUMPTIONS

611 There are no assumptions specific to this data item.

612 6.3.4 INTEGRATION

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

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

616 6.3.5 MONITORING

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

619 6.3.6 PROCESSING

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

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

623 6.3.7 PUBLICATION

624 6.3.7.1 FILTERING AND SORTING CRITERIA

625 Data shall be visually accessed by selecting the following:

626 - Country or Bidding Zone (selection is mandatory)

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

629 - Day (Selection is mandatory)

630 6.3.7.2 DISPLAY

631 This data shall be displayed in the following section:

632 - Load / Day-ahead forecast

633 The following attributes of data shall be displayed:

634 - Title

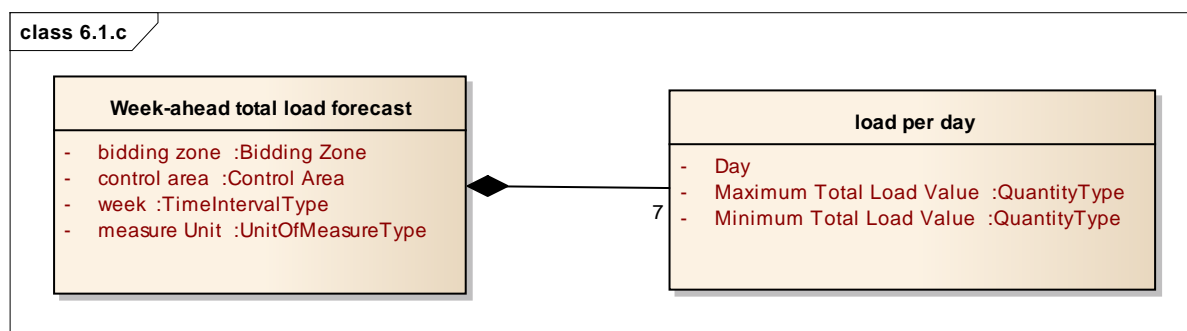
635 - Country, Bidding Zone or Control Area name

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

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 time⁹.

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.

⁹ 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.

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

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

666 6.4.3 ASSUMPTIONS

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

668 6.4.4 INTEGRATION

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

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

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

673 6.4.5 MONITORING

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

676 6.4.6 PROCESSING

677 If data has been submitted with higher resolution than day, platform shall establish the
678 minimum value per day. For example if data is submitted in hourly values a computation
679 must be made to compute the lowest hourly value for every given day. Similarly, the
680 maximum value per day shall be established. This processing is identical to the one
681 performed for forecasted and offered transfer capacities, refer to chapter 7.9.6.

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

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

686 6.4.7 PUBLICATION

687 6.4.7.1 FILTERING AND SORTING CRITERIA

688 Data shall be visually accessed by selecting the following:

689 - Country or Bidding Zone (selection is mandatory)

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

692 - Week (Selection is mandatory)

693 6.4.7.2 DISPLAY

694 This data shall be displayed in the following section:

695 - **Load / Week-ahead forecast**

696 The following attributes of data shall be displayed:

697 - Title

698 - Country, Bidding Zone or Control Area name

699 - Selected week

700 - Measurement Unit

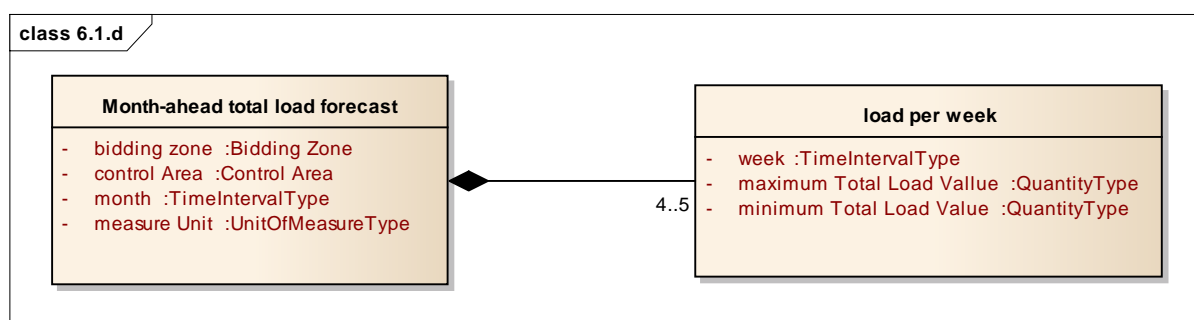
701 - For each day during the selected week, the forecast minimum total load value and
702 maximum total load value

703

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 25th 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

726 6.5.5 MONITORING

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

729 6.5.6 PROCESSING

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

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

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

736 6.5.7 PUBLICATION

737 6.5.7.1 FILTERING AND SORTING CRITERIA

738 Data shall be visually accessed by selecting the following:

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

743 6.5.7.2 DISPLAY

744 This data shall be displayed in the following section:

745 - Load / Month-ahead forecast

746 The following attributes of data shall be displayed:

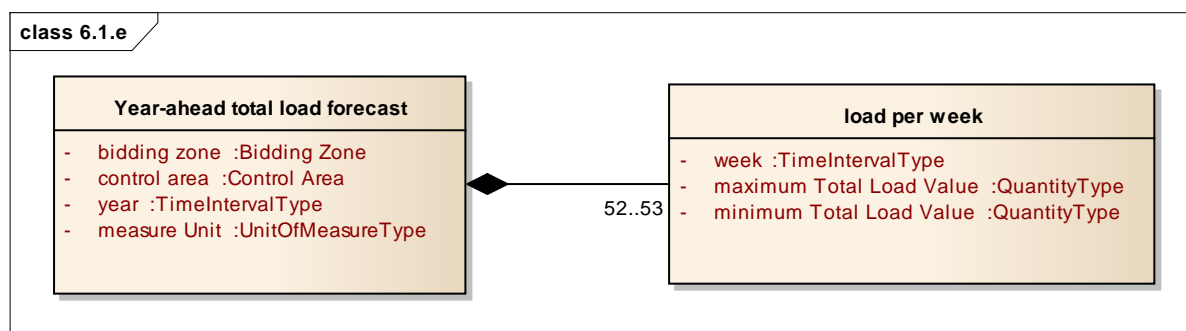
- 747 - Title
- 748 - Country, Bidding Zone or Control Area name
- 749 - Selected month
- 750 - Measurement Unit
- 751 - For each week within the selected month, the forecast minimum total load value and
752 maximum total load value

753

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

776 6.6.5 MONITORING

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

779 6.6.6 PROCESSING

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

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

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

786 6.6.7 PUBLICATION

787 6.6.7.1 FILTERING AND SORTING CRITERIA

788 Data shall be visually accessed by selecting the following:

789 - Country or Bidding Zone (selection is mandatory)

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

792 - Year (Selection is mandatory)

793 6.6.7.2 DISPLAY

794 This data shall be displayed in the following section:

795 - **Load / Year-ahead forecast**

796 The following attributes of data shall be displayed:

797 - Title

798 - Country, Bidding Zone or Control Area name

799 - Selected year

800 - Measurement Unit

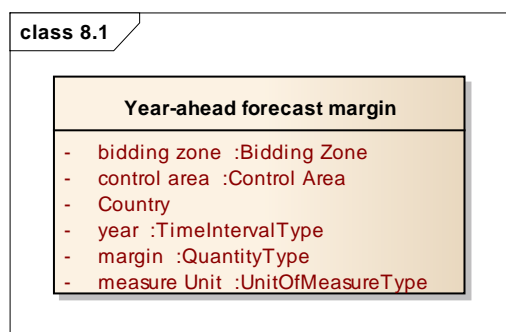
801 - For each week within the selected year, the forecast minimum total load value and
802 maximum total load value

803

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 15th, 2012, the year-ahead forecast margin for the year 2013, must be submitted before November 8th, 2012, 00:00 UTC.

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

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

830 6.7.3 ASSUMPTIONS

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

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

838 6.7.4 INTEGRATION

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

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

842 6.7.5 MONITORING

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

845 6.7.6 PROCESSING

846 No further processing is performed on this data item.

847 6.7.7 PUBLICATION

848 6.7.7.1 FILTERING AND SORTING CRITERIA

849 Data shall be visually accessed by selecting the following:

850 - Country or Bidding Zone (selection is mandatory)

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

853 - Year (Selection is mandatory)

854 6.7.7.2 DISPLAY

855 This data shall be displayed in the following section:

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

857 The following attributes of data shall be displayed:

858 - Title

859 - Country, Bidding Zone or Control Area name

860 - Selected year

861 - Measurement Unit

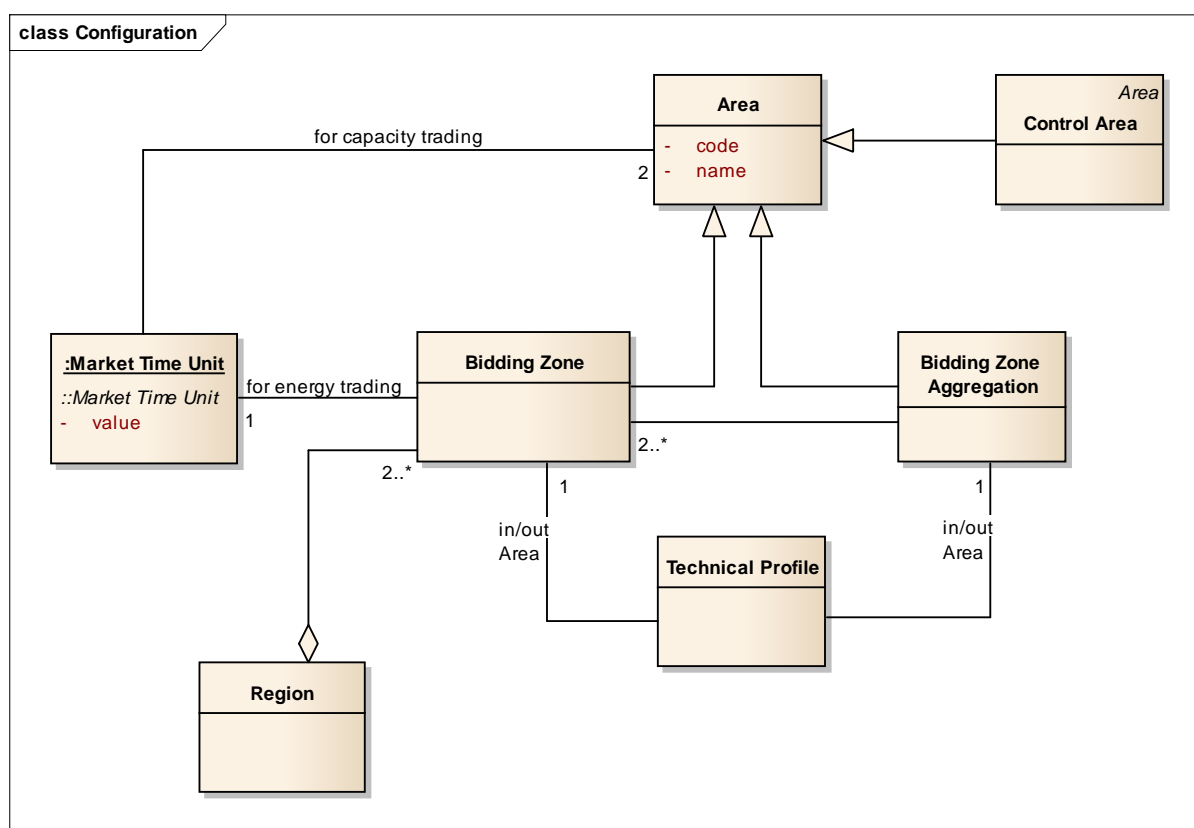
862 - For the year, the forecast margin value

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 Areas¹⁰.
- 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.

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

876 7.1.2 TRANSMISSION CAPACITY ALLOCATIONS

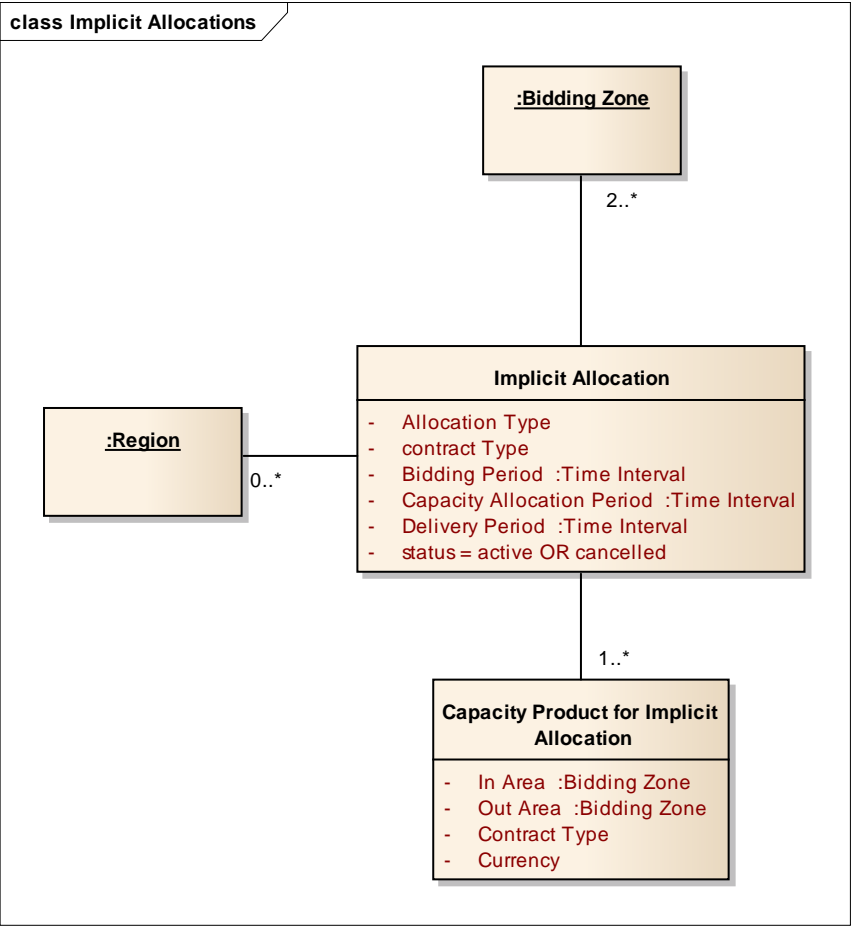
877 Cross-border capacity can be allocated through Implicit or Explicit Allocation. An allocation is
878 characterized by the type of products that are being sold, as determined by the Contract
879 Type; Yearly, Monthly, Daily, etc. The Contract Type¹¹ determines the length of the Delivery
880 Period associated with the auction, which is the time interval when the capacity will be used.

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

886 7.1.2.1 IMPLICIT ALLOCATIONS

887 There are two types of Implicit Allocations: Market Coupling and Market Splitting. This
888 distinction is for information purposes only. An Implicit Allocation that covers two or more
889 Bidding Zones may be associated with one or several Regions.

¹¹ Sometimes referred to as “Time Horizon”.

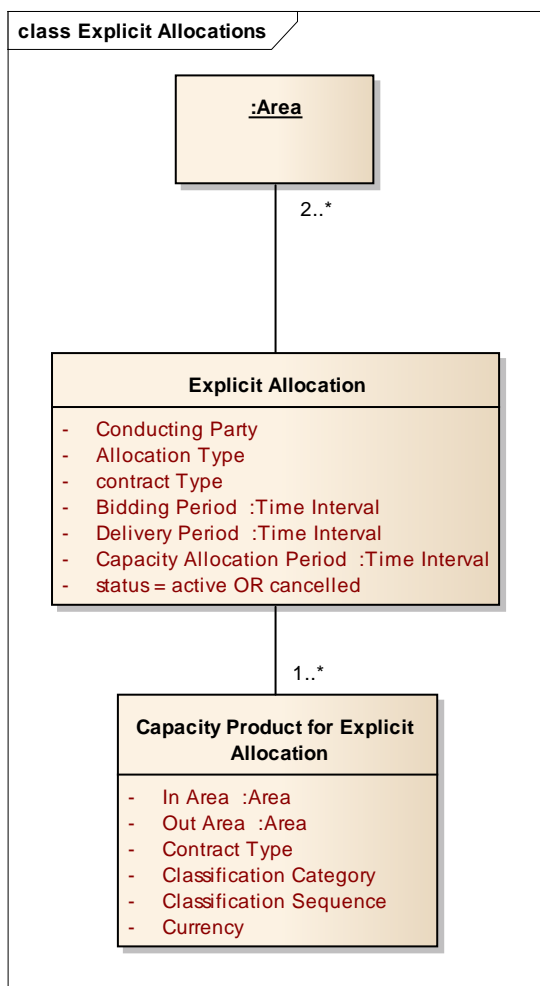


An implicit allocation offers daily and intraday capacity products only, each one being characterised by an In Area and an Out Area, and a Currency.

7.1.2.2 EXPLICIT ALLOCATIONS

An Explicit Allocation occurs between several (2 to n) Areas and is optionally associated with a Conducting Party¹².

¹² This is to cater for split auctions



896

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

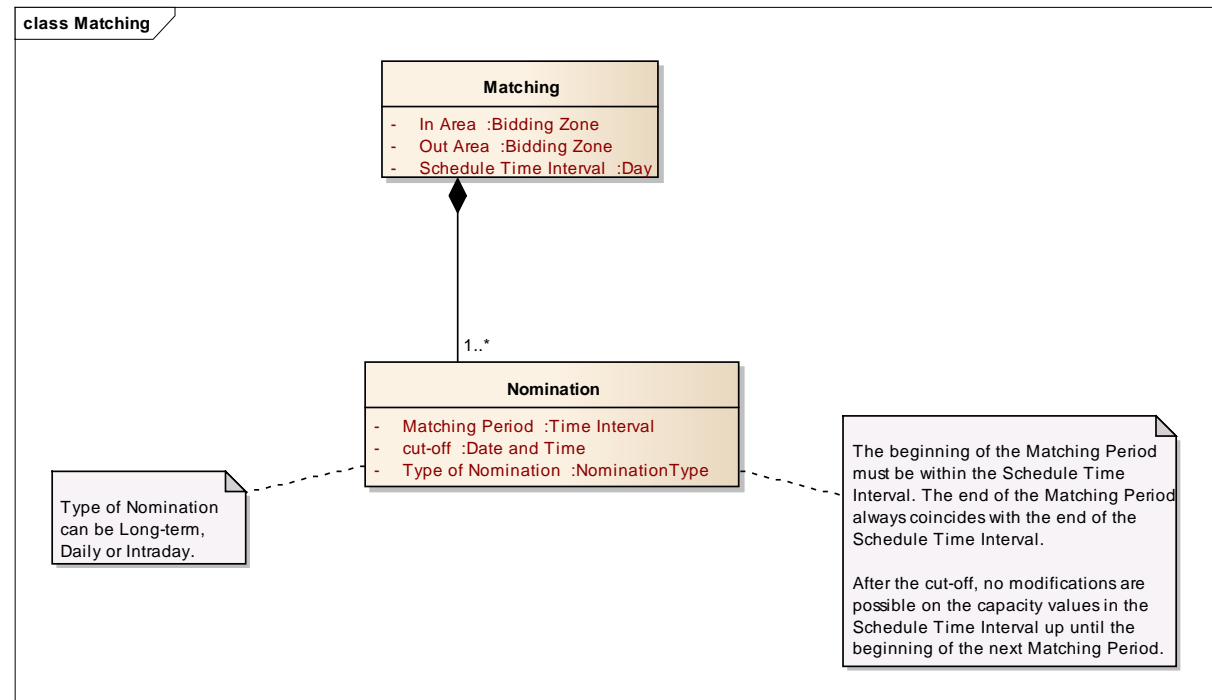
902 There are explicit allocations that formally speaking are not auctions and do not have a
903 bidding period – this is typically the case when the contract type is intraday.

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

908 The second special case is when Allocation Type is “continuous”. Prices or revenue will then
909 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.

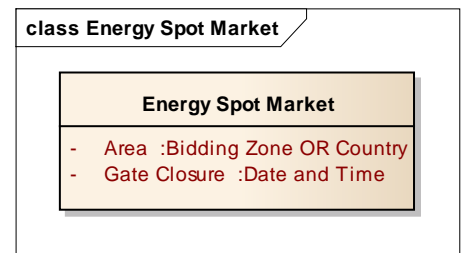
7.1.3 MATCHING



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.

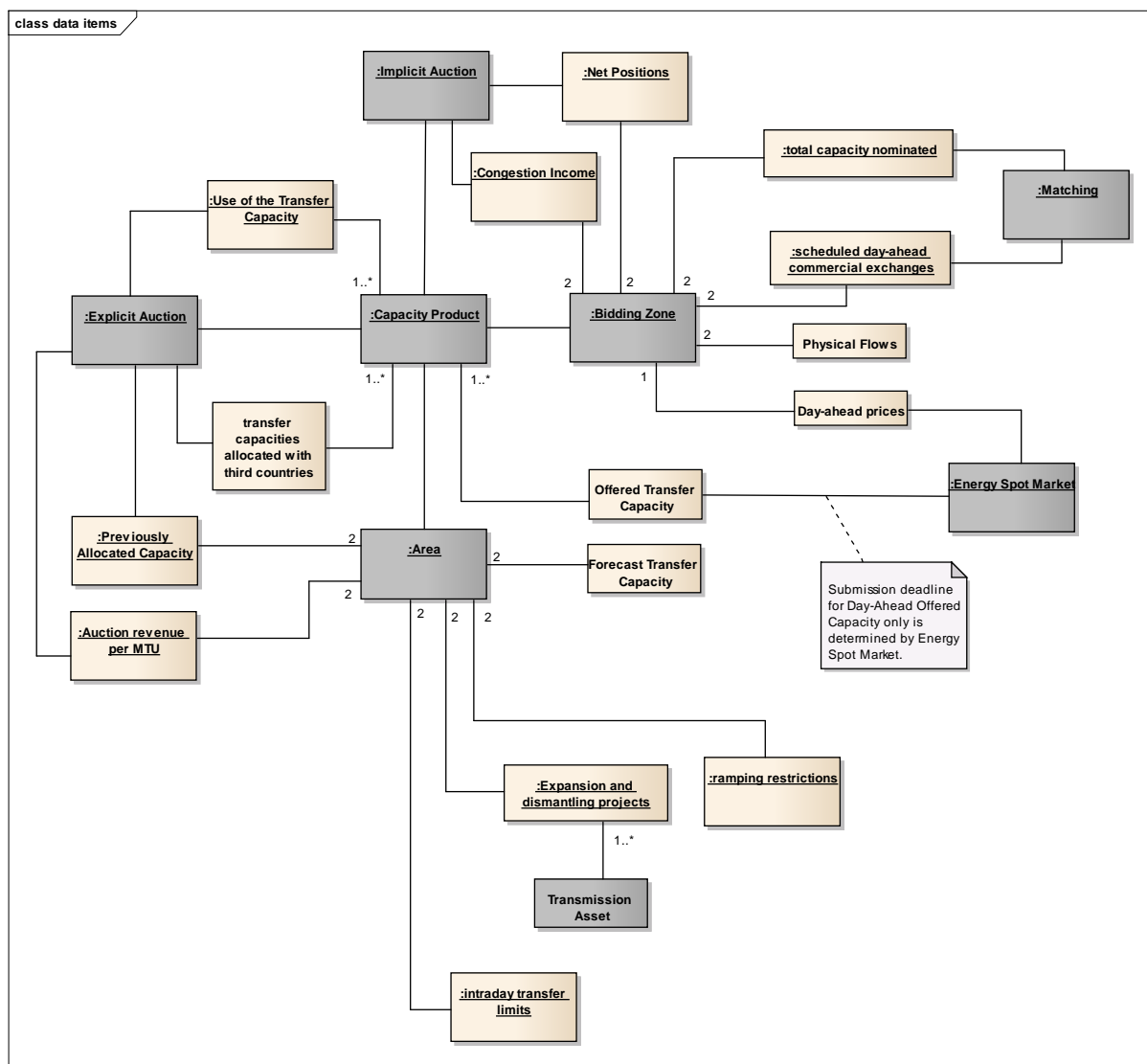
For a given couple of Bidding Zones and day (the Schedule Time Interval), the Matching Period represents the period of the Schedule for which matching process is completed. A Nominations process is considered finished for the Schedule Time Interval after the matching process is complete and until the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

7.1.4 ENERGY SPOT MARKET



926 In every Bidding Zone or Country¹³ there is an Energy Spot Market that has a daily gate
927 closure.

928 7.1.5 DATA ITEMS



929

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

¹³ This is the case for the bidding zone that covers Germany and Austria.

935 The applicable areas and submission deadlines of the data items that record offered transfer
936 capacities (chapters 7.7 through 7.12) will depend on the configuration of the allocation
937 process. Forecasted transfer capacities have their own independent configuration of
938 applicable areas and submission deadlines.

939 For implicit allocations, applicable bidding zones and submission deadlines for data items
940 Net Positions (see chapter 7.21) and Congestion Income (see chapter 7.22) depend on the
941 implicit auction's capacity products and capacity allocation period.

942 Similarly for explicit allocations, the applicable areas and submission deadlines for the data
943 items Previously Allocated Capacity (see chapter 7.19), Use of the Transfer Capacity (see
944 chapter 7.16) and Transfer Capacities Allocated with Third Countries (see chapter 7.25)
945 depend on the explicit allocation's capacity products and capacity allocation period.

946 The submission deadlines for the data items Total Nominated Capacity (see chapter 7.18)
947 and Scheduled Day-Ahead Commercial Exchanges (see chapter 7.23) depend on the
948 configuration of the matching process.

949 For the data item Day-Ahead Prices, (see chapter 7.20), the submission deadlines depend
950 on the Energy Spot Market configuration.

951 7.1.6 PRE-CONFIGURATION

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

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

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

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

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

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

976 - Allocations and associated Capacity Products. Details are provided in chapter 7.26

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

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

980 7.1.7 DATA CONTAINER STATUS / DATA STATUS

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

984 7.1.8 PUBLICATION

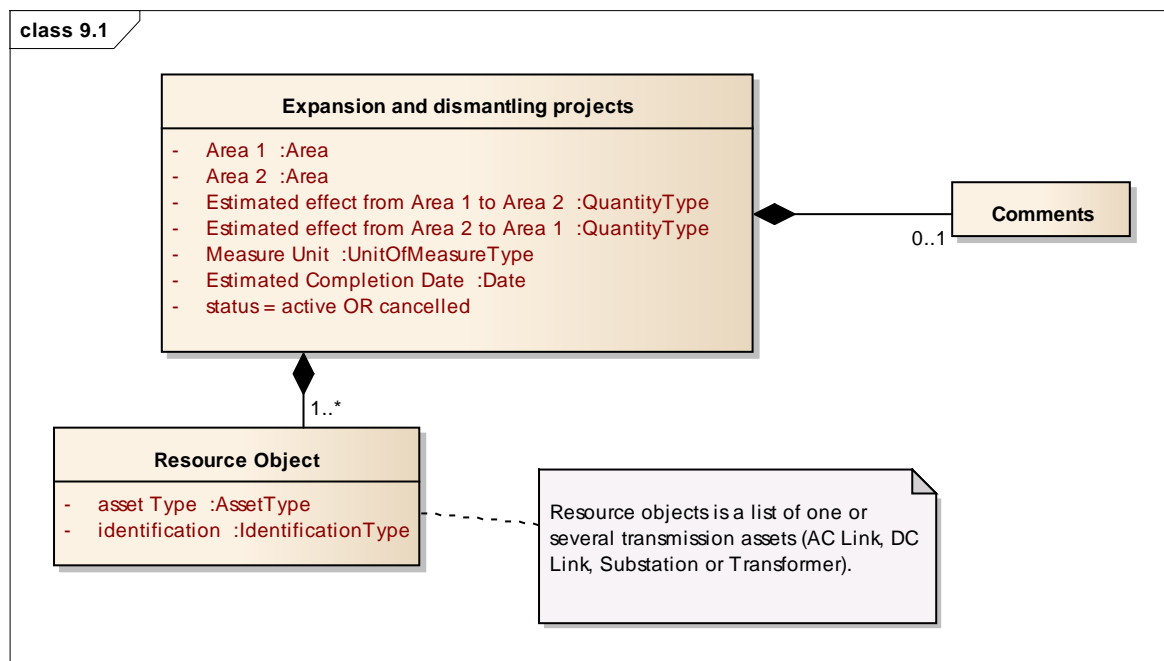
985 For all data items except the report data items [11.3] and [11.4], data shall be available on
986 web site in all three formats; table, map and chart, unless explicitly stated otherwise in the
987 chapters dedicated to each data item.

988

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 an estimated effect on the transfer capacity between two Areas, for each direction. The effect is expressed in a unit of measure (MW). Estimated effect can be positive as well as negative. 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.

7.2.2 PRE-CONFIGURATION

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

1007 7.2.3 ASSUMPTIONS

1008 Transmission Assets have been declared with the mechanism described in chapter 11.11.

1009 Monitoring is not feasible for this data item, since projects cannot be anticipated.

1010 If more than one Data Provider submits data for given border, those Data Providers will
1011 coordinate between themselves the submitted data. Single submission for all of ENTSO-E
1012 could also be coordinated at the level of ENTSO-E secretariat.

1013 7.2.4 INTEGRATION

1014 - Area couple shall be recognised by the platform

1015 - The Data Provider shall be consistent with the identified Area couple

1016 -

1017 - Transmission Assets are recognised by platform

1018 - Estimated effect is equal to or greater than 100 MW (configurable)

1019 7.2.5 MONITORING

1020 Monitoring is not performed on this data item.

1021 7.2.6 PROCESSING

1022 No processing is performed by the platform on this data item.

1023 7.2.7 PUBLICATION

1024 7.2.7.1 PUBLICATION BEHAVIOUR

1025 Latest version shall be published, however previous versions shall remain available on
1026 platform.

1027 7.2.7.2 FILTERING AND SORTING CRITERIA

1028 End user shall be able to select data for display by specifying:

1029 - Country (optional - If selected, In and/or Out Areas that at least partially cover the Country
1030 will be used as filtering criteria)

1031 - One or two Areas with direction (optional)

1032 - year or year range (mandatory)

1033 - status (optional)

1034 7.2.7.3 DISPLAY

1035 This data shall be displayed in the following section:

1036 Transmission / Expansion and dismantling projects

1037 The following attributes of data shall be displayed for all projects whose estimated
1038 completion date falls within the selected year or year range:

1039 - Title

1040 - Unit of measurement (MW)

1041 - status (active or cancelled)

1042 - For each couple of Areas and direction, the estimated effect and the estimated date of
1043 completion, and any comments. The concerned assets shall be published as a list, with links
1044 to pages providing further details on each asset.

1045 Data shall be displayed in table format only.

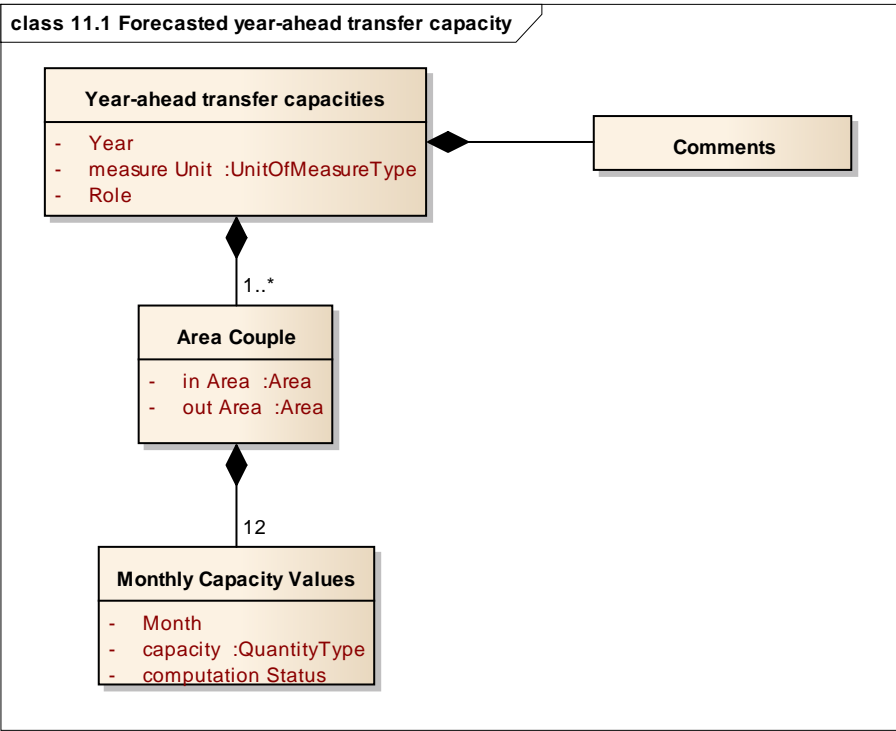
1046

7.3 FORECASTED YEAR-AHEAD TRANSFER CAPACITIES

[11.1]

7.3.1 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.

7.3.2 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.

1062 - For each couple of Areas mentioned above, the yearly submission deadline:

1063 At the latest one week (W-1) before the yearly allocation process

1064 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
1065 *Zone, the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity*
1066 *Allocation Period from 15th November 2012, 20:00 UTC until 18th November 22:00 UTC,*
1067 *the document shall be submitted before November 8th, 2012, 20:00 UTC.*

1068 or

1069 at the latest December 15 the preceding year at 24:00 UTC.

1070 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1071 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*
1072 *submitted before December 15th, 2012, 24:00 UTC.*

1073 7.3.3 ASSUMPTIONS

1074 Values should be given per month, but a higher resolution is possible (up to the Market Time
1075 Unit used by the couple of Areas).

1076 Submission can be done by multiple Data Providers.

1077 7.3.4 INTEGRATION

1078 - Areas shall be recognised by the platform

1079 - The Data Provider shall be consistent with pre-configuration described in 7.3.2

1080 - The time interval of the submitted document is one year

1081 - Role of Data Provider is recognised, as per [C-TRM-12]

1082 7.3.5 MONITORING

1083 Platform shall monitor that forecasted yearly transfer capacity values are submitted for all
1084 area couples declared in pre-configuration, see section 7.3.2, before the submission deadline
1085 described in same section. If no data has been submitted, all declared Data Providers will be
1086 notified.

1087 7.3.6 PROCESSING

1088 The following processing applies:

1089 - In case the resolution of the submitted document is higher than a month, the lowest value of
1090 the submitted data should be calculated for each month. For example if data is submitted in
1091 daily values a computation must be made to compute the lowest daily value for every given

1092 month of the submitted year. This makes it possible to compare this data with data submitted
1093 with a monthly resolution.

1094 - Once values are computed per month, the platform must apply the following business rule
1095 [PR-11.1], when processing submitted data for a given oriented couple of Areas and month
1096 in order to determine whether data shall be marked as "minimum value" or "computed
1097 minimum value".

1098 • If data is received for a given couple of Areas from a Data Provider the data will be
1099 marked (computation status) as "minimum value".

1100 • If data is received for the same oriented couple of Areas, from a different Data
1101 Provider the platform must compute the 'minimum' value from the two received values
1102 and isolate this value as the value to be published with a "computed minimum value"
1103 computation status. The previously marked "minimum value" computation status must
1104 be deleted.

1105 • If data is marked as "minimum value" and the same Data Provider sends a new
1106 version to the platform, the platform will consider this latest version for publication by
1107 marking it as "minimum value" and delete the previous "minimum value" computation
1108 status.

1109 • If data is computed and marked as "computed minimum value" and either Data
1110 Provider involved sends a new version of the document, the platform must compute
1111 the 'minimum' value from the received value and the value from the other Data
1112 Provider and will isolate this value as the value to be published, with the "computed
1113 minimum value" computation status. The "computed minimum value" computation
1114 status must be deleted from the previous version of the value.

1115 • If data is received for a given couple of Areas from a Data Provider with the role
1116 "Capacity Coordinator (CCrd) or "Transmission Capacity Allocator (TCA)", the data
1117 will be marked as "computed minimum value".

1118 • If data is marked as "computed minimum value" and the Data Provider with the role
1119 "CCrd" or "TCA" sends a new version to the platform, the platform will consider this
1120 latest version of the information for display by marking it as "computed minimum
1121 value" and delete from the previous version the "computed minimum value"
1122 computation status.

1123

1124 7.3.7 PUBLICATION

1125 7.3.7.1 PUBLICATION BEHAVIOUR

1126 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1127 computation status. Data without any computation status shall not be published. This rule
1128 takes precedence over the common rule which states that all versions of the data are
1129 available on the platform.

1130 7.3.7.2 FILTERING AND SORTING CRITERIA

1131 Data shall be visually accessed by selecting the following:

1132 Year (Selection is mandatory)

1133 Country (selection is optional: If selected, Areas will be filtered to include only those that
1134 partially or completely cover the Country)

1135 Optionally, user may specify Area, couple of Areas and direction.

1136 7.3.7.3 DISPLAY

1137 This data shall be displayed in the following section:

1138 - **Forecasted transfer capacities / year-ahead**

1139 The following attributes of data shall be displayed:

1140 - Title

1141 - Measurement Unit

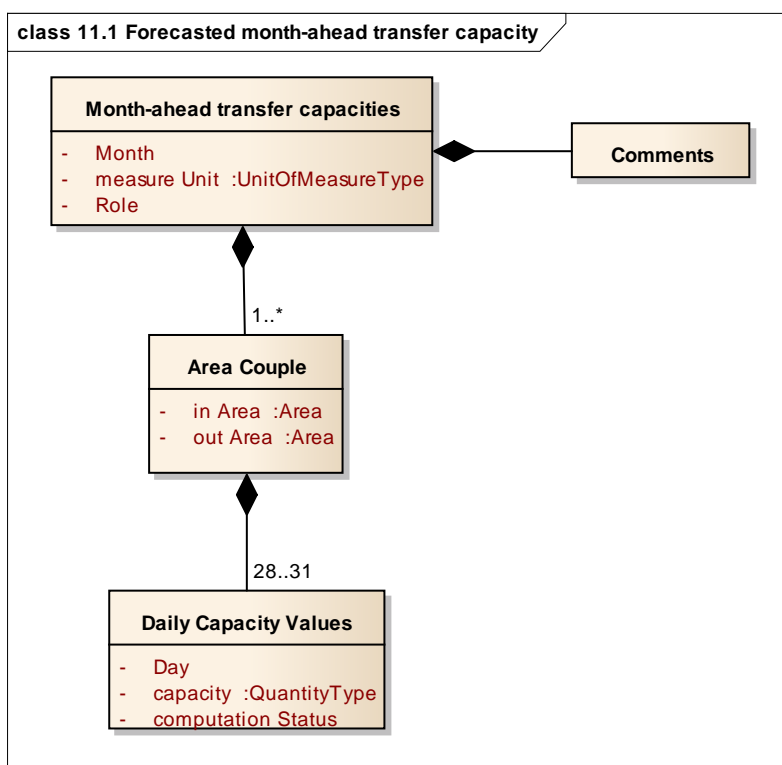
1142 - Comments

1143 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1144 each month within the selected year, the capacity value and its computation status
1145

7.4 FORECASTED MONTH-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 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.

7.4.2 PRE-CONFIGURATION

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

- 1162 - For each couple of Areas mentioned above, one or several Data Providers
- 1163 - For each couple of Areas mentioned above, the monthly submission deadline:
- 1164 For a given month, submission must be done at the latest two working days (D-2) before
- 1165 the monthly allocation process.
- 1166 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
- 1167 *Zone, the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a*
- 1168 *Capacity Allocation Period from March 15th 20:00 UTC to March 18th 20:00 UTC, the*
- 1169 *document shall be submitted before March 13th, 2012, 20:00 UTC.*

1170 7.4.3 ASSUMPTIONS

- 1171 Values should be given per day, but a higher resolution is possible (up to the Market Time
- 1172 Unit used by the couple of Areas).
- 1173 Submission can be done by multiple Data Providers.

1174 7.4.4 INTEGRATION

- 1175 - Areas shall be recognised by the platform
- 1176 - The Data Provider shall be consistent with pre-configuration described in 7.4.2
- 1177 - The time interval of the submitted document is one month
- 1178 - Role of Data Provider is recognised, as per [C-TRM-12]

1179 7.4.5 MONITORING

- 1180 Platform shall monitor that forecasted monthly transfer capacity values are submitted for all
- 1181 area couples declared in pre-configuration, see section 7.4.2, before the submission deadline
- 1182 described in same section. If no data has been submitted, all declared Data Providers will be
- 1183 notified.

1184 7.4.6 PROCESSING

- 1185 The following processing applies:
- 1186 - In case the resolution of the submitted document is higher than a day, the lowest value of
- 1187 the submitted data should be calculated for each day. For example if data is submitted per
- 1188 MTU period a computation must be made to compute the lowest daily value for every given
- 1189 day of the submitted month. This makes it possible to compare this data with data submitted
- 1190 with a daily resolution.

1191 - Once values are computed per day, the platform must apply the business rule [PR-11.1],
1192 refer to chapter 7.3.6, when processing submitted data for a given oriented couple of Areas
1193 and day in order to determine whether data shall be marked as “minimum value” or
1194 “computed minimum value”.

1195 7.4.7 PUBLICATION

1196 7.4.7.1 PUBLICATION BEHAVIOUR

1197 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1198 computation status. Data without any computation status shall not be published. This rule
1199 takes precedence over the common rule which states that all versions of the data are
1200 available on the platform.

1201 7.4.7.2 FILTERING AND SORTING CRITERIA

1202 Data shall be visually accessed by selecting the following:

1203 Month (Selection is mandatory)

1204 Country (selection is optional: If selected, Areas will be filtered to include only those that
1205 partially or completely cover the Country)

1206 Optionally, user may specify Area, couple of Areas and direction.

1207 7.4.7.3 DISPLAY

1208 This data shall be displayed in the following section:

1209 - **Forecasted transfer capacities / month-ahead**

1210 The following attributes of data shall be displayed:

1211 - Title

1212 - Month

1213 - Measurement Unit

1214 - Comments

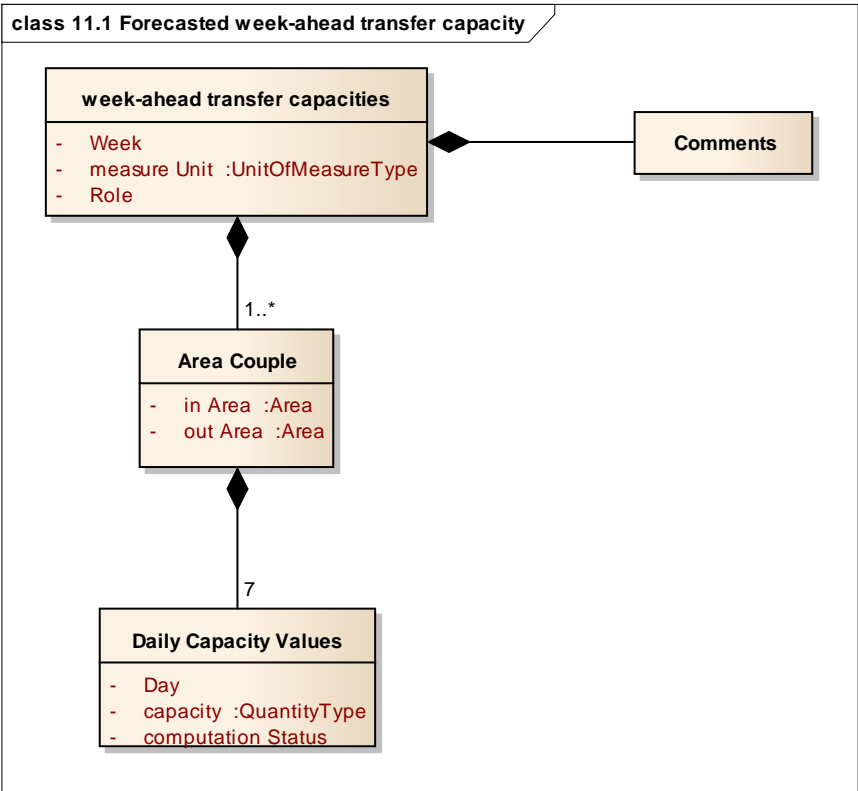
1215 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1216 each day within the selected month the capacity value and its computation status
1217

7.5 FORECASTED WEEK-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 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.

7.5.2 PRE-CONFIGURATION

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

- 1233 - For each couple of Areas mentioned above, one or several Data Providers
- 1234 - For each couple of Areas mentioned above, the weekly submission deadline: Friday before
- 1235 the week for which values refer to.
- 1236 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
- 1237 *and the week for which forecasts are to be provided is Week 11, 2012 (12th of March to 18th*
- 1238 *of March), the document shall be submitted before Friday March 9th, 2012, 24:00 UTC.*

1239 7.5.3 ASSUMPTIONS

- 1240 Values should be given per day, but a higher resolution is possible (up to the Market Time
- 1241 Unit used by the couple of Areas).

- 1242 Submission can be done by multiple Data Providers.

1243 7.5.4 INTEGRATION

- 1244 - Areas shall be recognised by the platform
- 1245 - The Data Provider shall be consistent with pre-configuration described in 7.5.2
- 1246 - The time interval of the submitted document is one week
- 1247 - Role of Data Provider is recognised, as per [C-TRM-12]

1248 7.5.5 MONITORING

- 1249 Platform shall monitor that forecasted weekly transfer capacity values are submitted for all
- 1250 area couples declared in pre-configuration, see section 7.5.2, before the submission deadline
- 1251 described in same section. If no data is submitted, all declared Data Providers will be
- 1252 notified.

