



European Network of
Transmission System Operators
for Electricity

*CENTRAL INFORMATION
TRANSPARENCY PLATFORM
-
BUSINESS REQUIREMENTS
SPECIFICATION*

2023-04-21

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101 REVISION HISTORY

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

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

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

Version	Release	Date	Comments
			<p>Addition of new process for IN under EB GL art. 12.3.k.</p> <p>Under TR art. 17.1.g, h and i; editorial change of status for published document.</p> <p>Merged publications of TR art. 17.1.b&c. Contract type made optional, procurement timestamp and type of product introduced.</p> <p>Corresponding updates made to EB GL art. 12.3.f: Time horizon optional, introduced procurement timestamp.</p> <p>Aligned TR 17.1.g with methodology for harmonized imbalance settlement: Introduced optional price components, single or dual pricing, deprecated separate prices for generation and consumption.</p> <p>Volumes and prices of balancing energy bids based on standard aFRR product, but selected for activation locally by TSO, will be reported separately under TR art. 17.1.f and EB GL art. 12.3.e.</p>
<u>3</u>	<u>4</u>	<u>2023-04-21</u>	<p><u>Introduced continuous allocations:</u></p> <p><u>Publication of TR 11.1.a Evolution of offered capacity is in scope for continuous allocations only. This is the only publication in scope for continuous allocations.</u></p> <p><u>Publication under TR 12.1.d renamed to Energy Prices and introduced support for optional publication of intraday prices.</u></p> <p><u>Publications under TR.12.1.e Intraday net positions replaced by Total net positions.</u></p> <p><u>Added publication of net positions under TR 12.1.f.</u></p> <p><u>Suppressed distinction market coupling/splitting which was recorded internally in transparency platform for informational purposes only.</u></p> <p><u>Clarified visibility of transmission assets, consumption units and</u></p>

Deleted: Net positions no longer linked to implicit allocations only. ...

Version	Release	Date	Comments
			<u>production and generation units toward different categories of users.</u> <u>Under TR article 11.1.b, de-anonymisation of the transmission assets and publication of additional parameters relevant to flow-based allocations.</u>

Deleted:

104
105
106

108 REFERENCE DOCUMENTS

- 109 [1] Commission Regulation (EU) N° 543/2013 of 14 June 2013 on submission and
110 publication of data in electricity markets and amending Annex I to Regulation (EC) No
111 714/2009 of the European Parliament and of the Council, referred to as TR in this document
- 112 [3] Detailed Data Descriptions – MoP Ref02
- 113 [4] Implementation Guides – MoP Ref05 through Ref09
- 114 [5] ENTSO-E Acknowledgement Document (EAD) Implementation Guide – version 5.1
- 115 [6] EMR Glossary: [link](#)
- 116 [7] ETSO Problem Statement Document Implementation Guide version 2.0 – MoP Ref16
- 117 [8] The Harmonised Electricity Market Role Model
- 118 [9] Manual of Procedures
- 119 [11] ECAN Implementation Guide v5r0: [link](#)
- 120 [12] Commission Regulation (EU) N° 2195/2017 of 23 November 2017 establishing a
121 guideline on electricity balancing, referred to as GL EB in this document
- 122 [13] Implementation guide for the Transparency Platform EB GL process – MoP Ref22

123 Note concerning wording used in this document:

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

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

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

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

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

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

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

1 INTRODUCTION

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

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

The project objectives are:

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

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

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

2 OBJECTIVE

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

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

3 TERMS, ACRONYMS AND ABBREVIATIONS

3.1 ACRONYMS AND ABBREVIATIONS

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

3.2 TERMS

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

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

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

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

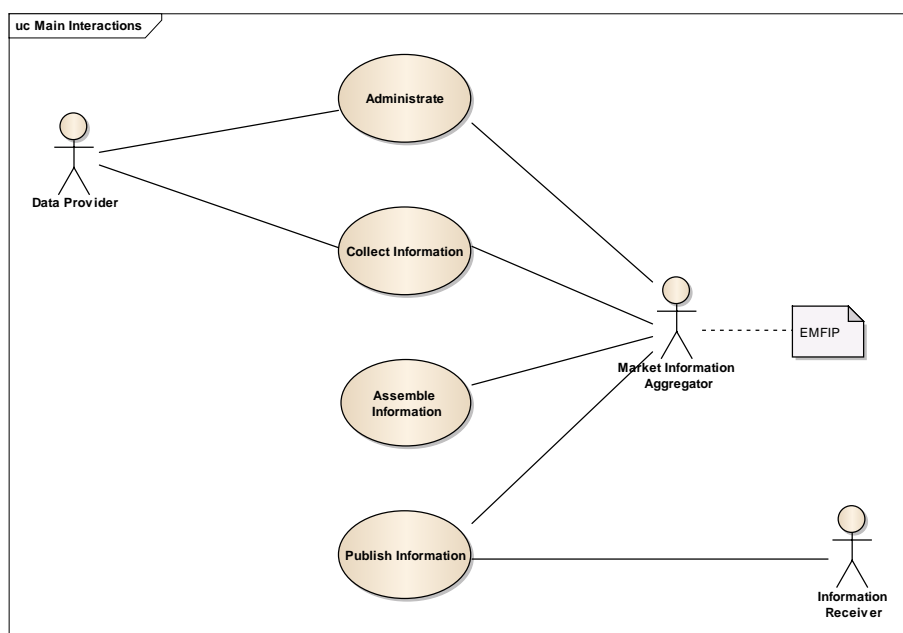
Deleted: auction and market coupling/splitting.

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

4.1 ACTORS AND USE CASES



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

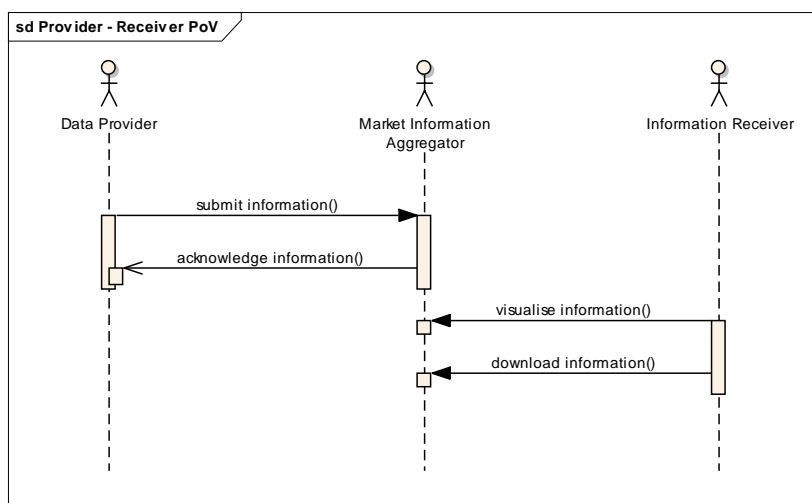
- Data Provider can either be a TSO or a third party acting as data provider. The Data Provider is not necessarily the primary owner of information but it is the entity that submits information to the Market Information Aggregator
- Market Information Aggregator: Embodied by the platform in this context,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

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

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

211 4.2 EXTERNAL POINT OF VIEW SEQUENCE DIAGRAM

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



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

224

5 GENERAL BUSINESS REQUIREMENTS

5.1 SUBMISSION

5.1.1 BUSINESS RULES

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

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

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

5.1.2 UPDATES

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

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

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

5.1.3 REQUIREMENTS

The 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.

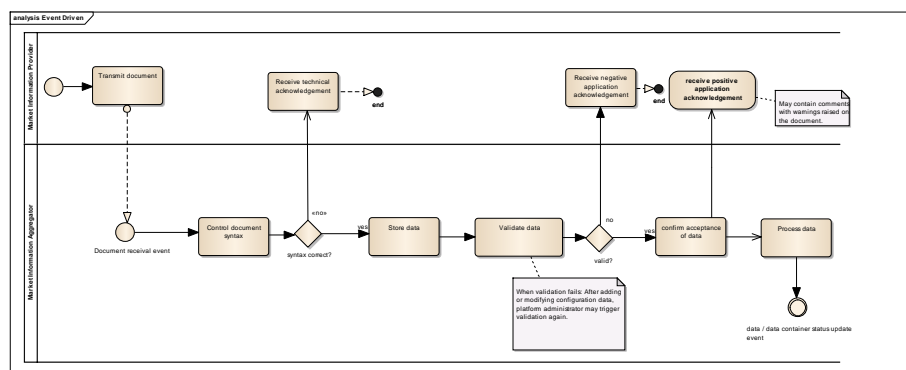
The platform shall support a variety of data submission frequencies (yearly, monthly, daily, hourly, etc).

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.



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

277 1) Control document syntax

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

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

284 2) Validate data content

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

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

293 Validations may also generate warnings. A warning is not reason to reject the document.
294 Warnings could for example be generated when reference data is missing. Data Provider
295 may consult warnings on the web pages requiring privileged access².

296 5.2.2 REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

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

319 Data Provider only will have access to invalid data.

320 5.3 PROCESSING

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

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

326 5.4 MONITORING

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

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

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

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

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

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

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

341 5.4.1 MONITORING OF DATA ITEMS REQUIRING AGGREGATION

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

347 5.4.2 DECLARATION OF EXPECTATION AND SUBMISSION DEADLINES

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

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

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

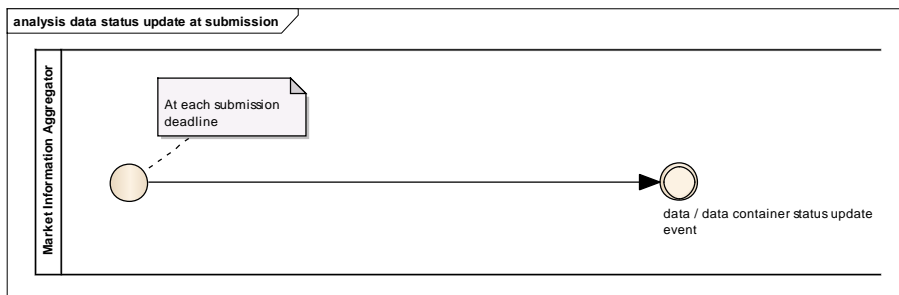
356 - the **definition of the submission deadline** (e.g. declaration that this "forecasted monthly
357 transfer capacity" has to be submitted no later than the 15th of the preceding month).

358 5.4.3 MONITORING FREQUENCY

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

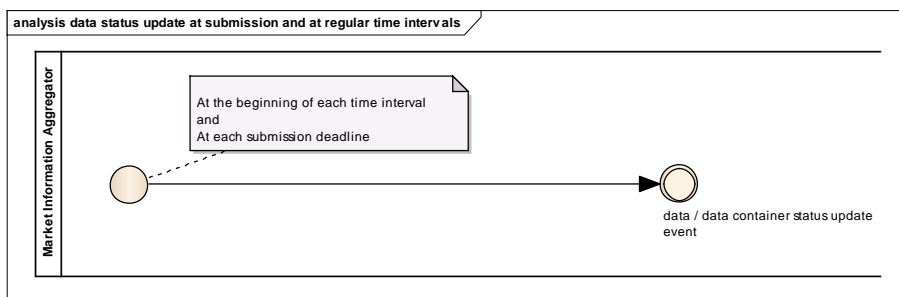
361 This data status update is performed at predetermined times, which can be:

362 - at each submission deadline



or

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



5.5 DATA CONTAINER STATUS / DATA STATUS

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

- a data receipt event
- a monitoring event

For expected and monitored data, three schemes are possible:

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

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

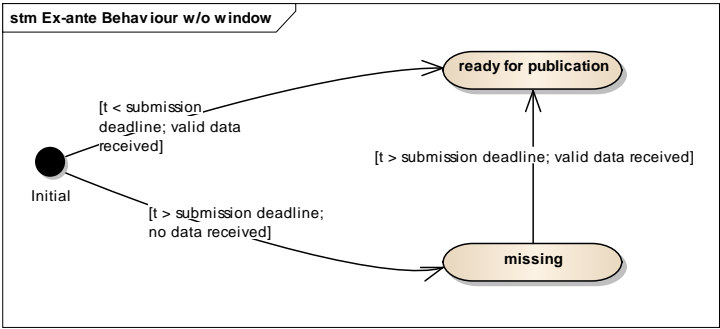
- 378 - a data receipt event
- 379 For expected but not monitored data (i.e. with no submission deadline), only one scheme is
380 possible:
- 381 - None / Ready for publication scheme
- 382 Data that is not expected will be rejected by platform.