1253 7.5.6 PROCESSING

- 1254 The following processing applies:
- 1255 - In case the resolution of the submitted document is higher than a day, the lowest value of
- 1256 the submitted data should be calculated for each day. For example if data is submitted in
- 1257 hourly values a computation must be made to compute the lowest hourly value for every
- 1258 given day of the submitted week. This makes it possible to compare this data with data
- 1259 submitted with a daily resolution.
- 1260 - Once values are computed per day, the platform must apply the business rules [PR-11.1],
- 1261 refer to chapter 7.3.6, when processing submitted data for a given oriented couple of Areas
- 1262 and day in order to determine whether data shall be marked as "minimum value" or
- 1263 "computed minimum value".

1264 7.5.7 PUBLICATION

1265 7.5.7.1 PUBLICATION BEHAVIOUR

1266 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1267 computation status. Data without any computation status shall not be published. This rule
1268 takes precedence over the common rule which states that all versions of the data are
1269 available on the platform.

1270 7.5.7.2 FILTERING AND SORTING CRITERIA

1271 Data shall be visually accessed by selecting the following:

1272 Week (Selection is mandatory)

1273 Country (selection is optional: If selected, Areas will be filtered to include only those that
1274 partially or completely cover the Country)

1275 Optionally, user may specify Area, couple of Areas and direction.

1276 7.5.7.3 DISPLAY

1277 This data shall be displayed in the following section:

1278 - **Forecasted transfer capacities / week-ahead**

1279 The following attributes of data shall be displayed:

1280 - Title

1281 - Week

1282 - Measurement Unit

1283 - Comments

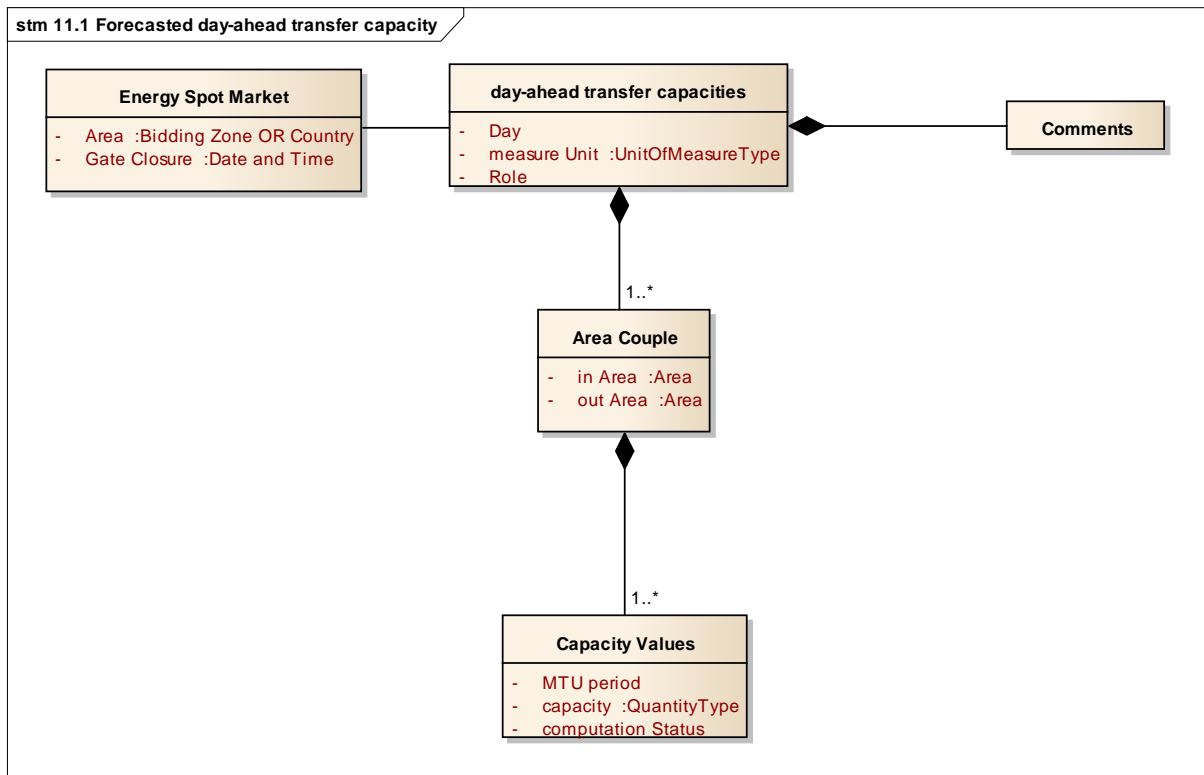
1284 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1285 each day within the week the capacity value and its computation status
1286

7.6 FORECASTED DAY-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 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.

7.6.2 PRE-CONFIGURATION

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

1303 - For each couple of Areas mentioned above, one or several Data Providers

1304 - For each couple of Areas mentioned above, the daily submission deadline: 1 hour before
1305 spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of energy
1306 spot markets.

1307 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1308 *and if spot energy market gate closure is 10:00 UTC March 12th for the time interval of*
1309 *March 13th, 2012, the document shall be submitted before March 12th, 2012, 09:00 UTC.*

1310 7.6.3 ASSUMPTIONS

1311 Submission can be done by multiple Data Providers.

1312 7.6.4 INTEGRATION

1313 - Areas shall be recognised by the platform

1314 - The Data Provider shall be consistent with pre-configuration described in 7.5.2

1315 - The time interval of the submitted document is one day

1316 - Role of Data Provider is recognised, as per [C-TRM-12]

1317 7.6.5 MONITORING

1318 Platform shall monitor that forecasted daily transfer capacity values are submitted for all area
1319 couples declared in pre-configuration, see section 7.5.2, before the submission deadline
1320 described in same section. If no data is submitted, all declared Data Providers will be
1321 notified.

1322 7.6.6 PROCESSING

1323 The platform must apply the business rules [PR-11.1], refer to chapter 7.3.6, when
1324 processing submitted data for a given oriented couple of Areas and day in order to determine
1325 whether data shall be marked as “minimum value” or “computed minimum value”.

1326 7.6.7 PUBLICATION

1327 7.6.7.1 PUBLICATION BEHAVIOUR

1328 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1329 computation status. Data without any computation status shall not be published. This rule
1330 takes precedence over the common rule which states that all versions of the data are
1331 available on the platform.

1332 7.6.7.2 FILTERING AND SORTING CRITERIA

1333 Data shall be visually accessed by selecting the following:

1334 Day (Selection is mandatory)

1335 Country (selection is optional: If selected, Areas will be filtered to include only those that
1336 partially or completely cover the Country)

1337 Optionally, user may specify Area, couple of Areas and direction.

1338 7.6.7.3 DISPLAY

1339 This data shall be displayed in the following section:

1340 - **Forecasted transfer capacities / day-ahead**

1341 The following attributes of data shall be displayed:

1342 - Title

1343 - Day

1344 - Measurement Unit

1345 - Comments

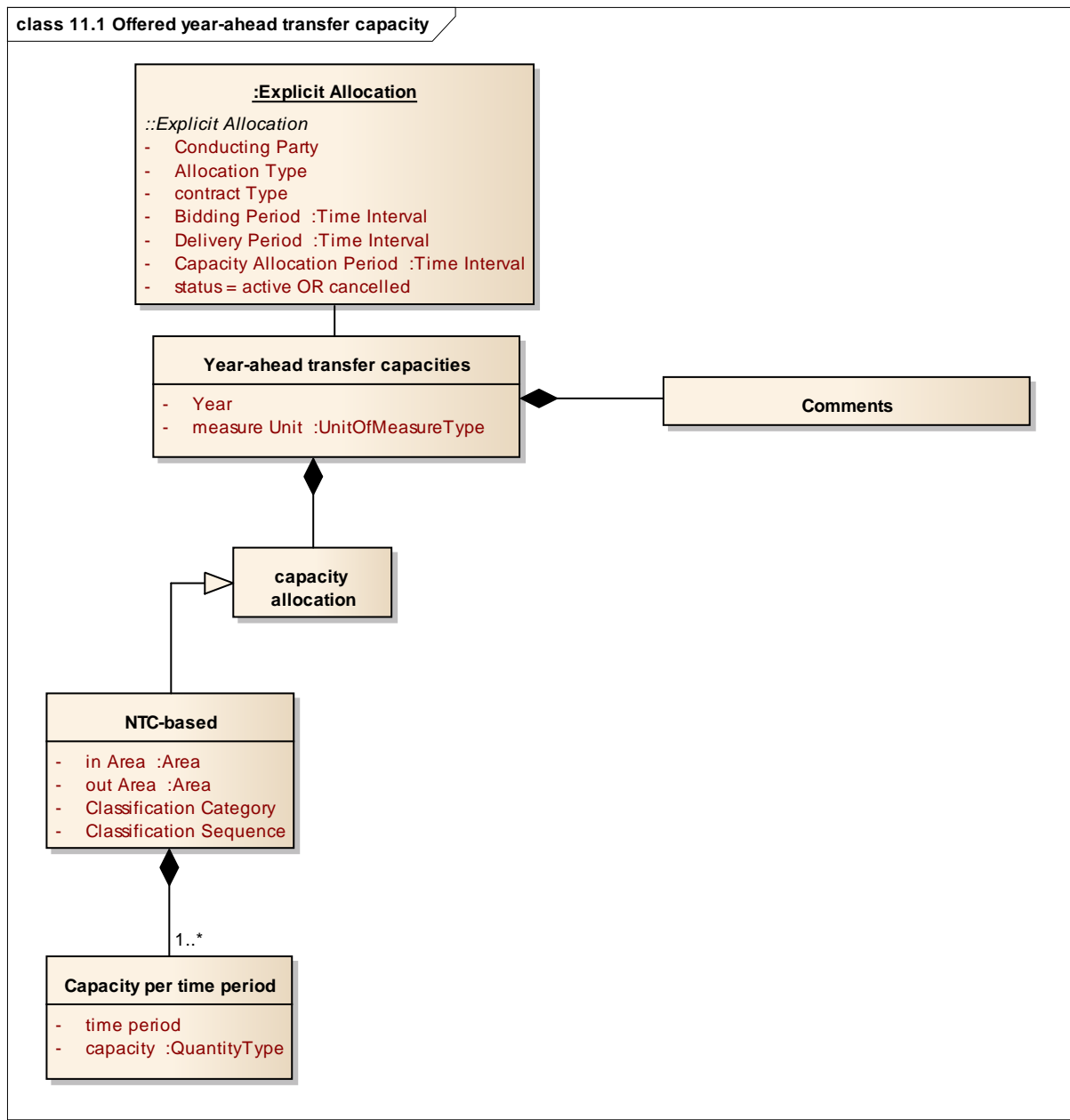
1346 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1347 each MTU period within the day the capacity value and its computation status
1348

7.7 OFFERED YEAR-AHEAD TRANSFER CAPACITIES

[11.1]

7.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

- 1355 Yearly offered transfer capacities are associated with a yearly explicit transmission auction.
- 1356 Offered year-ahead transfer capacities are described between an In Area (the Area flows
1357 come into) and an out Area (the Area flows come out), for one year, with a single capacity
1358 value for the whole year expressed in Measure Unit.
- 1359 Capacity values are submitted separately per Classification Category and Classification
1360 Sequence.
- 1361 Optionally, offered year-ahead transfer capacities can be complemented with comments.
- 1362 **Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.

1363 7.7.2 PRE-CONFIGURATION

- 1364 - Year-ahead transfer capacities are expected for all couples of Areas covered by a yearly
1365 auction's capacity products. Refer to chapter 7.26.1.2 for details on the configuration of an
1366 auction's capacity products.
- 1367 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1368 configuration. Refer to chapter 7.26.1.3 for details.
- 1369 The submission deadline is one week (W-1) before the yearly allocation process, but no later
1370 than the 15th of December. Therefore, there shall be a default submission deadline set to one
1371 week before the start of the yearly auction's capacity allocation period. Additionally, it must
1372 be possible to specify another deadline that supersedes the default.
- 1373 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
1374 *Zone, the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity*
1375 *Allocation Period from November 2012, 15th 20:00 UTC to 18th 22:00 UTC, the document*
1376 *shall be submitted before November 8th, 2012, 20:00 UTC.*
- 1377 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1378 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*
1379 *submitted before December 15th, 2012, 24:00 UTC.*
- 1380 The submission deadline is the same for all area couples covered by the auction's
1381 capacity products.

1382 7.7.3 ASSUMPTIONS

- 1383 A single value should be provided for the whole year, but a higher resolution is possible (up
1384 to the Market Time Unit used by the couple of Areas).
- 1385 There is not more than one Data Provider per auction instance.

1386 7.7.4 INTEGRATION

- 1387 - Areas shall be recognised by the platform
- 1388 - The Data Provider shall be consistent with the auction configuration
- 1389 - The time interval of the submitted document is one year

1390 7.7.5 MONITORING

- 1391 For a given instance of an auction, platform shall monitor that offered transfer capacity
- 1392 values are submitted for all area couples as deduced from the auction's capacity products.
- 1393 The submission deadline described in section 7.7.2 will be monitored.
- 1394 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
- 1395 Classification Categories and Classification Sequences).

1396 7.7.6 PROCESSING

- 1397 No processing is performed on this data item.

1398 7.7.7 PUBLICATION

1399 7.7.7.1 PUBLICATION BEHAVIOUR

- 1400 No specific publication behaviour applies.

1401 7.7.7.2 FILTERING AND SORTING CRITERIA

- 1402 Data shall be visually accessed by selecting the following:
- 1403 Year (Selection is mandatory)
- 1404 Country (selection is optional: If selected, Areas will be filtered to include only those that
- 1405 partially or completely cover the Country)
- 1406 Optionally, user may specify Area, couple of Areas and direction.

1407 7.7.7.3 DISPLAY

- 1408 This data shall be displayed in the following section:
- 1409 - **offer of transfer capacities / year-ahead**
- 1410 The following attributes of data shall be displayed:
- 1411 - Title

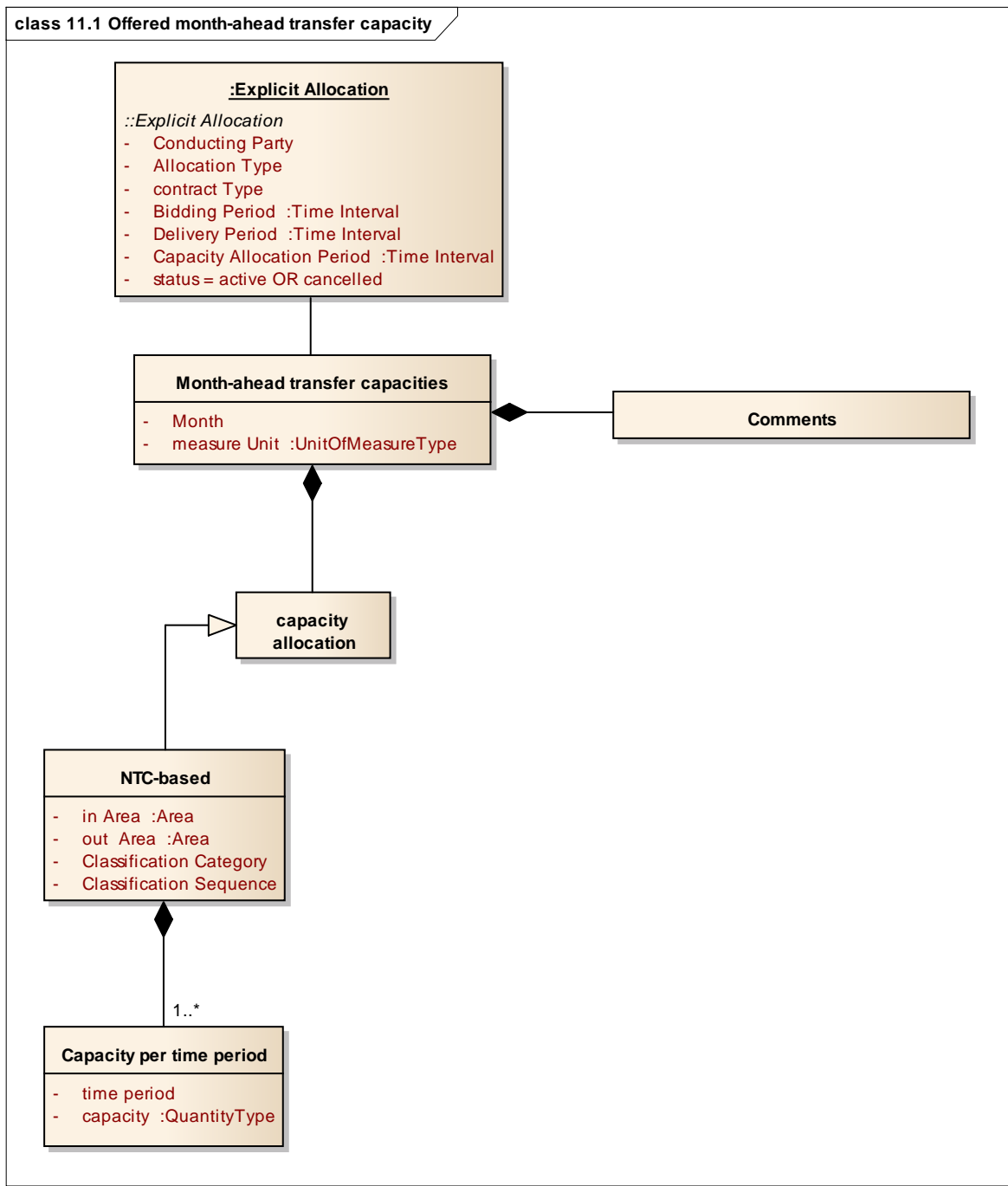
- 1412 - Measurement Unit
- 1413 - Comments
- 1414 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
- 1415 capacity value (for every classification category and classification sequence)
- 1416 If capacity values vary during the year, it shall be possible to expand the view so that they
- 1417 are displayed as a curve and in a table.
- 1418

7.8 OFFERED MONTH-AHEAD TRANSFER CAPACITIES

[11.1]

7.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



- 1424 The document shall cover the offered capacities related to one auction only.
- 1425 Monthly offered transfer capacities are associated with a monthly explicit transmission
1426 auction.
- 1427 Offered month-ahead transfer capacities are described between an In Area (the Area flows
1428 come into) and an out Area (the Area flows come out from), for one month, with a single
1429 capacity value expressed in Measure Unit.
- 1430 Capacity values are submitted separately per Classification Category and Classification
1431 Sequence.
- 1432 Optionally, offered month-ahead transfer capacities can be complemented with comments.
- 1433 **Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

1434 7.8.2 PRE-CONFIGURATION

- 1435 - Month-ahead offered transfer capacities are expected for all couples of Areas covered by a
1436 monthly auction's capacity products. Refer to chapter 7.26.1.2 for details on the configuration
1437 of an auction's capacity products.
- 1438 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1439 configuration. Refer to chapter 7.26.1.3 for details.
- 1440 For a given month, submission must be done at the latest two working days (D-2) before
1441 the start of the Allocation Period of the associated monthly explicit auction bidding.
- 1442 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
1443 *Zone, the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a*
1444 *Capacity Allocation Period from March 15th 20:00 UTC to March 18th 20:00 UTC, the*
1445 *document shall be submitted before March 13th, 2012, 20:00 UTC.*
- 1446 The submission deadline applies to all area couples covered by the auction.

1447 7.8.3 ASSUMPTIONS

- 1448 A single value should be given for the whole month, but a higher resolution is possible (up to
1449 the Market Time Unit used by the couple of Areas).
- 1450 There is not more than one Data Provider per auction instance.

1451 7.8.4 INTEGRATION

- 1452 - Areas shall be recognised by the platform
- 1453 - The Data Provider shall be consistent with the auction configuration

1454 - The time interval of the submitted document is one month

1455 7.8.5 MONITORING

1456 For a given instance of an auction, platform shall monitor that offered transfer capacity
1457 values are submitted for all area couples as deduced from the auction's capacity products.
1458 There is a submission deadline as described in section 7.8.2.

1459 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1460 Classification Categories and Classification Sequences).

1461 7.8.6 PROCESSING

1462 No processing is performed on this data item.

1463 7.8.7 PUBLICATION

1464 7.8.7.1 PUBLICATION BEHAVIOUR

1465 No specific publication behaviour applies.

1466 7.8.7.2 FILTERING AND SORTING CRITERIA

1467 Data shall be visually accessed by selecting the following:

1468 Month (Selection is mandatory)

1469 Country (selection is optional: If selected, Areas will be filtered to include only those that
1470 partially or completely cover the Country)

1471 Optionally, user may specify Area, couple of Areas and direction.

1472 7.8.7.3 DISPLAY

1473 This data shall be displayed in the following section:

1474 - **offer of transfer capacities / month-ahead**

1475 The following attributes of data shall be displayed:

1476 - Title

1477 - Month

1478 - Measurement Unit

1479 - Comments

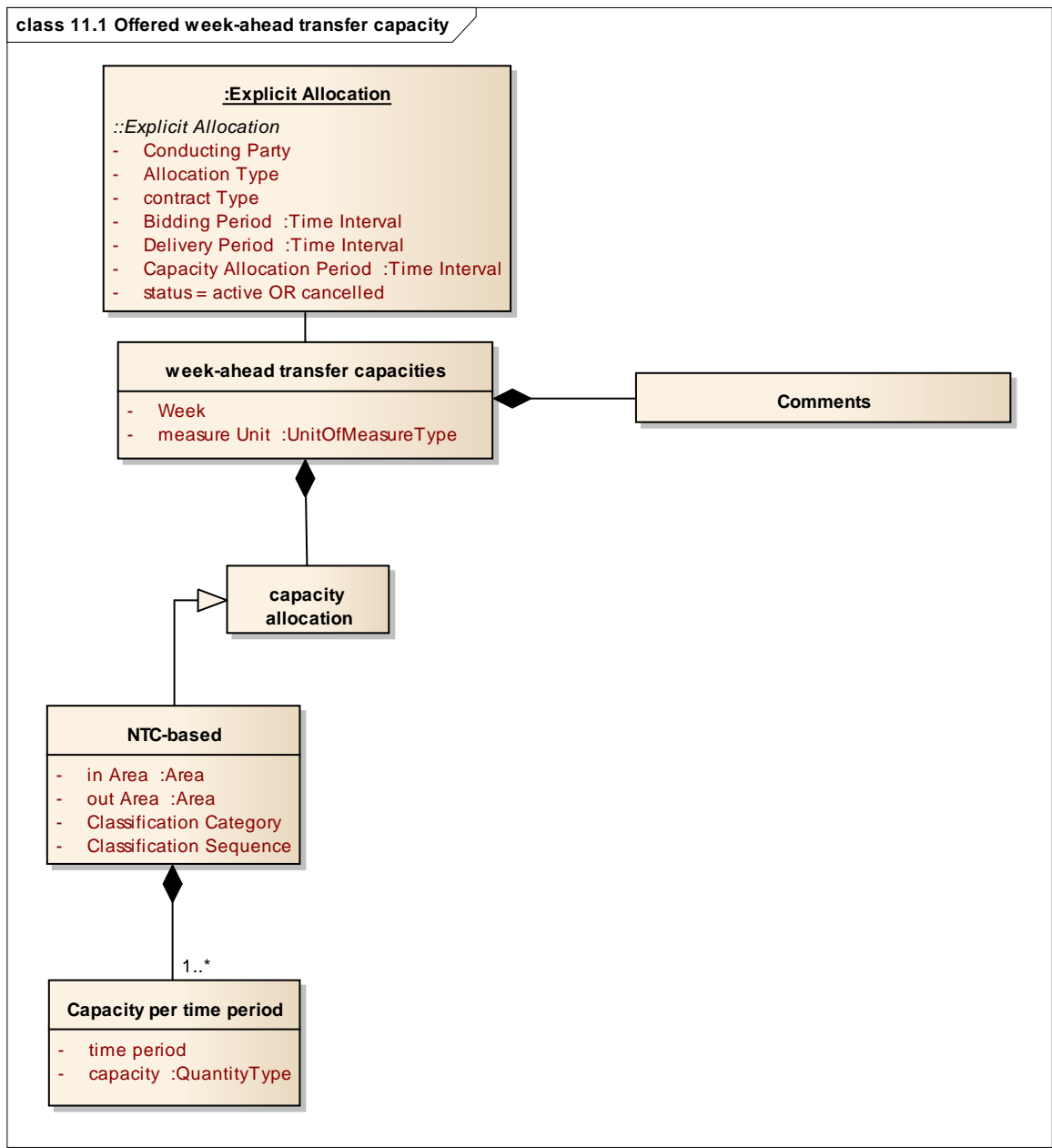
- 1480 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
1481 capacity value (for every classification category and classification sequence)
- 1482 If capacity values vary during the month, it shall be possible to expand the view so that they
1483 are displayed as a curve and in a table.

7.9 OFFERED WEEK-AHEAD TRANSFER CAPACITIES

[11.1]

7.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

1490 Weekly offered transfer capacities are associated with a weekly explicit transmission auction.

1491 Offered week-ahead transfer capacities are described between an In Area (the Area flows
1492 come into) and an out Area (the Area flows come out from), for one week, with a single
1493 capacity value for the whole week expressed in Measure Unit.

1494 Capacity values are submitted separately per Classification Category and Classification
1495 Sequence.

1496 Optionally, offered week-ahead transfer capacities can be complemented with comments.

1497 **Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

1498 7.9.2 PRE-CONFIGURATION

1499 - Week-ahead offered transfer capacities are expected for all couples of Areas covered by a
1500 weekly auction's capacity products. Refer to chapter 7.26.1.2 for details on the configuration
1501 of an auction's capacity products.

1502 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1503 configuration. Refer to chapter 7.26.1.3 for details.

1504 - The submission deadline for offered week-ahead transfer capacity is one day (D-1) before
1505 the weekly allocation process:

1506 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding*
1507 *Zone, the weekly capacity allocation period starts on Friday 10:00 UTC and the week for*
1508 *which offers are to be provided is Week 11, 2012 (12th of March to 18th of March), the*
1509 *document shall be submitted before Thursday March 8th, 2012, 10:00 UTC.*

1510 The submission deadline is the same for all couples of Areas covered by the auction's
1511 capacity products.

1512 7.9.3 ASSUMPTIONS

1513 A single value should be provided for the whole week, but a higher resolution is possible (up
1514 to the Market Time Unit used by the couple of Areas).

1515 There is not more than one Data Provider per auction instance.

1516 7.9.4 INTEGRATION

1517 - Areas shall be recognised by the platform

1518 - The Data Provider shall be consistent with the capacity allocation configuration

1519 - The time interval of the submitted document is one week

1520 7.9.5 MONITORING

1521 For a given instance of an auction, platform shall monitor that offered transfer capacity
1522 values are submitted for all area couples as deduced from the auction's capacity products.
1523 The submission deadline described in section 7.9.2 will be monitored.

1524 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1525 Classification Categories and Classification Sequences).

1526 7.9.6 PROCESSING

1527 No processing is performed on this data item.

1528 7.9.7 PUBLICATION

1529 7.9.7.1 PUBLICATION BEHAVIOUR

1530 No specific publication behaviour applies.

1531 7.9.7.2 FILTERING AND SORTING CRITERIA

1532 Data shall be visually accessed by selecting the following:

1533 Week (Selection is mandatory)

1534 Country (selection is optional: If selected, Areas will be filtered to include only those that
1535 partially or completely cover the Country)

1536 Optionally, user may specify Area, couple of Areas and direction.

1537 7.9.7.3 DISPLAY

1538 This data shall be displayed in the following section:

1539 - offer of transfer capacities / week-ahead

1540 The following attributes of data shall be displayed:

1541 - Title

1542 - Week

1543 - Measurement Unit

1544 - Comments

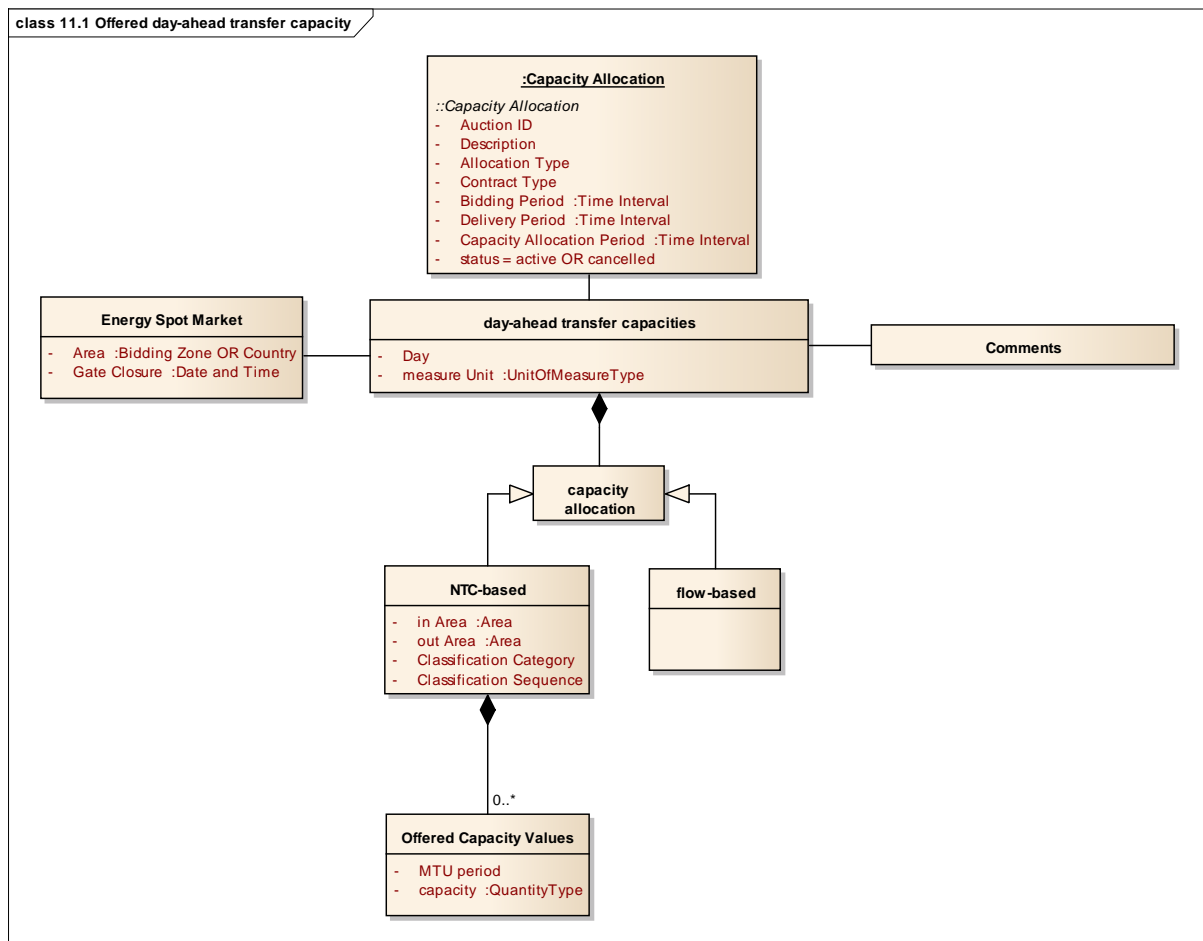
1545 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
1546 capacity value (for every classification category and classification sequence)

- 1547 If capacity values vary during the week, it shall be possible to expand the view so that they
1548 are displayed as a curve and in a table.

7.10 Offered DAY-AHEAD TRANSFER CAPACITY [11.1]

7.10.1 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).

1562 NTC-based values are applicable between two Areas.

1563 Optionally, Offered day-ahead transfer capacity can be complemented with comments.

1564 In some situations there may not be any capacity values to submit because of no allocation
1565 on a specific day.

1566 **Notes:**

1567 - At the time of writing (November 2012), analysis of data model for flow-based
1568 capacity parameters had not been completed.

1569 **7.10.2 PRE-CONFIGURATION**

1570 - Day-ahead transfer capacities are expected for all couples of Areas covered by a daily
1571 auction's capacity products. Refer to chapter 7.26.1.2 for details on the configuration of an
1572 auction's capacity products.

1573 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1574 configuration. Refer to chapter 7.26.1.3 for details.

1575 The submission deadline for offered day-ahead transfer capacity is 1 hour (H-1) before
1576 energy spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of
1577 energy spot markets.

1578 *Example: if the oriented couple of Areas is France Bidding Area to Germany Bidding*
1579 *Area, and if spot energy market gate closure is 10:00 UTC March 12th for the time interval*
1580 *of March 13th, 2012, the document shall be submitted before March 12th, 2012, 09:00*
1581 *UTC.*

1582 **7.10.3 ASSUMPTIONS**

1583 There is not more than one Data Provider per auction instance.

1584 The deadline determined by spot market gate closure is the same for In Area and Out Area.

1585 **7.10.4 INTEGRATION**

1586 - Areas shall be recognised by the platform

1587 - The Data Provider shall be consistent with the auction configuration

1588 - The time interval of the submitted document is one day

1589 7.10.5 MONITORING

1590 For a given instance of an auction, platform shall monitor that transfer capacity values are
1591 submitted for all area couples as deduced from the auction's capacity products. The
1592 submission deadline as described in section 7.10.2 will be monitored.

1593 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1594 Classification Categories and Classification Sequences). This is applicable for explicit
1595 auctions.

1596 7.10.6 PROCESSING

1597 No processing is performed on this data item.

1598 7.10.7 PUBLICATION

1599 7.10.7.1 PUBLICATION BEHAVIOUR

1600 No specific publication behaviour applies.

1601 7.10.7.2 FILTERING AND SORTING CRITERIA

1602 Data shall be visually accessed by selecting the following:

1603 Day (Selection is mandatory)

1604 Country (selection is optional: If selected, Areas will be filtered to include only those that
1605 partially or completely cover the Country)

1606 Optionally, user may specify Area, couple of Areas and direction.

1607 7.10.7.3 DISPLAY

1608 This data shall be displayed in the following section:

1609 - **offer of transfer capacities / Day-ahead**

1610 The following attributes of data shall be displayed:

1611 - Title

1612 - Day selection

1613 - Measurement Unit

1614 - Comments

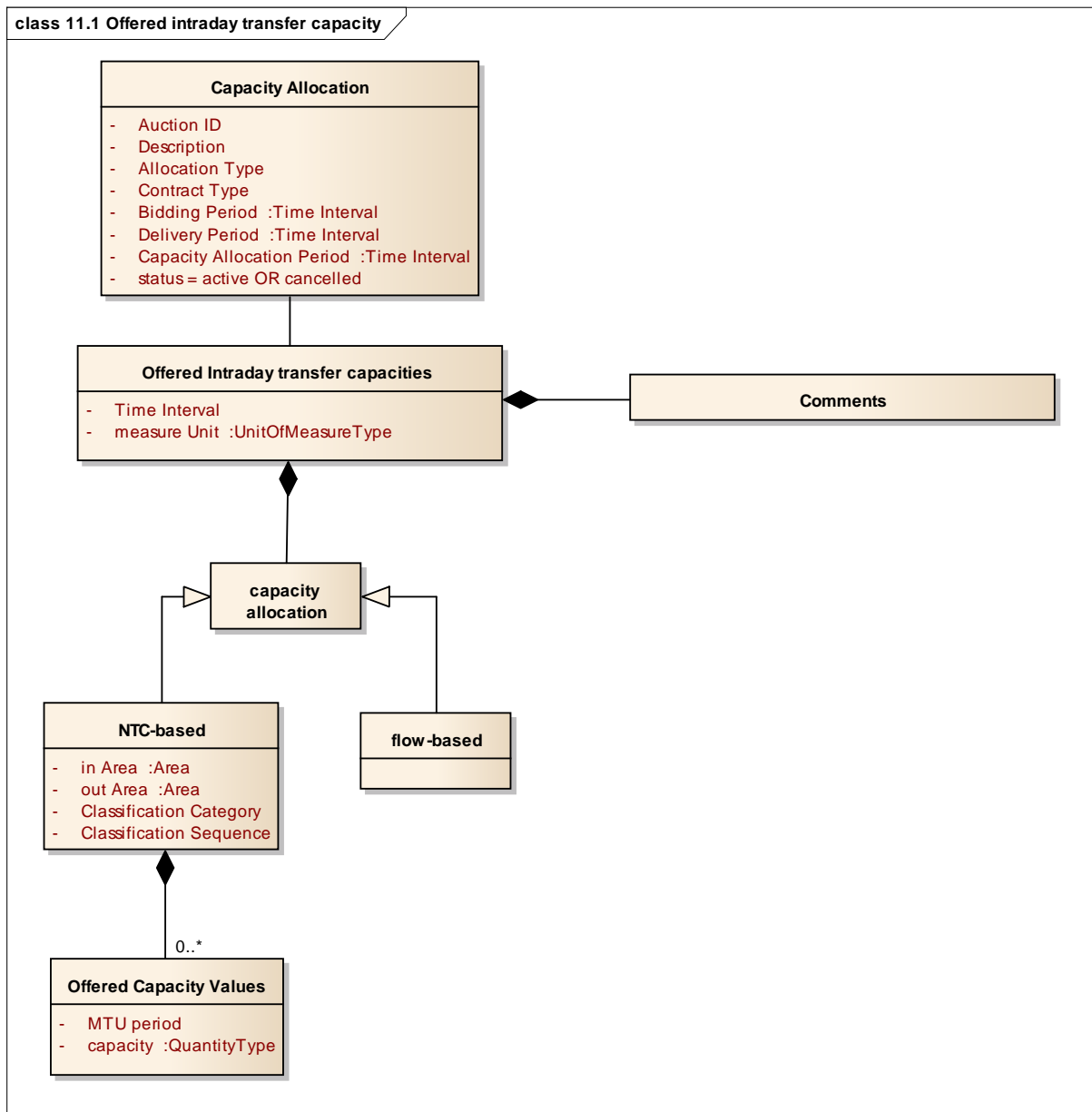
1615 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1616 each Market Time Unit within the selected day the capacity value (for every classification
1617 category and classification sequence, when applicable)

1618

7.11 Offered INTRADAY 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 one capacity allocation only.

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

1627 Offered intraday transfer capacities are described between an In Area and an Out Area, for a
1628 time interval spanning up to a day. Values are provided for each MTU Period, with a capacity
1629 value expressed in Measure Unit (MW).

1630 If there are several Capacity Products, capacity values are submitted separately per
1631 Classification Category and Classification Sequence.

1632 NTC-based values are applicable between two Areas.

1633 Optionally, offered intraday transfer capacity can be complemented with comments.

1634 In some situations there may not be any capacity values to submit.

1635 **Notes:**

1636 - At the time of writing (November 2012), analysis of data model for flow-based
1637 capacity parameters had not been completed.

1638 **7.11.2 PRE-CONFIGURATION**

1639 - Intraday transfer capacities are expected for all couples of Areas covered by the intraday
1640 capacity allocation's capacity products. Refer to chapter 7.26.1.2 for details on the
1641 configuration of an auction's capacity products.

1642 - For each capacity allocation, the Data Provider is the one indicated in the capacity
1643 allocation configuration. Refer to chapter 7.26.1.3 for details.

1644 - The submission deadline for offered intraday transfer capacity is one hour (H-1) before the
1645 start of the capacity allocation period for the first delivery period of the day. For the remaining
1646 delivery periods of the day, submissions will be performed close to real-time, for example 5
1647 minutes before the start of the allocation period.

1648 *Example: If the oriented couple of Areas is France to Germany Bidding Zones, and if*
1649 *intraday capacity allocation periods are as follows for day D:*

1650 - *1st Capacity Allocation Period: D-1, 18:00-19:00 UTC for the delivery period D, 00:00-*
1651 *24:00 UTC*

1652 - *2nd Capacity Allocation Period: D, 03:00-04:00 UTC for the delivery period D, 05:00-*
1653 *24:00 UTC*

1654 - *3rd Capacity Allocation Period: D, 09:00-10:00 UTC for the delivery period D, 11:00-*
1655 *24:00 UTC*

1656 - *4th Capacity Allocation Period: D, 15:00-16:00 UTC for the delivery period D, 17:00-*
1657 *24:00 UTC*

1658 - 5th Capacity Allocation Period: D, 20:00-21:00 UTC for the delivery period D, 22:00-
1659 24:00 UTC

1660 Data shall be submitted for the delivery period D, 00:00-24:00 UTC, no later than D-1,
1661 17:00 UTC. Data may be submitted for the delivery period D, 05:00-24:00 UTC, by D,
1662 02:55 UTC, etc.

1663 The submission deadline is the same for all couples of Areas covered by the capacity
1664 allocation's products.

1665 7.11.3 ASSUMPTIONS

1666 There is not more than one Data Provider per capacity allocation instance.

1667 7.11.4 INTEGRATION

1668 - Areas shall be recognised by the platform

1669 - The Data Provider shall be consistent with the capacity allocation configuration

1670 - The time interval in the document shall be up to one day

1671 7.11.5 MONITORING

1672 For a given instance of an auction, platform shall monitor that offered transfer capacity
1673 values are submitted for all area couples as deduced from the capacity allocation's products.
1674 The submission deadline as described in section 7.11.2 shall be monitored. Monitoring shall
1675 verify that values are submitted for all Capacity Products (i.e. for all Classification Categories
1676 and Classification Sequences).

1677 7.11.6 PROCESSING

1678 No processing is performed on this data item.

1679 7.11.7 PUBLICATION

1680 7.11.7.1 PUBLICATION BEHAVIOUR

1681 No particular publication behaviour applies. As usual, the latest version of submitted values
1682 will be displayed. In a given day, values submitted for a later allocation period will update the
1683 offered capacity values for the remainder of the day's delivery period.

1684 7.11.7.2 FILTERING AND SORTING CRITERIA

1685 Data shall be visually accessed by selecting the following:

1686 Day (Selection is mandatory)

1687 Country (selection is optional: If selected, Areas will be filtered to include only those that
1688 partially or completely cover the Country)

1689 Optionally, user may specify Area, couple of Areas and direction.

1690 7.11.7.3 DISPLAY

1691 This data shall be displayed in the following section:

1692 - **offer of transfer capacities / Intraday**

1693 The following attributes of data shall be displayed:

1694 - Title

1695 - Selected day

1696 - Measurement Unit

1697 - Comments

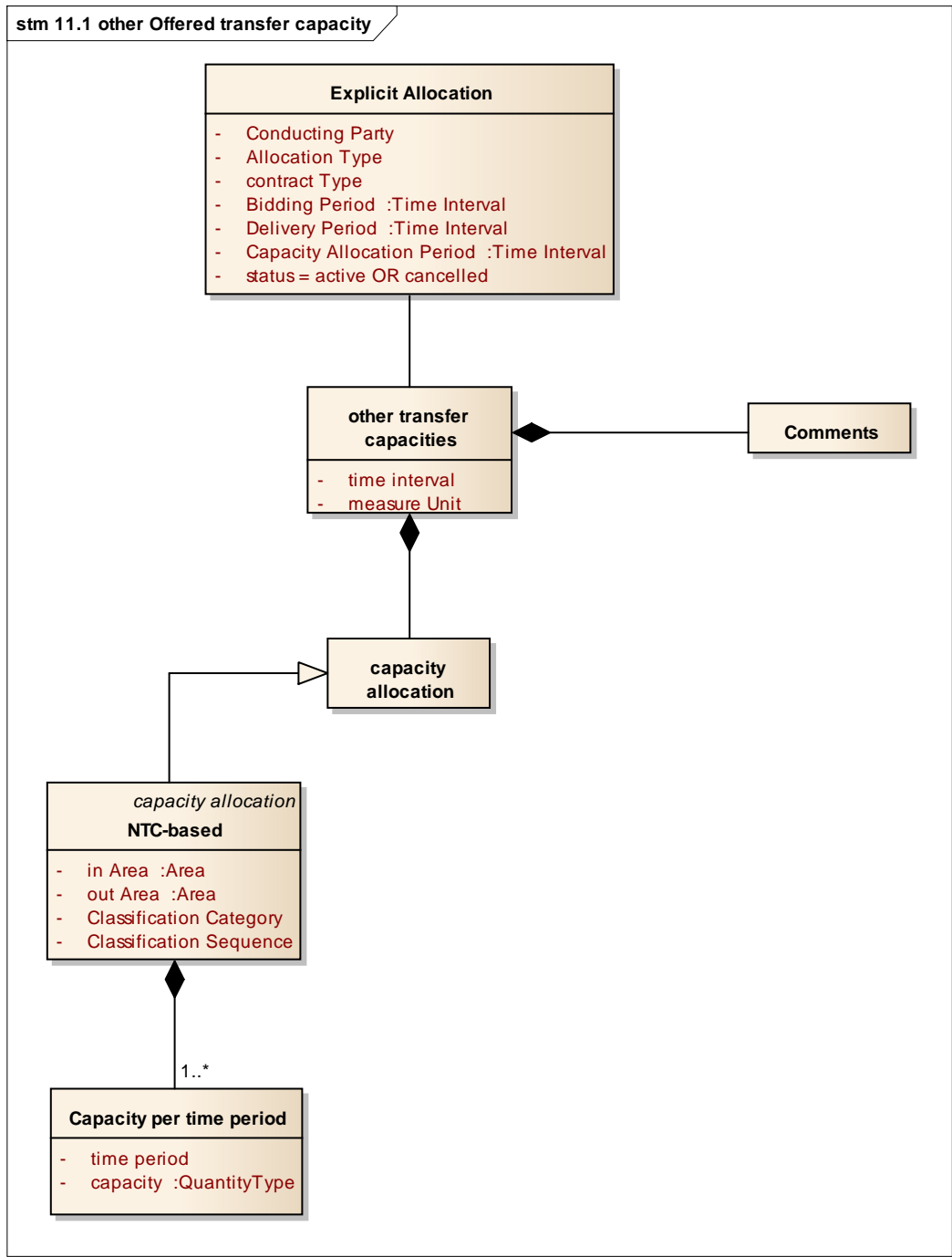
1698 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1699 each Market Time Unit period within the selected day, the capacity value (for every
1700 classification category and classification sequence, when applicable)

1701

7.12 OTHER OFFERED TRANSFER CAPACITIES [11.1]

7.12.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

1707 Other offered transfer capacities are associated with a semester, quarter, weekend and other
1708 explicit transmission allocations that are not covered by the data items described in chapters
1709 7.7 through 7.11.