383 5.5.1 NONE / READY FOR PUBLICATION / MISSING SCHEME

- 384 - Until submission deadline, data can have the following additional status: none or ready for
385 publication. Indeed, for this data item, data is to be published as soon as possible
- 386 - After submission deadline, data can have the following additional status: missing or ready for
387 publication. Indeed, for this data item, the behaviour is based on a submission deadline and
388 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

- 389
- 390 The following state diagram describes the different possible states for an expected data and
391 the transition between them.



- 392
- 393 Whenever the platform receives data or at submission deadline, the platform checks state
394 transition conditions to update the status of expected data.

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

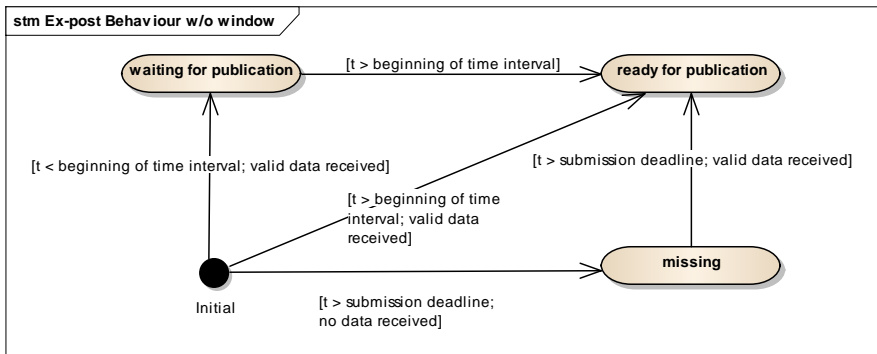
- Until the beginning of the time interval, data can have the following additional status: none or waiting for publication. Indeed, this data item should refer to ex-post information and should not be published before the beginning of the operating period⁴.

- 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

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

411 5.5.3 NONE / READY FOR PUBLICATION SCHEME

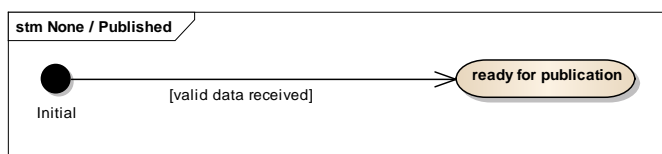
412 - Until valid data is received, data has the status none.

413 - Once valid data is received, data will have the status ready for publication. Indeed, for this
414 data item, the behaviour is to publish as soon as received by the platform. There is no
415 submission deadline.

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

416

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



419

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

422 5.5.4 NONE / WAITING FOR PUBLICATION X 2 / READY FOR PUBLICATION / 423 MISSING SCHEME

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

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

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

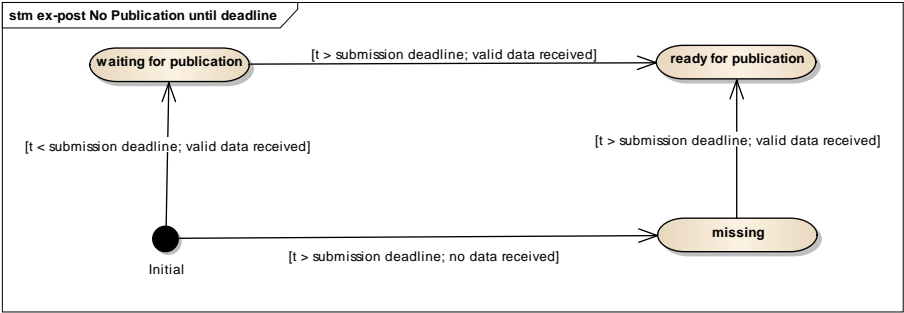
<until the beginning of the time interval>	<between the beginning of the time interval and Submission Deadline>	<after Submission Deadline>

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

429

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

431 the transition between them.



432

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

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

435

5.6 PUBLICATION

- 436
- If a data has been declared as expected with a submission deadline, it is published whenever it is ready for publication
- 437
- 438
- When no submission deadline is required⁵, data will get published if declared as expected.
- 439
- 440
- 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.
- 441
- 442
- 443
- Status of data shall be visible.
- 444
- The last update time of published data (i.e. the document creation date and time) is available to the end user on the platform. End users shall be able to choose whether or not the last update time for the selected data is included or not when viewing and downloading data. By default, it is not displayed. Exception is made for Outages.
- 445
- 446
- 447

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

- 448 For every data item, it shall be possible to configure the publication schedule.
- 449 It shall be possible to distinguish between missing data and data not being expected.
- 450 Before submission deadline has been reached for a data item, it shall be visible to data
451 providers and platform administrator whether data has been submitted or not.
- 452 When submission deadline is reached for a data item, there shall be visibility of the status of
453 the data, i.e. whether it is overdue or not.
- 454 When filtering and sorting criteria are available, all applicable criteria will be displayed for the
455 user to choose among. The criteria shall not be displayed if no data matching data is available
456 – when for example there is no declared data provider for a given area, that area shall not
457 appear as a filter criteria.
- 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 been
461 submitted with unavailability under data item [15.1.c], however reference data describing the
462 production unit as per chapter 9.9 is missing. As a consequence, the unavailability will not be
463 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 privileges.
468 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 granted by Platform administrator.

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.

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 with
476 specific privileges.