1710 Other offered transfer capacities are described between an In Area (the Area flows come
1711 into) and an out Area (the Area flows come out from), during a time interval corresponding to
1712 the allocation's delivery period, with a single capacity value for the whole time interval
1713 expressed in Measure Unit.

1714 Capacity values are submitted separately per Classification Category and Classification
1715 Sequence.

1716 Optionally, other offered transfer capacities can be complemented with comments.

1717 **Note:** Flow-based parameters are not in scope for other offered transfer capacities.

1718 7.12.2 PRE-CONFIGURATION

1719 - Other offered transfer capacities are expected for all couples of Areas covered by an
1720 explicit allocation's capacity products. Refer to chapter 7.26.1.2 for details on the
1721 configuration of an auction's capacity products.

1722 - For each allocation, the Data Provider is the one indicated in the capacity allocation
1723 configuration. Refer to chapter 7.26.1.3 for details.

1724 - The submission deadline for other offered transfer capacities is a configurable time before
1725 the allocation process:

1726 *Example: The oriented couple of Areas is Netherlands Bidding Zone to Belgium Bidding*
1727 *Zone, the weekend capacity allocation period starts on Friday 10:00 UTC and deadline is*
1728 *D-1. The weekend for which offers are to be provided is 17th of March to 18th of March.*
1729 *The document shall be submitted before Thursday March 15th, 2012, 10:00 UTC.*

1730 The submission deadline is the same for all couples of Areas covered by the allocation's
1731 capacity products.

1732 7.12.3 ASSUMPTIONS

1733 A single value should be provided for the whole time interval, but a higher resolution is
1734 possible (up to the Market Time Unit used by the couple of Areas).

1735 There is not more than one Data Provider per auction instance.

1736 7.12.4 INTEGRATION

1737 - Areas shall be recognised by the platform

- 1738 - The Data Provider shall be consistent with the capacity allocation configuration
- 1739 - The time interval of the submitted document corresponds to the capacity allocation's
- 1740 delivery period

1741 7.12.5 MONITORING

- 1742 For a given instance of an allocation, platform shall monitor that offered transfer capacity
- 1743 values are submitted for all area couples as deduced from the allocation's capacity products.
- 1744 The submission deadline described in section 7.12.2 will be monitored.

- 1745 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
- 1746 Classification Categories and Classification Sequences).

1747 7.12.6 PROCESSING

- 1748 No processing is performed on this data item.

1749 7.12.7 PUBLICATION

1750 7.12.7.1 PUBLICATION BEHAVIOUR

- 1751 No specific publication behaviour applies.

1752 7.12.7.2 FILTERING AND SORTING CRITERIA

- 1753 Data shall be visually accessed by selecting the following:
- 1754 Contract Type (Selection is mandatory)
- 1755 Time interval (Selection is mandatory)
- 1756 Country (selection is optional: If selected, Areas will be filtered to include only those that
- 1757 partially or completely cover the Country)
- 1758 Optionally, user may specify Area, couple of Areas and direction.

1759 7.12.7.3 DISPLAY

- 1760 This data shall be displayed in the following section:

1761 - offer of transfer capacities / other

- 1762 The following attributes of data shall be displayed:

- 1763 - Title

- 1764 - Contract Type
- 1765 - Time interval
- 1766 - Measurement Unit
- 1767 - Comments
- 1768 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
- 1769 capacity value (for every classification category and classification sequence)
- 1770 If capacity values vary during the time interval, it shall be possible to expand the view so that
- 1771 they are displayed as a curve and in a table.

1772 7.13 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 1773 RAMPING RESTRICTIONS

1774 7.13.1 DATA DESCRIPTION

1775 This data item consists of a report in the form of a PDF file, describing the ramping or other
1776 restrictions applied on a Transmission Asset of type DC Link. The two areas connected by
1777 the DC Link are also recorded inside the report.

1778 7.13.2 PRE-CONFIGURATION

1779 Data Providers shall be able to configure the following reference data on the platform:

- 1780 - A list of Control Areas where ramping restrictions may apply
- 1781 - For each Control Area, the unique Data Provider

1782 7.13.3 ASSUMPTIONS

1783 Data to be submitted as a report. No monitoring is performed on this data item, due to its
1784 unpredictability.

1785 7.13.4 INTEGRATION

1786 Data Provider shall on the platform's web site, on the same page where these reports are
1787 published, be able to upload a PDF file and associated it with one Control Area. Platform
1788 shall validate that the Data Provider is authorized for the given Control Area.

1789 7.13.5 MONITORING

1790 No monitoring is performed on this data item.

1791 7.13.6 PROCESSING

1792 No processing is performed on this data item.

1793 7.13.7 PUBLICATION

1794 7.13.7.1 PUBLICATION BEHAVIOUR

1795 Documents are published immediately after upload. All versions shall be published.

1796 **7.13.7.2 FILTERING AND SORTING CRITERIA**

1797 - Country or Control Area (mandatory)

1798 - Date range (optional)

1799 **7.13.7.3 DISPLAY**

1800 This data shall be displayed in the following section:

1801 **Transmission / Cross Border Capacity of DC Links**

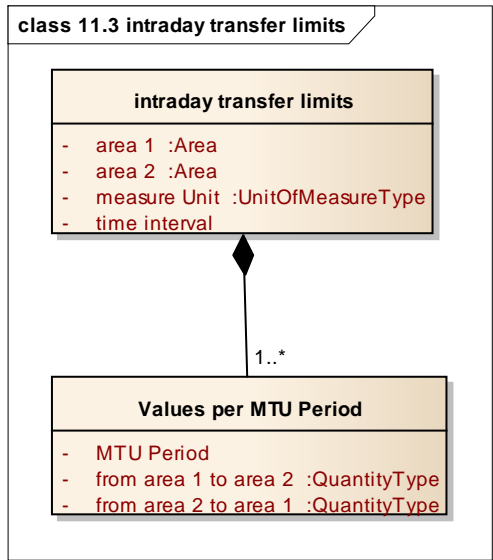
1802 Each report shall be available for download by clicking a link.

1803 For every report, the publication date shall be displayed.

1804

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

7.14.1 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.

7.14.2 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

7.14.3 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.

1822 **7.14.4 INTEGRATION**

1823 Platform shall validate that it recognises the Area couple.

1824 Platform shall validate that the Data Provider is authorized for the given Area couple.

1825 Time interval covered by document is up to one day.

1826 **7.14.5 MONITORING**

1827 No monitoring is performed on this data item.

1828 **7.14.6 PROCESSING**

1829 If two Data Providers submit data relating to the same Area couple, platform shall for each
1830 direction and MTU period select the minimum value for publication.

1831 **7.14.7 PUBLICATION**

1832 **7.14.7.1 PUBLICATION BEHAVIOUR**

1833 Documents are published immediately after upload.

1834 Latest version only shall be published.

1835 **7.14.7.2 FILTERING AND SORTING CRITERIA**

1836 - Area couple (mandatory)

1837 - Date or date range (mandatory)

1838 **7.14.7.3 DISPLAY**

1839 This data shall be displayed in the following section:

1840 **Transmission / Cross Border Capacity of DC Links**

1841 The following attributes of the data shall be displayed:

1842 - Title

1843 - Unit of measurement (MW)

1844 - Area couple

1845 - For each direction between the Areas and for each MTU period, the transfer limit

7.15 YEARLY REPORT ABOUT CRITICAL NETWORK

ELEMENTS LIMITING OFFERED CAPACITIES [11.4]

7.15.1 DATA DESCRIPTION

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

7.15.2 PRE-CONFIGURATION

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

7.15.3 INTEGRATION

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

Platform shall validate combination of Control Area and Data Provider.

7.15.4 PUBLICATION

7.15.4.1 PUBLICATION BEHAVIOUR

Documents are published immediately after upload.

All versions shall be published.

7.15.4.2 FILTERING AND SORTING CRITERIA

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

- Country or Control Area (optional)

- Publication year (optional)

7.15.4.3 DISPLAY

This data shall be displayed in the following section:

Transmission / Critical network elements

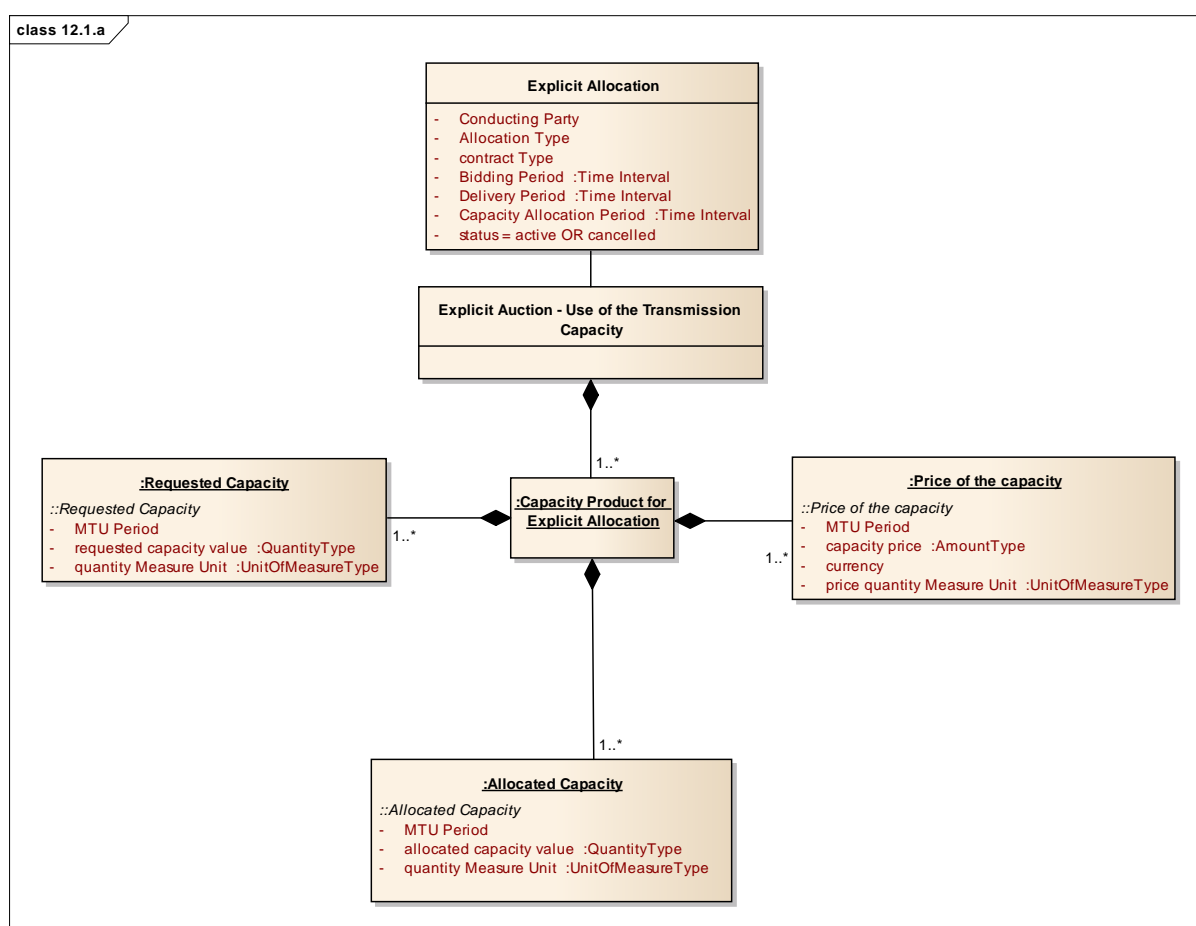
Each report shall be available for download by clicking a link.

For every report, the publication date shall be displayed.

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

7.16.1 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 Auction¹⁴ 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:

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

1882 - the Requested Capacity with a quantity in quantity Measure Unit (MW) for each Market
1883 Time Unit period within the time interval

1884 - the Allocated Capacity with a quantity in quantity Measure Unit (MW) for each Market Time
1885 Unit period within the time interval

1886 - the Price of the Capacity with a price in Currency per Price Quantity Measure Unit (MWh)
1887 for each Market Time Unit period within the time interval

1888 7.16.2 PRE-CONFIGURATION

1889 - For each Explicit Auction instance's capacity products, the data item "Use of the
1890 Transmission Capacity", shall be expected by the platform¹⁵. Refer to chapter 7.26.1.2 for
1891 details on the configuration of an auction's capacity products.

1892 - For each Explicit Auction instance, the unique allowed Data Provider is the one indicated by
1893 the capacity allocation configuration. Refer to chapter 7.26.1.3 for details.

1894 - For each explicit auction instance, the submission deadline:

1895 • For a given Explicit Auction instance, submission must be done at the latest one hour
1896 (H+1) after the end of the Capacity Allocation Period.

1897 *Example: if the capacity product is Yearly Base 1 between France and German Bidding*
1898 *Zones for the time interval of year 2013, and if the Capacity Allocation Period ends on*
1899 *November 17th, 2012, at 08:00 UTC, the document describing the use of transmission*
1900 *capacity in this time interval must be submitted before November 17th, 2012, 09:00 UTC.*

1901 Submission deadline is the same for all results associated with all of the Auction
1902 instance's capacity products.

1903 7.16.3 ASSUMPTIONS

1904 No specific assumptions apply to this data item.

1905 7.16.4 INTEGRATION

1906 - The Data Provider shall be consistent with the configuration of the capacity allocation

1907 - Capacity Product shall be consistent with the configuration of the capacity allocation

1908 - Currency shall be consistent with the capacity product

¹⁵ If Allocation Type is "continuous", prices will not be expected.

1909 - The time interval described in the document shall be complete (e.g. a whole day for the
1910 results of a Daily Auction)

1911 7.16.5 MONITORING

1912 The submission deadline described in section 7.16.2 shall be monitored for each of the
1913 auction's capacity products.

1914 If Allocation Type is "continuous", no monitoring will be performed.

1915 7.16.6 PROCESSING

1916 No processing is performed by the platform at this step.

1917 7.16.7 PUBLICATION

1918 7.16.7.1 PUBLICATION BEHAVIOUR

1919 No particular behaviour applies to this data item.

1920 7.16.7.2 FILTERING AND SORTING CRITERIA

1921 Data shall be visually accessed by selecting the following:

1922 - Contract Type (Selection is Mandatory)

1923 - Country (selection is optional: If selected, Areas will be filtered to include only those that
1924 partially or completely cover the Country)

1925 - Areas couple (Selection is Mandatory)

1926 - Direction (both by default) (Selection is Mandatory)

1927 - Classification Category (Selection is optional)

1928 - Classification Sequence (Selection is optional)

1929 - Conducting Party (Selection is optional)

1930 - Time interval (Start and End date) (Selection is mandatory)

1931 7.16.7.3 DISPLAY

1932 This data shall be displayed in the following section:

1933 - **Explicit Auctions** (together with the Total Capacity Already Allocated / [12.1.c])

1934 The following attributes of data shall be displayed:

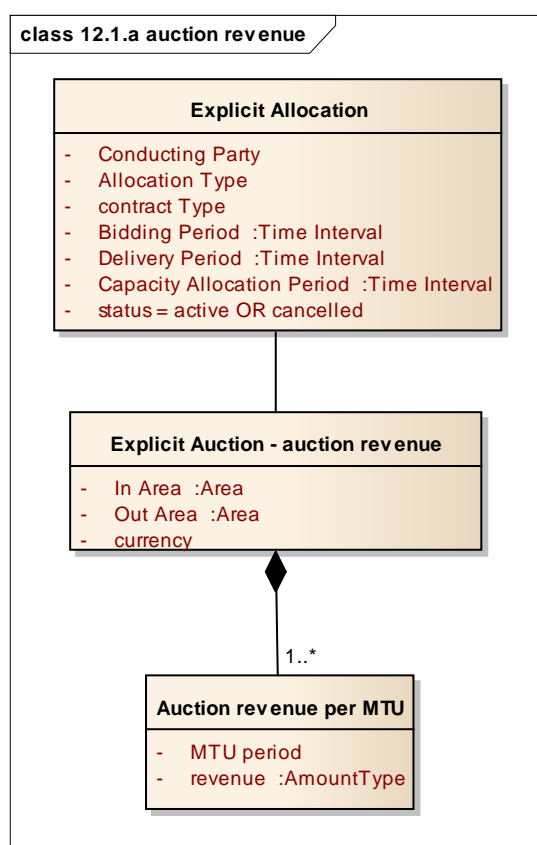
- 1935 - Title
- 1936 - Areas name
- 1937 - Contract Type
- 1938 - Conducting Party
- 1939 - Time interval
- 1940 - Measurement Unit for requested and allocated capacity
- 1941 - Currency for capacity price
- 1942 - Measurement Unit for capacity price
- 1943 - For each MTU Period within the time interval, the requested capacity value, the allocated
- 1944 capacity value and the capacity price value. This is repeated per direction, Classification
- 1945 Category and Classification Sequence.
- 1946

7.17 EXPLICIT ALLOCATIONS – AUCTION REVENUE

[12.1.A]

7.17.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to one auction only. Revenue from an Explicit Auction¹⁶ is given by Area couple 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.). Revenue is expressed in a Currency. Resolution is MTU period.

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

1957 7.17.2 PRE-CONFIGURATION

1958 - For each Area couple covered by an Explicit Auction instance's capacity products, the data
1959 item "Explicit Auctions – Auction Revenue" shall be expected by the platform¹⁷. Refer to
1960 chapter 7.26.1.2 for details on the configuration of an auction's capacity products.

1961 - For each Explicit Auction instance, the single allowed Data Provider is the one indicated by
1962 the capacity allocation configuration. Refer to chapter 7.26.1.3 for details.

1963 - For each explicit auction instance, the submission deadline:

- 1964 • For a given Explicit Auction instance, submission must be done at the latest one hour
1965 (H+1) after the end of the Capacity Allocation Period.

1966 *Example: if the Explicit Auction instance is Yearly Base 1 between France and German*
1967 *Bidding Zones for the time interval of year 2013, and if the Capacity Allocation Period*
1968 *ends on November 17th, 2012, at 08:00 UTC, the document describing the auction*
1969 *revenue in this time interval must be submitted before November 17th, 2012, 09:00 UTC.*

1970 Submission deadline is the same for all Area couples covered by the Auction instance's
1971 capacity products.

1972 7.17.3 ASSUMPTIONS

1973 Not more than one Data Provider per Explicit Auction instance.

1974 Data Provider submits one single value of revenue per Area couple and MTU period,
1975 aggregated for all capacity products (peak, off-peak, etc.) under the auction's Contract Type.

1976 Delivery Periods are the same in both directions across a border. Only one currency is
1977 applicable in both directions across a border.

1978 7.17.4 INTEGRATION

1979 - The Data Provider shall be consistent with the capacity allocation configuration

1980 - Area couple shall be consistent with capacity product, as per capacity allocation
1981 configuration

1982 - Currency shall be consistent with the capacity products covering the Area couple

1983 7.17.5 MONITORING

1984 The submission deadline described in section 7.16.2 shall be monitored for all Area couples
1985 covered by the auction's capacity products.

¹⁷ When Allocation Type is "continuous", data is not expected.

1986 7.17.6 PROCESSING

1987 Platform aggregates the total revenue for the whole delivery period by summing up the
1988 values submitted per MTU period.

1989 Once total revenue values for a given delivery period have been submitted for both
1990 directions, platform aggregates a grand total for the border.

1991 7.17.7 PUBLICATION

1992 7.17.7.1 PUBLICATION BEHAVIOUR

1993 A delay in submission of values in a given direction shall not withhold publication of already
1994 submitted values in the opposite direction. Publication of aggregated sum per border is
1995 performed independently of publication of values per direction. Aggregated sum per border
1996 shall be published as soon as values in both directions have been submitted.

1997 7.17.7.2 FILTERING AND SORTING CRITERIA

1998 Data shall be visually accessed by selecting the following:

1999 - Contract Type (selection is mandatory)

2000 - Country (selection is optional: If selected, Area couples will be filtered to include only those
2001 that partially or completely cover the Country)

2002 - Areas couple (selection is mandatory)

2003 - Date or date range (selection is mandatory)

2004 7.17.7.3 DISPLAY

2005 This data shall be displayed in the following section:

2006 - **Explicit Auctions** (together with the previously allocated Capacity / [12.1.c])

2007 The following attributes of data shall be displayed:

2008 - Title

2009 - Area couple

2010 - Contract Type

2011 - Currency

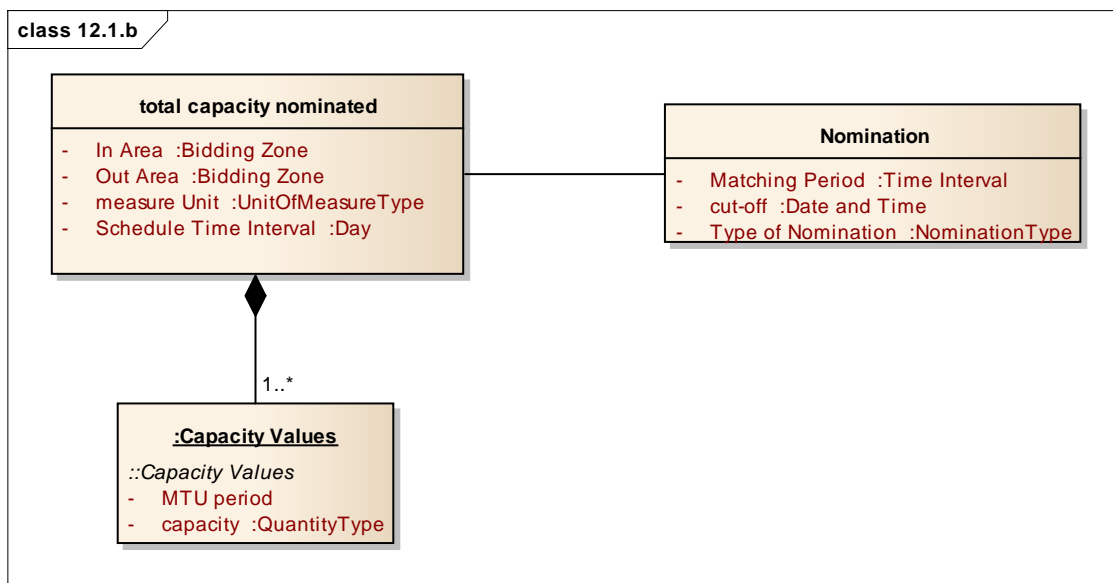
2012 - Delivery Period

- 2013 - For each delivery period during the selected date range, the following details of auction
- 2014 revenue are displayed:
- 2015 - In each direction and per MTU period
- 2016 - aggregated revenue in each direction for the whole Delivery Period
- 2017 - aggregated revenue for the border, for the whole Delivery Period

2018 7.18 TOTAL CAPACITY NOMINATED [12.1.B]

2019 7.18.1 DATA DESCRIPTION

2020 This item can be described by the following class diagram:



2021

2022 The document may cover several couples of bidding zones and directions.

2023 Values are expected for one day and are given by Market Time Unit period.

2024 For a given In and Out Area couple and Schedule Time Interval (i.e. day), values may be

2025 submitted separately for each applicable nomination round, or in a single aggregated

2026 submission. When there are several nomination rounds, they are typically separate for Long-

2027 term, Daily and Intraday. There may be several intraday nominations rounds for a given In

2028 and Out Area.

2029 Total Capacity Nominated is relevant only for borders between bidding zones where explicit

2030 auctions are being held.

2031 7.18.2 PRE-CONFIGURATION

2032 - A list of In and Out Area couples where the data item "Total Capacity Nominated" is

2033 expected

2034 - For each In and Out Area couple and day, the applicable Nominations as per 7.1.3

2035 - For each In and Out Area couple, the allowed Data Provider(s), with their priorities

2036 - For each In and Out Area couple, the applicable submission deadline(s).

- 2037 • Submission must be done H+1 after the respective cut-off time (when no correction is
2038 possible on nominations) of the concerned nomination round on this given In and Out
2039 Area couple.
- 2040 *Example: if the couple of Bidding Zones is France - Germany, and if there is only a day-*
2041 *ahead cut-off time at 20:00 UTC, for the day March 13th, 2012, the document shall be*
2042 *submitted before March 12th, 2012, 21:00 UTC and contain capacity values for the whole*
2043 *day of March 13th, 2012.*
- 2044 *Example: If the couple of Bidding Zones is France – Spain and in addition to long-term*
2045 *and daily nominations there are also intraday nominations:*
- 2046 *long-term nomination round with cut-off at D-1, 12:00 UTC for the delivery period D,*
2047 *00:00 – 24:00 UTC*
- 2048 *daily nomination round with cut-off at D-1, 18:00 UTC for the delivery period D, 00:00 –*
2049 *24:00 UTC*
- 2050 *1st intraday nomination round with cut-off at D-1, 20:00 UTC for the delivery period D,*
2051 *06:00-24:00 UTC*
- 2052 *2nd intraday nomination round with cut-off at D, 04:00 UTC for the delivery period D,*
2053 *12:00-24:00 UTC*
- 2054 *3rd intraday nomination round with cut-off at D, 12:00 UTC for the delivery period D,*
2055 *18:00-24:00 UTC*
- 2056 *The following documents shall be submitted:*
- 2057 *A document containing the long-term nominations for the whole delivery period D, 00:00*
2058 *– 24:00 UTC, shall be submitted no later than D-1, 13:00 UTC*
- 2059 *A second document containing the daily nominations for the whole delivery period D,*
2060 *00:00 – 24:00 UTC, shall be submitted no later than D-1, 19:00 UTC*
- 2061 *A third document containing the intraday nominations for the whole delivery period D,*
2062 *00:00 – 24:00 UTC, shall be submitted no later than D-1, 21:00 UTC.*
- 2063 *A higher version of the third document containing the intraday nominations for the whole*
2064 *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D, 05:00 UTC.*
- 2065 *A higher version of the third document containing the intraday nominations for the whole*
2066 *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D, 13:00 UTC.*
- 2067 Configuration of the matching process, including cut-off times, is described in chapter
2068 7.1.3.

2069 7.18.3 ASSUMPTIONS

2070 if Data Provider submits aggregated data, there would then be only one daily submission
2071 covering the whole day (and possibly with subsequent updates).

2072 If there is more than one round of intraday nominations for a given Schedule Time Interval
2073 (day), then each round of nomination shall be described by a higher version of the original
2074 document.

2075 7.18.4 INTEGRATION

2076 - Area couple shall be recognised by the platform

2077 - The Data Provider shall be consistent with the identified Area couple

2078 - The Schedule Time Interval in the submitted document is one day

2079 7.18.5 MONITORING

2080 This data item is expected one or several times per day for all declared In and Out Area
2081 couples. For each couple of In and Out Areas, the daily or intraday submission deadline(s)
2082 described in section 7.18.2 shall be monitored. If no data has been submitted, all declared
2083 Data Providers will be notified.

2084 7.18.6 PROCESSING

2085 If data has been submitted for a given Bidding Zone couple, direction, nomination and
2086 schedule Time Interval (day) by more than one Data Provider, platform shall process data
2087 coming from Data Provider with highest priority.

2088 When there are several submissions for a given Bidding Zone couple, direction and
2089 Schedule Time Interval (day), platform shall aggregate nominations per MTU period:

2090 Aggregated nomination = Long-term nomination + daily nomination + most recent intraday
2091 nomination

2092 *Continuing the second example from section 7.18.2, this means that the values submitted for*
2093 *1st intraday nomination will be replaced by the values submitted for the 2nd intraday*
2094 *nomination round, which in their turn will be replaced by the values submitted for the 3rd*
2095 *intraday nomination round.*

2096 7.18.7 PUBLICATION

2097 7.18.7.1 PUBLICATION BEHAVIOUR

2098 Aggregated values only shall be published.

2099 7.18.7.2 FILTERING AND SORTING CRITERIA

2100 Data shall be visually accessed by selecting the following:

2101 - Day (Selection is mandatory)

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

2104 - Bidding Zones couple or Bidding Zone

2105 7.18.7.3 DISPLAY

2106 This data shall be displayed in the following section:

2107 - **Transmission / Total nominated capacity**

2108 The following attributes of data shall be displayed:

2109 - Title

2110 - Schedule Time Interval (i.e. selected Day)

2111 - Measurement Unit

2112 - MTU

2113 - Bidding Zone couple

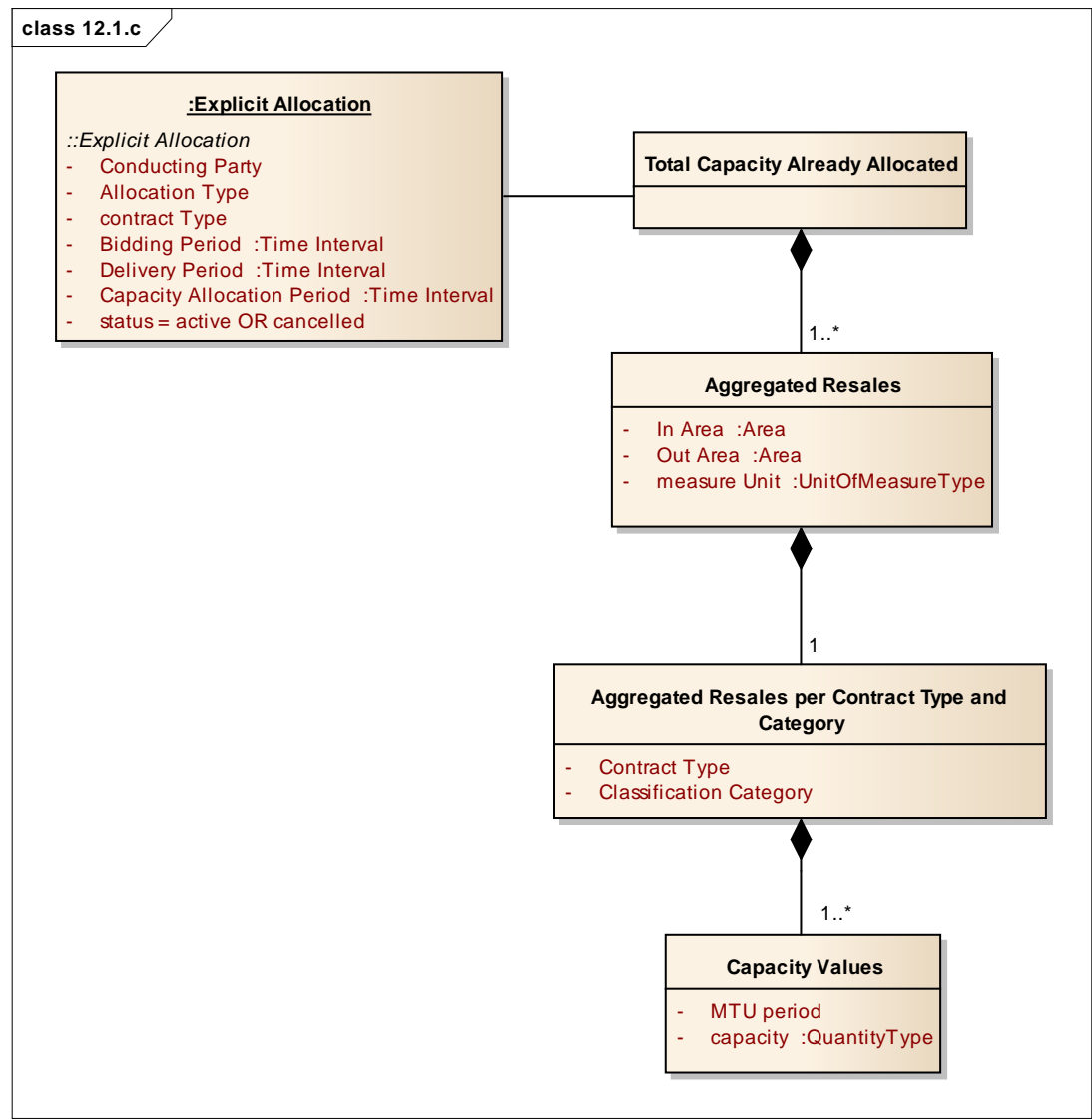
2114 - in each direction, the aggregated capacity value for each MTU

2115 Data is published in table and chart formats.

7.19 TOTAL CAPACITY ALREADY ALLOCATED [12.1.c]

7.19.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to exactly one auction instance. For each couple of In and Out Areas covered by the auction's capacity products, the aggregated resales of capacity is submitted per Contract Type and Classification Category, with one capacity value in measure Unit for each Market Time Unit period within a time interval corresponding to the auction's Delivery Period.

2125 This data item is relevant for explicit allocations only. It is not applicable to allocations of
2126 yearly capacity products since in that case there is no previously allocated capacity.

2127 *Example: Before a daily auction, documents submitted separately shall contain the*
2128 *aggregated resales from yearly to monthly auction, and from yearly and monthly auction to*
2129 *weekly auction, respectively. Hence aggregated resales are provided per contract types*
2130 *“monthly” and “weekly” and per classification category (“base” and “peak”, for example). For*
2131 *each of those contract types and classification categories, capacity values shall be provided*
2132 *for each MTU period of the delivery period of the daily auction.*

2133 7.19.2 PRE-CONFIGURATION

2134 - For each Explicit Allocation instance (except for yearly), the data item “Total Capacity
2135 Already Allocated” shall be expected by the platform for all Area couples covered by the
2136 Auction’s capacity products. Refer to chapter 7.26.1.2 for details on the configuration of an
2137 auction’s capacity products.

2138 - For each Explicit Allocation instance, the unique allowed Data Provider is the one indicated
2139 in the capacity allocation configuration. Refer to chapter 7.26.1.3 for details.

2140 - For a given allocation, the submission deadline depends on the Contract Type (monthly,
2141 weekly, etc.) and is the same as for the offered transfer capacity [11.1], refer to sections
2142 7.10.2 through 7.11.2.

2143 7.19.3 ASSUMPTIONS

2144 Data Providers have submitted allocated capacity as per data item [12.1.a], refer to chapter
2145 7.16. If this information has not been submitted, the calculations described in chapter 7.19.6
2146 cannot be carried out.

2147 7.19.4 INTEGRATION

2148 - The Data Provider shall be consistent with the configuration of the capacity allocation, refer
2149 to chapter 7.26.1.3 for details

2150 - The time interval described in the document shall be complete¹⁸ (e.g. a whole day for a
2151 Daily auction)

¹⁸ If there is a yearly auction in which the offered capacity covers a time interval with maintenance periods (e.g. due to outages), the submitted document should still cover the whole year (from 01.01.YYYY to 31.12.YYYY).

2152 7.19.5 MONITORING

2153 For a given instance of an Explicit Allocation (except for yearly), platform shall monitor that
2154 the data item “Total Capacity Already Allocated” is submitted for all area couples as deduced
2155 from the auction’s capacity products. Platform shall verify that aggregated resales are
2156 submitted for all applicable Contract Types and Classification Categories, as per available
2157 configuration of capacity allocations.

2158 *Example: Continuing with the daily auction described above, aggregated resales for the*
2159 *monthly and weekly auctions of the “base” and “peak” categories, respectively, will be*
2160 *expected and monitored by the platform.*

2161 Submission deadlines depend on the auction as explained in chapter 7.19.2.

2162 7.19.6 PROCESSING

2163 For each In and Out Area couple and per MTU period, platform shall add total capacity
2164 already allocated, as submitted for data item [12.1.a]. Values for all products, i.e. for all
2165 classification categories and classification sequences, shall be added. From this sum,
2166 platform shall subtract the aggregated resales for all Contract Types and classification
2167 categories as submitted for this data item [12.1.c].

2168 *Example: Continuing with the example of the daily auction, the total capacity already*
2169 *allocated is established by*

2170 *+ values submitted under data item [12.1.a] representing allocated capacity in yearly auction*
2171 *(for peak, off-peak, etc. and all classification sequences)*

2172 *+ values submitted under data item [12.1.a] representing allocated capacity in monthly*
2173 *auction*

2174 *+ values submitted under data item [12.1.a] representing allocated capacity in weekly auction*

2175 *- values submitted under this data item [12.1.c] representing aggregated resales from yearly*
2176 *to monthly auction for all classification categories (“peak”, “base”, etc.)*

2177 *- values submitted under this data item [12.1.c] representing aggregated resales from yearly*
2178 *and monthly auctions to weekly auction for all classification categories (“peak”, “base”, etc.).*

2179 7.19.7 PUBLICATION

2180 7.19.7.1 PUBLICATION BEHAVIOUR

2181 If allocated capacity has not been submitted for data item [12.1.a] and calculation therefore
2182 cannot be performed, values shall be indicated as “missing”.

2183 7.19.7.2 FILTERING AND SORTING CRITERIA

2184 Data shall be visually accessed by selecting the following:

2185 - Contract Type (Selection is Mandatory)

2186 - Country (selection is optional: If selected, Areas will be filtered to include only those that
2187 partially or completely cover the Country)

2188 - Areas couple (Selection is Mandatory)

2189 - Direction (both by default) (Selection is Mandatory)

2190 - Time window (Start and End date) (Selection is mandatory)

2191 7.19.7.3 DISPLAY

2192 This data shall be displayed in the following section:

2193 - **Explicit Auctions / Total Capacity Already Allocated**

2194 The following attributes of data shall be displayed:

2195 - Title

2196 - Areas name

2197 - Contract Type

2198 - Time window

2199 - Measurement Unit

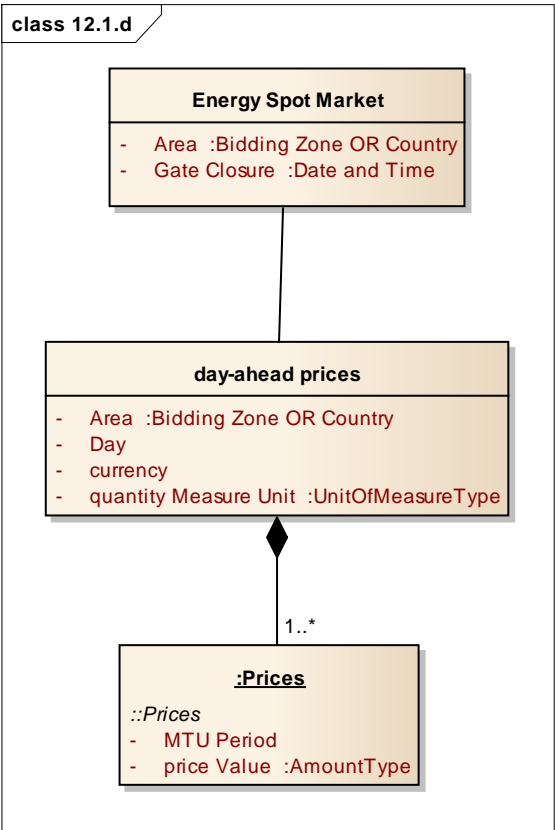
2200 - For each MTU Period within the time window, the total capacity already allocated. This is
2201 repeated per direction.

2202

7.20 DAY-AHEAD PRICES [12.1.D]

7.20.1 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.

7.20.2 PRE-CONFIGURATION

By default, day-ahead prices are expected for all bidding zones. In some instances, it is submitted by country rather than bidding zone¹⁹.

- 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.

¹⁹ This is the case for Germany and Austria.

2216 **7.20.3 ASSUMPTIONS**

2217 There shall be only one Data Provider for a given bidding zone or country.

2218 **7.20.4 INTEGRATION**

2219 - Bidding zone or country shall be recognised by the platform

2220 - The Data Provider shall be consistent with the bidding zone or country

2221 - Currency shall be consistent with pre-configuration [C9]

2222 **7.20.5 MONITORING**

2223 For every bidding zone or country where this data is expected, the daily submission deadline
2224 shall be monitored.

2225 **7.20.6 PROCESSING**

2226 No processing is performed by the platform on this data item.

2227 **7.20.7 PUBLICATION**

2228 **7.20.7.1 PUBLICATION BEHAVIOUR**

2229 No particular behaviour applies to this data item.

2230 **7.20.7.2 FILTERING AND SORTING CRITERIA**

2231 Data shall be visually accessed by selecting the following:

2232 - Country or Bidding zone (Selection is Mandatory)

2233 - Day (Selection is mandatory)

2234 **7.20.7.3 DISPLAY**

2235 This data shall be displayed in the following section:

2236 - **Day-ahead prices**

2237 The following attributes of data shall be displayed:

2238 - Title

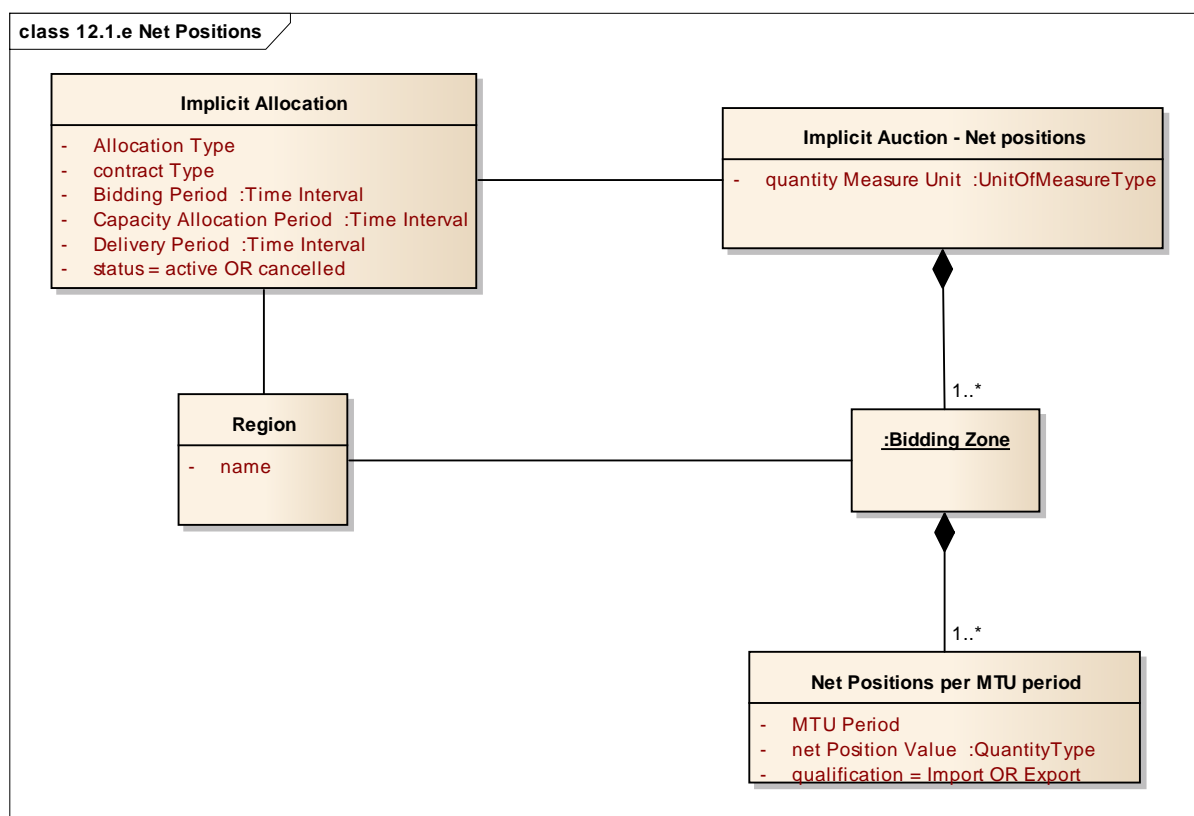
2239 - Bidding Zone or Country

- 2240 - Selected day
- 2241 - Currency
- 2242 - Quantity Measurement Unit (MWh)
- 2243 - For each MTU period during the selected day, the day-ahead price
- 2244

7.21 IMPLICIT ALLOCATIONS – NET POSITIONS [12.1.E]

7.21.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Net positions for an Implicit Allocation²⁰ are given by Bidding Zone for a given time interval corresponding to the implicit allocation's 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.

²⁰ The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Congestion Income » - chapter 7.22

2256 7.21.2 PRE-CONFIGURATION

2257 - For each bidding zone covered by the implicit allocation's products, net positions shall be
2258 expected by the platform. Refer to chapter 7.26.1.2 for details on the configuration of an
2259 allocation's capacity products.

2260 - For each bidding zone covered by any implicit allocation, the single allowed Data Provider
2261 is the one indicated by the capacity allocation configuration. Refer to chapter 7.26.1.3 for
2262 details.

2263 - For each Implicit Allocation, the submission deadline:

- 2264 • For a given Implicit Allocation instance, submission must be done at the latest one
2265 hour (H+1) after the end of the Capacity Allocation Period.