477 5.8 WEB ACCESS

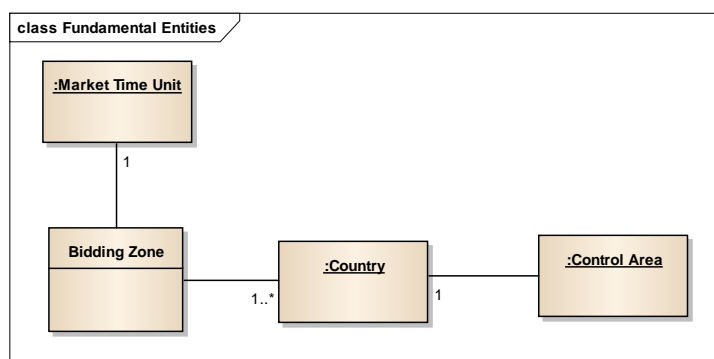
- 478 It shall be possible to access select data, i.e. per Regulation (see reference [1]), without any
479 registration or login authentication. This data shall be provided on publicly available web
480 pages.
- 481 Web site design must provide a high level of usability, with access to data through a minimum
482 number of navigation steps. It shall have a consistent layout and metaphor use. Structure of
483 web site is expected to mirror the division of data into the domains Balancing, Transmission,
484 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

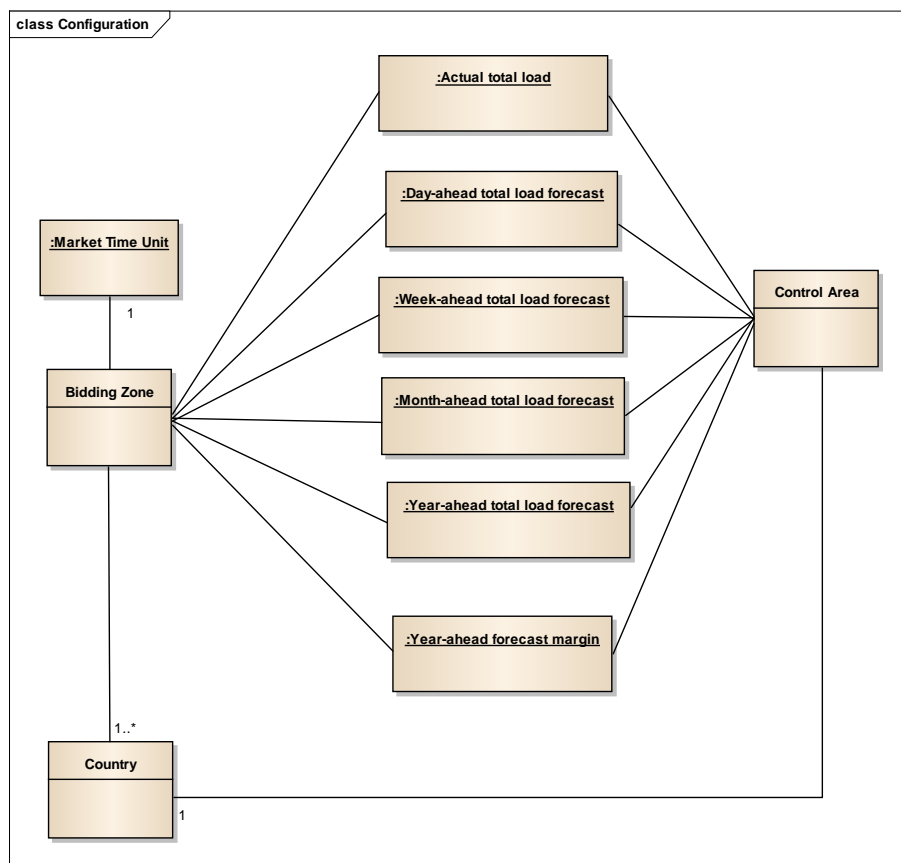
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 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.



6.1.2 PRE-CONFIGURATION

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

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

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

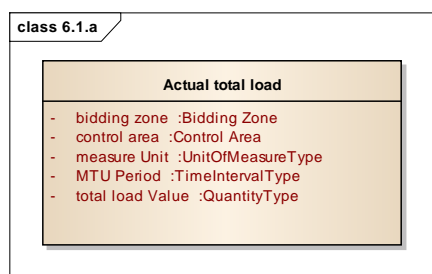
535 Data for a given bidding zone is being published as soon as it is complete, i.e. when all Data
536 Providers have submitted their contributions.

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

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

562 **6.2.5 MONITORING**

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

565 **6.2.6 PROCESSING**

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

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

570 **6.2.7 PUBLICATION**

571 **6.2.7.1 FILTERING AND SORTING CRITERIA**

572 Data shall be visually accessed by selecting the following:

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

577 **6.2.7.2 DISPLAY**

578 This data shall be displayed in the following section:

579 **- Load / Actual Load**

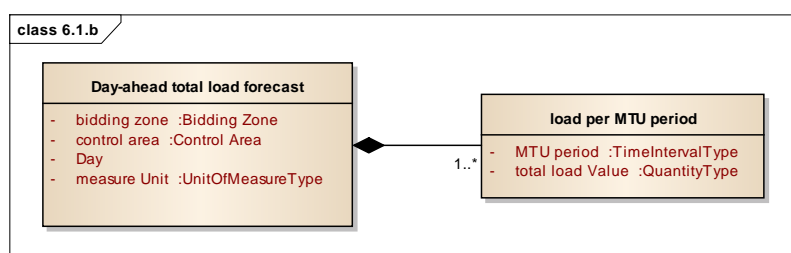
580 The following attributes of data shall be displayed:

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

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

6.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

6.3.2 PRE-CONFIGURATION

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

608 **6.3.3 ASSUMPTIONS**

609 There are no assumptions specific to this data item.

610 **6.3.4 INTEGRATION**

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

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

614 **6.3.5 MONITORING**

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

617 **6.3.6 PROCESSING**

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

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

621 **6.3.7 PUBLICATION**

622 **6.3.7.1 FILTERING AND SORTING CRITERIA**

623 Data shall be visually accessed by selecting the following:

624 - Country or Bidding Zone (selection is mandatory)

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

627 - Day (Selection is mandatory)

628 **6.3.7.2 DISPLAY**

629 This data shall be displayed in the following section:

630 - **Load / Day-ahead forecast**

631 The following attributes of data shall be displayed:

632 - Title

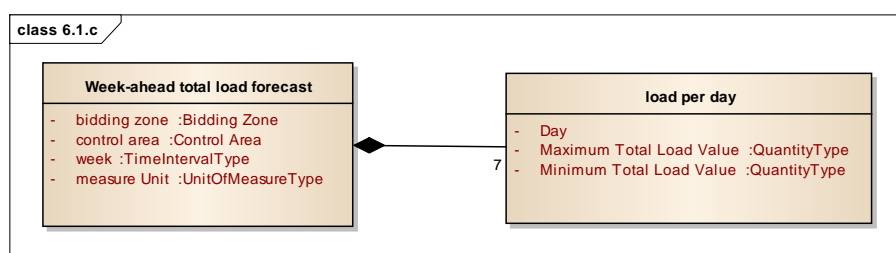
633 - Country, Bidding Zone or Control Area name

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

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.