2266 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*
2267 *Zones for a time interval of March 13th, 2012, and if the Capacity Allocation Period ends*
2268 *on March 12th, 2012, at 12:00 UTC, the documents describing the net positions for the*
2269 *time interval must be submitted before March 12th, 2012, 13:00 UTC.*

2270 Submission deadline is the same for all bidding zones associated with the Implicit
2271 Allocation.

2272 7.21.3 ASSUMPTIONS

2273 There is not more than one Implicit Allocation per Region and Contract Type.

2274 7.21.4 INTEGRATION

2275 - The Data Provider shall be consistent with the implicit allocation and bidding zone as per
2276 pre-configuration described in 7.21.2

2277 - The Delivery Period described in the document shall be complete

2278 7.21.5 MONITORING

2279 For a given instance of an Implicit Allocation, the submission deadline shall be monitored for
2280 all bidding zones covered by the implicit allocation's capacity products.

2281 7.21.6 PROCESSING

2282 No processing is performed by the platform.

2283 7.21.7 PUBLICATION

2284 7.21.7.1 PUBLICATION BEHAVIOUR

2285 No specific behaviour applies to this data item.

2286 7.21.7.2 FILTERING AND SORTING CRITERIA

2287 Data shall be visually accessed by selecting the following:

2288 - Region (Selection is optional)

2289 - Country (selection is optional: If selected, Areas will be filtered to include only those that
2290 partially or completely cover the Country)

2291 - One or several Bidding Zones²¹ (Selection is Mandatory)

2292 - Day (Selection is mandatory)

2293 - Contract Type: Day-Ahead or Intraday

2294 7.21.7.3 DISPLAY

2295 This data shall be displayed in the following section:

2296 - **Implicit Allocations**

2297 The following attributes of data shall be displayed:

2298 - Title

2299 - Region name (if selected)

2300 - Day

2301 - Measurement Unit (MW)

2302 - Contract Type

2303 - The following data is repeated for each selected Bidding Zone: Bidding Zone name and for
2304 each MTU Period within the selected day, the net position and whether it is "import" or
2305 "export". When selected Contract Type is Intraday, net positions are displayed for each
2306 Delivery Period during the selected day.

2307

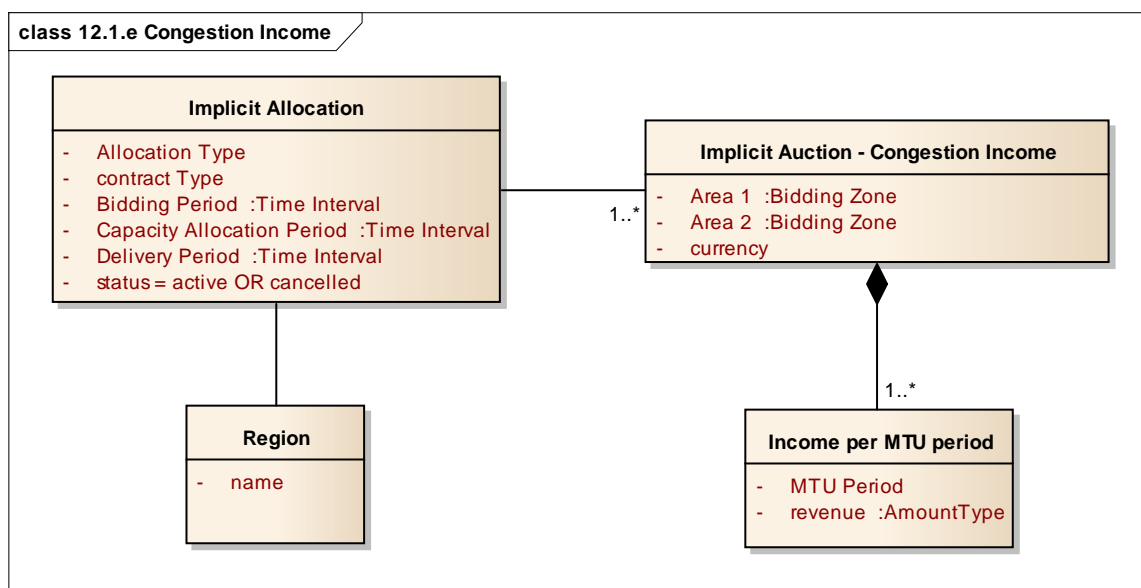
²¹ If region has been selected, the selectable Bidding Zones shall be associated with the Region, as per pre-configuration [C-TRM-6].

7.22 IMPLICIT ALLOCATIONS – CONGESTION INCOME

[12.1.E]

7.22.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Congestion income for an Implicit Allocation²² 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).

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.

7.22.2 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 7.26.1.2 for details on the configuration of an allocation's capacity products.

²² The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Net Positions » (chapter 7.21)

2324 - For each Area couple covered by the implicit allocation, the single allowed Data Provider is
2325 the one indicated by the capacity allocation configuration. Refer to chapter 7.26.1.3 for
2326 details.

2327 - For each Implicit Allocation, the submission deadline:

- 2328 • For a given Implicit Allocation instance, submission must be done at the latest one
2329 hour (H+1) after the end of the Capacity Allocation Period.

2330 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*
2331 *Zones for the time interval of March 13th, 2012, and if the Capacity Allocation Period ends*
2332 *on March 12th, 2012, at 12:00 UTC, the documents describing the Congestion Income for*
2333 *this time interval must be submitted before March 12th, 2012, 13:00 UTC.*

2334 Submission deadline is the same for all Area couples covered by the Implicit Allocation.

2335 7.22.3 ASSUMPTIONS

2336 Only one Data Provider per Area couple.

2337 There is not more than one Implicit Allocation per Region.

2338 Data is submitted per area couple and platform does not have to perform any calculation.

2339 7.22.4 INTEGRATION

2340 - Currency shall be consistent with the capacity products covering the Area couple

2341 - The Data Provider shall be consistent with the implicit allocation as per pre-configuration
2342 described in 7.22.2

2343 - The Delivery Period described in the document shall be complete

2344 7.22.5 MONITORING

2345 For a given instance of an Implicit Allocation, the submission deadline common to all Area
2346 couples covered by the capacity products shall be monitored.

2347 7.22.6 PROCESSING

2348 No processing is performed by the platform at this step.

2349 7.22.7 PUBLICATION

2350 7.22.7.1 PUBLICATION BEHAVIOUR

2351 No specific behaviour applies to this data item.

2352 7.22.7.2 FILTERING AND SORTING CRITERIA

2353 Data shall be visually accessed by selecting the following:

2354 - Region (Selection is optional)

2355 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only
2356 those that partially or completely cover the Country)

2357 - One or several Bidding Zones²³ (Selection is Mandatory)

2358 - Contract Type

2359 - Day (Selection is mandatory)

2360 7.22.7.3 DISPLAY

2361 This data shall be displayed in the following section:

2362 - **Implicit Auctions**

2363 The following attributes of data shall be displayed:

2364 - Title

2365 - Region name (if selected)

2366 - Day

2367 - Contract Type

2368 - The following is repeated for each border (i.e. couple of Bidding Zones): Name of Bidding
2369 Zones and currency and for each MTU Period within the selected day, the revenue amount.
2370 When selected Contract Type is Intraday, revenue amounts are displayed for each Delivery
2371 Period during the selected day.

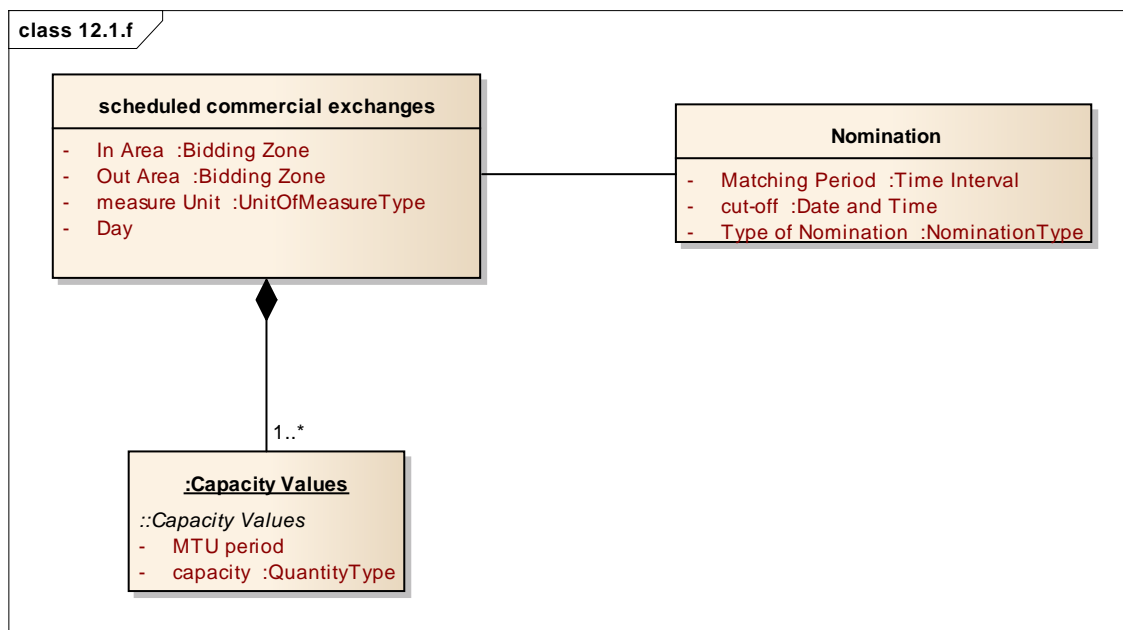
2372

²³ The selectable Bidding Zones shall be associated with the Region, as per pre-configuration [C-TRM-6].

7.23 SCHEDULED COMMERCIAL EXCHANGES [12.1.F]

7.23.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of bidding zones and directions. Values are expected for one day and are given by Market Time Unit period.

7.23.2 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 configuration of 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, and assuming there is a nomination process for this Area couple, the submission deadline is dependent on the nomination process. There is a daily submission deadline one hour (H+1) after the last 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 day March 13th, 2012, the document shall be submitted before March 12th, 2012, 21:00 UTC.

Further, if there is also intraday nomination on the In and Out Area couple and such intraday nomination results in an update to the scheduled day-ahead commercial

2392 exchange, an updated schedule shall be submitted no later than two hours (H+2) after
2393 the intraday nomination.

2394 Configuration of matching process, including the cut-off time, is described in chapter
2395 7.1.3.

2396 7.23.3 ASSUMPTIONS

2397 Updates are submitted only if schedule has been modified. As a consequence, monitoring of
2398 submission deadlines for updates are not feasible and will not be performed.

2399 7.23.4 INTEGRATION

2400 - Bidding Zones shall be recognised by the platform

2401 - The Data Provider shall be consistent with the identified Bidding Zones

2402 - The time interval in the submitted document is of one day

2403 7.23.5 MONITORING

2404 For each couple of In and Out Areas configured in the matching process (refer to chapter
2405 7.1.3), the daily submission deadline described in section 7.23.2 shall be monitored. If no
2406 data has been submitted, all declared Data Providers will be notified.

2407 7.23.6 PROCESSING

2408 If for a given Bidding Zone couple and MTU period more than one Data Provider has
2409 submitted data, platform will publish the value from the Data Provider with highest priority.

2410 7.23.7 PUBLICATION

2411 7.23.7.1 PUBLICATION BEHAVIOUR

2412 No specific publication behaviour for this data item.

2413 7.23.7.2 FILTERING AND SORTING CRITERIA

2414 Data shall be visually accessed by selecting the following:

2415 - Day (Selection is mandatory)

2416 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include
2417 only those that partially or completely cover the Country)

2418 - Bidding Zones couple or Bidding Zone

2419 **7.23.7.3 DISPLAY**

2420 This data shall be displayed in the following section:

2421 **- Transmission / Scheduled day-ahead commercial exchanges**

2422 The following attributes of data shall be displayed:

2423 - Title

2424 - selected Day

2425 - Measurement Unit

2426 - MTU

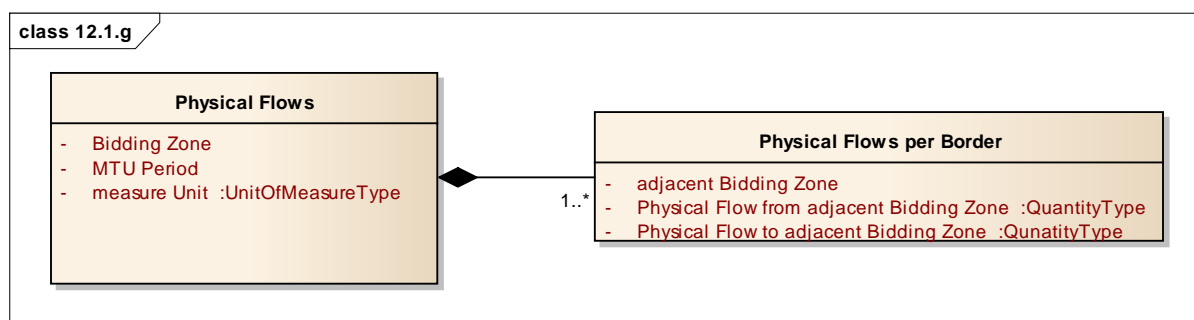
2427 - for each couple of Bidding Zones, for each Market Time Unit within the selected day, the
2428 capacity values per direction in each Bidding Zone

2429

7.24 PHYSICAL FLOWS [12.1.G]

7.24.1 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).

7.24.2 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 13th, 2012, between 10:00 and 10:30 UTC, the document describing the physical flows during this MTU Period must be submitted before March 13th, 2012, 11:30 UTC.

7.24.3 ASSUMPTIONS

There are no assumptions specific to this data item.

2454 7.24.4 INTEGRATION

- 2455 - Bidding Zones or countries shall be recognised by the platform
- 2456 - The Data Provider shall be consistent with the identified couple of Bidding Zones or
2457 countries
- 2458 - Data will be rejected if data provider configured as sending netted values sends non-netted
2459 values
- 2460 - Data will be rejected if data provider configured as sending non-netted values actually
2461 sends netted values (i.e. submits values in one direction only).

2462 7.24.5 MONITORING

- 2463 For a given couple of Bidding Zones or countries where Physical Flows are expected, the
2464 submission deadline described above shall be monitored for every MTU Period. If no data
2465 has been received, all declared Data Providers will be notified.

2466 7.24.6 PROCESSING

- 2467 If Data Provider is configured as submitting non-netted values for a given couple of Bidding
2468 Zones (or countries) and MTU period, platform shall calculate net value.
- 2469 If Data Provider is configured as submitting netted values, the absence of a value in a given
2470 direction and MTU period shall be treated as a zero value.
- 2471 Values from all senders (when applicable) are to be stored in the database, with the
2472 indication of the associated priority.

2473 7.24.7 PUBLICATION

2474 7.24.7.1 PUBLICATION BEHAVIOUR

- 2475 The following precedence rule applies, when more than one party is responsible for the
2476 submission of data:
- 2477 - For a given direction between a couple of Bidding Zones (or countries) and a given MTU
2478 Period, the platform shall publish the net value available from the party with the highest
2479 priority
- 2480 - If, for a given MTU Period, data is missing from the provider with the highest priority, then
2481 the net value from the Data Provider with the inferior priority shall be displayed if available
2482 (and so on if more than two providers).

2483 7.24.7.2 FILTERING AND SORTING CRITERIA

2484 Data shall be visually accessed by selecting the following:

2485 - Day (Selection is mandatory)

2486 - Country or Bidding Zone, alternatively couple of countries or Bidding Zones

2487

2488 7.24.7.3 DISPLAY

2489 This data shall be displayed in the following section:

2490 - **Cross-Border Physical Flows**

2491 The following attributes of data shall be displayed:

2492 - Title

2493 - Selected day

2494 - Measurement Unit

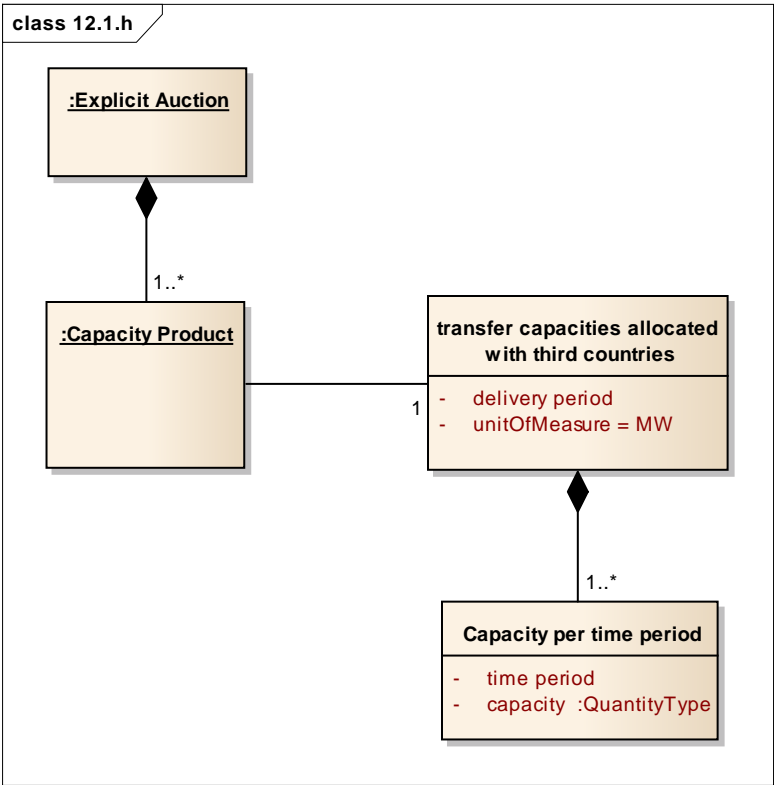
2495 - For each Bidding Zone or country couple, for each Market Time Unit within the selected
2496 day, the netted physical flow values in each direction

2497

7.25 TRANSFER CAPACITIES ALLOCATED WITH THIRD COUNTRIES [12.1.H]

7.25.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to not more than one auction. 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.

7.25.2 PRE-CONFIGURATION

- A list of third countries

2512 - If for a given explicit auction instance the In Area or Out Area of a capacity product is a third
2513 country, the data "Transfer Capacities allocated with third countries" shall be expected by the
2514 platform. Refer to chapter 7.26.1.2 for details on the configuration of an auction's capacity
2515 products.

2516 - For each capacity product, the unique allowed Data Provider is the one indicated by the
2517 Transmission Auction configuration. Refer to chapter 7.26.1.3 for details.

2518 - For each explicit auction instance, the submission deadline: One hour after end of the
2519 capacity allocation period.

2520 Submission deadline is the same for all the Auction's products.

2521 7.25.3 ASSUMPTIONS

2522 No specific assumptions apply to this data item.

2523 7.25.4 INTEGRATION

2524 - The Data Provider shall be consistent with the capacity product

2525 7.25.5 MONITORING

2526 The submission deadline shall be monitored for each explicit auction's capacity products that
2527 cover a third country.

2528 7.25.6 PROCESSING

2529 No processing is performed by the platform on this data item.

2530 7.25.7 PUBLICATION

2531 7.25.7.1 PUBLICATION BEHAVIOUR

2532 No particular behaviour applies to this data item.

2533 7.25.7.2 FILTERING AND SORTING CRITERIA

2534 Data shall be visually accessed by selecting the following:

2535 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover
2536 the Country will be used as filtering criteria)

2537 - Areas couple (Selection is Mandatory)

2538 - Direction (Selection is Optional)

2539 - Date or date range (Selection is mandatory)

2540 - capacity product (i.e. contract type), selection is optional

2541 7.25.7.3 DISPLAY

2542 This data shall be displayed in the following section:

2543 - **Transmission / Transfer capacities allocated with third countries**

2544 The following attributes of data shall be displayed:

2545 - Title

2546 - Areas name

2547 - Date or date range

2548 - Contract Type

2549 - Measurement Unit

2550 - Attributes of the applicable capacity product(s): contract type, classification category,
2551 classification sequence and allocated capacity value.

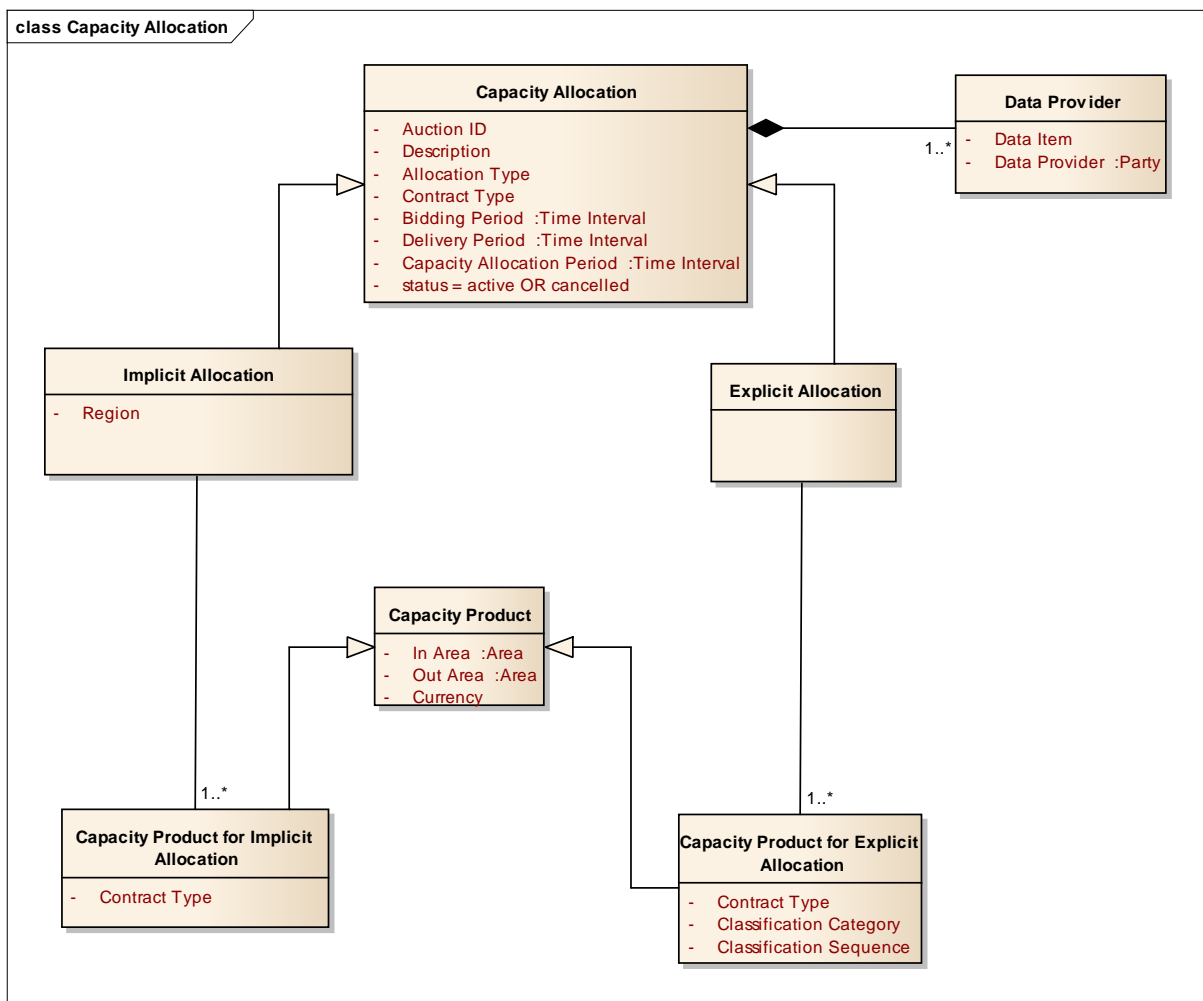
2552 If capacity values vary during the delivery period, it shall be possible to expand the view so
2553 that they are displayed as a curve and in a table.

7.26 CONFIGURATION OF TRANSMISSION CAPACITY ALLOCATION

7.26.1 DATA DESCRIPTION

7.26.1.1 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 explicit auctions, by default the allocation type is not specified but may in particular cases be “shadow auction” or “continuous”.

- 2566 For implicit allocations, optionally a Region may be indicated.
- 2567 For explicit allocations, optionally a Conducting Party may be declared.
- 2568 The Auction ID may never be modified once an Allocation has been created.
- 2569 Instances of capacity allocations have specific bidding, allocation and delivery periods.
- 2570 Allocations typically take place on a recurring basis, for example in December every year to
2571 sell capacity products for use during the following year (i.e. yearly products). The Contract
2572 Type determines the frequency, i.e. once a year, once a month, every day, etc.
2573 Exceptionally, there may also be non-recurring allocations, held at a single occasion only.
2574 For every allocation, it shall be possible to record the date(s) and time(s) when it is being
2575 held. It shall be possible to select the date(s) using a calendar.
- 2576 For recurring allocations, it shall be possible to record exceptions to the configuration that
2577 apply on a specific instance of the allocation (i.e. on a specific date). Examples of exceptions
2578 are extending the capacity allocation period, excluding or adding one or several capacity
2579 products from/to the capacity allocation or cancelling the whole capacity allocation instance.
- 2580 It shall be possible to cancel a capacity allocation instance. When a capacity allocation is
2581 cancelled, as a consequence platform will not expect any data submissions related to the
2582 capacity allocation or its products.

2583 7.26.1.2 CAPACITY PRODUCTS

- 2584 Each capacity allocation is associated with one or several capacity products. Each capacity
2585 product is described by the following mandatory attributes: In Area, Out Area, Currency and
2586 Contract Type. For implicit allocations, Contract Type must be Day-Ahead or Intraday. For
2587 products associated with explicit allocations, additionally the attributes Classification
2588 Category and Classification Sequence are mandatory.
- 2589 All capacity products associated with a given capacity allocation must have the same
2590 contract type as the capacity allocation, i.e. yearly products for a yearly auction only, etc.
- 2591 By default the capacity product will be applicable during the capacity allocation's Delivery
2592 Period. As a consequence, platform will expect data for the Capacity Product and
2593 corresponding Bidding Zones. When a capacity product exceptionally has been excluded
2594 from a capacity allocation instance²⁴, platform shall not expect any data submissions related
2595 to that product.

²⁴ Example: For the yearly auction held in December 2014 between two given bidding zones there will be no capacity product with classification category peak.

2596 7.26.1.3 DATA PROVIDERS

2597 For a transmission capacity allocation, as specified by the combination of Auction ID,
2598 Contract Type and capacity products, the relevant Data Providers must be configured as
2599 well. For each applicable data item, the unique Data Provider is to be selected.

2600 For implicit as well as explicit capacity allocations:

2601 - Offered Transfer Capacity [11.1]

2602 For implicit capacity allocations:

2603 - Net Positions [12.1.e]

2604 - Congestion Income [12.1.e]

2605 For explicit capacity allocations:

2606 - Use of the Transfer Capacity [12.1.a]

2607 - Auction revenue [12.1.a]

2608 - Total Capacity already Allocated [12.1.c]

2609 - Transfer Capacities Allocated with Third Countries [12.1.h]

2610 7.26.2 MONITORING

2611 By default, no monitoring will be performed on the submission of capacity allocation
2612 configuration. It shall be possible though to configure monitoring so that for a given
2613 combination of In and Out Area, Contract Type and Delivery Period, configuration of capacity
2614 allocation may be expected by the platform as of a certain date and time. Optionally, an end
2615 date and time may be specified.

2616 If configuration shall be expected, a recurring submission deadline must also be specified, as
2617 well as the unique data provider. Submission status of configuration data will be visible to
2618 privileged users only.

2619 7.26.3 CREATION OF CAPACITY ALLOCATION

2620 Capacity allocations may be created through machine-to-machine data submission and via
2621 human-to-machine submission. For human-to-machine submission, there shall be a
2622 webpage, where creation or modification of capacity allocations will require authentication²⁵.

²⁵ 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.

2623 Data Providers shall be permitted to create capacity allocations. Platform administrator in
2624 ENTSO-E shall be able to create and modify capacity allocations on behalf of Data
2625 Providers.

2626 When capacity allocation is created, the uniqueness of the ID shall be verified by checking
2627 that no other capacity allocation on platform with same ID already exists. Note that the
2628 assignment of ID assumes a manual procedure that is outside the scope of the central
2629 platform.

2630 When creating or modifying capacity allocations, the values of the following attributes shall
2631 be validated against list of permitted values held in platform's master data: Type, sub-type, In
2632 Area, Out Area, combination of In and Out Areas, Contract Type, Classification Category and
2633 Currency.

2634 When creating a capacity allocation via the webpage, it shall be possible to use an already
2635 defined capacity allocation as template when defining a new one.

2636 7.26.4 UPDATES TO CAPACITY ALLOCATIONS

2637 The Data Provider that created the capacity allocation may update the data at any time. ID
2638 will be used to match updated data to Auction.

2639 Platform shall validate that capacity allocation with quoted ID already exists. If not, update
2640 will be rejected.

2641 Platform will validate that Data Provider performing update is consistent with the Data
2642 Provider recorded for the capacity allocation. Platform administrator in ENTSO-E shall be
2643 able to update capacity allocation on behalf of Data Provider.

2644 Deletions are not foreseen under normal circumstances, but could be performed in
2645 exceptional situations by platform administrator in ENTSO-E.

2646 7.26.5 QUERIES OF REFERENCE DATA FOR CAPACITY ALLOCATIONS

2647 Data on capacity allocation shall be made available for visual inspection and download via
2648 web page.

2649 7.26.5.1 FILTERING AND SORTING CRITERIA

2650 It shall be possible to search for a capacity allocation by using ID as search criterion.

2651 Also, it shall be possible to retrieve several capacity allocations at the same time, by
2652 specifying the following filtering and sorting criteria:

2653 - Country: –Selection is optional. If selected, In and/or Out Areas that at least partially cover
2654 the Country will be used as filtering criteria

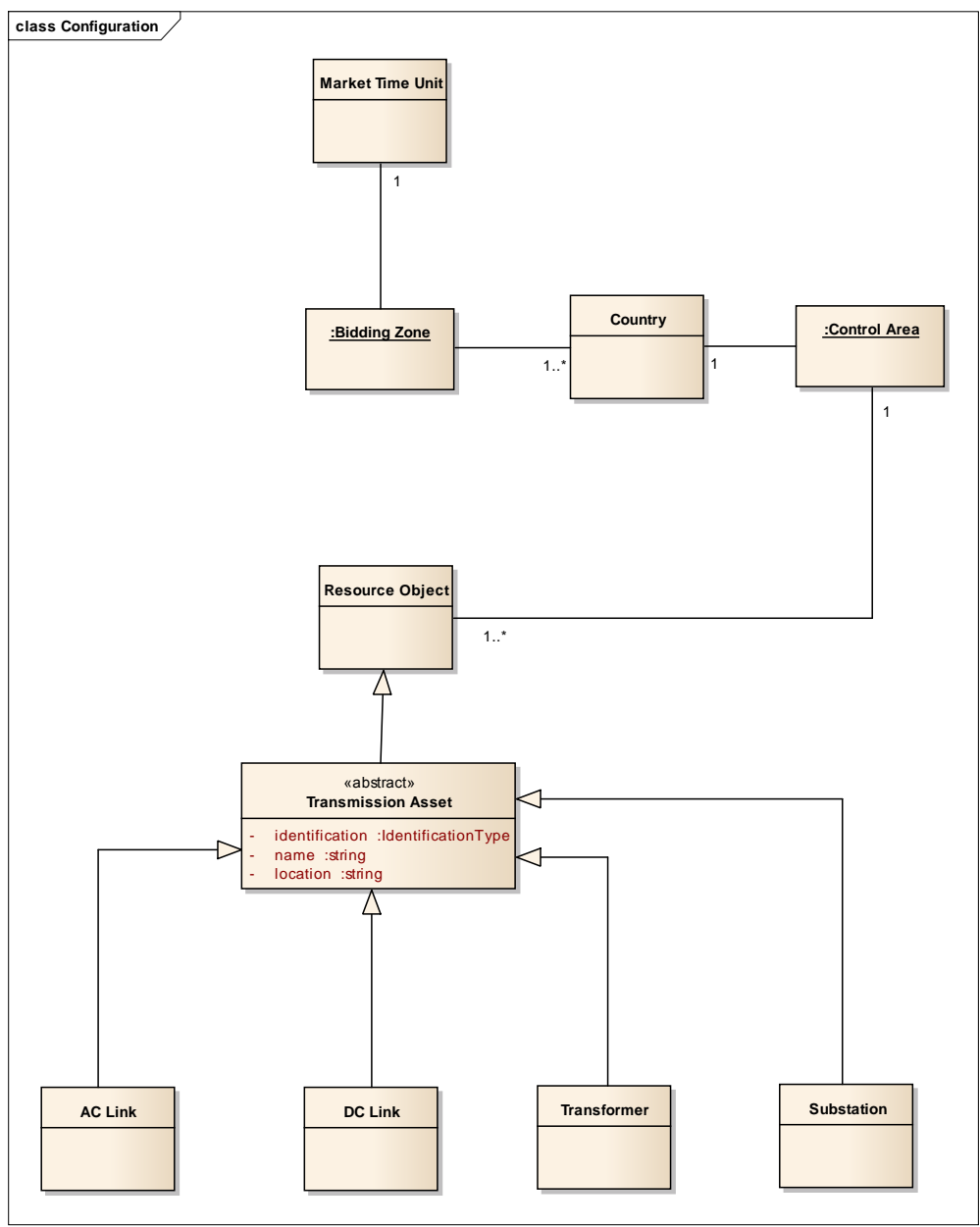
- 2655 - Area: Selection is mandatory, one or several may be chosen
- 2656 - Date: Selection is mandatory, one day or range may be chosen. By default the current date
2657 shall be used. This date or date range will be used to filter auctions by delivery period.
- 2658 - Auction type: Explicit or implicit, selection is optional
- 2659 - Contract type: Selection is optional
- 2660 **7.26.5.2 DISPLAY**
- 2661 This data shall be displayed in the following section:
- 2662 - **Transmission / Auctions**
- 2663 The following attributes of data shall be displayed:
- 2664 - Description
- 2665 - ID
- 2666 - Allocation Type: Explicit or implicit
- 2667 - Allocation sub-type (when applicable)
- 2668 - Conducting Party (when applicable)
- 2669 - Region (when applicable)
- 2670 - Effective Date
- 2671 - Bidding, Capacity Allocation and Delivery Period
- 2672 - Data Provider that created capacity allocation: Shall only be displayed towards
2673 authenticated users.
- 2674 - Capacity Products and their attributes
- 2675 - Clear indication when capacity allocation has been cancelled or capacity product excluded
- 2676 - For each applicable data item, the unique Data Provider: Shall only be displayed towards
2677 authenticated users
- 2678 Data shall be displayed in a Table.
- 2679

8 CONGESTION MANAGEMENT

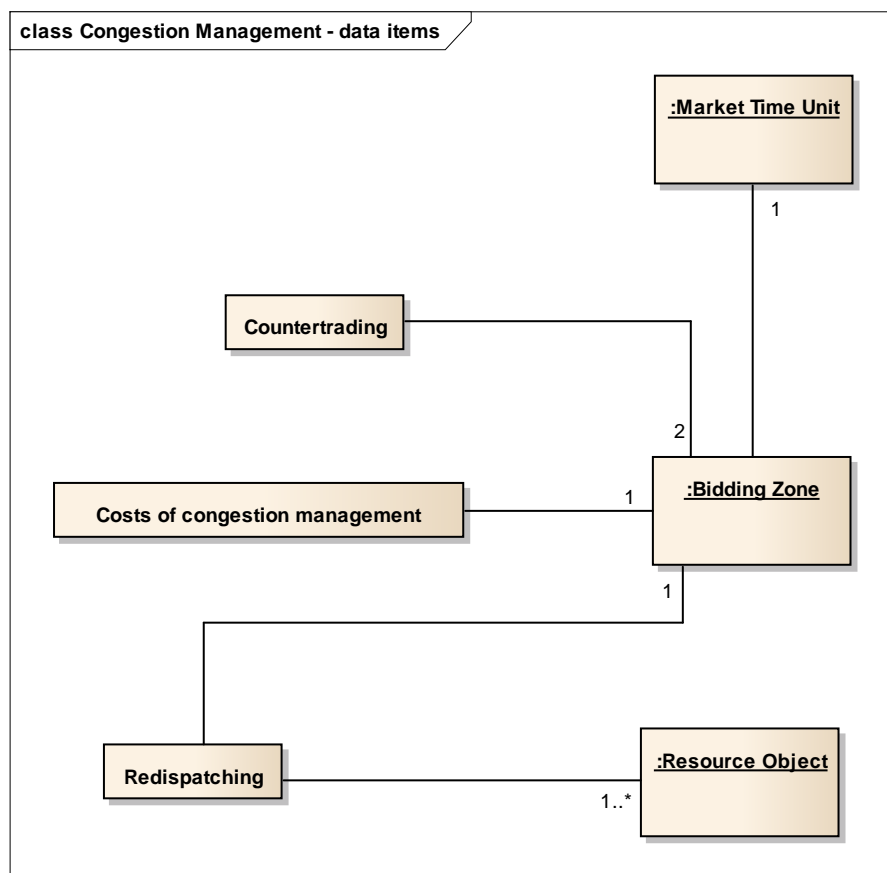
8.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

8.1.1 FUNDAMENTAL ENTITIES

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



2686 For Congestion Management, the following relations between the fundamental entities and
2687 the required information have been identified:



2688

2689 8.1.2 PRE-CONFIGURATION

2690 - The platform administrator at ENTSO-E shall pre-configure the platform with the following
2691 reference data:

2692 - [C-CGT-1] a list of Bidding Zones. This is the same configuration as for Generation, Load
2693 and Transmission

2694 - [C-CGT-2] for each Bidding Zone, the Market Time Unit. This is the same configuration as
2695 for Generation, Load and Transmission

2696 - [C-CGT-3] a list of redispatching actions: Production increase or decrease, load increase or
2697 decrease

2698 - [C-CGT-4] a list of countertrading actions: Cross-zonal exchange increase or decrease

2699 - [C-CGT-5] for each Control Area, the single authorized Data Provider, identified by a unique
2700 Code. This is the same configuration as for Generation and Load

2701 - [C-CGT-6] for each Bidding Zone, the Currency. This is the same configuration as for
2702 Transmission

2703 - [C-CGT-7] a list of Control Areas. This is the same configuration as for Generation and
2704 Load

2705 - [C-CGT-8] a list of countries and for each country, the corresponding Control Area(s). This
2706 is the same configuration as for Generation and Load

2707 - [C-CGT-9] a list of reasons for congestion management: "Load flow overload" and "Voltage
2708 level adjustment"

2709 8.1.3 DATA CONTAINER STATUS / DATA STATUS

2710 All data items follow the "None / Ready for publication" scheme.

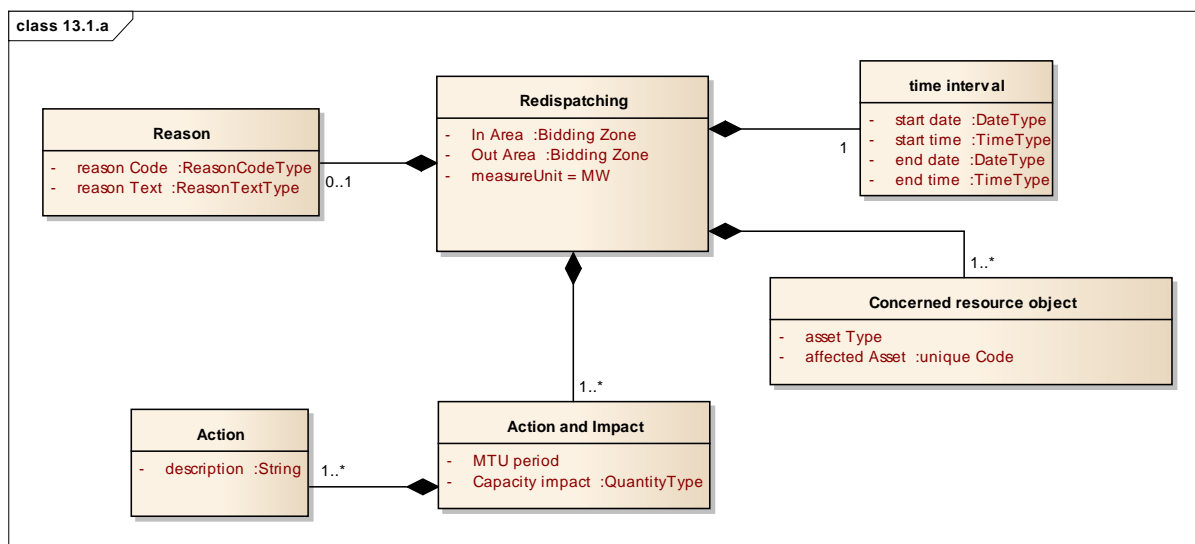
2711

2712

8.2 REDISPATCHING [13.1.A]

8.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone or couple of Bidding Zones²⁶, redispatching is described by start and end dates and times, a list of concerned resource objects and optionally a reason. For each MTU period during the time interval, one or several Actions and a Capacity Impact expressed in MW are specified.

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

8.2.2 PRE-CONFIGURATION

No specific pre-configuration applies to this data item.

8.2.3 ASSUMPTIONS

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

The concerned resource objects are located in the same single Control Area.

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

²⁶ If the impact affects one Bidding Zone only, In Area and Out Area will be populated with the same Bidding Zone.

2735 Data should be submitted at the latest one hour after the end of the MTU period (H+1).
2736 However no monitoring can be performed, due to the nature of the data.

2737
2738 Data Provider may choose to include in one single data submission values for a time interval
2739 longer than one MTU. The time interval would in this case necessarily be a multiple of the
2740 MTU.

2741 8.2.4 INTEGRATION

- 2742
- 2743 - Bidding Zones are recognised by platform
- 2744
- 2745 - Data Provider is consistent with Bidding Zone(s)
- 2746
- 2747 - Data Provider is consistent with concerned resource objects
- 2748
- 2749 - Concerned resource objects are recognised by the platform.
- 2750
- 2751 - Concerned resource objects are located within the Bidding Zone(s).
- 2752
- 2753 - Action is among the values prescribed by pre-configuration [C-CGT-3]
- 2754
- 2755 - Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 2756
- 2757 - Document should not be submitted before the beginning of the MTU. Reason being that this
2758 is ex-post information. This validation shall trigger a warning only.
- 2759
- 2760 The time interval in the submitted document is of one MTU at least and is a multiple of the
2761 MTU identified for the Bidding Zone as per [C-CGT-2].

2762 8.2.5 MONITORING

2763 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
2764 is performed. Submission deadlines are not relevant to this data item.

2765 8.2.6 PROCESSING

2766 No processing is performed on this data item.

2767 8.2.7 PUBLICATION

2768 8.2.7.1 FILTERING AND SORTING CRITERIA

2769 Data shall be visually accessed by selecting the following:

- 2770 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only
2771 those that partially or completely cover the Country)

2772 - Bidding Zone(s) (selection is mandatory, at least one must be selected)

2773 - Day or date range (selection is mandatory)

2774 8.2.7.2 DISPLAY

2775 This data shall be displayed in the following section:

2776 - **Congestion Management / Redispatching**

2777 The following attributes of data shall be displayed:

2778 - Bidding Zone(s)

2779 - Market Time Unit

2780 - Start and end dates and times

2781 - Measurement Unit

2782 - For each MTU period during the matching redispatching time intervals, the Action(s) and
2783 Capacity Impact.

2784
2785 - Reason is displayed if provided.

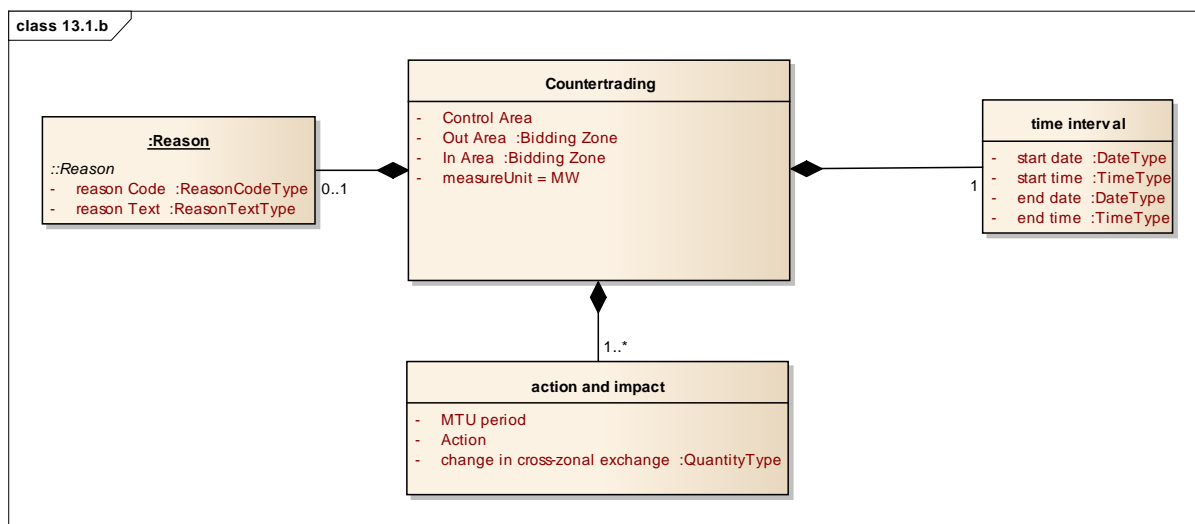
2786
2787 - A list of concerned resource objects shall be available, with links to pages on central
2788 platform providing more details on the resource objects.