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

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

664 6.4.3 ASSUMPTIONS

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

666 6.4.4 INTEGRATION

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

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

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

671 6.4.5 MONITORING

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

674 6.4.6 PROCESSING

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

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

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

684 6.4.7 PUBLICATION

685 6.4.7.1 FILTERING AND SORTING CRITERIA

686 Data shall be visually accessed by selecting the following:

687 - Country or Bidding Zone (selection is mandatory)

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

690 - Week (Selection is mandatory)

691 6.4.7.2 DISPLAY

692 This data shall be displayed in the following section:

693 - Load / Week-ahead forecast

694 The following attributes of data shall be displayed:

695 - Title

696 - Country, Bidding Zone or Control Area name

697 - Selected week

698 - Measurement Unit

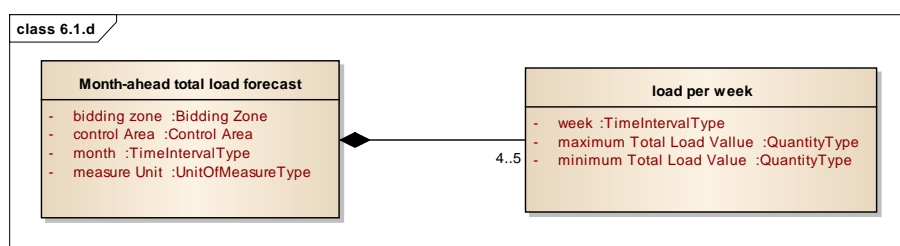
699 - For each day during the selected week, the forecast minimum total load value and maximum
700 total load value

701

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

724 **6.5.5 MONITORING**

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

727 **6.5.6 PROCESSING**

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

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

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

734 **6.5.7 PUBLICATION**

735 **6.5.7.1 FILTERING AND SORTING CRITERIA**

736 Data shall be visually accessed by selecting the following:

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

741 **6.5.7.2 DISPLAY**

742 This data shall be displayed in the following section:

743 **- Load / Month-ahead forecast**

744 The following attributes of data shall be displayed:

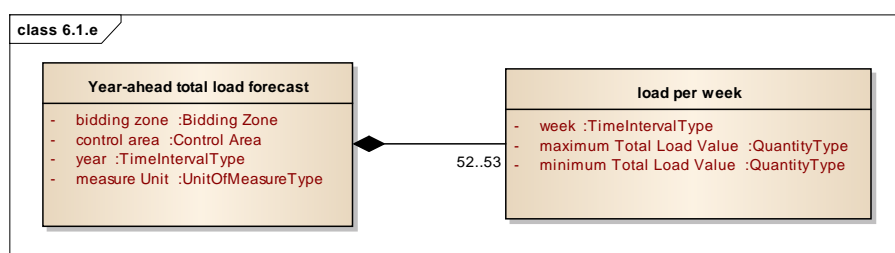
- 745 - Title
- 746 - Country, Bidding Zone or Control Area name
- 747 - Selected month
- 748 - Measurement Unit
- 749 - For each week within the selected month, the forecast minimum total load value and
750 maximum total load value

751

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

774 6.6.5 MONITORING

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

777 6.6.6 PROCESSING

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

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

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

784 6.6.7 PUBLICATION

785 6.6.7.1 FILTERING AND SORTING CRITERIA

786 Data shall be visually accessed by selecting the following:

- 787 - Country or Bidding Zone (selection is mandatory)
- 788 - Control Area (selection is optional and available only when Bidding Zone consists of several
789 Control Areas)
- 790 - Year (Selection is mandatory)

791 6.6.7.2 DISPLAY

792 This data shall be displayed in the following section:

793 - **Load / Year-ahead forecast**

794 The following attributes of data shall be displayed:

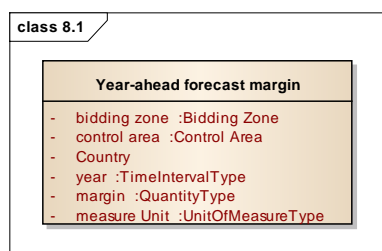
- 795 - Title
- 796 - Country, Bidding Zone or Control Area name
- 797 - Selected year
- 798 - Measurement Unit
- 799 - For each week within the selected year, the forecast minimum total load value and maximum
800 total load value

801

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.

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

6.7.3 ASSUMPTIONS

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

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

6.7.4 INTEGRATION

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

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

6.7.5 MONITORING

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

6.7.6 PROCESSING

No further processing is performed on this data item.

6.7.7 PUBLICATION

6.7.7.1 FILTERING AND SORTING CRITERIA

Data shall be visually accessed by selecting the following:

- Country or Bidding Zone (selection is mandatory)

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

- Year (Selection is mandatory)

6.7.7.2 DISPLAY

This data shall be displayed in the following section:

- Load / Year-ahead forecast margin

The following attributes of data shall be displayed:

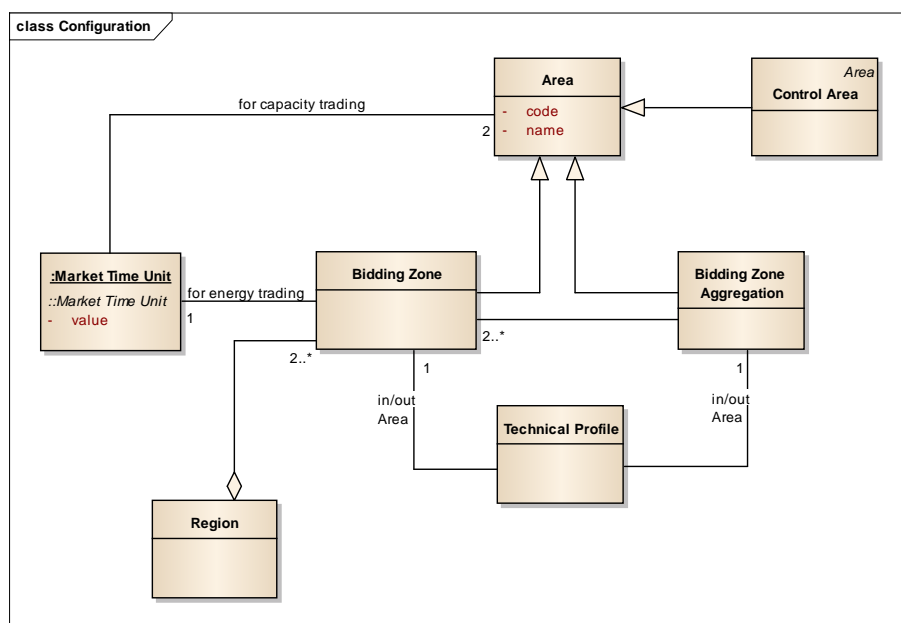
- 856 - Title
- 857 - Country, Bidding Zone or Control Area name
- 858 - Selected year
- 859 - Measurement Unit
- 860 - For the year, the forecast margin value

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).