2789
2790 Data shall be published as a table and as a chart.
2791

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.

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.

2816 8.3.4 INTEGRATION

- 2817 - Bidding Zones and Control Area are recognised by platform
- 2818
- 2819 - Data Provider is consistent with Control Area
- 2820
- 2821 - Action is among the values prescribed by pre-configuration [C-CGT-4]
- 2822
- 2823 Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 2824
- 2825 - Document should not be submitted before the end of the MTU. Reason being that this is ex-
- 2826 post information. This validation shall trigger a warning only.
- 2827
- 2828 The time interval in the submitted document is of one MTU at least and is a multiple of the
- 2829 MTU identified for the Bidding Zone as per [C-CGT-2].

2830 8.3.5 MONITORING

- 2831 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
- 2832 is performed. Submission deadlines are not relevant to this data item.

2833 8.3.6 PROCESSING

- 2834 No processing is performed on this data item.

2835 8.3.7 PUBLICATION

2836 8.3.7.1 FILTERING AND SORTING CRITERIA

- 2837 Data shall be visually accessed by selecting the following:
- 2838 - Country (selection is optional: If selected, couple of Bidding Zones will be filtered to include
- 2839 only those that partially or completely cover the Country)
- 2840 - Bidding Zone couple (selection is mandatory)
- 2841 - Day or date range (selection is mandatory)

2842 8.3.7.2 DISPLAY

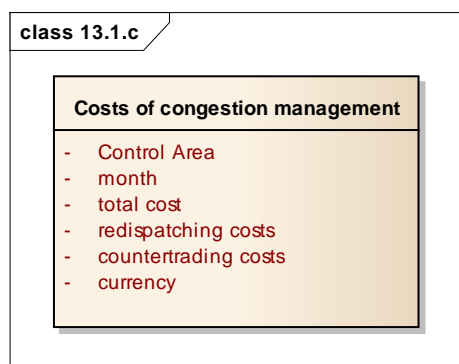
- 2843 This data shall be displayed in the following section:
- 2844 - **Congestion Management / Countertrading**
- 2845 The following attributes of data shall be displayed:
- 2846 - In and Out Areas

- 2847 - Market Time Unit
- 2848 - Start and end dates and times
- 2849 - Measurement Unit
- 2850 - Reason, if available
- 2851 - For each MTU period during the matching countertrading time intervals, the Action and
- 2852 change in cross-zonal exchange
- 2853
- 2854 Data shall be published as a table and as a chart.
- 2855

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]

2882 8.4.5 MONITORING

2883 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
2884 is performed. Submission deadlines are not relevant to this data item.

2885 8.4.6 PROCESSING

2886 Platform will per Control Area and month calculate costs for other remedial action, by
2887 subtracting from total cost the costs of redispatching and countertrading.

2888 8.4.7 PUBLICATION

2889 8.4.7.1 FILTERING AND SORTING CRITERIA

2890 Data shall be visually accessed by selecting the following:

2891 - Country (selection is optional: If selected, Control Area will be filtered to include only those
2892 that partially or completely cover the Country)

2893 - Control Area (selection is mandatory)

2894 - Month range (selection is mandatory)

2895 8.4.7.2 DISPLAY

2896 This data shall be displayed in the following section:

2897 - **Congestion Management / Costs**

2898 The following attributes of data shall be displayed:

2899 - Control Area

2900 - Currency

2901 - Selected month range

2902 - For each month, the total cost, costs of redispatching, costs of countertrading and costs for
2903 other remedial actions

2904 Data shall be published as a table and chart.

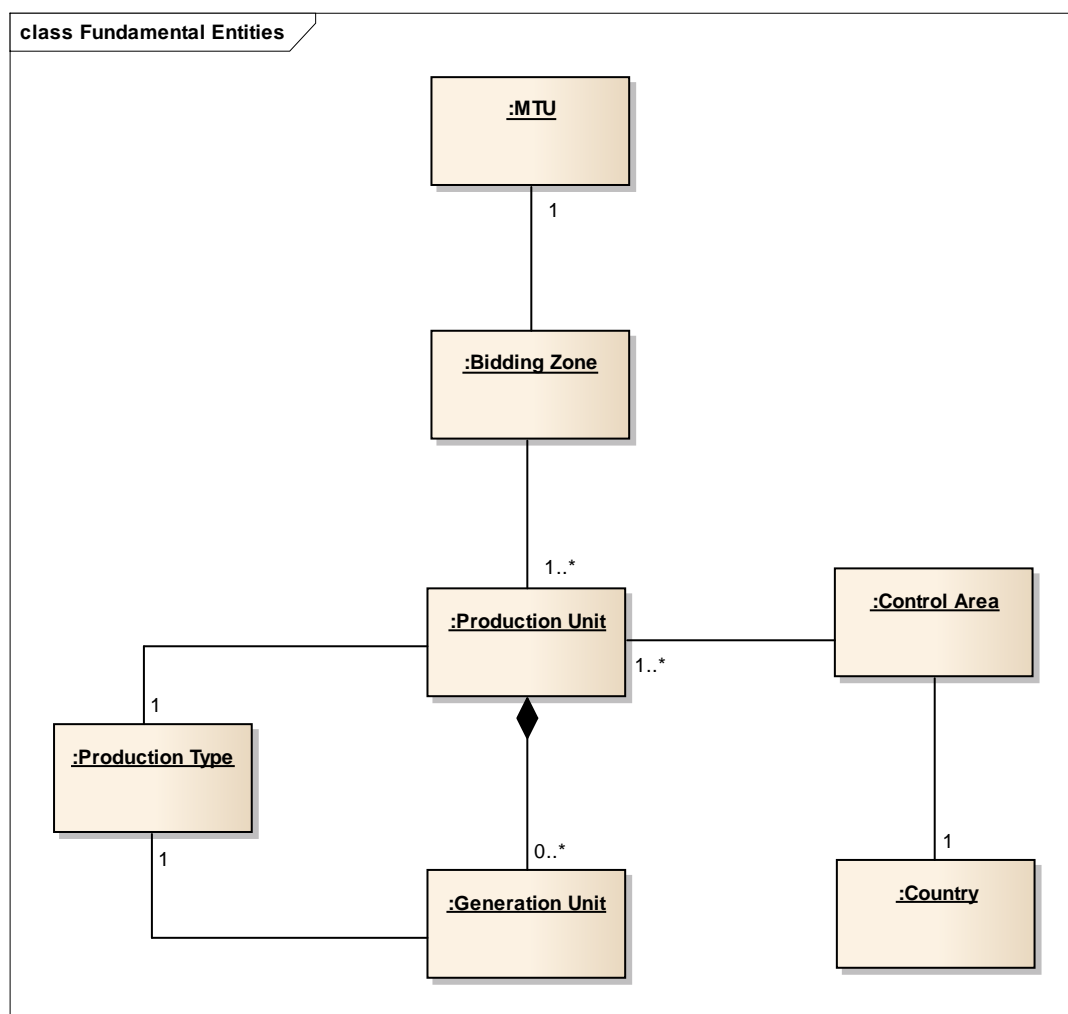
2905

9 GENERATION

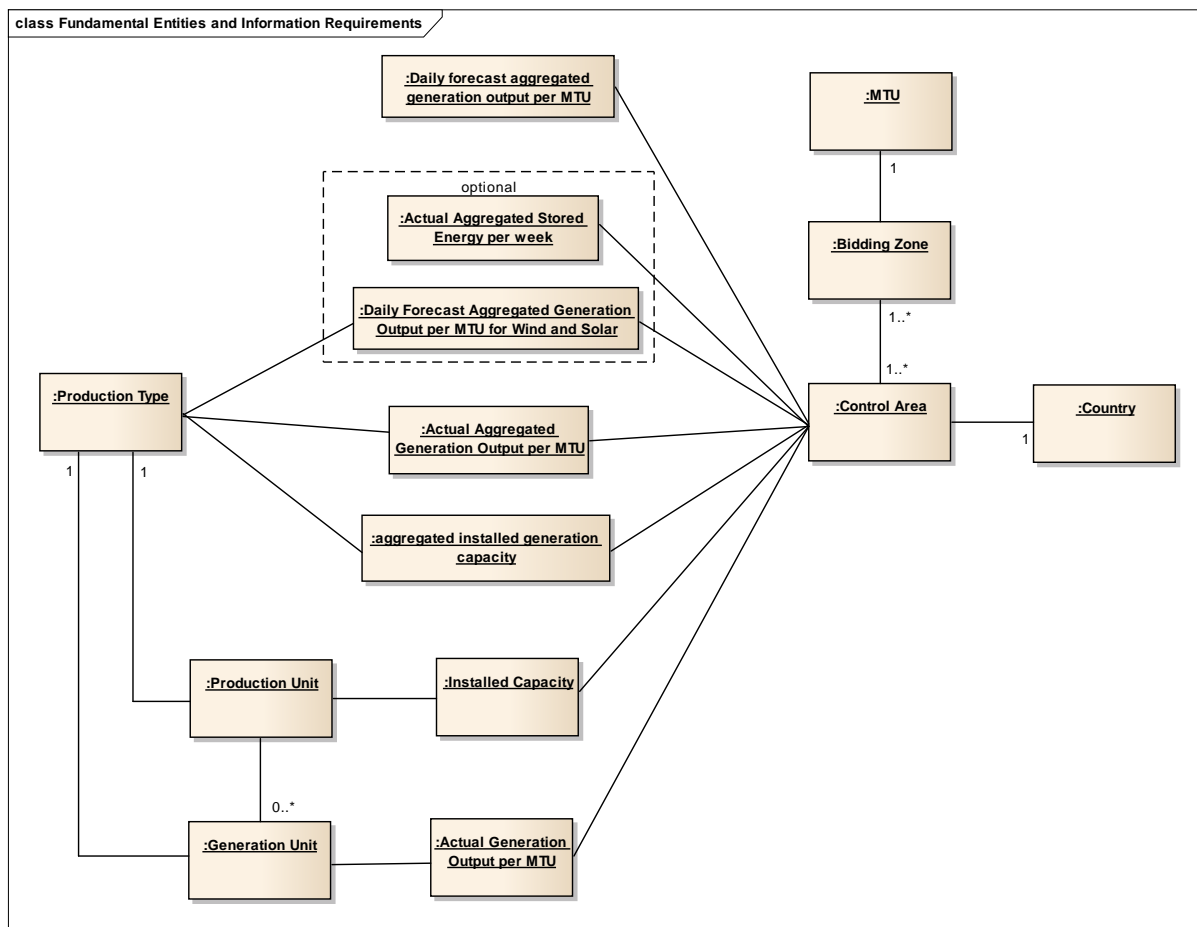
9.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

9.1.1 FUNDAMENTAL ENTITIES

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



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



2916

2917 Optional means here that submission of data is necessary only when power from
2918 corresponding Production Types exceed certain thresholds, as stipulated in [1].

2919 It must be possible to determine to which bidding zone and control area that generation data
2920 contained in submitted documents refer to²⁷.

2921 9.1.2 PRE-CONFIGURATION

2922 The platform administrator at ENTSO-E shall pre-configure application with the following
2923 reference data:

2924 - [C-GNR-1] a list of Bidding Zones

2925 - [C-GNR-2] a list of Production Types

2926 - [C-GNR-3] for each Bidding Zone the Market Time Unit, expressed as duration

²⁷ If format of data does not permit explicit declaration of Control Area it may be deduced from Sender.

- 2927 - [C-GNR-4] for each Bidding Zone, Control Area and data item subject to publication, the
2928 allowed Data Providers, identified by unique Codes²⁸
- 2929 - [C-GNR-7] a percentage tolerance that indicates how much scheduled or actual capacity
2930 may exceed installed capacity. This is a single value common to all Generation Units and will
2931 be set to 25%. If tolerance is exceeded, only a warning will be triggered.
- 2932 The following reference data will be managed by Data Providers:
- 2933 - [C-GNR-5] a list of Production and Generation Units, refer to chapter 9.9 for further details.
2934 This will be used for validation during the integration step.
- 2935 - [C-GNR-8] a list of Control Areas
- 2936 - [C-GNR-9] a list of countries and for each country, the corresponding Control Area(s)

2937 9.1.3 PUBLICATION

- 2938 For data items that do not require aggregation, data is published as soon as received, except
2939 for data item [16.1.a] where publication will be pending a specified delay.
- 2940 For data items that require aggregation, aggregated values only shall be published. Data is
2941 being published as soon as it is complete, i.e. when all relevant Data Providers have
2942 submitted their contributions. However, if by the submission deadline data is still pending
2943 from one or several Data Providers, the aggregated value shall be published with a clear
2944 indication that the final value is pending further data submissions.

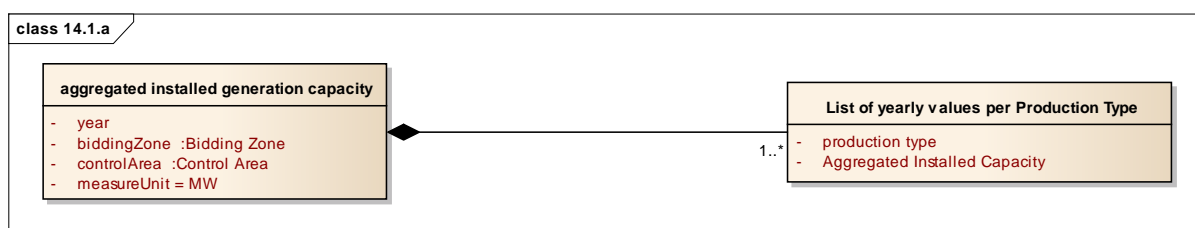
²⁸ Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

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 25th, 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.

2968 9.2.5 MONITORING

2969 For a given Bidding Zone and year data is expected. This is controlled by pre-configuration
2970 [PC14.1.A-1]. For every Bidding Zone and year at least one Capacity Value is expected for at
2971 least one Production Type. The submission deadline [PC14.1.A-2] will be monitored for
2972 compliance.

2973 For a given Bidding Zone, data is not considered complete before all Data Providers
2974 declared per pre-configuration [C-GNR-4] have submitted their data contributions. If by the
2975 deadline only some Data Providers have submitted data, the data will be considered
2976 “missing”.

2977 9.2.6 PROCESSING

2978 Submitted Capacity values shall be aggregated per Country, Bidding Zone, Production Type
2979 and year. Aggregation here means simply adding up the submitted Capacity values.

2980 Submitted Capacity values shall also be aggregated per Country, Bidding Zone and year for
2981 the purpose of calculating a grand total value for the whole Country or Bidding Zone,
2982 common to all Production Types.

2983 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

2984 9.2.7 DATA CONTAINER STATUS / DATA STATUS

2985 This data item follows the “None / Ready for publication / Missing” scheme.

2986 9.2.8 PUBLICATION

2987 9.2.8.1 FILTERING AND SORTING CRITERIA

2988 Data shall be visually accessed by selecting the following:

- 2989 - Country or Bidding Zone: selection is mandatory
- 2990 - Production Type: selection is optional, one or several may be chosen
- 2991 - Year: selection is mandatory, single year or a range may be chosen

2992 9.2.8.2 DISPLAY

2993 This data shall be displayed in the following section:

- 2994 - **Generation / Aggregated Installed Capacity**

2995 The following attributes of data shall be displayed:

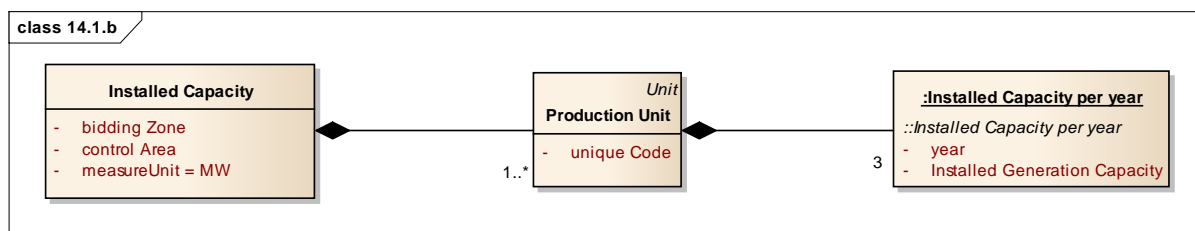
- 2996 - Country or Bidding Zone name
- 2997 - Capacity per Production Type for each year
- 2998 Grand total Capacity for each year shall also be displayed.
- 2999 User shall have the choice between displaying data in a Table, Map or Pie Chart.
- 3000

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 ≥ 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 Code²⁹.

9.3.2 PRE-CONFIGURATION

[14.1.B-1] This data item shall be configured as expected.

[14.1.B-2] For every bidding zone, there is a yearly submission deadline. Submission must be performed one week before the first year for which values are provided.

Example: if the first year for which values are provided is 2013, installed capacity values must be submitted before December 25th, 00:00 UTC, 2012.

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. Monitoring of submission deadline compliance will be performed against the present Master Data.

9.3.4 INTEGRATION

Not applicable, since covered by Master Data described in section 9.9.

²⁹ Whether EIC code or some other code will be used is left for the Implementation Guide to determine.

3022 9.3.5 MONITORING

3023 For a given Bidding Zone, Capacity values are expected for all Production Units that are in
3024 status Commissioned during at least some part of the year. This is controlled by pre-
3025 configuration [14.1.B-1]. The submission deadline [14.1.B-2] shall be monitored for
3026 compliance.

3027 9.3.6 PROCESSING

3028 No processing performed on this data item.

3029 9.3.7 DATA CONTAINER STATUS / DATA STATUS

3030 This data item follows the “None / Ready for publication / Missing” scheme.

3031 9.3.8 PUBLICATION

3032 9.3.8.1 FILTERING AND SORTING CRITERIA

3033 Data shall be visually accessed by selecting the following:

- 3034 - Country or Bidding Zone: selection is mandatory
- 3035 - Production Type: selection is optional, one or several may be chosen
- 3036 - Year: selection is mandatory, single year or a range to be chosen

3037 9.3.8.2 DISPLAY

3038 This data shall be displayed in the following section:

3039 - **Generation / List of Production Units and Installed Capacity**

3040 The following attributes of data shall be displayed:

- 3041 - Country or Bidding Zone name
- 3042 - Production Type, unique Code and Name
- 3043 - For every Production Unit and selected year(s), the installed capacity value(s)

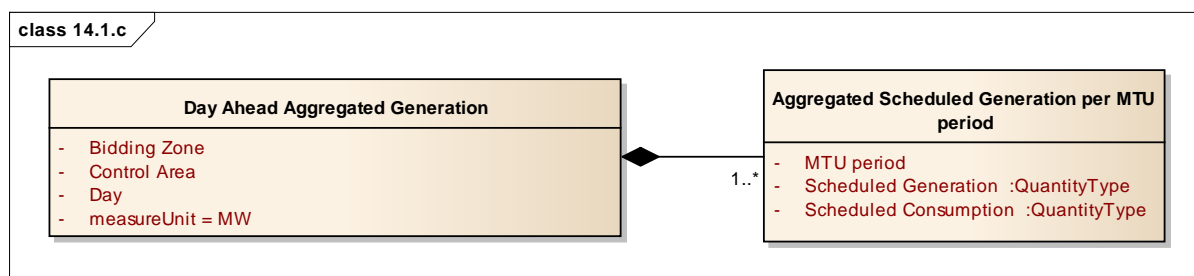
3044 Data shall be displayed in a Table.

3045 Links to pages on central platform with more details on each Production Unit shall be
3046 provided.

9.4 DAY AHEAD AGGREGATED GENERATION [14.1.c]

9.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

9.4.2 PRE-CONFIGURATION

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

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

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

9.4.3 ASSUMPTIONS

No specific assumptions apply to this data item.

9.4.4 INTEGRATION

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

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

9.4.5 MONITORING

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

3067 9.4.6 PROCESSING

3068 Submitted Scheduled Generation values shall be aggregated per Country, Bidding Zone and
3069 Market Time Unit period. Aggregation here means simply adding up the submitted
3070 Scheduled Generation values.

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

3072 9.4.7 DATA CONTAINER STATUS / DATA STATUS

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

3074 9.4.8 PUBLICATION

3075 9.4.8.1 FILTERING AND SORTING CRITERIA

3076 Data shall be visually accessed by selecting the following:

3077 - Country or Bidding Zone: selection is mandatory

3078 - Day: selection is mandatory, one or two consecutive days may be chosen

3079 - Start and end time: selection is mandatory, start and end time within the selected day

3080 9.4.8.2 DISPLAY

3081 This data shall be displayed in the following section:

3082 - **Generation / Day Ahead Aggregated Generation**

3083 The following attributes of data shall be displayed:

3084 - Country or Bidding Zone name

3085 - Measure Unit

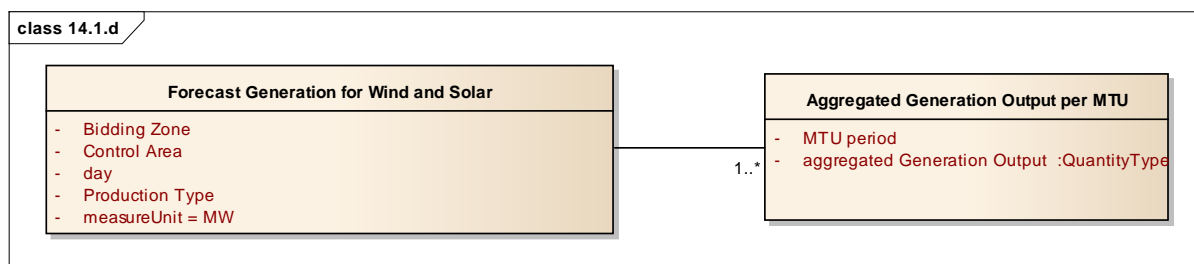
3086 - Selected Day(s)

3087 - For every MTU period within the selected day(s), the scheduled generation values, and
3088 consumption values (if available). User shall have the choice between displaying data in a
3089 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. Values are provided for the day ahead, 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, 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] An update shall be provided during day D at 08:00 CET.

9.5.3 ASSUMPTIONS

No specific assumptions apply to this data item.

9.5.4 INTEGRATION

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

3114 - The Data Provider shall be consistent with the identified Control Area

3115 9.5.5 MONITORING

3116 If for a given Bidding Zone and Production Type the data item has been configured as
3117 expected per [PC-14.1.d-1], compliance with submission deadlines [PC-14.1.d-2] and [PC-
3118 14.1.d-3] will be monitored.

3119 For a given Bidding Zone, data is not considered complete before all Data Providers have
3120 submitted their data contributions. If by the deadline only some Data Providers have
3121 submitted data, the data will be considered “missing”.

3122 9.5.6 PROCESSING

3123 Submitted Scheduled Values shall be aggregated per Country, Bidding Zone, Production
3124 Type (wind onshore, wind offshore and solar, respectively) and Market Time Unit period.
3125 Aggregation here means simply adding up the submitted Scheduled Values.

3126 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3127 9.5.7 DATA CONTAINER STATUS / DATA STATUS

3128 This data item follows the “None / Ready for publication / Missing” scheme.

3129 9.5.8 PUBLICATION

3130 9.5.8.1 FILTERING AND SORTING CRITERIA

3131 Data shall be visually accessed by selecting the following:

3132 - Country or Bidding Zone: selection is mandatory

3133 - Production Type: wind onshore, wind offshore or solar, selection is mandatory, one or
3134 several may be chosen. By default all are chosen

3135 - Day: selection is mandatory, one or two consecutive days may be chosen

3136 - Start and end time: must be within the selected day(s) and selection is mandatory

3137 9.5.8.2 DISPLAY

3138 This data shall be displayed in the following section:

3139 - **Generation / Day Ahead Generation Forecasts for Wind and Solar**

3140 The following attributes of data shall be displayed:

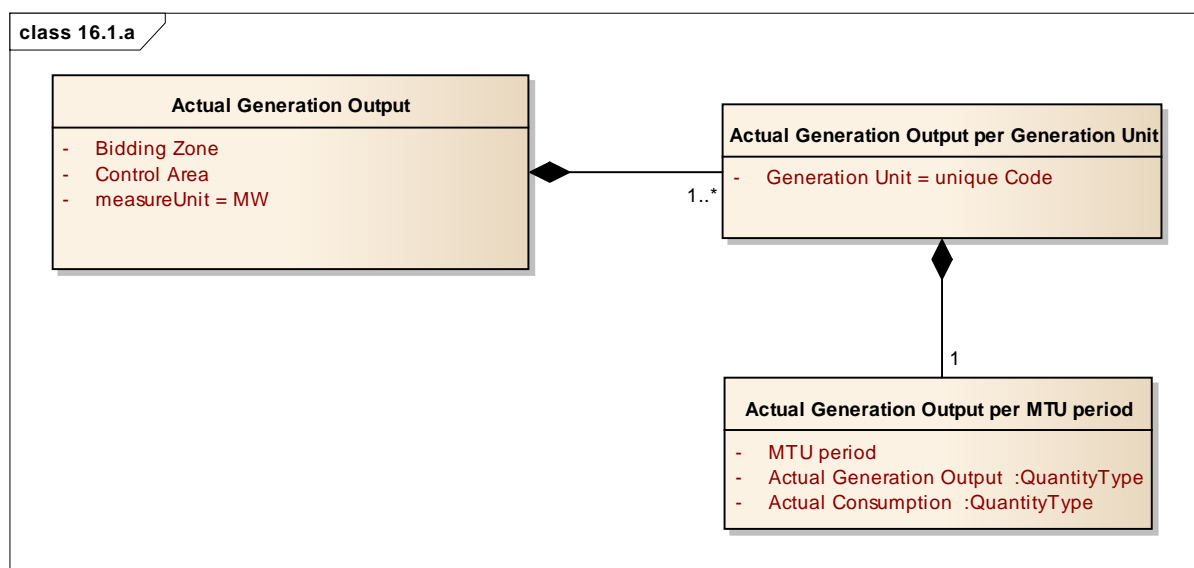
- 3141 - Country or Bidding Zone name
- 3142 - Measure Unit
- 3143 - Selected day(s)
- 3144 - For the selected Production Type(s), generation forecast values for each MTU period within
- 3145 the selected start and end dates and times
- 3146 User shall have the choice between displaying data in a Table or in a Chart.
- 3147

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 ≥ 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

3167 monitoring described in the next sections. If installed capacity has not been recorded in the
3168 platform, the validation will trigger a warning and monitoring will not produce any notification
3169 about missing data.

3170 Data Provider may choose to include in one single data submission values for a time interval
3171 longer than one MTU. The time interval would in this case necessarily be a multiple of the
3172 MTU.

3173 9.6.4 INTEGRATION

3174 - Bidding Zone and Control Area shall be recognised by the platform

3175 - The Data Provider shall be consistent with the identified Control Area and Generation Unit

3176 - Document should not be submitted before the end of the MTU period. Reason being that
3177 this is ex-post information. This validation shall trigger a warning only. The warning may be
3178 suppressed completely by changing configuration.

3179 - The Codes that identify Generation Units must already exist in the platform. This is
3180 controlled by pre-configuration [C-GNR-5].

3181 - Generation Unit must be within the Control Area. This shall be validated against the
3182 Generation Unit reference data described in chapter 9.9.

3183 - For each Generation Unit, it shall be validated that the actual generation output does not
3184 exceed the Installed Capacity, recorded for the same year, by more than the percentage
3185 tolerance expressed in [C-GNR-7]. Tolerance currently set to 25%. This validation will trigger
3186 a warning only.

3187 The time interval in the submitted document is of one MTU at least and is a multiple of the
3188 MTU identified for the Bidding Zone as per [C-GNR-3].

3189 9.6.5 MONITORING

3190 For a given Bidding Zone and MTU period, actual generation output is expected. This is
3191 controlled by pre-configuration [PC-16.1.a-1]. This data is expected for all Generation Units
3192 with an installed generation capacity ≥ 100 MW and that are in status Commissioned during
3193 the MTU period. The submission deadline [PC-16.1.a-2] will be monitored for compliance.

3194 9.6.6 PROCESSING

3195 No further processing is performed on this data item.

3196 9.6.7 DATA CONTAINER STATUS / DATA STATUS

3197 The ex-post data item applies the “none / waiting for publication x 2 / ready for publication /
3198 missing” scheme.

3199 9.6.8 PUBLICATION

3200 9.6.8.1 FILTERING AND SORTING CRITERIA

3201 Data shall be visually accessed by selecting the following:

3202 - Country or Bidding Zone: selection is mandatory

3203 - Production Type: selection is optional, one or several may be chosen.

3204 - Day: selection is mandatory, one or two consecutive days may be chosen

3205 - Start and end time: selection is mandatory and must be within the selected day(s)

3206 9.6.8.2 DISPLAY

3207 This data shall be displayed in the following section:

3208 - **Generation / Actual Generation per Generation Unit**

3209 The following attributes of data shall be displayed:

3210 - Country or Bidding Zone name

3211 - Production Type, Code and Name of every Generation Unit

3212 - selected day(s)

3213 - For every Generation Unit, the actual generation output and actual consumption, if
3214 available, per MTU period within the selected start and end dates and times

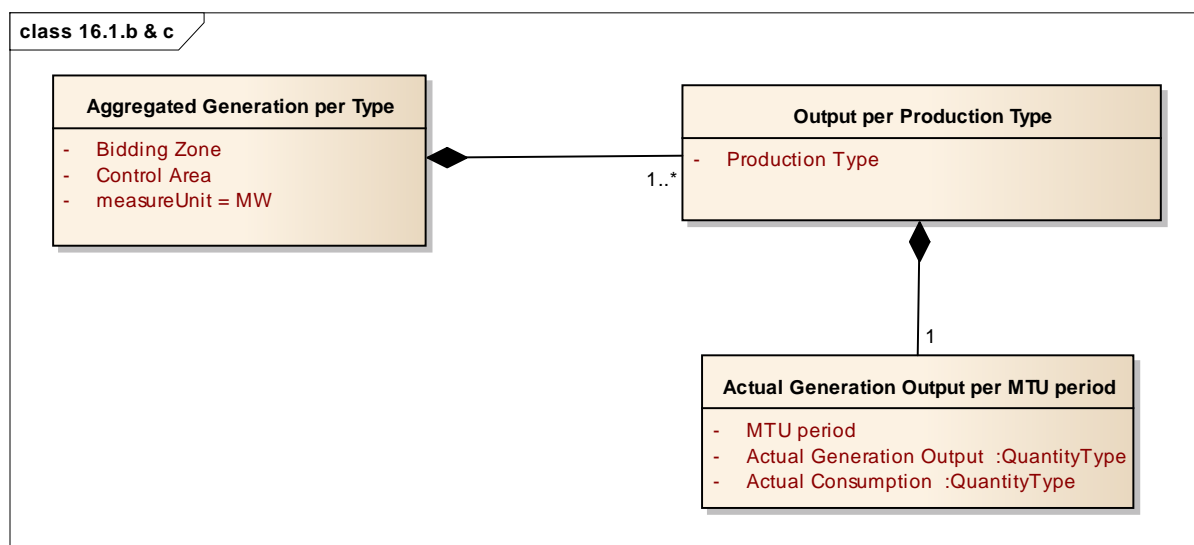
3215 Data shall be displayed in a Table.

3216 Links shall be provided to pages on central platform that provide additional details on each
3217 Generation Unit.

3218 9.7 AGGREGATED GENERATION PER TYPE [16.1.B&C]

3219 9.7.1 DATA DESCRIPTION

3220 This item can be described by the following class diagram:



3221
3222 For a given Bidding Zone, Control Area and a given Production Type, there shall be an
3223 Aggregated Generation Output per Market Time Unit (MTU) period. Common to all
3224 Production Types there is a fixed measure Unit (MW).

3225 Optionally, power consumed by production/generation units may be included.

3226 Note that duration of MTU depends on Bidding Zone.

3227 9.7.2 PRE-CONFIGURATION

3228 [PC-16.1.bc-1] This data item shall be configured as expected.

3229 [PC-16.1.bc-2] For every Bidding Zone and MTU period there is a submission deadline.
3230 Submission must be performed not later than one hour after the end of the MTU period.

3231 *Example: If the MTU duration in the Bidding Zone is 15 minutes, then the document that*
3232 *covers the time 14:00-14:15 must be submitted by 15:15.*

3233 9.7.3 ASSUMPTIONS

3234 There is no requirement to configure per production type whether data is expected or not.

3235 Data Provider may choose to include in one single data submission values for a time interval
3236 longer than one MTU. The time interval would in this case necessarily be a multiple of the
3237 MTU.

3238 9.7.4 INTEGRATION

3239 - Bidding Zone and Control Area shall be recognised by the platform

3240 - Production Type shall be recognised by the platform

3241 - The Data Provider shall be consistent with the identified Control Area

3242 - Document may not be submitted before the end of the MTU period. Reason being that this
3243 is ex-post information. This validation shall trigger a warning only. The warning may be
3244 suppressed completely by changing configuration.

3245 The time interval in the submitted document is of one MTU at least and is a multiple of the
3246 MTU identified for the Bidding Zone as per [C-GNR-3].

3247 9.7.5 MONITORING

3248 For this data item, data is expected. This is controlled by pre-configuration [PC-16.1.bc-1].
3249 For a given Bidding Zone and MTU period an actual aggregated generation output value is
3250 expected for at least one Production Type. The submission deadline [PC-16.1.bc-2] will be
3251 monitored for compliance.

3252 For a given Bidding Zone, data is not considered complete before all Data Providers
3253 declared per pre-configuration [C-GNR-4] have submitted their data contributions. If by the
3254 deadline only some Data Providers have submitted data, the data will be considered
3255 “missing”.

3256 9.7.6 PROCESSING

3257 Submitted actual generation values shall be aggregated per Country, Bidding Zone,
3258 Production Type and MTU period. Aggregation here means simply adding up the submitted
3259 actual generation values.

3260 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3261 9.7.7 DATA CONTAINER STATUS / DATA STATUS

3262 The ex-post data item applies the “none / waiting for publication / ready for publication /
3263 missing” scheme.

3264 9.7.8 PUBLICATION

3265 9.7.8.1 FILTERING AND SORTING CRITERIA

3266 Data shall be visually accessed by selecting the following:

- 3267 - Country or Bidding Zone: selection is mandatory
- 3268 - Production Type: selection is optional, one or several may be chosen.
- 3269 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3270 - Start and end time: selection is mandatory and must be within the selected day(s)

3271 9.7.8.2 DISPLAY

3272 This data shall be displayed in the following section:

3273 - **Generation / Actual Aggregated Generation Output per Production Type**

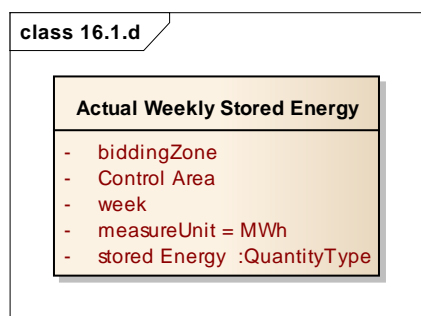
3274 The following attributes of data shall be displayed:

- 3275 - Country or Bidding Zone name
- 3276 - Selected day(s)
- 3277 - For the selected Production Type(s), for each MTU period within the selected start and end
- 3278 dates and times, the actual aggregated generation output and consumption, if available
- 3279 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

3301 - Submission shall not be performed before the end of the week W. This validation shall
3302 trigger a warning only. The warning may be suppressed completely by changing
3303 configuration.

3304 9.8.5 MONITORING

3305 If for a given Bidding Zone the data item has been configured as expected as per [PC-
3306 16.1.d-1], compliance with submission deadline [PC-16.1.d-2] will be monitored. For a given
3307 Bidding Zone, data is not considered complete before all Data Providers have submitted their
3308 data contributions. If by the deadline only some Data Providers have submitted data, the
3309 data will be considered “missing”.

3310 9.8.6 PROCESSING

3311 Submitted Stored Energy Values shall be aggregated per Country and Bidding Zone.
3312 Aggregation here means simply adding up the submitted Stored Energy Values.
3313 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3314 9.8.7 DATA CONTAINER STATUS / DATA STATUS

3315 This is an ex-post data item that applies the “none / waiting for publication x 2 / ready for
3316 publication / missing” scheme.

3317 9.8.8 PUBLICATION

3318 9.8.8.1 FILTERING AND SORTING CRITERIA

3319 Data shall be visually accessed by selecting the following:
3320 - Country or Bidding Zone: selection is mandatory
3321 - Week: selection is mandatory, a single week or a range (from – to) may be chosen

3322 9.8.8.2 DISPLAY

3323 This data shall be displayed in the following section:
3324 - **Generation / water reservoirs and hydro storage plants**
3325 The following attributes of data shall be displayed:
3326 - Country or Bidding Zone name
3327 - Measure Unit
3328 - selected week(s)

3329 - Stored Energy Values for the selected week(s) and the same week(s) during previous year

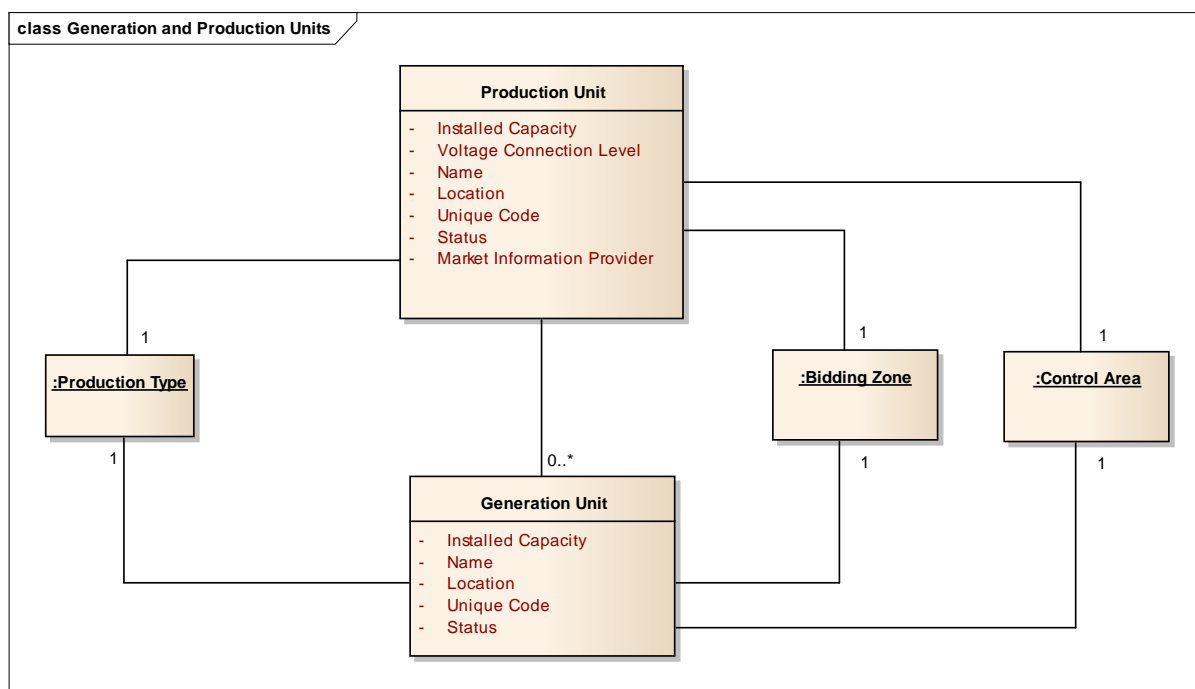
3330 User shall have the choice between displaying data in a Table or in a Chart.

3331

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 Cancelled³⁰. 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.

Permitted Voltage Connection Levels are defined in a list of reference data.

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.

³⁰ This could be useful in a scenario where a project to deploy a Unit is curtailed.

3348 Generation Unit may be associated with a different Control Area or Bidding Zone than the
3349 Production Unit that it belongs to.

3350 Alignment of Production Type or Status between Production Unit and its Generation Unit(s)
3351 will not be enforced by the platform.

3352 Data Provider is assumed to be the same for the Production Unit and its Generation Unit(s).

3353 Location is a free text field – guidelines regarding its content to be specified by [3].

3354 Platform will not aggregate installed capacity for generation units.

3355 Platform will not validate installed capacity of production unit against installed capacity of its
3356 generation units.

3357 9.9.3 CREATION OF GENERATION AND PRODUCTION UNITS

3358 Generation and Production Units may be created one by one or several in one go. There
3359 shall be a webpage to this end, where creation or modification of Generation and Production
3360 Units will require authentication. Additionally, a machine-to-machine interface shall be
3361 available, based on EDI mechanism.

3362 Platform administrator in ENTSO-E shall be able to create and modify Generation and
3363 Production Units on behalf of Data Providers.

3364 When Generation or Production Unit is created, the uniqueness of the Code shall be verified
3365 by checking that no other Generation or Production Unit on platform with same Code already
3366 exists.

3367 Note that the assignation of unique Code assumes a manual procedure that is outside the
3368 scope of the central platform.

3369 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3370 Production Type shall be validated against the list of Production Types [C-GNR-2].

3371 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8]

3372 9.9.4 UPDATES TO GENERATION AND PRODUCTION UNITS

3373 The Data Provider associated with the Generation or Production Unit may update the data at
3374 any time. Code will be used to match updated data to Generation or Production Unit.

3375 Platform shall validate that Generation or Production Unit with quoted Code already exists. If
3376 not, update will be rejected.

3377 Platform will validate that Data Provider performing update is consistent with the Data
3378 Provider recorded for the Production Unit.

3379 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3380 Production Type shall be validated against the list of Production Types [C-GNR-2].

3381 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8].

3382 Deletions are not foreseen under normal circumstances, but could be performed in
3383 exceptional situations by platform administrator in ENTSO-E.

3384 9.9.5 QUERIES OF REFERENCE DATA FOR GENERATION AND PRODUCTION 3385 UNITS

3386 Data on Generation and Production Units shall be made available for visual inspection and
3387 download via web page.

3388 9.9.5.1 FILTERING AND SORTING CRITERIA

3389 It shall be possible to search for Generation or Production Unit by using Code as search
3390 criterion.

3391 Also, it shall be possible to retrieve several Generation and Production Units at the same
3392 time, by specifying the following filtering and sorting criteria:

3393 - Country or Bidding Zone: selection is mandatory

3394 - Production Type: selection is optional, one or several may be chosen

3395 - Status: selection is optional, by default set to Commissioned

3396 - Effective Date: selection is optional, one day or from-to range may be chosen. By default
3397 the current date shall be used

3398 9.9.5.2 DISPLAY

3399 This data shall be displayed in the following section:

3400 - **Generation / Generation and Production Units**

3401 The following attributes of data shall be displayed:

3402 - Country or Bidding Zone

3403 - Effective Date

3404 - List of Production Units, with their Installed Capacity, Production Type, Voltage Connection
3405 Level, Name, Location, Unique Code and Status. Data Provider shall only be displayed
3406 towards authenticated users.

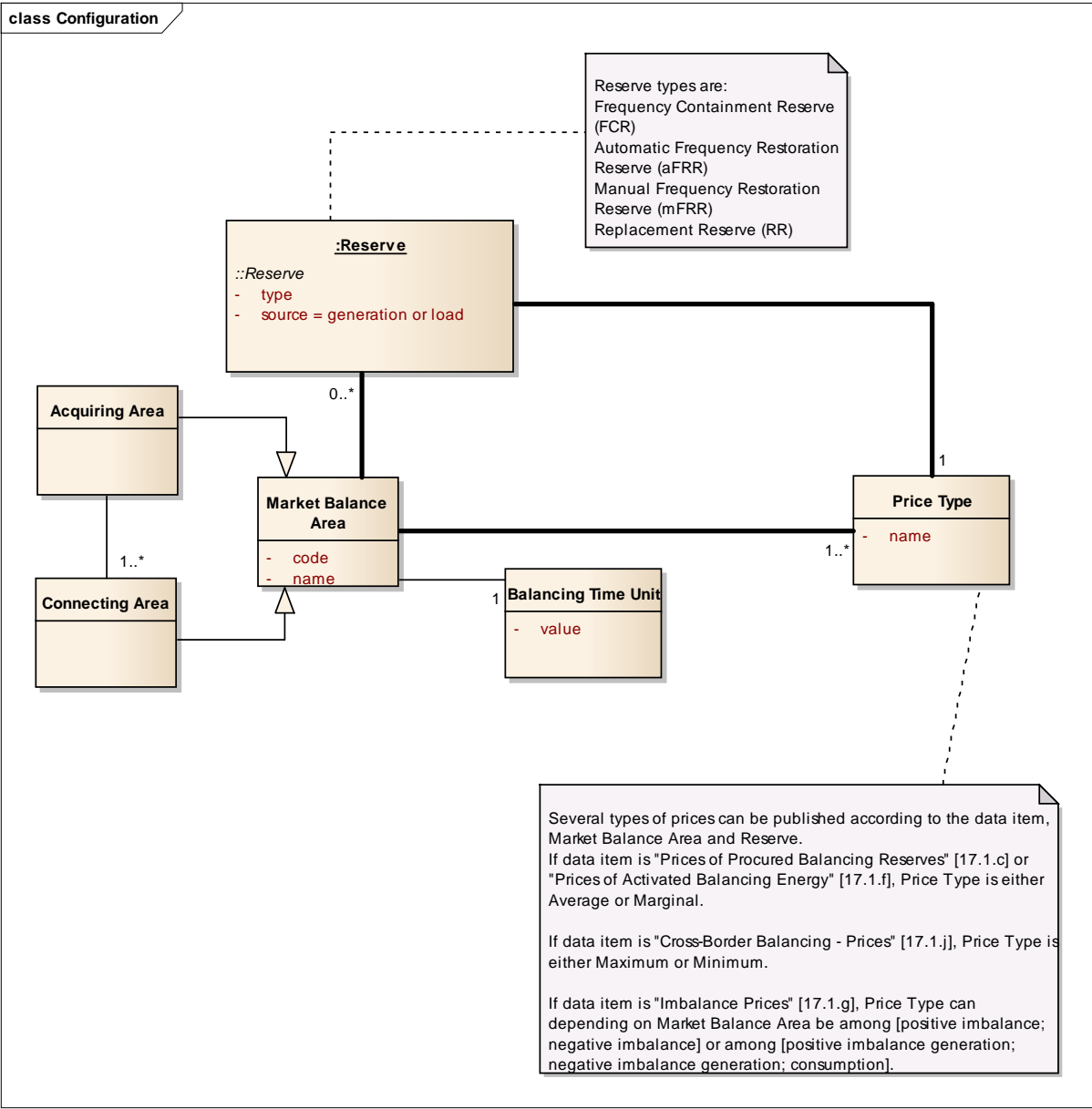
- 3407 - For each Production Unit, the associated Generation Unit(s) with their Installed Capacity,
3408 Production Type, Name, Location, Unique Code and Status.
3409 Data shall be displayed in a Table.