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

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

874 7.1.2 TRANSMISSION CAPACITY ALLOCATIONS

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

Deleted: or

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

Deleted: Both Implicit and Explicit

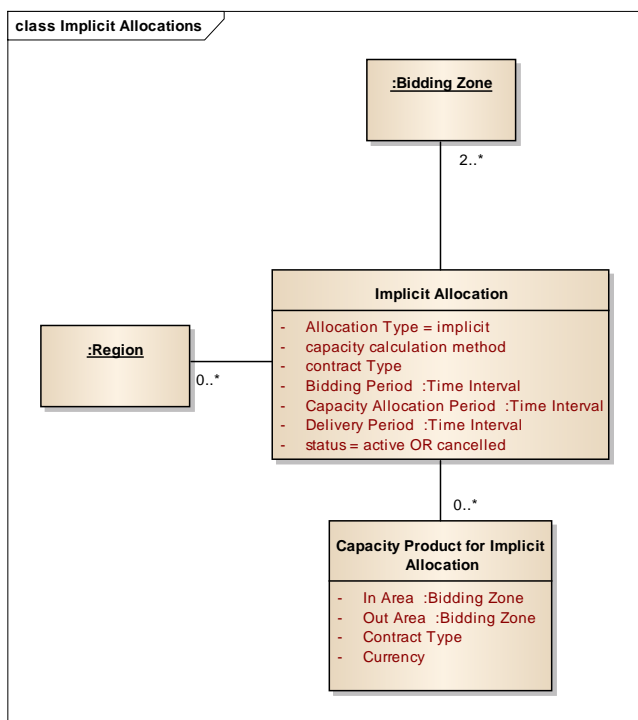
885 7.1.2.1 IMPLICIT ALLOCATIONS

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

Deleted: There are two types of Implicit Allocations: Market Coupling and Market Splitting. This distinction

Deleted: for information purposes only.

¹¹ Sometimes referred to as "Time Horizon".



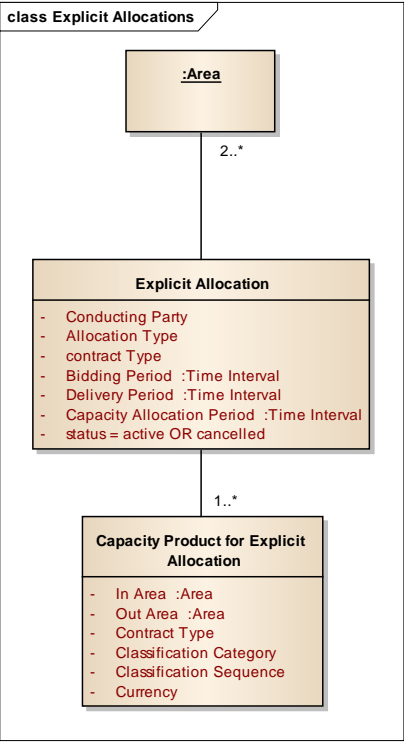
Deleted: ¶

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. Capacity calculation method is either ATC-based or flow-based. For allocations using flow-based capacity calculation method, capacity products do not apply.

7.1.2.2 EXPLICIT ALLOCATIONS

In explicit allocations the transfer capacity is made available (via an auction, a first-come/first-serve system, or any another method) in a first step. Energy is traded separately on commodity markets in a second step. 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



904

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

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

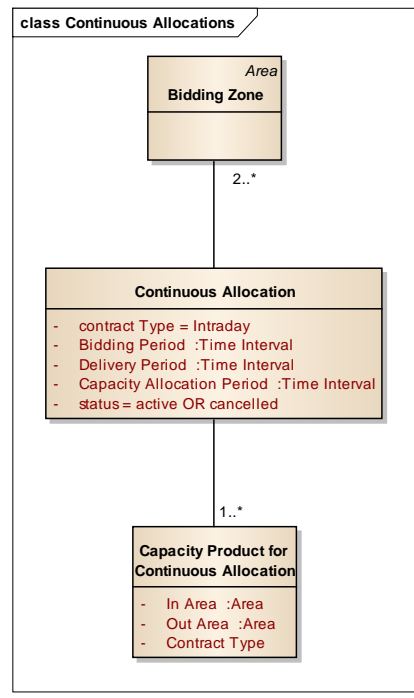
914

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

Deleted: The second special case is when Allocation Type is "continuous". Prices or revenue will then 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.¶

7.1.2.3 CONTINUOUS ALLOCATIONS

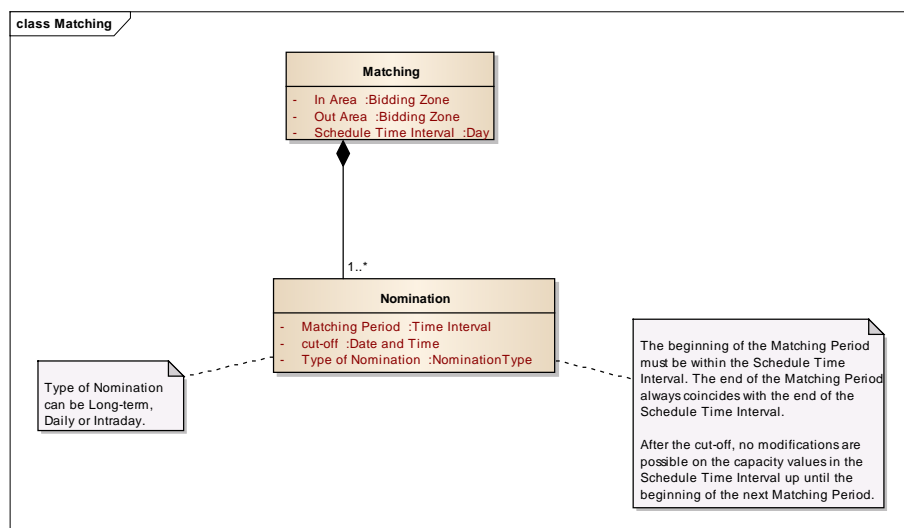
In continuous allocations bids from buyers and sellers are continuously matched while allocating available transmission capacity on the basis of first-come-first/served. A continuous allocation occurs between several (2 to n) Areas.