3410 10BALANCING

3411 10.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

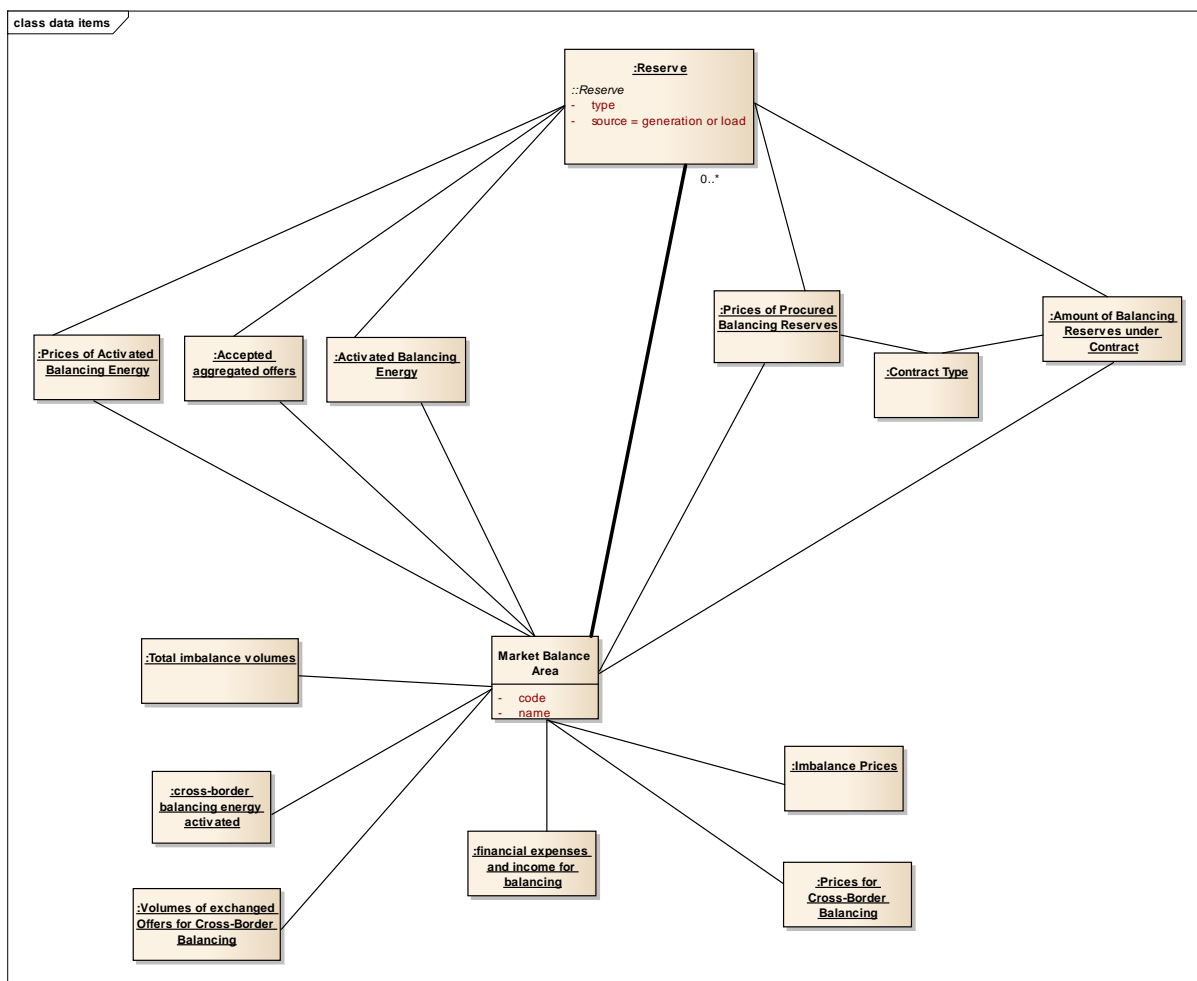
3412 10.1.1 FUNDAMENTAL ENTITIES

3413 The following class diagram describes the fundamental entities to be taken into account
3414 within the scope of this document in order to pre-configure the platform.



3415

- 3416 • All information regarding Balancing is given per **Market Balance Area**. For most data
3417 items, there is a set of applicable Reserves in each Market Balance Area. But in the
3418 cases of the data items “Imbalance Prices” [17.1.g], “Total Imbalance Volumes” [17.1.h]
3419 and “Financial Expenses and Income for Balancing” [17.1.i] the Reserves are not
3420 relevant.
- 3421 • The **Reserve** is of different **Types**. Reserve may be further differentiated by source; load
3422 or generation. However this distinction is mandatory only for data item “Contracted
3423 Balancing Reserves” [17.1.b].
- 3424 • The **Balancing Time Unit** is dependent on the Market Balance Area
- 3425 • The **Type of Price** depends on the Market Balance Area and for some data items
3426 additionally also on the Reserve
- 3427 • For the data items “Imbalance Prices” [17.1.g], the price in question is an imbalance
3428 price. Imbalance prices generally concern both generation and consumption but in certain
3429 Market Balance Areas, there is a distinction to be made between imbalance prices for
3430 generation and imbalance prices for consumption (in which case there is one price for
3431 consumption, whatever the direction, and two prices – one upwards and one downwards
3432 for generation)
- 3433 • Cross-border balancing is a balancing scheme where a Market Balance Area (**Acquiring**
3434 **Area**) can receive bids for activation coming from other Market Balance Areas
3435 (**Connecting Areas**)
- 3436 • The Balancing Time Unit for cross-border balancing is dependent on the acquiring Market
3437 Balance Area.



10.1.2 PRE-CONFIGURATION

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

- [C-BLC-1] a list of Reserves

- [C-BLC-3] for each data item a separate list of relevant Market Balance Areas

- [C-BLC-4] for select data items, a list of applicable Reserves in each Market Balance Area

- [C-BLC-5] a list of Price Types and their dependencies with the data item or combination of data item, Market Balance Area and Contract Type³¹

³¹ The dependency on data item and Market Balance Area is relevant for data item "Imbalance Prices" [17.1.g] only. Dependency on Market Balance Area and Contract Type is relevant for data item "Prices of Procured Balancing Reserves" [17.1.c] only.

3447 - [C-BLC-6] a list of Balancing Time Units and their dependencies with the Market Balance
3448 Area

3449 - [C-BLC-7] for each Market Balance Area, its qualification as a potential acquiring Market
3450 Balance Area and if so, the list of applicable connecting Market Balance Areas

3451 - [C-BLC-8] a list of Contract Types. The same list as for Transmission applies, refer to
3452 chapter 7.1.6

3453 - [C-BLC-9] for each Market Balance Area, the currency

3454 - [C-BLC-10] for each couple of acquiring and connecting Market Balance Areas, the
3455 currency for cross-border balancing activation. This is used in data item [17.1.j]

3456 - [C-BLC-11] for each Market Balance Area, the country or list of countries that it covers, to
3457 facilitate publication of data per country

3458 10.1.3 ASSUMPTIONS

3459 No specific assumptions apply to the data items in the Balancing domain.

3460 10.1.4 INTEGRATION

3461 Data Provider shall in one single data submission be able to provide data for a time interval
3462 longer than one Balancing Time Unit. The time interval would in this case necessarily be a
3463 multiple of the Balancing Time Unit. Similarly, for data item Financial Expenses and Income
3464 for Balancing [17.1.i], the time interval may encompass several months.

3465 10.1.5 DATA CONTAINER STATUS / DATA STATUS

3466 All data items, with the exception of [17.1.b] and [17.1.c] follow the “none / waiting for
3467 publication / published / missing” scheme if properly declared as expected and if the
3468 submission deadline has been configured.

3469 10.1.6 PUBLICATION

3470 For all data items except [17.1.a], data shall be available on web site in all three formats;
3471 table, map and chart.

3472 10.2 RULES ON BALANCING [17.1.A]

3473 10.2.1 DATA DESCRIPTION

3474 This data item consists of a PDF file per Market Balance Area. No monitoring will be
3475 performed.

3476 10.2.2 PRE-CONFIGURATION

3477 ENTSO-E administrator shall be able to manage the reference data that indicates the single
3478 allowed Data Provider per Market Balance Area for this data item.

3479 10.2.3 INTEGRATION

3480 Data Provider shall on the platform's web site, on the same page where these reports are
3481 published, be able to select a Market Balance Area and upload a PDF file.

3482 Platform shall validate combination of Market Balance Area and Data Provider.

3483 10.2.4 PUBLICATION

3484 10.2.4.1 PUBLICATION BEHAVIOUR

3485 Documents are published immediately after upload.

3486 All versions shall be published.

3487 10.2.4.2 FILTERING AND SORTING CRITERIA

3488 End user shall be able to select data for display by specifying:

3489 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3490 only those that partially or completely cover the Country)

3491 - Market Balance Area (optional)

3492 - Publication year (optional)

3493 10.2.4.3 DISPLAY

3494 This data shall be displayed in the following section:

3495 Balancing / Rules

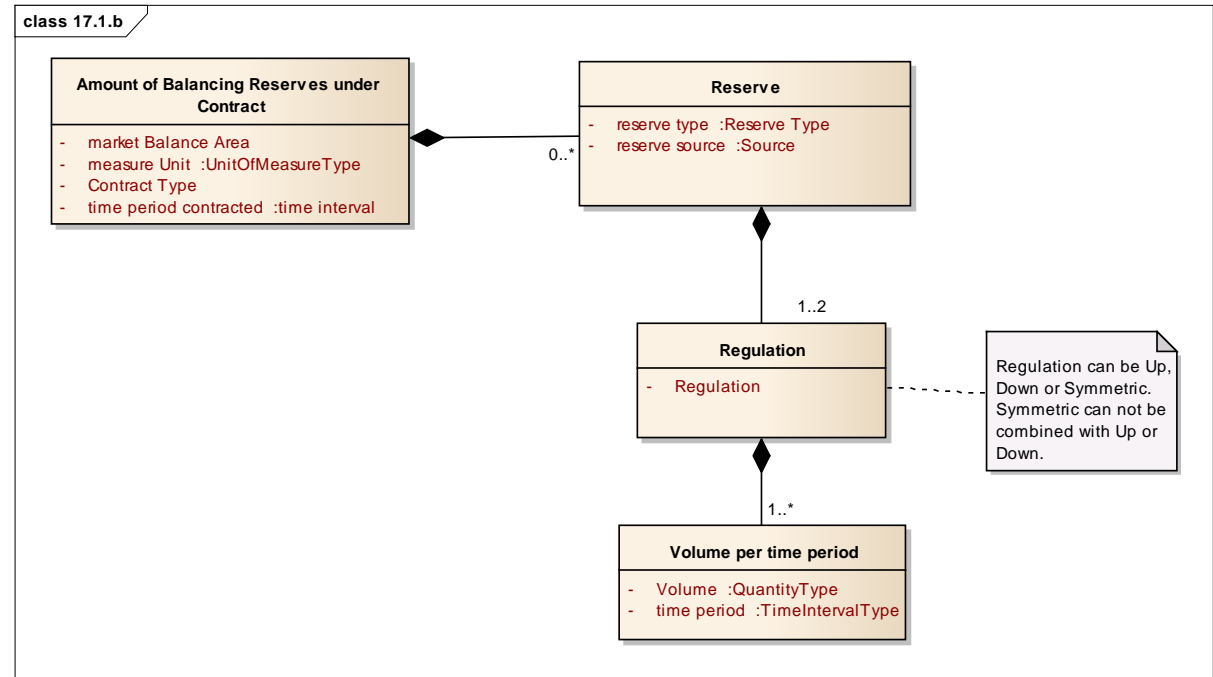
3496 Each report shall be available for download by clicking a link.

3497 For every report, the Market Balance 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 Market Balance 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 Market Balance 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 may be described as a constant value or may vary during the contracted time period, with a resolution up to BTU.

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

3515 10.3.2 PRE-CONFIGURATION

3516 - For each applicable Market Balance Area and Contract Type, the period of time where
3517 “Contracted Balancing Reserves” shall be expected by the platform (possibly just the start
3518 date and time), whatever the Reserve.

3519 - For each applicable Market Balance Area, the unique allowed Data Provider

3520 10.3.3 INTEGRATION

3521 - The Market Balance Area shall be recognised by the platform

3522 - The Reserve shall be recognised by the platform

3523 - Contract Type shall be recognised by the platform

3524 - The provided Market Balance Area and Reserve shall be associated together with the data
3525 item [17.1.b] in the pre-configuration of reference data, as in [C-BLC-4]

3526 - The Data Provider shall be consistent with the identified Market Balance Area

3527 10.3.4 MONITORING

3528 Contracted time intervals and dates and times for procurement processes vary significantly
3529 among market balance areas, hence monitoring will not be performed on this data item.

3530 10.3.5 PROCESSING

3531 No processing is performed on this data item.

3532 10.3.6 DATA CONTAINER STATUS / DATA STATUS

3533 Data follows the “None / Ready for publication” scheme.

3534 10.3.7 PUBLICATION

3535 10.3.7.1 FILTERING AND SORTING CRITERIA

3536 Data shall be visually accessed by selecting the following:

3537 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3538 only those that partially or completely cover the Country)

3539 - Market Balance Area (selection is mandatory)

3540 - Reserve (selection is mandatory)

3541 - Contract Type (selection is mandatory)

3542 - Date or date range (selection is mandatory)

3543 10.3.7.2 DISPLAY

3544 This data shall be displayed in the following section:

3545 - **Balancing / Balancing Volumes Reservation**

3546 The following attributes of data shall be displayed:

3547 - Title

3548 - Market Balance Area name

3549 - Contract Type

3550 - Selected date or date range

3551 - Measurement Unit

3552 - For reserves with contracted time period partially or completely within the selected date or
3553 date range, Reserve Type, Source and the contracted time period

3554 - For each Reserve, the Regulation and contracted Volumes

3555 If volumes vary during the contracted time period, it shall be possible to expand the view so
3556 that volumes are displayed as a curve and a table.

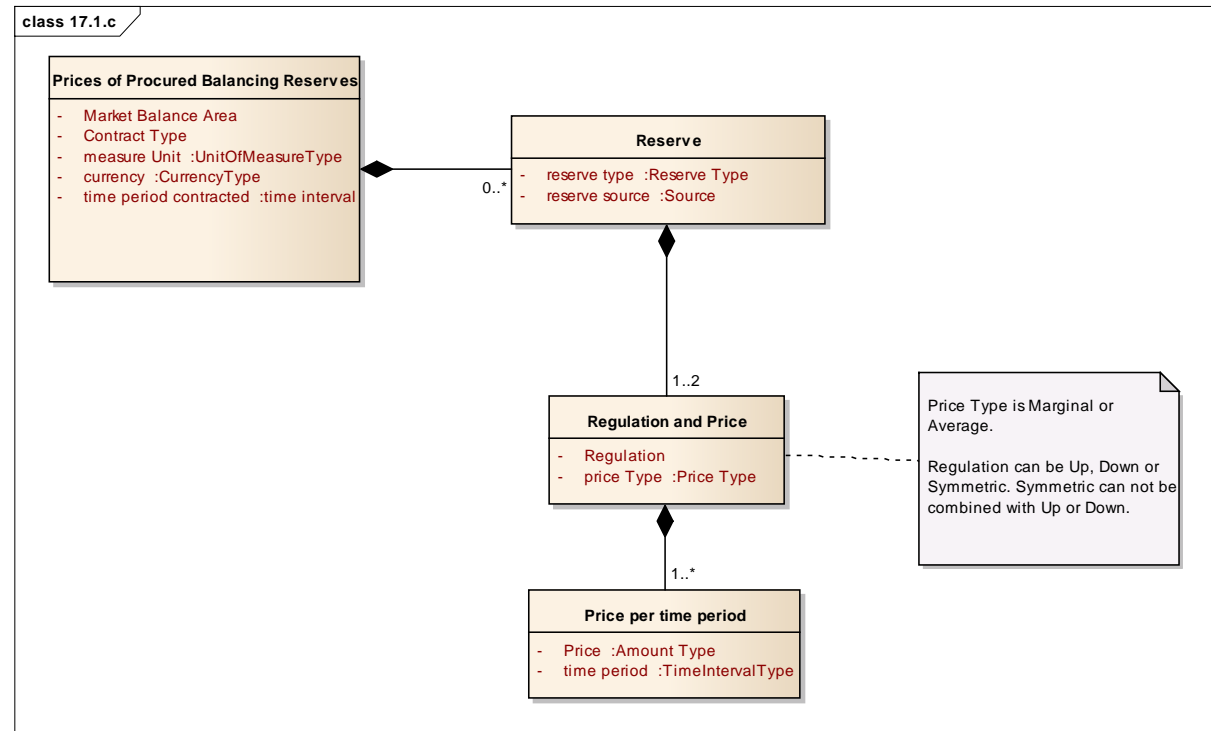
3557

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 Market Balance Area only.

This item describes for a Market Balance 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 may be described as a constant value or may vary during the contracted time period, with a resolution up to BTU.

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

3572 10.4.2 PRE-CONFIGURATION

3573 - For each applicable Market Balance Area and Contract Type, the period of time where
3574 “Prices of the Procured Balancing Reserves” shall be expected by the platform (possibly just
3575 the start date and time), whatever the Reserve.

3576 - For each applicable Market Balance Area, the unique allowed Data Provider

3577 10.4.3 INTEGRATION

3578 - The Market Balance Area shall be recognised by the platform

3579 - The Reserve shall be recognised by the platform

3580 - The Contract Type shall be recognised by the platform

3581 - The provided Market Balance Area and Reserve shall be associated together with the data
3582 item [17.1.c] in the pre-configuration of reference data, as in [C-BLC-4]

3583 - The Data Provider shall be consistent with the identified Market Balance Area

3584 - Currency shall be consistent with pre-configuration [C-BLC-9]

3585 10.4.4 MONITORING

3586 Contracted time intervals and dates and times for procurement processes vary significantly
3587 among market balance areas, hence monitoring will not be performed on this data item.

3588 10.4.5 PROCESSING

3589 Platform determines Price Type based on Market Balance Area, Reserve and possibly also
3590 Contract Type, using pre-configuration [C-BLC-5].

3591 10.4.6 DATA CONTAINER STATUS / DATA STATUS

3592 Data follows the “None / Ready for publication” scheme.

3593 10.4.7 PUBLICATION

3594 10.4.7.1 FILTERING AND SORTING CRITERIA

3595 Data shall be visually accessed by selecting the following:

3596 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3597 only those that partially or completely cover the Country)

3598 - Market Balance Area (selection is mandatory)

3599 - Reserve (selection is mandatory)

3600 - Date or date range (selection is mandatory)

3601 - Contract Type (selection is mandatory)

3602 10.4.7.2 DISPLAY

3603 This data shall be displayed in the following section:

3604 - **Balancing / Balancing Volumes Reservation** (same section as for “Contracted Balancing
3605 Reserves / 17.1.b”)

3606 The following attributes of data shall be displayed:

3607 - Title

3608 - Market Balance Area name

3609 - Measurement Unit

3610 - Currency

3611 - Contract Type

3612 - For each Reserve with a contracted time period at least partially within the selected date or
3613 date range, the contracted time period, Reserve Type and Source (if provided) are displayed.

3614 For each Reserve, the Regulation, Price Type and Prices are displayed.

3615 Data shall be displayed together with the volumes (i.e. “Contracted Balancing Reserves /
3616 17.1.b”).

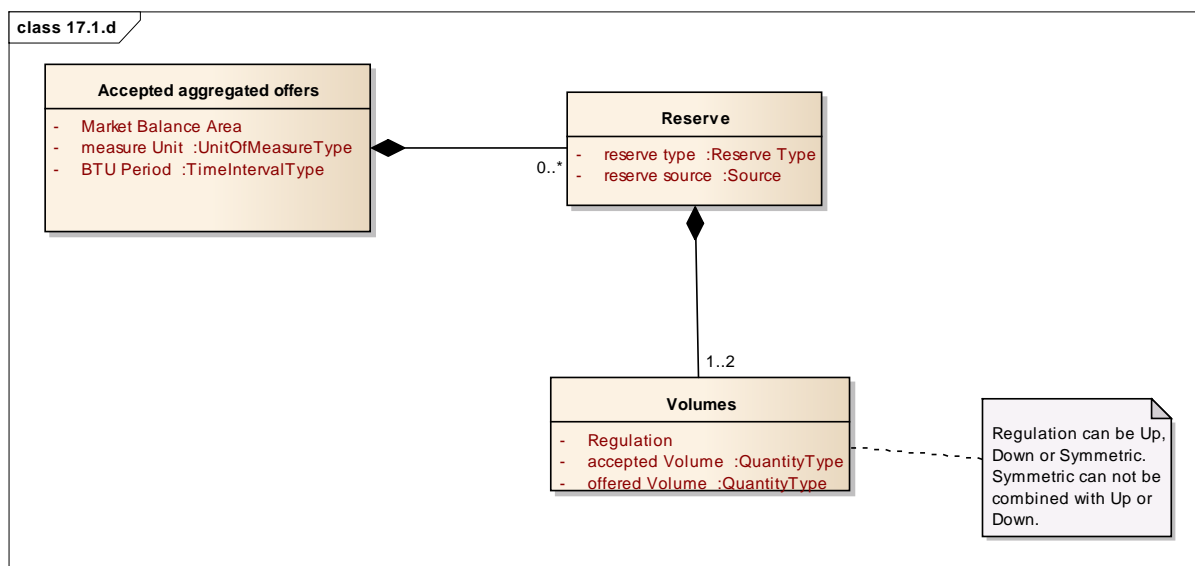
3617 If prices vary during the contracted time period, it shall be possible to expand the view so that
3618 prices are displayed as a curve and a table.

3619

10.5 ACCEPTED AGGREGATED OFFERS [17.1.D]

10.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Market Balance Area, there should be a given Balancing Time Unit value. For this data item, the submitted document shall contain values pertaining to one Market Balance Area only.

This item describes for a time interval, equal to one Balancing Time Unit, and for the applicable Reserves in the considered Market Balance Area, the aggregated accepted volume for activation per Regulation in a given fixed measure Unit (MW).

Source of Reserve is optionally included.

Optionally, the offered volume may also be included, when there might be a difference between accepted and offered volumes due to market rules.

If there was no accepted offer for a given Reserve, the Reserve shall not be included in the submission.

10.5.2 PRE-CONFIGURATION

- For each applicable Market Balance Area, the period of time where the data item "Accepted Aggregated Offers for Activation" shall be expected by the platform (possibly just the start date and time)

- For each applicable Market Balance Area, the unique allowed Data Provider

3640 - For each applicable Market Balance Area, the submission deadline:

- 3641 • For a given time interval, submission must be done at the latest one hour (H+1) after
3642 the end of the time interval.

3643 *Example: if the Balancing Time Unit is 30 min for a given Market Balance Area, and the*
3644 *time interval in question is January 15th [08:00; 08:30] UTC, values for this time interval*
3645 *must be submitted before January 15th, 09:30 UTC.*

3646 10.5.3 INTEGRATION

3647 - The Market Balance Area shall be recognised by the platform

3648 - The Reserve shall be recognised by the platform

3649 - The provided Market Balance Area and Reserve shall be associated together with the data
3650 item [17.1.d] in the pre-configuration of reference data, as in [C-BLC-4]

3651 - The time interval in the submitted document is of one Balancing Time Unit at least and is
3652 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
3653 for the Market Balance Area as in [C-BLC-6]

3654 - The Data Provider shall be consistent with the identified Market Balance Area

3655 10.5.4 MONITORING

3656 For a given Market Balance Area, the submission deadline described above shall be
3657 monitored for each time interval.

3658 10.5.5 PROCESSING

3659 No processing performed on this data item.

3660 10.5.6 PUBLICATION

3661 10.5.6.1 FILTERING AND SORTING CRITERIA

3662 Data shall be visually accessed by selecting the following:

3663 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3664 only those that partially or completely cover the Country)

3665 - Market Balance Area (selection is mandatory)

3666 - Reserve Type (selection is optional)

3667 - Day (selection is mandatory)

3668 - Time Window (Start time and end time) (selection is mandatory)

3669 10.5.6.2 DISPLAY

3670 This data shall be displayed in the following section:

3671 - **Balancing / Volumes of Offers for Activation**

3672 The following attributes of data shall be displayed:

3673 - Title

3674 - Market Balance Area name

3675 - Reserve: Type and Source (if provided)

3676 - Balancing Time Unit for the given Market Balance Area

3677 - Day

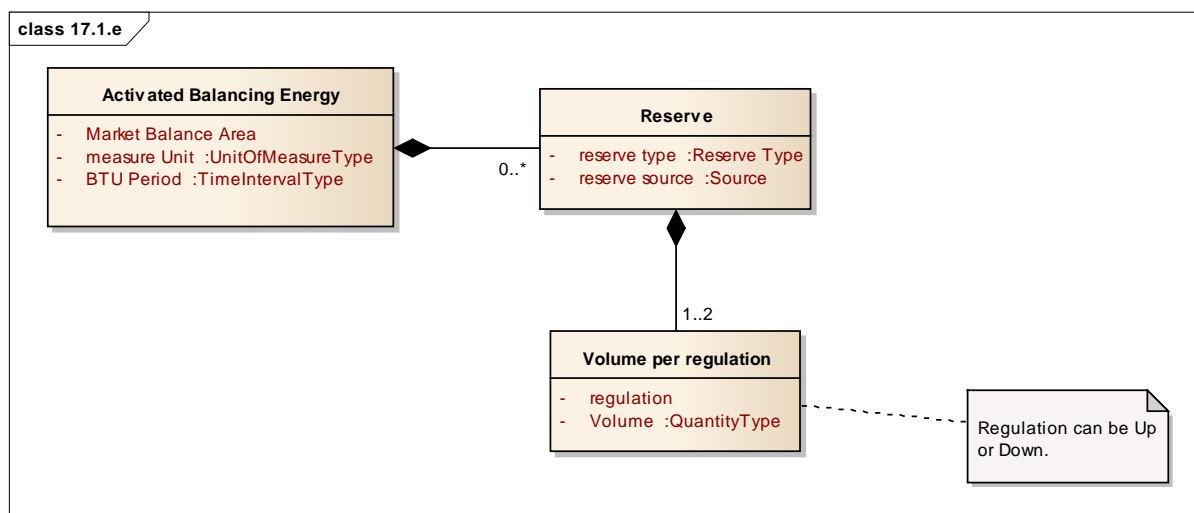
3678 - Measurement Unit

3679 - For each Regulation, the Accepted Volumes per Balancing Time Unit within the Time
3680 Window for all applicable Reserves. If it has been provided, Offered Volume is also
3681 displayed.

10.6 ACTIVATED BALANCING ENERGY [17.1.E]

10.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Market Balance Area there should be a given Balancing Time Unit value. For this data item, the submitted document shall contain values pertaining to only one Market Balance Area.

This item describes for a time interval, equal to one Balancing Time Unit, and for the applicable Reserves in the considered Market Balance Area, the volumes of activated balancing reserves per Regulation in a given fixed measure Unit (MWh).

Source of Reserve is optionally included.

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

10.6.2 PRE-CONFIGURATION

- For each applicable Market Balance Area, the period of time where "Volumes of Activated Balancing Energy" shall be expected by the platform (possibly just the start date and time), whatever the Reserve.

- For each applicable Market Balance Area, the unique allowed Data Provider

- For each applicable Market Balance Area, the submission deadline:

- 3701 • For a given time interval, submission must be done at the latest thirty minutes
3702 (MM+30) after the end of the time interval.

3703 *Example: if the Balancing Time Unit is 30 min for a given Market Balance Area and*
3704 *Reserve, and the time interval in question is January 15th [08:00; 08:30] UTC, values for*
3705 *this time interval must be submitted before January 15th, 09:00 UTC.*

3706 10.6.3 INTEGRATION

- 3707 - The Market Balance Area shall be recognised by the platform
- 3708 - The Reserve shall be recognised by the platform
- 3709 - The provided Market Balance Area and Reserve shall be associated together with the data
3710 item [17.1.e] in the pre-configuration of reference data, as in [C-BLC-4]
- 3711 - The time interval in the submitted document is of one Balancing Time Unit at least and is
3712 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
3713 for the Market Balance Area as in [C-BLC-6]
- 3714 - The Data Provider shall be consistent with the identified Market Balance Area

3715 10.6.4 MONITORING

3716 For a given Market Balance Area, the submission deadline described above shall be
3717 monitored for each time interval.

3718 10.6.5 PROCESSING

3719 No processing performed on this data item.

3720 10.6.6 PUBLICATION

3721 10.6.6.1 FILTERING AND SORTING CRITERIA

3722 Data shall be visually accessed by selecting the following:

- 3723 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3724 only those that partially or completely cover the Country)
- 3725 - Market Balance Area (selection is mandatory)
- 3726 - Reserve Type (selection is optional)
- 3727 - Day (selection is mandatory)
- 3728 - Time Window (Start time and end time) (selection is mandatory)

3729 **10.6.6.2 DISPLAY**

3730 This data shall be displayed in the following section:

3731 - **Balancing / Activated Balancing Reserves**

3732 The following attributes of data shall be displayed:

3733 - Title

3734 - Market Balance Area name

3735 - Reserve: Type and Source (if provided)

3736 - Balancing Time Unit for the given Market Balance Area

3737 - Day

3738 - Measurement Unit

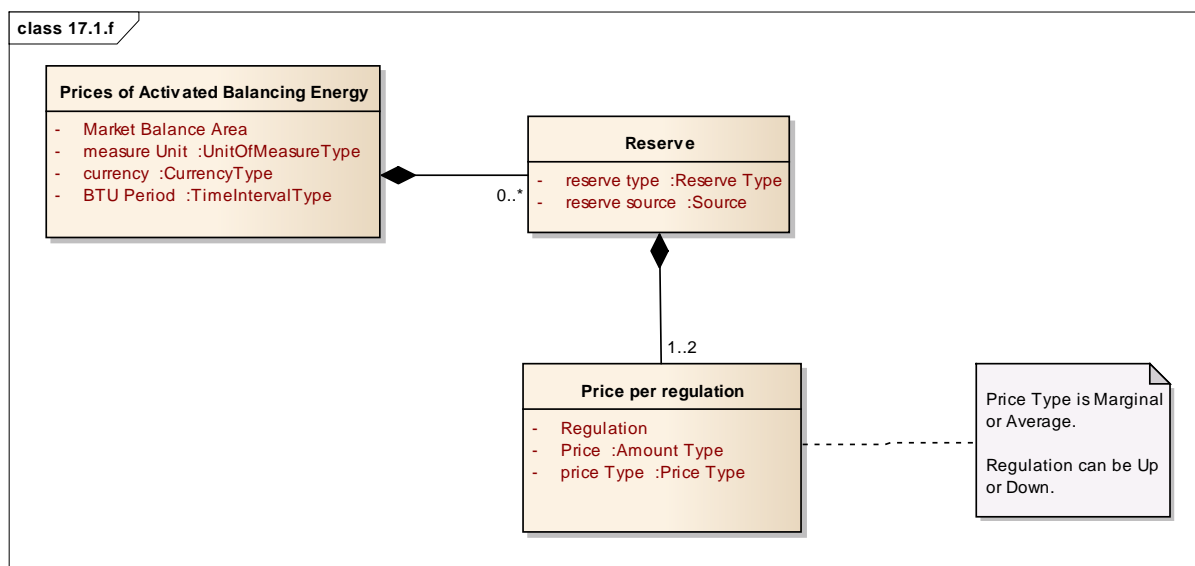
3739 - For each Regulation, Volumes per Balancing Time Unit within the Time Window for all
3740 applicable Reserves

3741

10.7 PRICES OF ACTIVATED BALANCING ENERGY [17.1.F]

10.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Market Balance Area there should be a given Balancing Time Unit value. For this data item, the submitted document shall contain values pertaining to only one Market Balance Area.

This item describes for a time interval, equal to one Balancing Time Unit, for the applicable Reserves in the considered Market Balance Area, the price of activated balancing reserves per Regulation in a given currency and fixed measure Unit (MWh).

Source of Reserve is optionally included.

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

10.7.2 PRE-CONFIGURATION

- For each applicable Market Balance Area, the period of time where "Prices of activated Balancing Energy" shall be expected by the platform (possibly just the start date and time)
- For each applicable Market Balance Area, the unique allowed Data Provider
- For each applicable Market Balance Area, the submission deadline:

- 3760 • For a given time interval, submission must be done at the latest one hour (H+1) after
3761 the end of the time interval.

3762 *Example: if the Balancing Time Unit is 30 min for a given Market Balance Area and*
3763 *Reserve, and the time interval in question is January 15th [08:00; 08:30] UTC, values for*
3764 *this time interval must be submitted before January 15th, 09:30 UTC.*

3765 10.7.3 INTEGRATION

- 3766 - The Market Balance Area shall be recognised by the platform
- 3767 - The Reserve shall be recognised by the platform
- 3768 - The provided Market Balance Area and Reserve shall be associated together with the data
3769 item [17.1.f] in the pre-configuration of reference data, as in [C-BLC-4]
- 3770 - The time interval in the submitted document is of one Balancing Time Unit at least and is
3771 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
3772 for the Market Balance Area as in [C-BLC-6]
- 3773 - The Data Provider shall be consistent with the identified Market Balance Area
- 3774 - Currency shall be consistent with pre-configuration [C-BLC-9]

3775 10.7.4 MONITORING

3776 For a given Market Balance Area, the submission deadline described above shall be
3777 monitored for each time interval.

3778 10.7.5 PROCESSING

3779 Platform determines Price Type based on Market Balance Area and Reserve, using pre-
3780 configuration [C-BLC-5].

3781 10.7.6 PUBLICATION

3782 10.7.6.1 FILTERING AND SORTING CRITERIA

3783 Data shall be visually accessed by selecting the following:

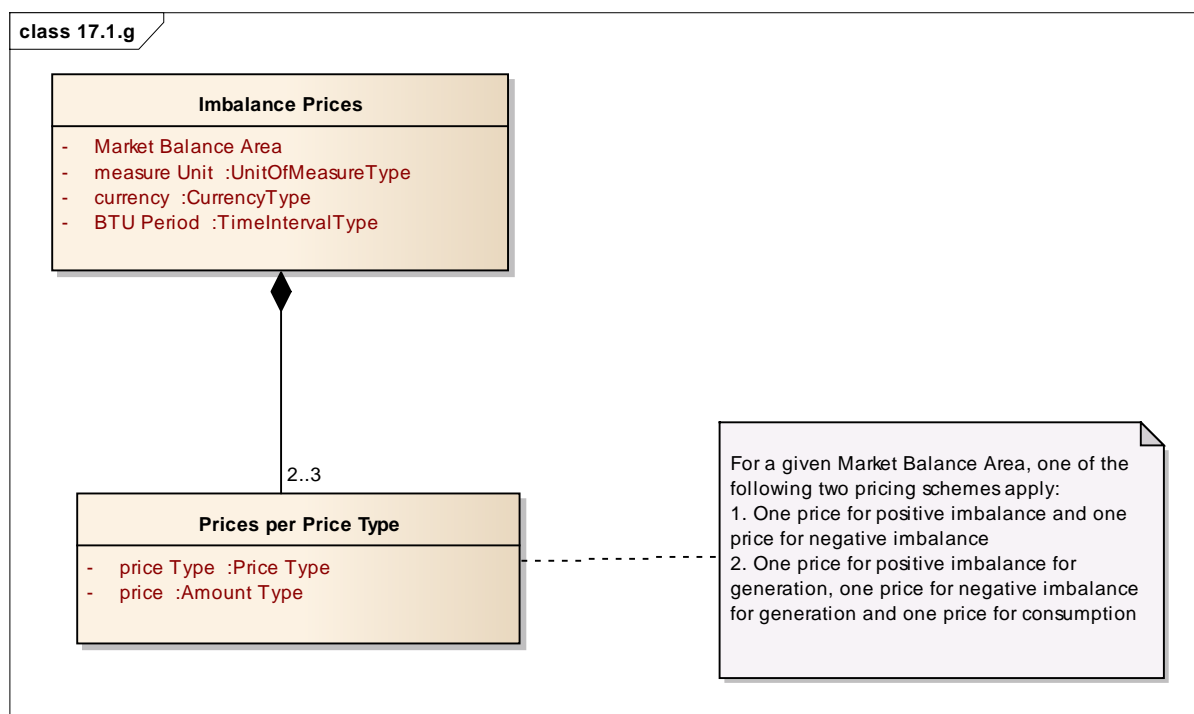
- 3784 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3785 only those that partially or completely cover the Country)
- 3786 - Market Balance Area (selection is mandatory)
- 3787 - Reserve Type (selection is optional)

- 3788 - Day (selection is mandatory)
- 3789 - Time Window (Start time and end time) (selection is mandatory)
- 3790 **10.7.6.2 DISPLAY**
- 3791 This data shall be displayed in the following section:
- 3792 - **Balancing / Activated Balancing Reserves** (same section as for “Volumes of activated
3793 balancing reserves / 17.1.e”)
- 3794 The following attributes of data shall be displayed:
- 3795 - Title
- 3796 - Market Balance Area name
- 3797 - Reserve: Type and Source (if provided)
- 3798 - Balancing Time Unit for the given Market Balance Area
- 3799 - Day
- 3800 - Measurement Unit
- 3801 - Currency
- 3802 - For each Reserve, the Regulation and Price Type
- 3803 - Prices per Balancing Time Unit within the Time Window
- 3804 Data shall be displayed together with the volumes (i.e. “Volumes of activated balancing
3805 reserves / 17.1.e”).

3806 10.8 IMBALANCE PRICES [17.1.G]

3807 10.8.1 DATA DESCRIPTION

3808 This item can be described by the following class diagram:



3809

3810 For each applicable Market Balance Area, there should be a given Balancing Time Unit value

3811 and two or three applicable price types. For this data item, the submitted document shall

3812 contain values pertaining to only one Market Balance Area.

3813 This item describes for a time interval, equal to one Balancing Time Unit, the imbalance

3814 prices in a given currency and fixed measure Unit (MWh).

3815 10.8.2 PRE-CONFIGURATION

3816 - For each applicable Market Balance Area, the period of time when “Imbalance Prices” shall

3817 be expected by the platform (possibly just the start date and time)

3818 - For each applicable Market Balance Area, the unique allowed Data Provider

3819 - For each applicable Market Balance Area, the submission deadline:

- 3820 • Data shall be submitted as soon as possible. The specific submission deadline will
- 3821 depend on Market Balance Area.

3822 *Example: Balancing Time Unit is 30 min for a given Market Balance Area where*
3823 *submission deadline is H+2. The time interval in question is January 15th [08:00; 08:30]*
3824 *UTC. Values for this time interval must be submitted before January 15th, 10:30 UTC.*

3825 10.8.3 INTEGRATION

- 3826 - The Market Balance Area shall be recognised by the platform
- 3827 - The Price Types shall be recognised by the platform
- 3828 - The provided Market Balance Area shall be associated with the data item [17.1.g] in the
- 3829 pre-configuration of reference data, as in [C-BLC-3]
- 3830 - The provided Price Types shall be associated with the data item [17.1.g] and the given
- 3831 Market Balance Area, as in [C-BLC-5]
- 3832 - The time interval in the submitted document is of one Balancing Time Unit at least and is
- 3833 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
- 3834 for the Market Balance Area as in [C-BLC-6]
- 3835 - The Data Provider shall be consistent with the identified Market Balance Area
- 3836 - Currency shall be consistent with pre-configuration [C-BLC-9]

3837 10.8.4 MONITORING

3838 For a given Market Balance Area, the submission deadline described above shall be
3839 monitored for each time interval.

3840 10.8.5 PROCESSING

3841 No processing is performed on this data item.

3842 10.8.6 PUBLICATION

3843 10.8.6.1 FILTERING AND SORTING CRITERIA

3844 Data shall be visually accessed by selecting the following:

- 3845 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
- 3846 only those that partially or completely cover the Country)
- 3847 - Market Balance Area (selection is mandatory)
- 3848 - Day (selection is mandatory)
- 3849 - Time Window (Start time and end time) (selection is mandatory)

3850 **10.8.6.2 DISPLAY**

3851 This data shall be displayed in the following section:

3852 - **Balancing / Imbalance**

3853 The following attributes of data shall be displayed:

3854 - Title

3855 - Market Balance Area name

3856 - Balancing Time Unit for the given Market Balance Area

3857 - Day

3858 - Measurement Unit

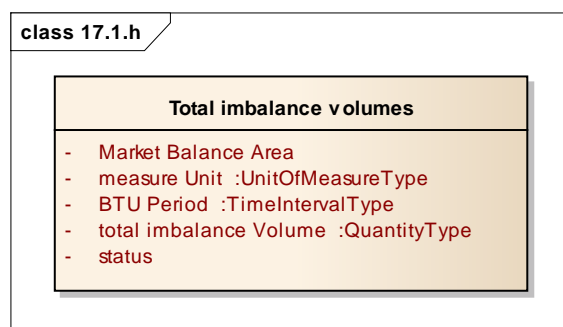
3859 - Currency

3860 - For each applicable Price Type, the Price Type and the price per Balancing Time Unit
3861 within the Time Window for the given Market Balance Area

3862 10.9 TOTAL IMBALANCE VOLUMES [17.1.H]

3863 10.9.1 DATA DESCRIPTION

3864 This item can be described by the following class diagram:



3865
3866 For each applicable Market Balance Area, there should be a given Balancing Time Unit
3867 value. For this data item, the submitted document shall contain values pertaining to only one
3868 Market Balance Area.

3869 This item describes for a time interval, equal to one Balancing Time Unit, the total imbalance
3870 volume in a given fixed measure Unit (MWh), together with a status of the data (estimated or
3871 final).

3872 10.9.2 PRE-CONFIGURATION

3873 - For each applicable Market Balance Area, the period of time where “Aggregated volumes of
3874 the imbalances” shall be expected by the platform (possibly just the start date and time)

3875 - For each applicable Market Balance Area, the unique allowed Data Provider

3876 - For each applicable Market Balance Area, the submission deadline:

- 3877 • For a given time interval, submission must be done at the latest 30 minutes after the
- 3878 end of the time interval.

3879 *Example: if the Balancing Time Unit is 30 min for a given Market Balance Area, and the*
3880 *time interval in question is January 15th [08:00; 08:30] UTC, values for this time interval*
3881 *must be submitted before January 15th, 09:00 UTC.*

3882 10.9.3 INTEGRATION

3883 - The Market Balance Area shall be recognised by the platform

3884 - The provided Market Balance Area shall be associated together with the data item [17.1.h]
3885 in the pre-configuration of reference data, as in [C-BLC-3]

3886 - The time interval in the submitted document is of one Balancing Time Unit at least and is
3887 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
3888 for the Market Balance Area as in [C-BLC-6]

3889 - The Data Provider shall be consistent with the identified Market Balance Area

3890 10.9.4 MONITORING

3891 For a given Market Balance Area, the submission deadline described above shall be
3892 monitored for each time interval.

3893 10.9.5 PROCESSING

3894 No processing is performed on this data item.

3895 10.9.6 PUBLICATION

3896 10.9.6.1 FILTERING AND SORTING CRITERIA

3897 Data shall be visually accessed by selecting the following:

3898 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
3899 only those that partially or completely cover the Country)

3900 - Market Balance Area (selection is mandatory)

3901 - Day (selection is mandatory)

3902 - Time Window (Start time and end time) (selection is mandatory)

3903 10.9.6.2 DISPLAY

3904 This data shall be displayed in the following section:

3905 - **Balancing / Imbalance** (same section as for “Imbalance prices / 17.1.g”)

3906 The following attributes of data shall be displayed:

3907 - Title

3908 - Market Balance Area name

3909 - Balancing Time Unit for the given Market Balance Area

3910 - Day

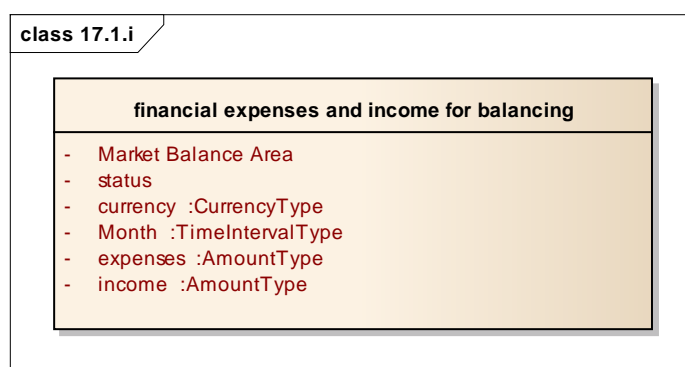
- 3911 - Measurement Unit
- 3912 - Status of data (Estimated or Final) for each Balancing Time Unit within the Time Window for
- 3913 the given Market Balance Area
- 3914 - The total imbalance volume per Balancing Time Unit within the Time Window for the given
- 3915 Market Balance Area

10.10 FINANCIAL EXPENSES AND INCOME FOR BALANCING

[17.1.i]

10.10.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Market Balance 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 Market Balance Area.