A continuous allocation offers several capacity products, each one being characterised by an In Area and an Out Area. Contract type is always intraday. The Allocation Type is not specified.

For continuous allocations only offered capacity can be published. No price publication is foreseen.

933 7.1.3 MATCHING



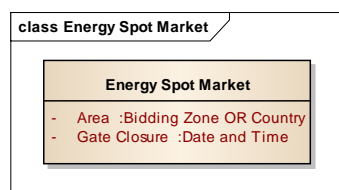
934

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

939

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

945 7.1.4 ENERGY SPOT MARKET



946

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949 7.1.5 DATA ITEMS



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

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

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

Deleted: items Net Positions (see chapter 7.23) and

Deleted: products and capacity

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

Deleted: products and capacity

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

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

Deleted: Day-Ahead

973 7.1.6 PRE-CONFIGURATION

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

- 976 - [C-TRM-1] a list of Bidding Zones (e.g. FR). This is the same reference data as in
977 Generation and Load domains.
- 978 - [C-TRM-2] a list of Bidding Zone Aggregations (for Technical Profiles) (e.g. DE-CZ-SK)
- 979 - [C-TRM-3] a list of Technical Profiles (e.g. PL -> DE-CZ-SK)
- 980 - [C-TRM-4] for each Bidding Zone, the Market Time Unit for energy trading
- 981 - [C-TRM-5] for each couple of Areas, the Market Time Unit for capacity trading (if applicable)
- 982 - [C-TRM-6] a list of Regions and for each region the Bidding Zones that constitute the
983 Region
- 984 - [C-TRM-7] a list of Contract Types (for example Intraday, Daily, Weekly, quarterly,
985 semester,...)
- 986 - [C-TRM-8] a list of Classification Categories (for example, Base, Peak, ...)
- 987 - [C-TRM-9] for each Bidding Zone, the Currency. This is used for validation in data item
988 Energy Prices [12.1.d]

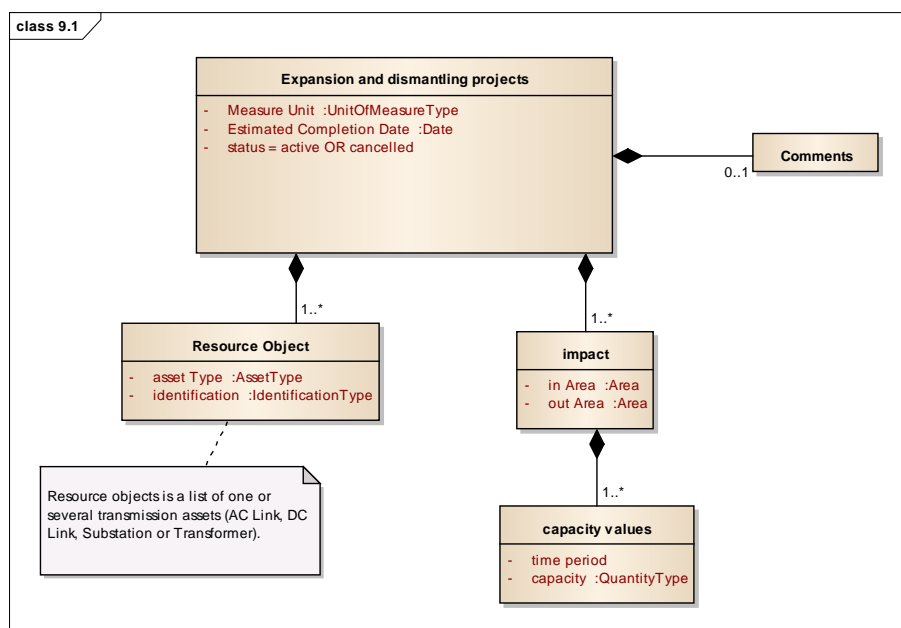
Deleted: Day Ahead

- 994 - [C-TRM-10] a list of countries and for each country, the corresponding Control Area(s). This
995 is the same reference data as in Generation and Load domains. It will be used to facilitate
996 search and filtering of published data by country.
- 997 - [C-TRM-11] for each Bidding Zone the country or countries that it covers completely or
998 partially. This is the same reference data as in Load domain. It will be used to facilitate
999 search and filtering of published data by country.
- 1000 - [C-TRM-12] a list of valid Roles. This is used to validate Role of Data Provider in the
1001 context of Forecast transfer capacity [11.1].
- 1002 Data Providers will be responsible for pre-configuring the platform with:
- 1003 - Allocations and associated Capacity Products. Details are provided in chapter 7.28
- 1004 - For Matching: Per couple of In and Out Bidding Zones, cut-offs and corresponding time
1005 intervals. Details as in chapter 7.1.3
- 1006 - For Energy Spot Markets: Gate closure per Bidding Zone. Details as in chapter 7.1.4
- 1007 **7.1.7 DATA CONTAINER STATUS / DATA STATUS**
- 1008 For all data items except the reports [11.3] and [11.4], data follows the “None / Ready for
1009 publication / Missing” scheme if properly declared as expected and if the submission
1010 deadline has been configured.
- 1011 **7.1.8 PUBLICATION**
- 1012 For all data items except the report data items [11.3] and [11.4], data shall be available on web
1013 site in all three formats; table, map and chart, unless explicitly stated otherwise in the chapters
1014 dedicated to each data item.
- 1015

7.2 EXPANSION AND DISMANTLING PROJECTS [9.1]

7.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

Status of project is active or cancelled.

Optionally, comments may be provided.