10.10.2 PRE-CONFIGURATION

- For each applicable Market Balance Area, the period of time where “Financial Expenses and Income for Balancing” shall be expected by the platform (possibly just the start date and time).

- For each applicable Market Balance Area, the unique allowed Data Provider

- For each applicable Market Balance 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 30th April, 24:00 UTC.

3937 10.10.3 INTEGRATION

- 3938 - The Market Balance Area shall be recognised by the platform
- 3939 - The provided Market Balance Area shall be associated with the data item [17.1.i] in the pre-configuration of reference data, as in [C-BLC-3]
- 3940
- 3941 - The time interval in the submitted document is of one month at least and is necessarily a multiple of one month
- 3942
- 3943 - The Data Provider shall be consistent with the identified Market Balance Area
- 3944 - Document is submitted after the end of the month described in the document, reason being that this is ex-post data. This validation shall trigger a warning only.
- 3945
- 3946 - Currency shall be consistent with pre-configuration [C-BLC-9]

3947 10.10.4 MONITORING

- 3948 For this item, the monthly submission deadline shall be monitored.

3949 10.10.5 PROCESSING

- 3950 The following processing is performed by the platform:
- 3951 - calculate the difference between the expense and the income

3952 10.10.6 PUBLICATION

3953 10.10.6.1 FILTERING AND SORTING CRITERIA

- 3954 Data shall be visually accessed by selecting the following:
- 3955 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include only those that partially or completely cover the Country)
- 3956
- 3957 - Market Balance Area (selection is mandatory)
- 3958 - Time Window (from one month to a year) (selection is mandatory)

3959 10.10.6.2 DISPLAY

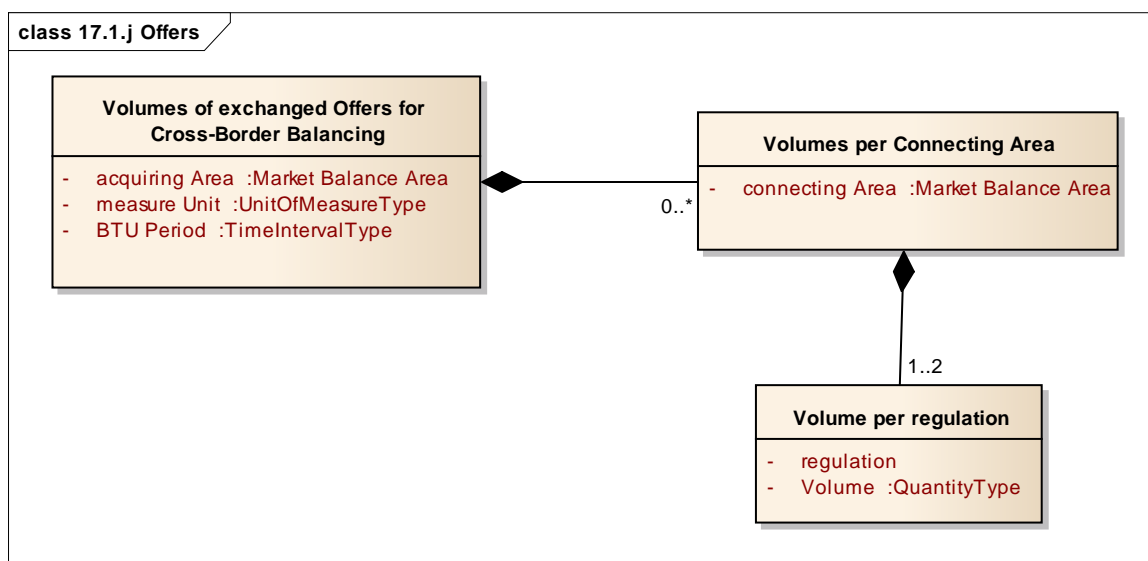
- 3960 This data shall be displayed in the following section:
- 3961 - **Balancing / Financial expenses and income**
- 3962 The following attributes of data shall be displayed:

- 3963 - Title
- 3964 - Market Balance Area name
- 3965 - Time Window
- 3966 - Currency
- 3967 - For each month, the status of data (Provisional or Final)
- 3968 - For each month, the income
- 3969 - For each month, the expenses
- 3970 - For each month, the calculated difference between the expenses and income

10.11 CROSS-BORDER BALANCING – VOLUMES OF EXCHANGED BIDS AND OFFERS [17.1.J]

10.11.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable acquiring Market Balance Area, there should be a given Balancing Time Unit value.

This item describes for each applicable connecting Market Balance Area, for a time interval equal to one Balancing Time Unit, the quantity of aggregated volume of offers for activation from the connecting Market Balance Area, upwards and/or downwards in a given fixed measure Unit (MW).

If no bids and offers were exchanged for a given connecting Area, to the connecting Area shall not be included in the submission.

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

10.11.2 PRE-CONFIGURATION

- For each applicable Acquiring Area, as of what date and time this data item “Volumes of Exchanged Bids and Offers” shall be expected by the platform, whatever the Connecting Area. Optionally, it is possible to configure an end date and time as well.

- 3990 - For each applicable Acquiring Area, the unique Data Provider
- 3991 - For each applicable Acquiring Area, the submission deadline:
- 3992 • For a given time interval, submission must be done at the latest one hour (H+1) after
- 3993 the end of the time interval.

3994 *Example: if the Balancing Time Unit is 30 min for a given Acquiring Area and the time*

3995 *interval in question is January 15th [08:00; 08:30] UTC, the values for this time interval*

3996 *must be submitted before January 15th, 09:30 UTC.*

3997 10.11.3 INTEGRATION

- 3998 - The acquiring Area shall be recognised by the platform
- 3999 - The connecting Areas shall be recognised by the platform
- 4000 - Each of the provided Market Balance Areas (acquiring and connecting ones) shall be
- 4001 associated together with the data item [17.1.j] in the pre-configuration of reference data, as in
- 4002 [C-BLC-4]
- 4003 - The time interval in the submitted document is of one Balancing Time Unit at least and is
- 4004 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
- 4005 for the Acquiring Market Balance Area as in [C-BLC-6]
- 4006 - The Data Provider shall be consistent with the identified Acquiring Area

4007 10.11.4 MONITORING

- 4008 For a given acquiring Area, the submission deadline described above shall be monitored for
- 4009 each time interval.

4010 10.11.5 PROCESSING

- 4011 No processing performed on this data item.

4012 10.11.6 PUBLICATION

4013 10.11.6.1 FILTERING AND SORTING CRITERIA

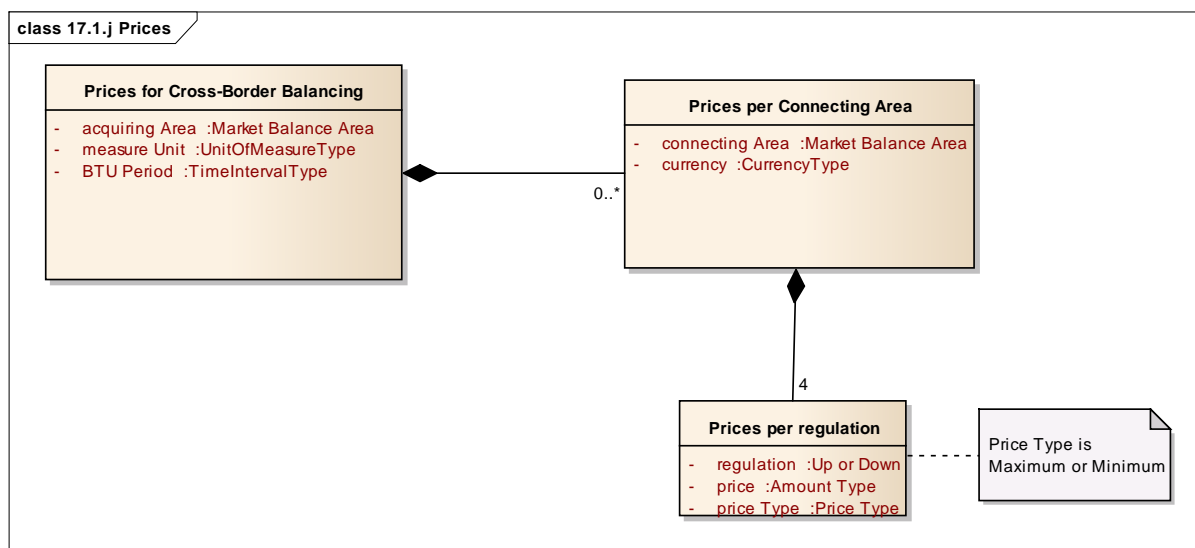
- 4014 Data shall be visually accessed by selecting the following:
- 4015 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
- 4016 only those that partially or completely cover the Country)
- 4017 - Acquiring Area (selection is mandatory)

- 4018 - Connecting Area (selection is optional)
- 4019 - Day (selection is mandatory)
- 4020 - Time Window (Start time and end time) (selection is mandatory)
- 4021 **10.11.6.2 DISPLAY**
- 4022 This data shall be displayed in the following section:
- 4023 - **Balancing / Offers for Cross-Border Balancing Activation**
- 4024 The following attributes of data shall be displayed:
- 4025 - Title
- 4026 - Acquiring Area name
- 4027 - Connecting Area name
- 4028 - Balancing Time Unit for the given Acquiring Area
- 4029 - Day
- 4030 - Measurement Unit
- 4031 - The Up and/or Down Volumes per Balancing Time Unit within the Time Window for the
- 4032 given Acquiring Area and Connecting Area. This is repeated for all Connecting Areas if no
- 4033 specific one was selected.
- 4034

4035 10.12 CROSS-BORDER BALANCING - PRICES [17.1.J]

4036 10.12.1 DATA DESCRIPTION

4037 This item can be described by the following class diagram:



4038

4039 For each applicable acquiring Area, there should be a given Balancing Time Unit value.

4040 This item describes for each applicable connecting Area, for a time interval equal to one

4041 Balancing Time Unit, the maximum price of offers for upwards regulation, the minimum price

4042 of offers for upwards regulation, the maximum price of offers for downwards regulation and

4043 the minimum price of offers for downwards regulation, in a given currency and fixed measure

4044 Unit (MWh).

4045 If there were no offers for a given Connecting Area, the Connecting Area shall not be

4046 included in the submission.

4047 For this data item, the submitted document shall contain values pertaining to only one

4048 acquiring Area.

4049 10.12.2 PRE-CONFIGURATION

4050 - For each applicable Acquiring Area, as of what date and time this data item “Prices for

4051 cross-border balancing activation” shall be expected by the platform, whatever the

4052 Connecting Area. Optionally, it is possible to configure an end date and time as well.

4053 - For each applicable Acquiring Area, the unique allowed Data Provider

4054 - For each applicable Acquiring Area, the submission deadline:

- For a given time interval, submission must be done at the latest one hour (H+1) after the end of the time interval.

Example: if the Balancing Time Unit is 30 min for a given Acquiring Area and the time interval in question is January 15th [08:00; 08:30] UTC, the values for this time interval must be submitted before January 15th, 09:30 UTC.

10.12.3 INTEGRATION

- The acquiring Area shall be recognised by the platform
- The connecting Areas shall be recognised by the platform
-]
- Each of the provided Areas (acquiring and connecting ones) shall be associated together with the data item [17.1.j] in the pre-configuration of reference data, as in [C-BLC-4]
- The time interval in the submitted document is of one Balancing Time Unit at least and is necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified for the Acquiring Area as in [C-BLC-6]
- The Data Provider shall be consistent with the identified Acquiring Area
- Currency shall be consistent with pre-configuration [C-BLC-10]

10.12.4 MONITORING

For a given acquiring Area, the submission deadline described above shall be monitored for each time interval.

10.12.5 PROCESSING

No processing is performed on this data item.

10.12.6 PUBLICATION

10.12.6.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country (selection is optional: If selected, Market Balance Areas will be filtered to include only those that partially or completely cover the Country)
- Acquiring Area (selection is mandatory)
- Connecting Area (selection is optional)

4083 - Day (selection is mandatory)

4084 - Time Window (Start time and end time) (selection is mandatory)

4085 10.12.6.2 DISPLAY

4086 This data shall be displayed in the following section:

4087 - **Balancing / Offers for Cross-Border Balancing Activation** (same section as for
4088 "Aggregated volumes of offers for cross-border balancing activation")

4089 The following attributes of data shall be displayed:

4090 - Title

4091 - Acquiring Area name

4092 - Connecting Area name

4093 - Balancing Time Unit for the given Acquiring Area

4094 - Day

4095 - Measurement Unit

4096 - Currency

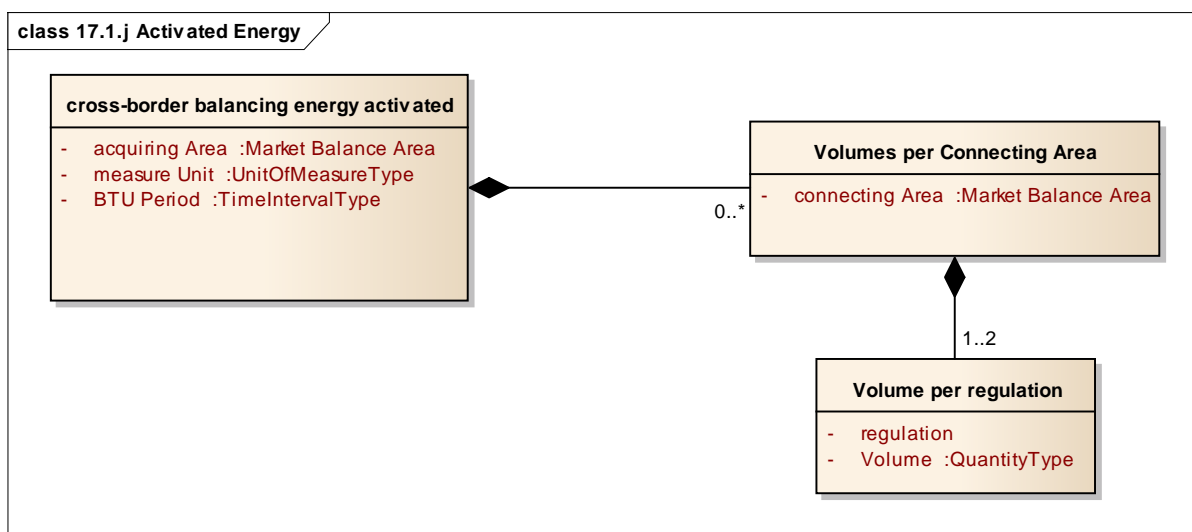
4097 - The maximum and minimum prices for Upwards regulation, the maximum and minimum
4098 prices for Downwards regulation, per Balancing Time Unit within the Time Window for the
4099 given Acquiring Area and Connecting Area. This is repeated for all Connecting Areas if no
4100 specific one was selected.

10.13 CROSS-BORDER BALANCING -ENERGY ACTIVATED

[17.1.J]

10.13.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable acquiring Area, there should be a given Balancing Time Unit value.

This item describes for each applicable connecting Area, for a time interval equal to one Balancing Time Unit, the volumes of upwards and/or downwards activated energy from this connecting Area in a given fixed measure Unit (MWh).

If no energy was activated for a given connecting Area, the connecting Area shall not be included in the submission.

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

10.13.2 PRE-CONFIGURATION

- For each applicable Acquiring Area, as of what date and time this data item “Volumes of cross-border balancing energy activated” shall be expected by the platform, whatever the Connecting Area. Optionally, it is possible to configure an end date and time as well.

- For each applicable Acquiring Area, the unique allowed Data Provider

- For each applicable Acquiring Area, the submission deadline:

- 4120 • For a given time interval, submission must be done at the latest one hour (H+1) after
4121 the end of the time interval.

4122 *Example: if the Balancing Time Unit is 30 min for a given Acquiring Area and the time*
4123 *interval in question is January 15th [08:00; 08:30] UTC, the values for this time interval*
4124 *must be submitted before January 15th, 0930 UTC.*

4125 10.13.3 INTEGRATION

- 4126 - The acquiring Area shall be recognised by the platform
- 4127 - The connecting Areas shall be recognised by the platform
- 4128 - Each of the provided Areas (acquiring and connecting ones) shall be associated together
4129 with the data item [17.1.j] in the pre-configuration of reference data, as in [C-BLC-4]
- 4130 - The time interval in the submitted document is of one Balancing Time Unit at least and is
4131 necessarily a multiple of the Balancing Time Unit, this Balancing Time Unit being identified
4132 for the Acquiring Area as in [C-BLC-6]
- 4133 - The Data Provider shall be consistent with the identified Acquiring Area

4134 10.13.4 MONITORING

4135 For a given acquiring Area, the submission deadline described above shall be monitored for
4136 each time interval.

4137 10.13.5 PROCESSING

4138 No processing performed on this data item.

4139 10.13.6 PUBLICATION

4140 10.13.6.1 FILTERING AND SORTING CRITERIA

- 4141 Data shall be visually accessed by selecting the following:
- 4142 - Country (selection is optional: If selected, Market Balance Areas will be filtered to include
4143 only those that partially or completely cover the Country)
- 4144 - Acquiring Area (selection is mandatory)
- 4145 - Connecting Area (selection is optional)
- 4146 - Day (selection is mandatory)
- 4147 - Time Window (Start time and end time) (selection is mandatory)

4148 **10.13.6.2 DISPLAY**

4149 This data shall be displayed in the following section:

4150 - **Balancing / Activated Cross-Border Balancing Reserves**

4151 The following attributes of data shall be displayed:

4152 - Title

4153 - Acquiring Area name

4154 - Connecting Area name

4155 - Balancing Time Unit for the given Acquiring Area

4156 - Day

4157 - Measurement Unit

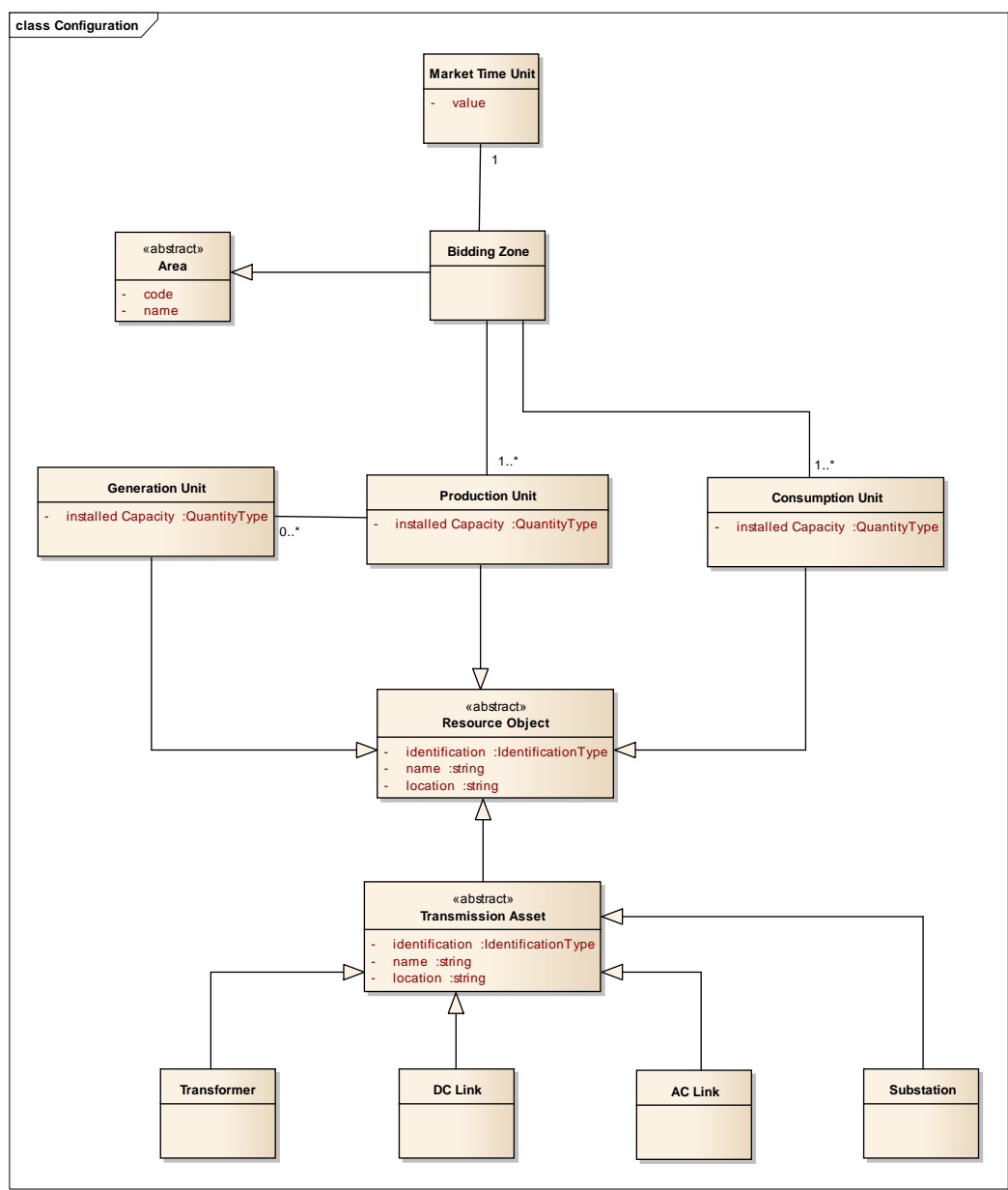
4158 - The Up and/or Down Volumes of Activated Offers per Balancing Time Unit within the Time
4159 Window for the given Acquiring Area and Connecting Area. This is repeated for all
4160 Connecting Areas if no specific one was selected.

11 OUTAGES

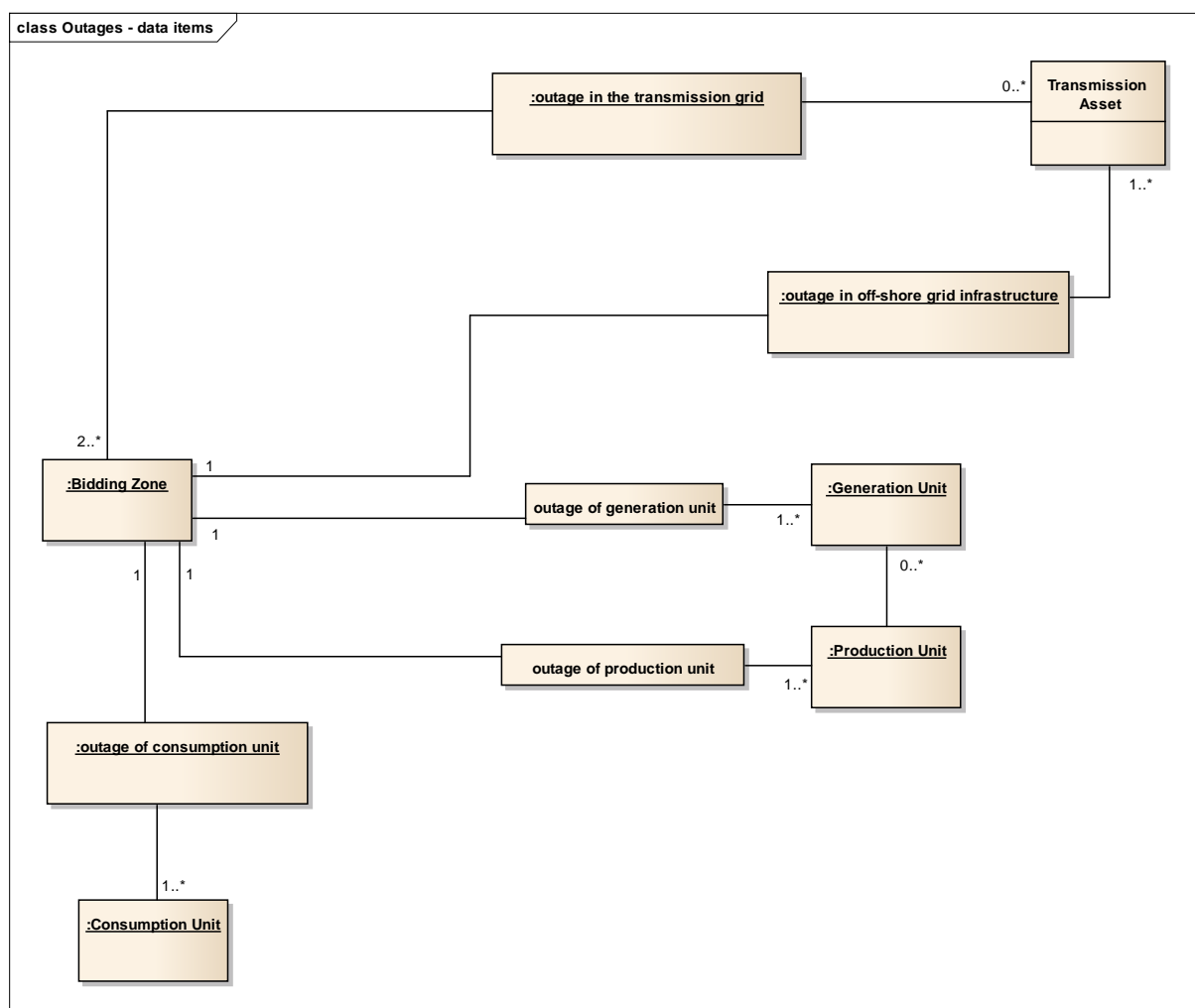
11.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

11.1.1 FUNDAMENTAL ENTITIES

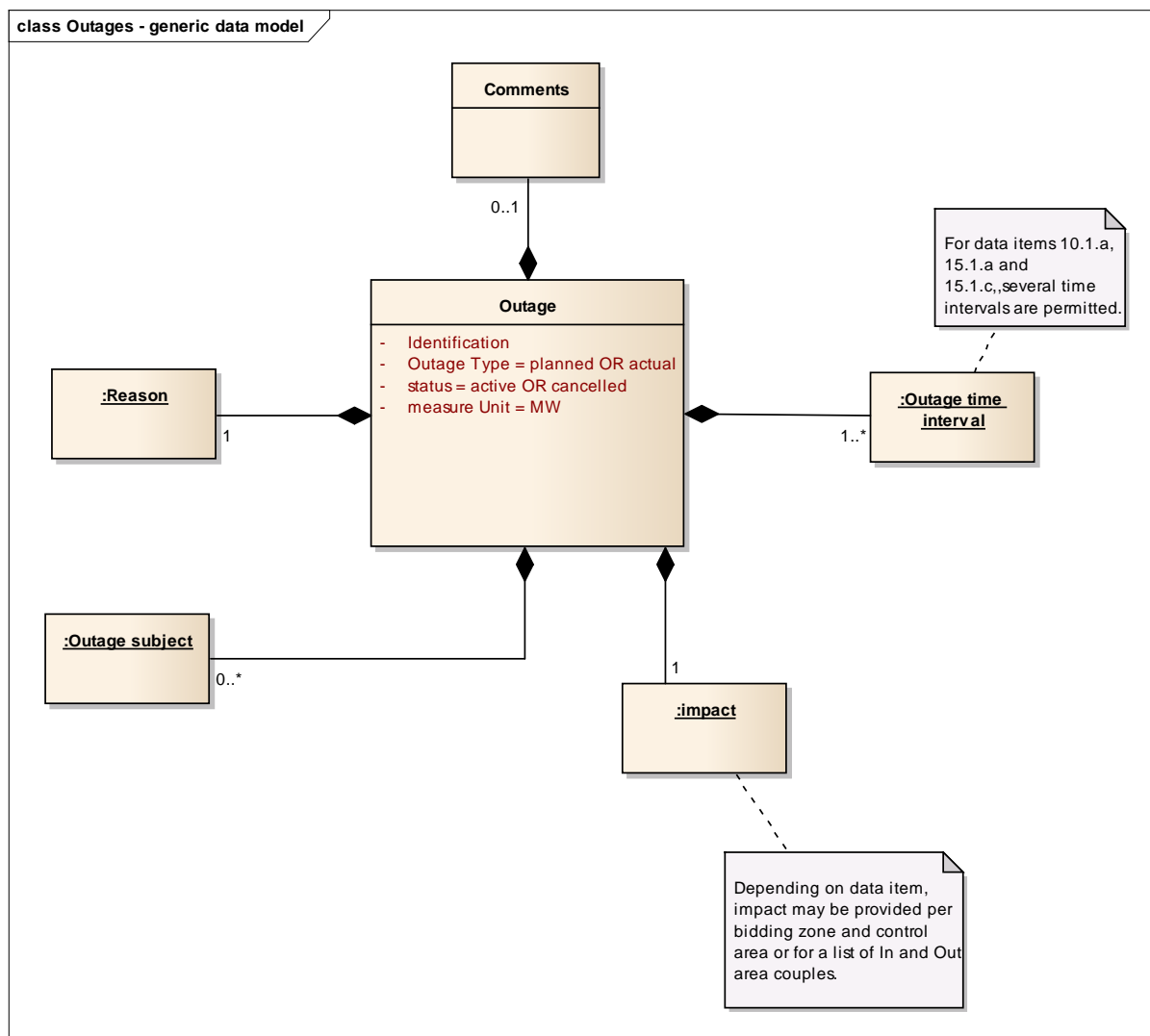
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 4167 • For a given Bidding Zone, there is a Market Time Unit
- 4168 • There are four types of assets subject to outages: Transmission Assets, Generation
- 4169 Units, Production Units and Consumption Units. They are special types of Resource
- 4170 Objects
- 4171 • All assets have an identification a name and a location
- 4172 • A Transmission Asset can be a Transformer, a Substation, a DC Link or an AC Link
- 4173 • A Generation or Production Unit has a Production Type and an Installed Capacity and
- 4174 sits in a given Bidding Zone. Generation and Production Units are described in chapter
- 4175 9.9
- 4176 • A Consumption Unit sits in a given Bidding Zone



- 4177
- 4178 The submitted document shall contain one Outage only. The following generic data model is
- 4179 suggested:



4180

4181 11.1.2 PRE-CONFIGURATION

4182 The ENTSO-E platform administrator shall pre-configure the following data, before collecting
4183 information, for the purpose of validation:

4184 - [C-OTG-1] a list of Areas. Areas may be Bidding Zones and Bidding Zone Aggregations.
4185 The list of Bidding Zones is the same as for Generation, Load and Transmission domains.
4186 The Bidding Zone Aggregations are the same as for Transmission domain.

4187 - [C-OTG-8] for each Bidding Zone and Control Area, the allowed Data Provider, identified by
4188 a unique code. If need be, additionally the granularity of data item could be applied. This
4189 reference data is used also for the data items in the Load and Generation domains.

4190 - [C-OTG-2] values of Market Time Unit for a given Bidding Zone. This reference data is the
4191 same as for Generation, Load and Transmission domains.

4192 - [C-OTG-6] a list of In and Out Area couples. The In and Out Area couples are also used in
4193 the Transmission domain³².

4194 - [C-OTG-7] for each In and Out Area couples, the allowed Data Providers, identified by
4195 unique codes.

4196 - [C-OTG-9] a list of countries and for each country, the corresponding Control Area(s). This
4197 is the same reference data as in Generation and Load domains. It will be used to facilitate
4198 search and filtering of published data by country and to aggregate capacity values for
4199 Outages of Consumption Units.

4200 - [C-OTG-10] for each Bidding Zone the country or countries that it covers. This is the same
4201 reference data as in Load domain. It will be used to facilitate search and filtering of published
4202 data by country.

4203 Data Providers shall record the following pre-configuration on the platform for the purpose of
4204 validation of submitted information:

4205 - [C-OTG-3] a list of Generation and Production Units in a given Bidding Zone, with their
4206 characteristics, refer to chapter 9.9 for details. This is the same reference data as for the
4207 Generation domain.

4208 - [C-OTG-4] a list of Consumption Units in a given Bidding Zone, with their characteristics.
4209 Refer to chapter 11.12 for further details.

4210 - [C-OTG-5] a list of Transmission Assets (Transformer, Substation, DC Link or AC Link) with
4211 their characteristics. Refer to chapter 11.11 for further details. This is the same reference
4212 data as for the Transmission domain.

4213 - [C-OTG-11] a list of Reasons for Outages: Maintenance, Failure, Shutdown and Other.

4214 11.1.3 ASSUMPTIONS

4215 Data can be submitted for correction or update at any time, even after the end of the
4216 outage/unavailability.

4217 Planned unavailability can be cancelled at any time.

4218 The frequency of submission is not fixed.

4219 No monitoring is performed. For this data domain, submission deadlines are irrelevant to the
4220 platform.

³² Technical Profiles (where one of the Areas is a Bidding Zone Aggregation) constitute a subset of this list.

4221 11.1.4 INTEGRATION

4222 A change in actual availability cannot be transformed into a planned unavailability, and vice
4223 versa. A change in actual availability remains until the affected asset becomes
4224 available/operational.

4225 Planned unavailability may be cancelled, which is reflected as a status update. This is not
4226 permitted for changes in actual unavailability though. If a document has been submitted by
4227 mistake it may be withdrawn/revoked as outlined in chapter 5.1.2.

4228 Reason “Failure” is permitted for changes in actual availability only. Reason “Shutdown” is
4229 permitted for planned unavailability and changes in actual availability of Consumption,
4230 Production and Generation Units.

4231 ENTSO-E administrator may suppress all warnings triggered during validation by changing
4232 configuration.

4233 11.1.5 PUBLICATION RULES

4234 Data items are displayed in table format only.

4235 Latest version of outage will be displayed. Previous versions will be available online, for
4236 example by expanding the view. If there is more than one version of the document, i.e. an
4237 update has been submitted, all versions shall be available with clear indication of version
4238 number.

4239 Submission date and time of each version will be available online, for example by expanding
4240 the view.

4241 11.1.6 DATA CONTAINER STATUS / DATA STATUS

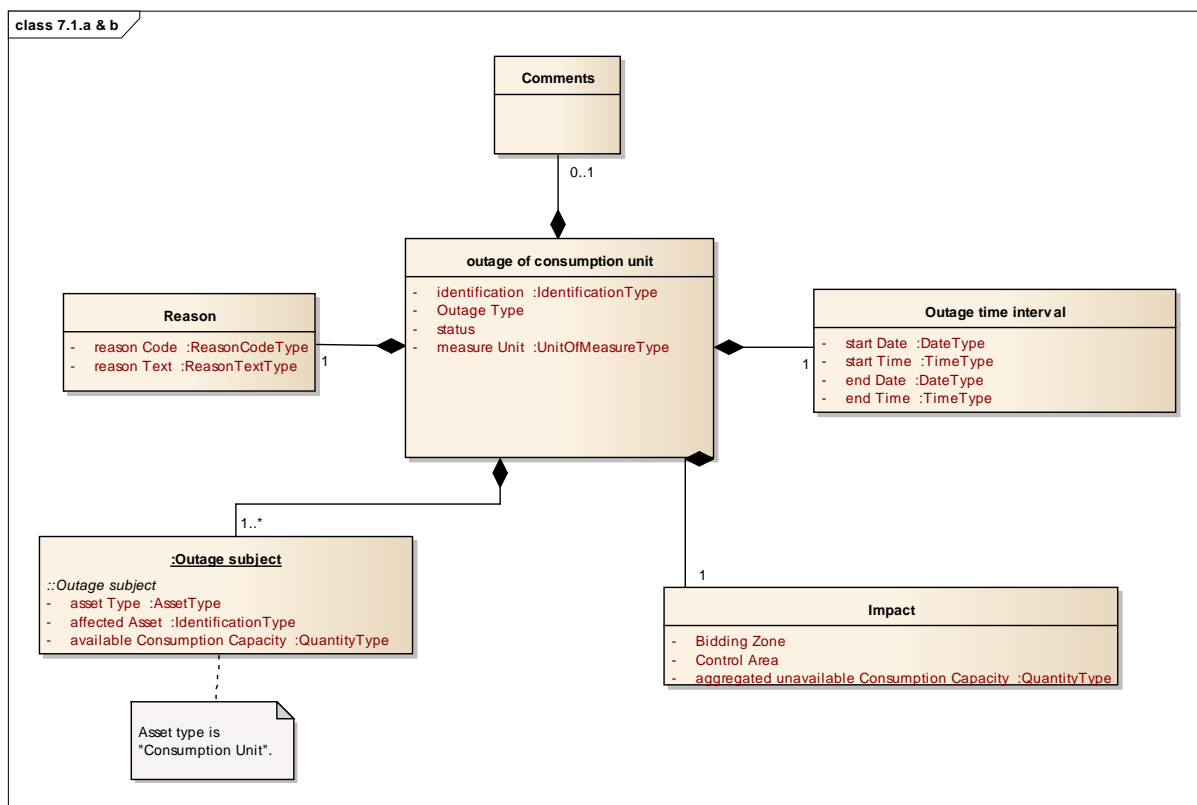
4242 All data follows the “none / ready for publication” scheme.

4243

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 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)

4257 - Type of outage is “planned”

4258 11.2.2 PRE-CONFIGURATION

4259 No specific pre-configuration applies to this data item.

4260 11.2.3 ASSUMPTIONS

4261 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4262 For a given unavailability, there will be only one Data Provider.

4263 Platform shall calculate unavailable capacity in bidding zone per market time unit, based on
4264 the submitted available capacity values.

4265 Available consumption capacity is static during the outage time interval.

4266 11.2.4 INTEGRATION

4267 - The outage subject (asset) described in the document shall be recognised by the platform

4268 - Data Provider shall be consistent with the identified outage subject.

4269 - The Bidding Zone and Control Area described in the document shall be recognised by the
4270 platform

4271 - Data Provider shall be consistent with the identified Bidding Zone and Control Area

4272 11.2.5 PROCESSING

4273 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4274 Platform establishes unavailable consumption capacity per MTU period based on the
4275 submitted available capacity during the outage time interval and the installed capacity of the
4276 Consumption Unit (as recorded per chapter 11.12). In case MTU period only partially
4277 coincides with outage start or end time, the submitted available consumption capacity will
4278 apply also for those MTU periods.

4279 The platform aggregates the unavailable consumption capacity in each Bidding Zone and
4280 Country by Market Time Unit period. A single value per Country, Bidding Zone and MTU
4281 period shall be calculated, taking all planned unavailability into account.

4282 Likewise, a single value shall be established per Country, Bidding Zone and MTU period
4283 taking all changes in actual availability into account (refer to chapter 11.3 regarding changes
4284 in actual availability of consumption units).

4285 Finally, a grand total per Country, Bidding Zone and MTU period shall be calculated, taking
4286 both planned unavailability and changes in actual availability into account.

4287 The unavailability marked for cancellation is marked as such in the platform database and
4288 not taken into account in the aggregation calculation.

4289 Pre-configuration [C-OTG-9] will be used to aggregate values per Country.

4290 11.2.6 PUBLICATION

4291 11.2.6.1 PUBLICATION BEHAVIOUR

4292 An outage marked for cancellation at submission shall be accessible on the platform but
4293 marked explicitly as cancelled.

4294 11.2.6.2 FILTERING AND SORTING CRITERIA

4295 Data shall be visually accessed by selecting the following:

4296 For all options:

4297 - Date or date range (selection is mandatory)

4298 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
4299 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
4300 accordingly)

4301 - Type of unavailability: planned, actual or both, selection is optional

4302 Unavailability for which time interval is either completely or partially on the selected date (or
4303 possibly date range) will be displayed.

4304 11.2.6.3 DISPLAY

4305 This data shall be displayed in the following section:

4306 - **Load / Unavailability**

4307 The following attributes of data shall be displayed:

4308 - Title

4309 - Measure Unit

4310 - MTU

4311 For each outage that falls within the selected date or date range, the following details are
4312 displayed:

4313 - Status (active or cancelled)

- 4314 - Type of unavailability (planned or actual)
- 4315 - The reason for the outage
- 4316 - Country or Bidding Zone
- 4317 - Start date and time
- 4318 - End date and time
- 4319 - The aggregated unavailable consumption capacity per MTU period, by country or Bidding
- 4320 Zone: Separate values for planned unavailability, changes in actual availability and a grand
- 4321 total
- 4322
- 4323

4324 11.3 CHANGES IN ACTUAL AVAILABILITY OF 4325 CONSUMPTION UNITS [7.1.B]

4326 11.3.1 DATA DESCRIPTION

4327 Data description is almost identical to data item “Planned unavailability of consumption units
4328 [7.1.a]”, refer to chapter 11.2. The differences are:

- 4329 - outage type is “actual”
- 4330 - status is always “active”
- 4331 - not more than one outage subject is permitted

4332 11.3.2 PRE-CONFIGURATION

4333 No specific pre-configuration applies to this data item.

4334 11.3.3 ASSUMPTIONS

4335 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4336 For a given unavailability, there will be only one Data Provider.

4337 11.3.4 INTEGRATION

4338 - The document date and time of the submitted document should be posterior to the start
4339 date and time of the unavailability. This will trigger a warning only.

4340 All other validations are the same as for planned outages of consumption units, refer to
4341 chapter 11.2.4.

4342 11.3.5 PROCESSING

4343 Same processing as for planned outages of consumption units, refer to chapter 11.2.5.

4344 11.3.6 PUBLICATION

4345 11.3.6.1 PUBLICATION BEHAVIOUR

4346 No specific publication behaviour applies to this data item.

4347 11.3.6.2 FILTERING AND SORTING CRITERIA

4348 Data shall be displayed together with planned unavailability on the same page. Filter and
4349 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
4350 unavailability (planned or actual) as a criterion. Refer to section 11.2.6.2.

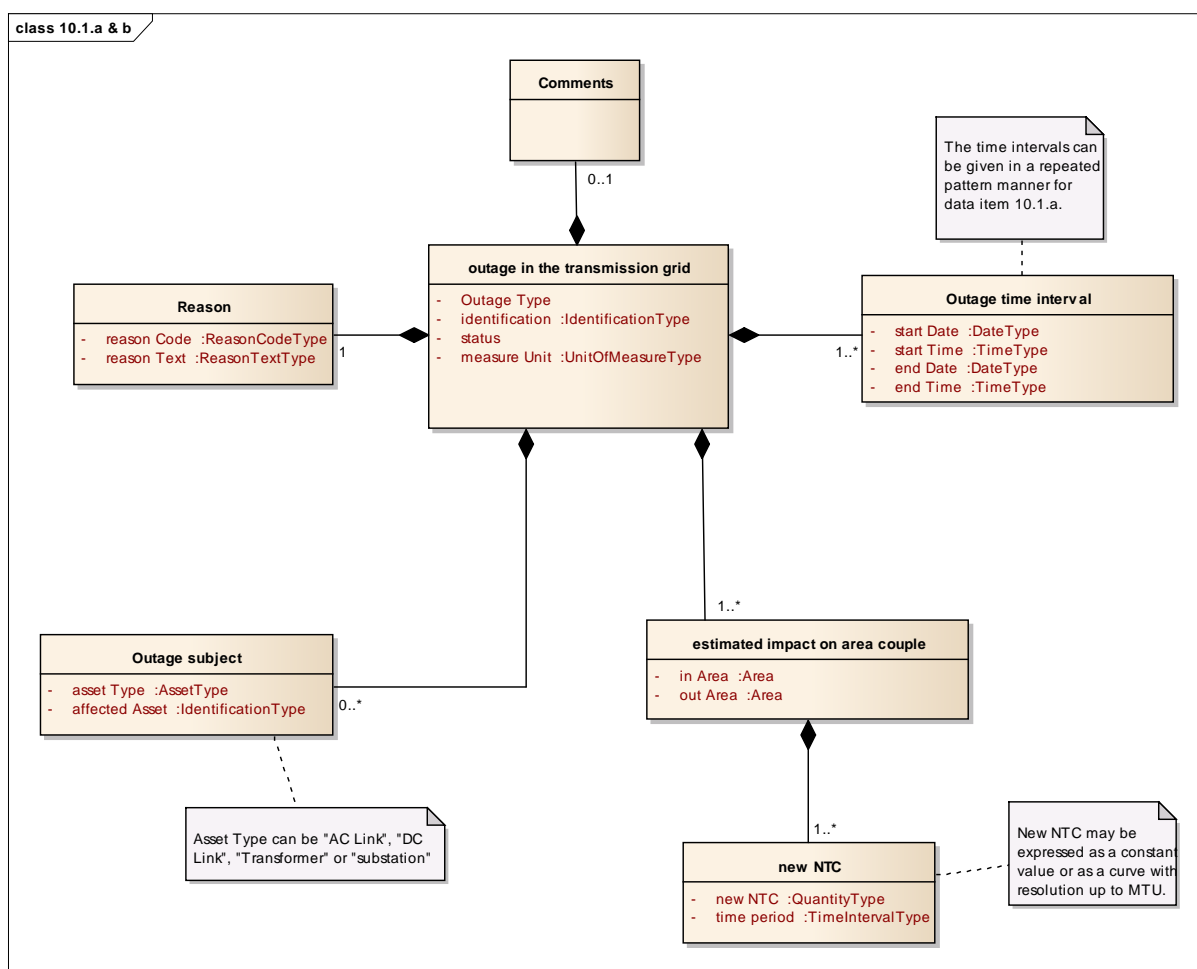
4351 11.3.6.3 DISPLAY

4352 Data shall be displayed together with planned unavailability on the same page. The type of
4353 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

4365 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g.
4366 every day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time
4367 intervals may be included.

4368 - One or several In and Out Area couples that are impacted, along with the new NTC, given
4369 in Measure Unit, for each couple. New NTC may be expressed as a constant value or as a
4370 curve with resolution up to MTU

4371 - Measure Unit is fixed to megawatt (MW)

4372 - For this data item, outage type is “planned”.

4373 - The reason for the planned outage

4374 - Optionally, a free-text comment may be included³³

4375 11.4.2 PRE-CONFIGURATION

4376 For this data item, there is no additional pre-configuration.

4377 11.4.3 ASSUMPTIONS

4378 For outages on interconnectors, there is a memorandum of understanding between Data
4379 Providers that governs who submits data to central platform, to avoid a situation with more
4380 than one data provider submitting data referring to the same outage.

4381 11.4.4 INTEGRATION

4382 - if included in the document, the list of outage subjects (assets) shall be recognised by the
4383 platform.

4384 - The list of In and Out Area couples described in the document shall be recognised by the
4385 platform, as per pre-configuration [C-OTG-6]

4386 - Data Provider shall be consistent with the In and Out Area couples, as per pre-configuration
4387 [C-OTG-7]

4388 - Data Provider shall be consistent with the outage subject(s).

4389 - The outage time intervals may not overlap

4390 - The time interval describing a new NTC must fall within an outage time interval

³³ This includes the explanation of the case when two parallel AC Links are given in the list of affected assets

4391 **11.4.5 PROCESSING**

4392 Outages marked for cancellation shall be marked as cancelled in the platform database.

4393 **11.4.6 PUBLICATION**

4394 **11.4.6.1 PUBLICATION BEHAVIOUR**

4395 [PR-91a-4] An outage marked for cancellation at submission shall be accessible on the
4396 platform but marked explicitly as cancelled

4397 **11.4.6.2 FILTERING AND SORTING CRITERIA**

4398 Data shall be visually accessed by selecting the following:

4399 - Date or date range (selection is mandatory)

4400 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover
4401 the Country will be used as filtering criteria)

4402 - In Area (selection is optional)

4403 - Out Area (selection is optional)

4404 - Type of Asset (selection is optional)

4405 - Type of outage: planned or actual, selection is optional

4406 Outages for which outage time interval falls either completely or partially on the selected date
4407 (or possibly date range) will be displayed.

4408 **11.4.6.3 DISPLAY**

4409 This data shall be displayed in the following section:

4410 **- Transmission Grid / Unavailability**

4411 The following attributes of data shall be displayed:

4412 - Title

4413 For each outage that falls within the selected date or date range, the following details are
4414 displayed:

4415 - Measure Unit

4416 - Status (active or cancelled)

- 4417 - Type of outage (planned or actual)
- 4418 - If provided, the outage subjects with links to pages on central platform that provide full
- 4419 details; type, name and location. This is displayed in a list if more than one asset has been
- 4420 declared.
- 4421 - The reason for the outage
- 4422 - Comments, if available
- 4423 The following information is provided for each declared time interval that falls within the
- 4424 selected date or date range:
- 4425 - Start date and time
- 4426 - End date and time
- 4427 - The In and Out Area(s) and the new NTC. If new NTC is expressed as a curve, it shall be
- 4428 possible to expand the view so time periods and NTC values are displayed in a table and in a
- 4429 chart
- 4430

4431 11.5 CHANGES IN ACTUAL AVAILABILITY IN THE 4432 TRANSMISSION GRID [10.1.B]

4433 11.5.1 DATA DESCRIPTION

4434 Data description is almost identical to data item “Planned unavailability in the transmission
4435 grid [10.1.a]”, refer to chapter 11.2. The differences are:

- 4436 - outage type shall be “actual”
- 4437 - only one time interval is permitted
- 4438 - status is always “active”

4439 Note that several outage subjects are permitted though, also for this data item.

4440 11.5.2 PRE-CONFIGURATION

4441 For this data item, there is no additional pre-configuration.

4442 11.5.3 ASSUMPTIONS

4443 Reasons for the outage can be updated D+1 after the start of the outage.

4444 For outages on interconnectors, there is a memorandum of understanding between Data
4445 Providers that governs who submits data to central platform, to avoid a situation with more
4446 than one data provider submitting data referring to the same outage.

4447 11.5.4 INTEGRATION

4448 - The document date and time of the submitted document should be posterior to the start
4449 date and time of the outage. This validation will trigger a warning only.

4450 All other validations are the same as for planned unavailability of transmission infrastructure,
4451 refer to chapter 11.4.4.

4452 11.5.5 PROCESSING

4453 No processing is performed on this data item.

4454 11.5.6 PUBLICATION

4455 11.5.6.1 PUBLICATION BEHAVIOUR

4456 No specific publication behaviour applies to this data item.

4457 11.5.6.2 FILTERING AND SORTING CRITERIA

4458 Data shall be displayed together with planned outages on the same page. Filter and sorting
4459 criteria are the same as for planned outages. It shall be possible to use type of outage
4460 (planned or actual) as a criterion. Refer to section 11.4.6.2.

4461 11.5.6.3 DISPLAY

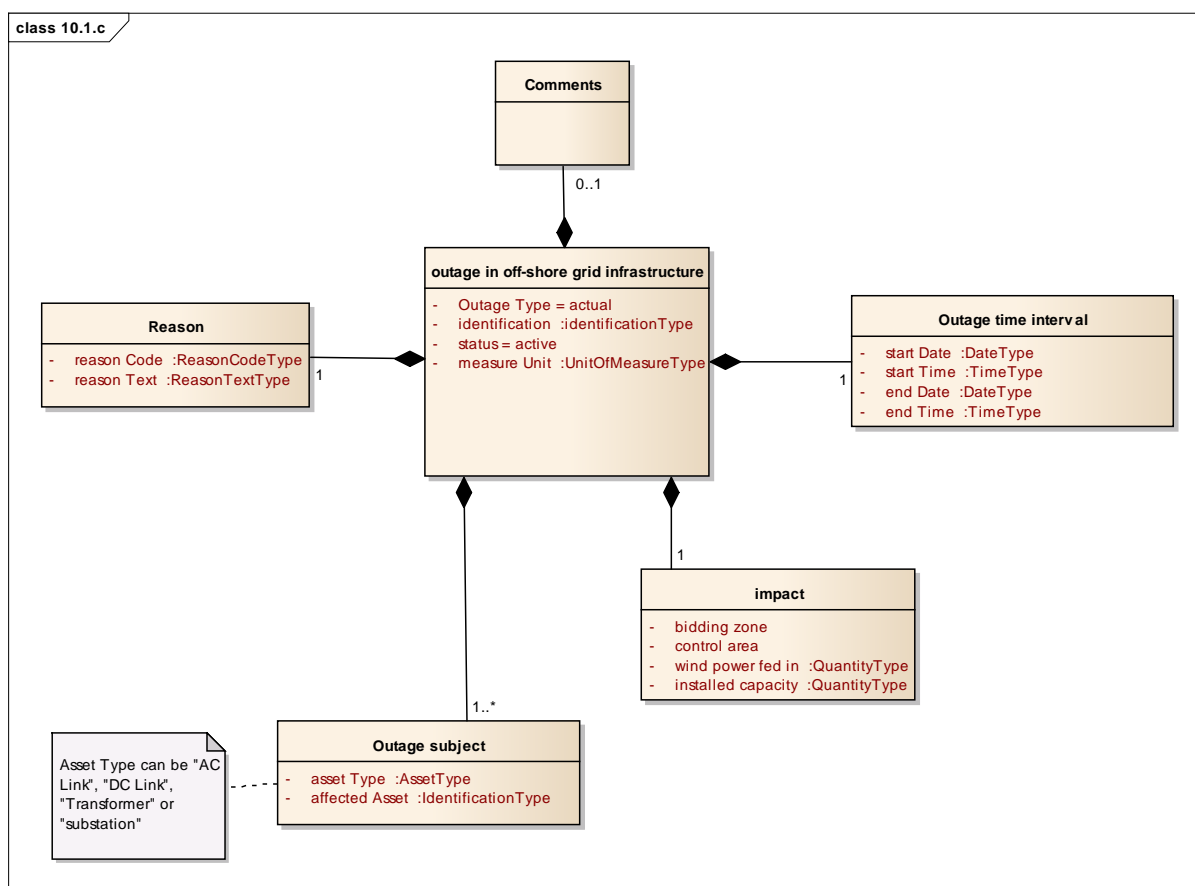
4462 Data shall be displayed together with planned outages on the same page. The type of outage
4463 (planned or actual) shall be displayed. Refer to section 11.4.6.3.

4464

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

- 4477 - Installed generation capacity
- 4478 - Wind power fed in at the time of the change in the availability
- 4479 - Measure Unit is fixed to megawatt (MW)
- 4480 - Outage type is fixed to “actual”
- 4481 - Status is fixed to “active”
- 4482 - The reason for the outage
- 4483 - Optionally, a free-text comment may be provided

4484 11.6.2 PRE-CONFIGURATION

4485 For this data item, there is no additional pre-configuration.

4486 11.6.3 ASSUMPTIONS

4487 Outage of Generation units and Production Units will be accounted for in separate document,
4488 as per chapters 11.8 and 11.10.

4489 11.6.4 INTEGRATION

- 4490 - The outage subjects (assets) described in the document shall be recognised by the
4491 platform. Failure to pass this validation will trigger a warning only.
- 4492 - The Data Provider shall be consistent with the identified outage subjects.
- 4493 - The document date and time of the submitted document should be posterior to the start
4494 date and time of the outage. This validation will trigger a warning only.

4495 11.6.5 PROCESSING

4496 No processing is performed on this data item.

4497 11.6.6 PUBLICATION

4498 11.6.6.1 PUBLICATION BEHAVIOUR

4499 No specific publication behaviour applies to this data item.

4500 11.6.6.2 FILTERING AND SORTING CRITERIA

4501 Data shall be visually accessed by selecting the following:

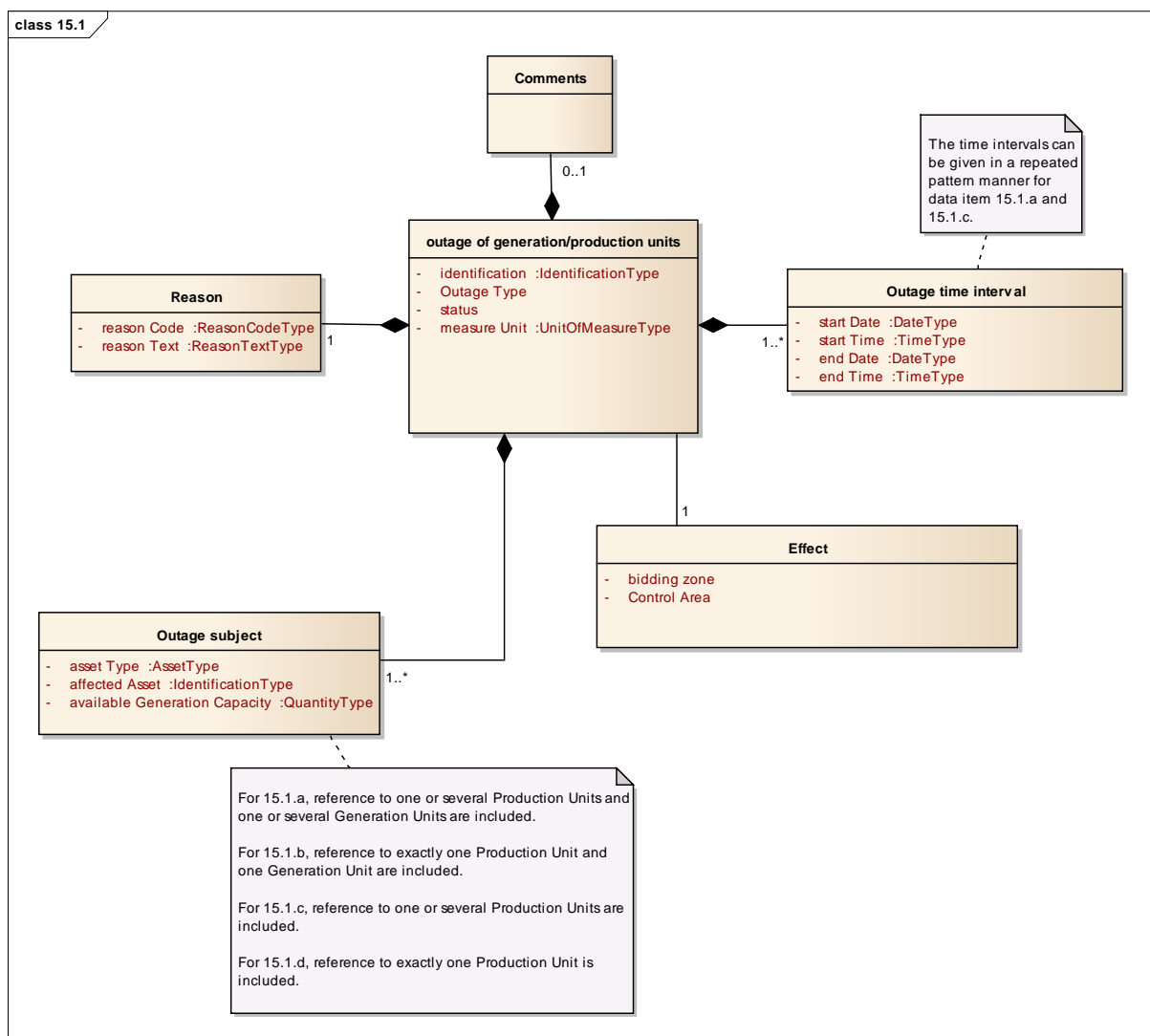
- 4502 - Date or date range (selection is mandatory)
- 4503 - Country or Bidding Zone (selection is mandatory); if Country is selected, pre-configuration
- 4504 [C9] will be used to identify the corresponding Control Area and filter Outages accordingly)
- 4505 Outages for which time interval falls either completely or partially on the selected date (or
- 4506 possibly date range) will be displayed.
- 4507 **11.6.6.3 DISPLAY**
- 4508 Data shall be displayed in the following section:
- 4509 **- Transmission Grid / Unavailability of off-shore grid**
- 4510 The following attributes of data shall be displayed:
- 4511 - Title
- 4512 - Measure Unit
- 4513 For each outage that falls within the selected date or date range, the following details are
- 4514 displayed:
- 4515 - Country or Bidding Zone
- 4516 - Status (always “active”)
- 4517 - Type of outage (always “actual”)
- 4518 - The outage subjects with links to pages on central platform that provide full details; asset
- 4519 type, name, location. This is provided in a list if more than one asset has been declared.
- 4520 - The reason for the outage
- 4521 - Comments, if available
- 4522 - Start date and time
- 4523 - End date and time
- 4524 - installed generation capacity
- 4525 - Wind power fed in
- 4526

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

- 4536 - The outage subject, defined by the asset Type (Generation Unit) and its Unique Code
- 4537 - The Production Unit that the Generation Unit belongs to, defined by the asset Type
- 4538 (Production Unit) and its Unique Code
- 4539 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g.
- 4540 every day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time
- 4541 intervals may be included.
- 4542 - The estimated available generation capacity in Measure Unit
- 4543 - The reason for the planned outage
- 4544 - Measure Unit is fixed to megawatt (MW)
- 4545 - Optionally, a free-text comment may be provided

4546

4547 11.7.2 PRE-CONFIGURATION

4548 No specific pre-configuration applies to this data item.

4549 11.7.3 ASSUMPTIONS

4550 Unavailability of generation units is submitted per Bidding Zone and Control Area. For a

4551 given unavailability, there will be only one Data Provider.

4552 Installed capacity of generation unit is recorded in Master Data.

4553 11.7.4 INTEGRATION

- 4554 - The outage subject (asset) described in the document shall be recognised by the platform
- 4555 - Outage subject shall be consistent with Bidding Zone and Control Area
- 4556 - Data Provider shall be consistent with Bidding Zone and Control Area
- 4557 - Data Provider shall be consistent with the identified outage subject.

4558 11.7.5 PROCESSING

4559 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4560 Platform deduces Name of Generation Unit, location, production type and installed

4561 generation capacity based on the submitted Unique Code.

4562 Platform deduces Name of Production Unit based on the submitted Unique Code of the

4563 Production Unit.

4564 11.7.6 PUBLICATION

4565 11.7.6.1 PUBLICATION BEHAVIOUR

4566 An outage marked for cancellation at submission shall be accessible on the platform but
4567 marked explicitly as cancelled

4568 11.7.6.2 FILTERING AND SORTING CRITERIA

4569 Data shall be visually accessed by selecting the following:

4570 - Date or date range (selection is mandatory)

4571 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
4572 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
4573 accordingly)

4574 - Type of unavailability: planned or actual, selection is optional

4575 Unavailability for which time interval falls either completely or partially on the selected date
4576 (or possibly date range) will be displayed.

4577 11.7.6.3 DISPLAY

4578 This data shall be displayed in the following section:

4579 - **Generation / Unavailability**

4580 There shall be a link to the section Generation / List of Production Units and Installed
4581 Capacity, refer to 9.3.8.2.

4582 - Title

4583 - Measure Unit (MW)

4584 For each outage that falls within the selected date or date range, the following details are
4585 displayed:

4586 - Status (active or cancelled)

4587 - The outage subject(s) with link to page on central platform that provide full details;
4588 Production Type, Production and Generation Unit names and installed capacity.

4589 - The reason for the outage

4590 - Comments, if available

4591 - Country or Bidding Zone

4592 - Type of unavailability (planned or actual)

4593 - The available generation capacity

4594 The following information is provided for each declared time interval that falls within the
4595 selected date or date range:

4596 - Start date and time

4597 - End date and time

4598

4599 11.8 CHANGES IN ACTUAL AVAILABILITY OF GENERATION 4600 UNITS [15.1.B]

4601 11.8.1 DATA DESCRIPTION

4602 Data description is almost identical to data item “Planned unavailability of generation units
4603 [15.1.a]”, refer to chapter 11.6. The differences are:

- 4604 - outage type shall be “actual”
- 4605 - only one time interval is permitted
- 4606 - status is always “active”
- 4607 - not more than one generation unit and production unit included

4608 11.8.2 PRE-CONFIGURATION

4609 No specific pre-configuration applies to this data item.

4610 11.8.3 ASSUMPTIONS

4611 Unavailability of generation units is submitted per Bidding Zone and Control Area.

4612 For a given unavailability, there will be only one Data Provider.

4613 Installed capacity of generation unit is recorded in Master Data.

4614 11.8.4 INTEGRATION

4615 The document date and time of the submitted document should be posterior to the start date
4616 and time of the unavailability. This validation shall trigger a warning only.

4617 All other validations are the same as for planned unavailability of generation units, refer to
4618 chapter 11.7.4.

4619 11.8.5 PROCESSING

4620 Platform deduces Name of Generation Unit, location, production type and installed
4621 generation capacity based on the submitted Unique Code.

4622 Platform deduces Production Unit and retrieves its Name based on reference data described
4623 in 9.9. The submitted Unique Code of Production Unit is used as key.

4624 **11.8.6 PUBLICATION**

4625 **11.8.6.1 PUBLICATION BEHAVIOUR**

4626 No specific publication behaviour applies to this data item.

4627 **11.8.6.2 FILTERING AND SORTING CRITERIA**

4628 Data shall be displayed together with planned unavailability on the same page. Filter and
4629 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
4630 unavailability (planned or actual) as a criterion. Refer to section 11.7.6.2.

4631 **11.8.6.3 DISPLAY**

4632 Data shall be displayed together with planned unavailability on the same page. The type of
4633 unavailability (planned or actual) shall be displayed. Refer to section 11.7.6.3.

4634

4635 11.9 PLANNED UNAVAILABILITY OF PRODUCTION UNITS

4636 [15.1.c]

4637 11.9.1 DATA DESCRIPTION

4638 Data description is almost identical to data item "Planned unavailability of generation units
4639 [15.1.a]", refer to chapter 11.6. The difference is that Asset Type is Production Unit.

4640 11.9.2 PRE-CONFIGURATION

4641 No specific pre-configuration applies to this data item.

4642 11.9.3 ASSUMPTIONS

4643 Unavailability of Production Units is submitted per Bidding Zone and Control Area.

4644 For a given unavailability, there will be only one Data Provider.

4645 Installed capacity per Production Unit has been recorded in Master Data.

4646 11.9.4 INTEGRATION

4647 - The outage subject (asset) described in the document shall be recognised by the platform

4648 - Outage subject shall be consistent with Bidding Zone and Control Area

4649 - Data Provider shall be consistent with Bidding Zone and Control Area

4650 - Data Provider shall be consistent with the identified outage subject.

4651 11.9.5 PROCESSING

4652 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4653 Platform deduces Name of Production Unit, location, production type and installed
4654 generation capacity based on the submitted Unique Code.

4655 11.9.6 PUBLICATION

4656 11.9.6.1 PUBLICATION BEHAVIOUR

4657 An outage marked for cancellation at submission shall be accessible on the platform but
4658 marked explicitly as cancelled.

4659 11.9.6.2 FILTERING AND SORTING CRITERIA

4660 Data shall be visually accessed by selecting the following:

4661 - Date or date range (selection is mandatory)

4662 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
4663 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
4664 accordingly)

4665 - Type of unavailability: planned or actual, selection is optional

4666 Unavailability for which time interval falls either completely or partially on the selected date
4667 (or possibly date range) will be displayed.

4668 11.9.6.3 DISPLAY

4669 This data shall be displayed in the following section:

4670 - **Generation / Unavailability**

4671 There shall be a link to the section Generation / List of Production Units and Installed
4672 Capacity, refer to 9.3.8.2.

4673 - Title

4674 - Measure Unit (MW)

4675 For each outage that falls within the selected date or date range, the following details are
4676 displayed:

4677 - Status (active or cancelled)

4678 - The outage subject(s) with link to page(s) on central platform that provide full details;
4679 Production Type, Production Unit name and installed capacity.

4680 - The reason for the outage

4681 - Comments, if available

4682 - Country or Bidding Zone

4683 - Type of unavailability (planned or actual)

4684 - The available generation capacity

4685 The following information is provided for each declared time interval that falls within the
4686 selected date or date range:

4687 - Start date and time

4688 - End date and time

4689

11.10 CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION

UNITS [15.1.D]

11.10.1 DATA DESCRIPTION

Data description is almost identical to data item “Planned unavailability of production units [15.1.c]”, refer to chapter 11.9. The differences are:

- outage type shall be “actual”
- only one time interval is permitted
- status is always “active”
- not more than one production unit included

11.10.2 PRE-CONFIGURATION

No specific pre-configuration applies to this data item.

11.10.3 ASSUMPTIONS

Installed capacity per Production Unit has previously been recorded in Master Data.

Unavailability of production units is submitted per Bidding Zone and Control Area.

For a given unavailability, there will be only one Data Provider.

11.10.4 INTEGRATION

The document date and time of the submitted document should be posterior to the start date and time of the unavailability. This validation shall trigger a warning only.

All other validations are the same as for planned unavailability of generation units, refer to chapter 11.7.4.

11.10.5 PROCESSING

Platform deduces Name of Production Unit, location, production type and installed generation capacity based on the submitted Unique Code.

4713 11.10.6 PUBLICATION

4714 11.10.6.1 PUBLICATION BEHAVIOUR

4715 No specific publication behaviour applies to this data item.

4716 11.10.6.2 FILTERING AND SORTING CRITERIA

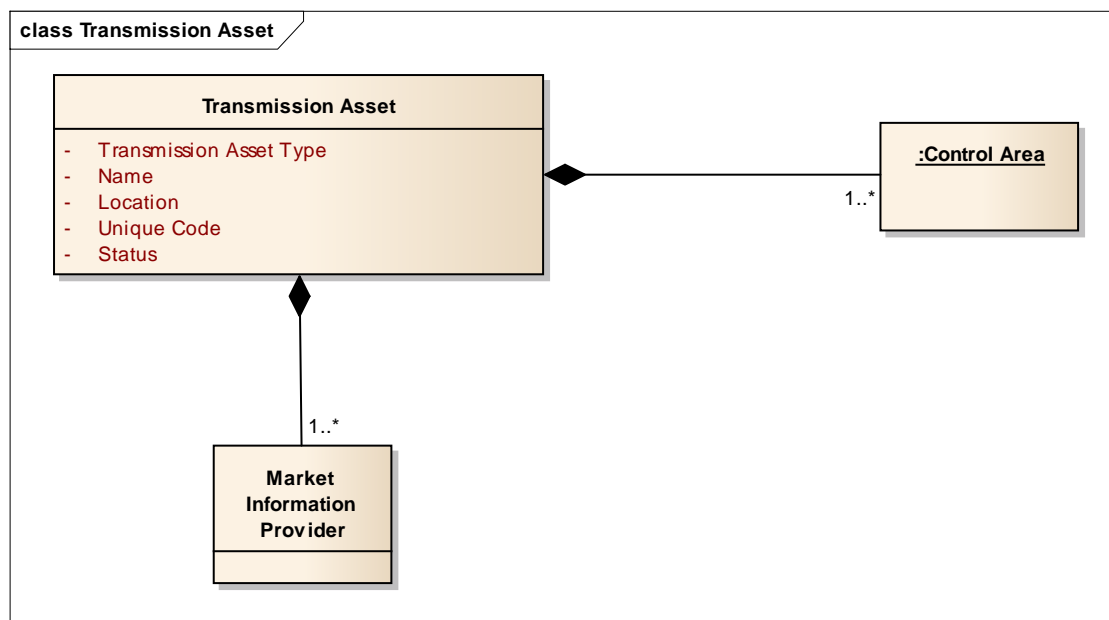
4717 Data shall be displayed together with planned unavailability on the same page. Filter and
4718 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
4719 unavailability (planned or actual) as criteria. Refer to section 11.9.6.2.

4720 11.10.6.3 DISPLAY

4721 Data shall be displayed together with planned unavailability on the same page. The type of
4722 unavailability (planned or actual) shall be displayed. Refer to section 11.9.6.3.

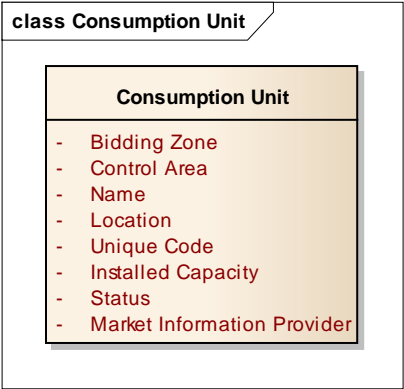
4723

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 (Sub-station, 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.

4739 11.12 CONSUMPTION UNITS

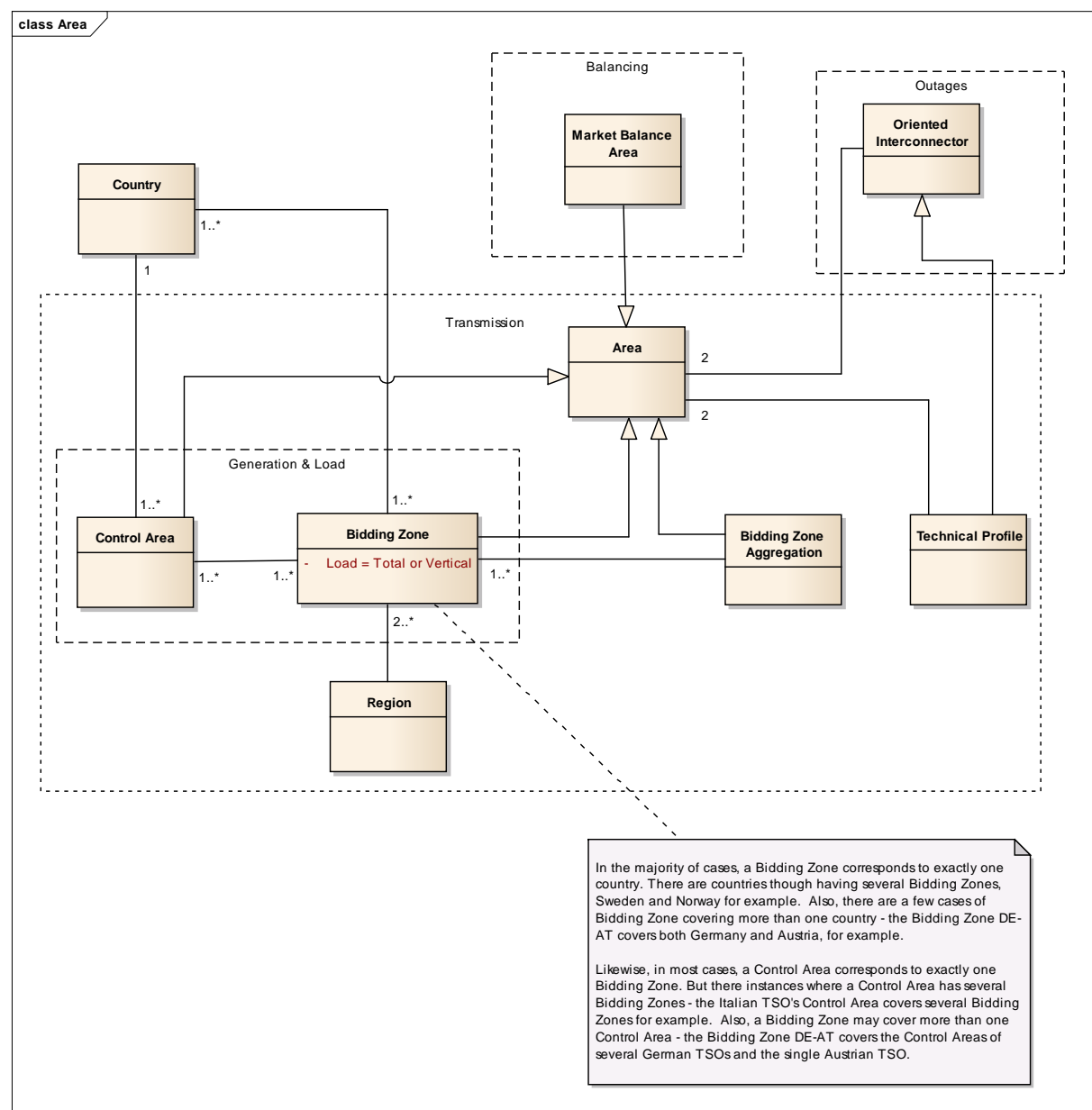


- 4740
- 4741 Reference data for consumption units will have similar structure and maintenance
- 4742 mechanism as generation units, refer to chapter 9.9. Just like generation units, consumption
- 4743 units will have a status (commissioned, decommissioned or cancelled), bidding area, control
- 4744 area, a unique code, name and location. Installed capacity is mandatory.
- 4745 Similar to generation units, a consumption unit will have only one Data Provider.
- 4746 Consumption Units shall be displayed in the following section on the website:
- 4747 - **Load / Consumption Units**
- 4748 It shall be possible to filter the consumption units by Control Area, Bidding Zone or Country.
- 4749

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



4757 Bidding Zone is used in all domains except Balancing, where Market Balance Area is used
4758 instead.

4759 A Control Area never overlaps another Control Area. Likewise, a Bidding Zone never
4760 overlaps another Bidding Zone.

4761 In the Transmission domain, there are Regions and aggregation of Bidding Zones. An Area
4762 may consist of either a single Bidding Zone or a Bidding Zone Aggregation. Also in
4763 Transmission domain, a Technical Profile consists of two Areas with a direction. See section
4764 7.1 for further details.

4765 For Outages, there are Oriented Interconnectors that consist of two Areas with a direction.
4766 See also section 11.1.2.

4767 12.2 ASSETS

4768 There are four types of assets: Generation Units, Production Units, Consumption Units and
4769 Transmission Assets. Refer to diagram in section 11.1.1.

4770 More information on Generation and Production Units is available in section 9.9.
4771 Consumption Units are detailed in 11.12. Transmission Assets are described in section
4772 11.11.

4773 12.3 TRANSMISSION CAPACITY ALLOCATIONS AND 4774 CAPACITY PRODUCTS

4775 Capacity Allocations and products are relevant to the Transmission domain. Capacity
4776 Allocations can be either explicit or implicit. Capacity products are associated with Capacity
4777 Allocations and are characterised by two Areas with a direction and a Contract Type, and
4778 additionally for explicit allocations a Classification Category and a Classification Sequence.

4779 Further details on Transmission Capacity Allocations and Capacity Products are available in
4780 chapters 7.1.1 and 7.26.

4781 12.4 PROCESSES, RESERVES AND PRICE TYPES

4782 In the Balancing domain, there are constraints on the valid combinations of Market Balance
4783 Area, Reserves and Price Type. Full details are available in chapters 10.1.1 and 10.1.2. For
4784 some data items also Contract Types may be relevant. Contract Types are the same as in
4785 Transmission domain.

4786 12.5 TIME UNITS

4787 In all domains except Balancing, Market Time Units are used and depend on Bidding Zone or
4788 Bidding Zone Aggregation. For Balancing, Balancing Time Units are used and depend on
4789 Market Balance Area.

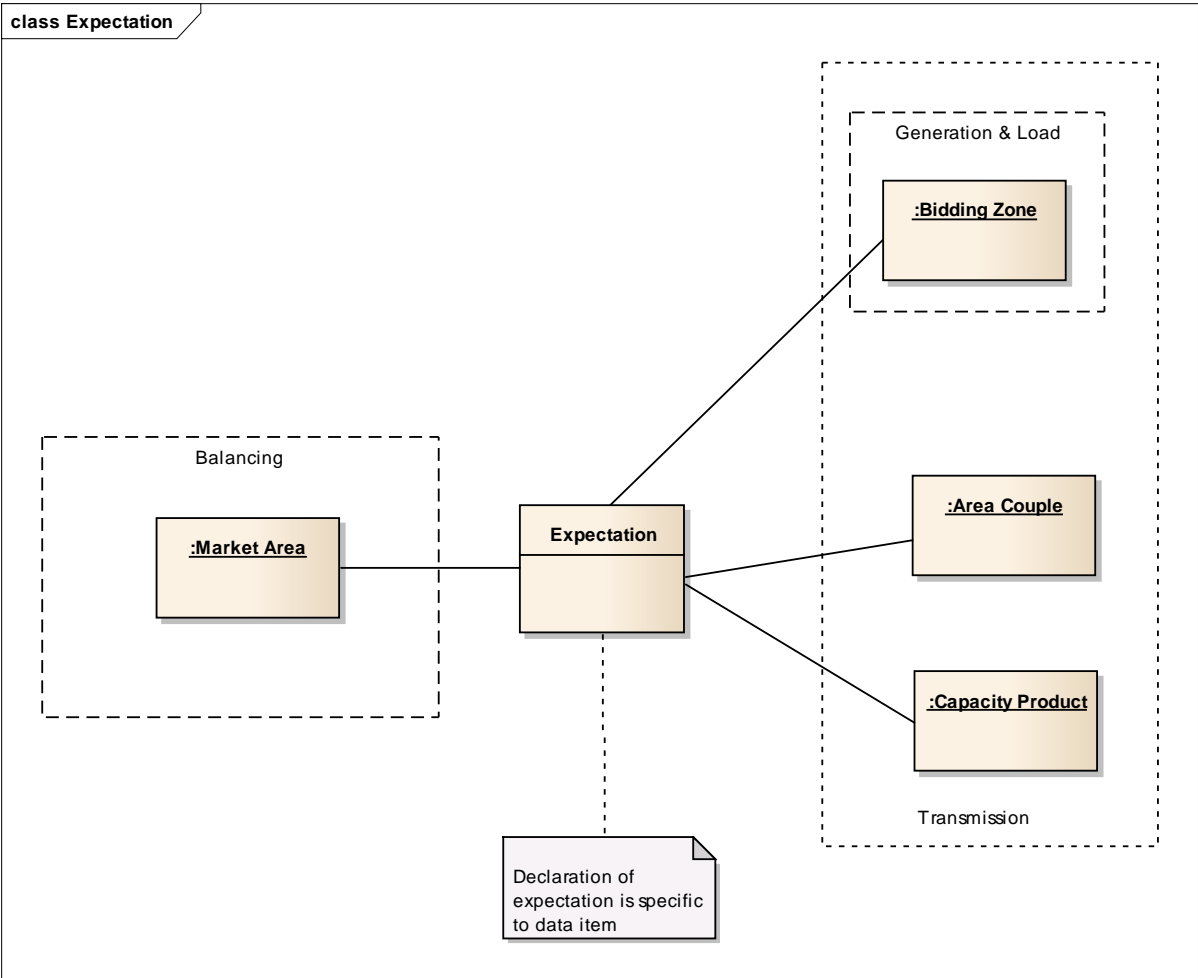
4790 12.6 ACTIONS AND REASONS

4791 For Congestion Management, different sets of actions are foreseen. Further details provided
4792 in chapter 8.1.2.

4793 For Outages, a single set of reason codes is foreseen, common to all kinds of Outages.
4794 Details are provided in chapter 11.1.2.

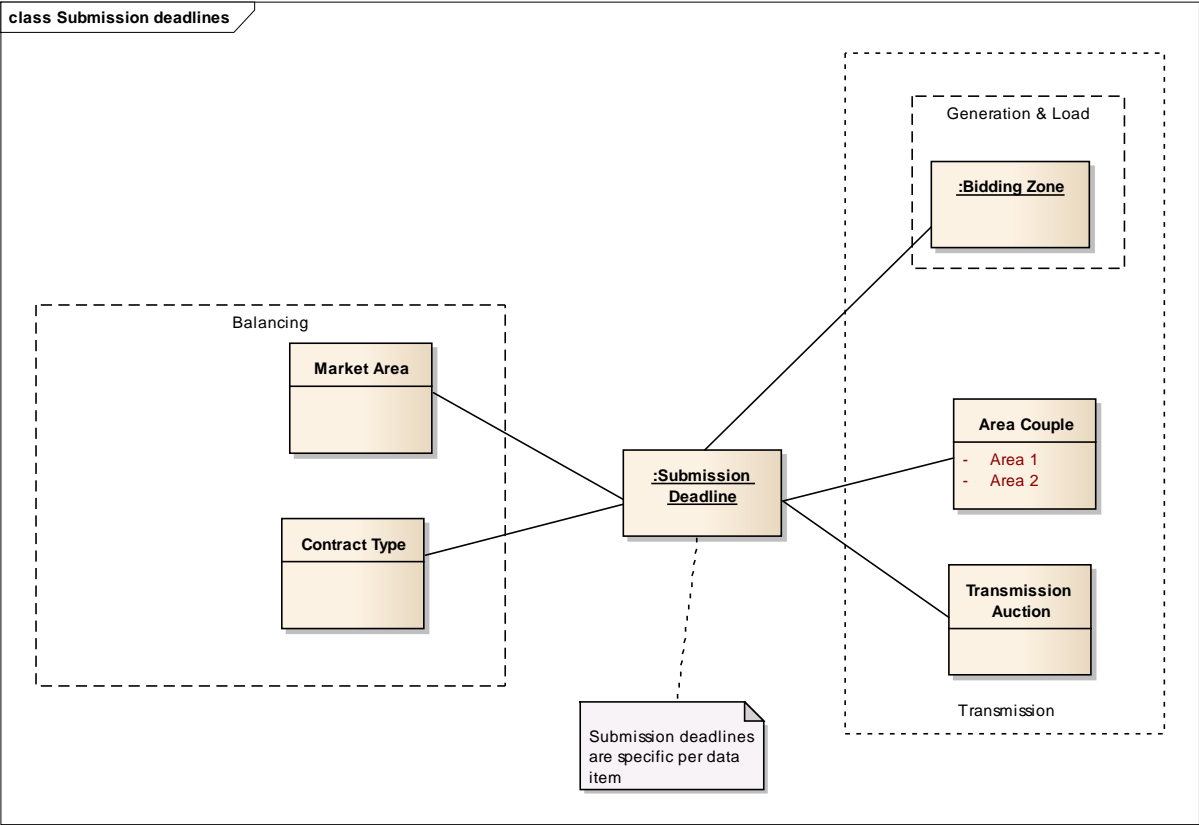
4795 12.7 DATA ITEMS

4796 12.7.1 EXPECTATION OF DATA



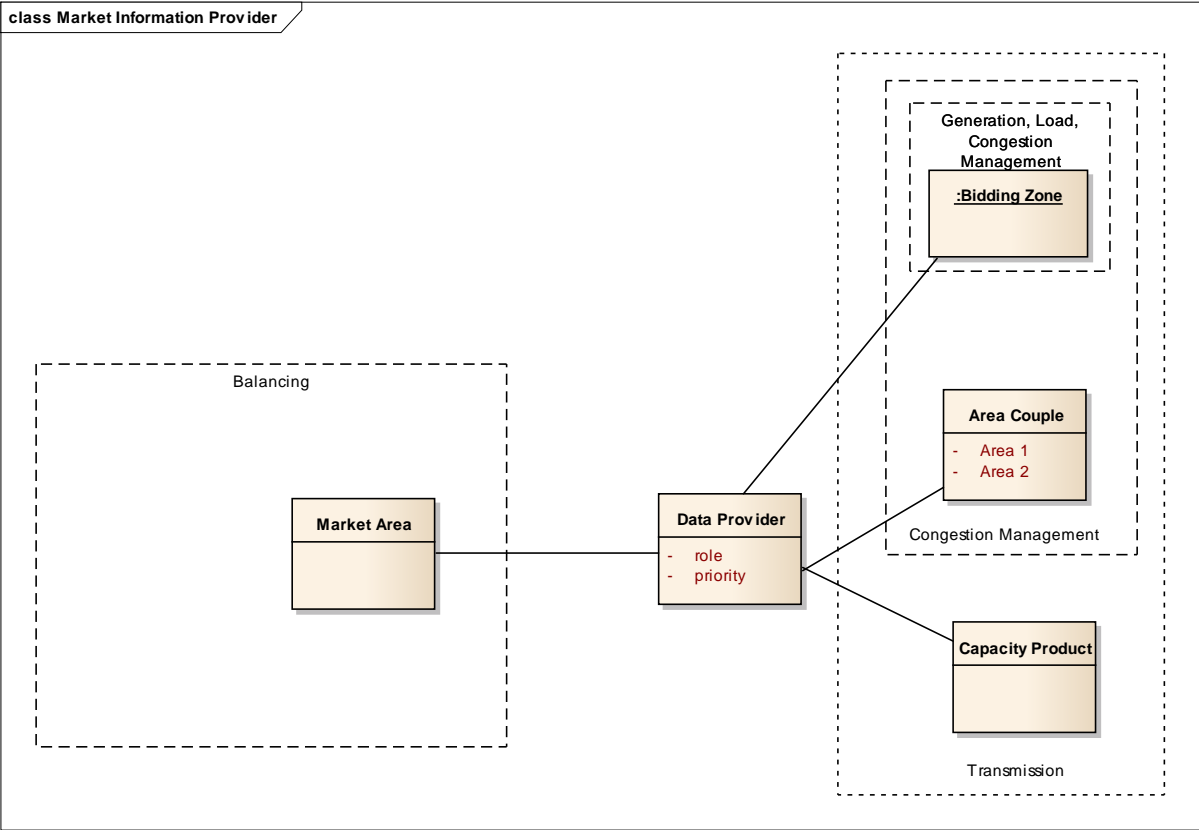
- 4797
- 4798 Whether data is expected or not is declared per Bidding Zone for data items in the domains
- 4799 Generation and Load. In the Transmission domain, expectation is declared per Bidding Zone,
- 4800 Bidding Zone couple or per Technical Profile. For some Transmission data items related to
- 4801 capacity allocations, expectation is determined per capacity product.
- 4802 For data items in the Balancing domain, expectation is declared per Market Balance Area.

4803 12.7.2 SUBMISSION DEADLINES



- 4804
- 4805 For data items in Generation and Load domains, submission deadlines are determined by
- 4806 Bidding Zone.
- 4807 In Transmission domain, deadlines are defined per Bidding Zone or couple of Bidding Zones.
- 4808 For some Transmission data items related to capacity allocations, submission deadlines are
- 4809 set per capacity allocation instance.
- 4810 For data items in the Balancing domain, submission deadlines are defined per Market
- 4811 Balance Area and for some data items also per Contract Type.

4812 12.7.3 ALLOWED DATA PROVIDERS



- 4813
- 4814 Data Providers have a priority and a role – those attributes are relevant in the Transmission
- 4815 domain only.
- 4816 In the domains Generation and Load, the allowed Data Providers are associated with the
- 4817 Control Area and Bidding Zone.
- 4818 In the Transmission and Congestion Management domains, the allowed Data Providers are
- 4819 associated with Bidding Zone, a couple of Bidding Zones or a Technical Profile. For some
- 4820 data items related to Transmission capacity allocations, allowed Data Providers are identified
- 4821 per Capacity Allocation.
- 4822 In the Balancing domain, the allowed Data Provider is associated with Market Balance Area.