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

1029 **7.2.2 PRE-CONFIGURATION**

- 1030 - A list of Area couples for which the data item "Expansion and Dismantling Projects"
1031 may be submitted
- 1032 - For each Area couple, one or several Data Providers

1033 **7.2.3 ASSUMPTIONS**

- 1034 Transmission Assets have been declared with the mechanism described in chapter 11.11.
- 1035 Monitoring is not feasible for this data item, since projects cannot be anticipated.
- 1036 If more than one Data Provider submits data for given border, those Data Providers will
1037 coordinate between themselves the submitted data. Single submission for all of ENTSO-E
1038 could also be coordinated at the level of ENTSO-E secretariat.

1039 **7.2.4 INTEGRATION**

- 1040 - Area couple shall be recognised by the platform
- 1041 - The Data Provider shall be consistent with the identified Area couple
- 1042 - Transmission Assets are recognised by platform
- 1043 - Estimated impact is equal to or greater than 100 MW (configurable)

1044 **7.2.5 MONITORING**

- 1045 Monitoring is not performed on this data item.

1046 **7.2.6 PROCESSING**

- 1047 No processing is performed by the platform on this data item.

1048 **7.2.7 PUBLICATION**

1049 **7.2.7.1 PUBLICATION BEHAVIOUR**

- 1050 Latest version shall be published, however previous versions shall remain available on
1051 platform.

1052 **7.2.7.2 FILTERING AND SORTING CRITERIA**

- 1053 End user shall be able to select data for display by specifying:

- 1054 - Country (optional - If selected, In and/or Out Areas that at least partially cover the Country
1055 will be used as filtering criteria)
- 1056 - One or two Areas with direction (optional)
- 1057 - year or year range (mandatory)
- 1058 - status (optional)
- 1059 **7.2.7.3 DISPLAY**
- 1060 This data shall be displayed in the following section:
- 1061 Transmission / Expansion and dismantling projects
- 1062 The following attributes of data shall be displayed for all projects whose estimated completion
1063 date falls within the selected year or year range:
- 1064 - Title
- 1065 - Unit of measurement (MW)
- 1066 - status (active or cancelled)
- 1067 - For each couple of Areas and direction, the estimated impact and the estimated date of
1068 completion, and any comments. The concerned assets shall be published as a list, with links
1069 to pages providing further details on each asset.
- 1070 Data shall be displayed in table format only.
- 1071

1072 7.3 EXPANSION AND DISMANTLING PROJECTS 1073 (REPORT) [9.1]

1074 7.3.1 DATA DESCRIPTION

1075 This data item consists of a report in the form of a PDF file, describing the expansion and
1076 dismantling projects in a given control area. The report has a publication date and a date range
1077 for which it is valid. A data provider that wishes to express the impact of projects as a value
1078 range would submit this information in a PDF report.

1079 Alternatively, data providers may submit this data in structured format, see chapter 7.2.

1080 7.3.2 PRE-CONFIGURATION

1081 Data Providers shall be able to configure the following reference data on the platform:

- 1082 - A list of Control Areas
- 1083 - For each Control Area, the unique Data Provider

1084 7.3.3 ASSUMPTIONS

1085 Data is submitted as a report. No monitoring is performed on this data item.

1086 7.3.4 INTEGRATION

1087 Data Provider shall on the platform's web site, on the same page where these reports are
1088 published, be able to upload a PDF file and associated it with one Control Area. Platform
1089 shall validate that the Data Provider is authorized for the given Control Area.

1090 7.3.5 MONITORING

1091 No monitoring is performed on this data item.

1092 7.3.6 PROCESSING

1093 No processing is performed on this data item.

1094 7.3.7 PUBLICATION

1095 7.3.7.1 PUBLICATION BEHAVIOUR

1096 Documents are published immediately after upload. All versions shall be published.

1097 **7.3.7.2 FILTERING AND SORTING CRITERIA**

1098 - Country or Control Area (mandatory)

1099 - Date range (optional)

1100 **7.3.7.3 DISPLAY**

1101 This data shall be displayed in the following section:

1102 **Transmission / Expansion and dismantling projects (report)**

1103 Each report shall be available for download by clicking a link.

1104 For every report, the publication date and validity date range shall be displayed.

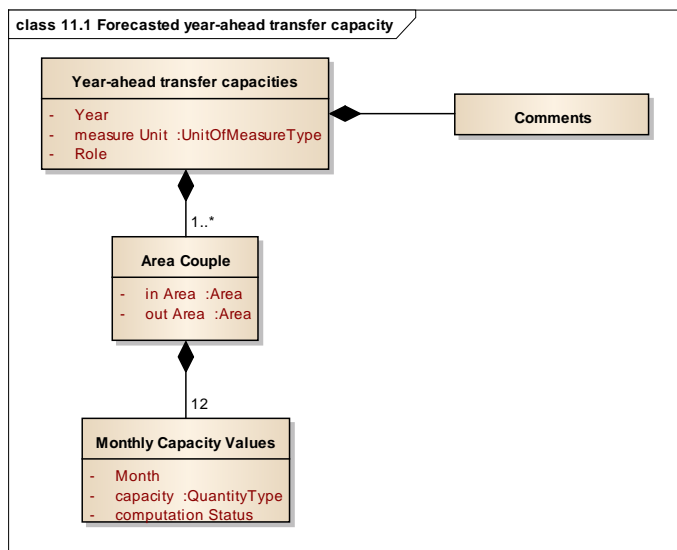
1105

7.4 FORECASTED YEAR-AHEAD TRANSFER CAPACITIES

[11.1]

7.4.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several area couples.

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

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

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

7.4.2 PRE-CONFIGURATION

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

- 1120 - For each couple of Areas mentioned above, one or several Data Providers.
- 1121 - For each couple of Areas mentioned above, the yearly submission deadline:
- 1122 At the latest one week (W-1) before the yearly allocation process
- 1123 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1124 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*
1125 *from 15th November 2012, 20:00 UTC until 18th November 22:00 UTC, the document shall*
1126 *be submitted before November 8th, 2012, 20:00 UTC.*
- 1127 or
- 1128 at the latest December 15 the preceding year at 24:00 UTC.
- 1129 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1130 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*
1131 *submitted before December 15th, 2012, 24:00 UTC.*
- 1132 **7.4.3 ASSUMPTIONS**
- 1133 Values should be given per month, but a higher resolution is possible (up to the Market Time
1134 Unit used by the couple of Areas).
- 1135 Submission can be done by multiple Data Providers.
- 1136 **7.4.4 INTEGRATION**
- 1137 - Areas shall be recognised by the platform
- 1138 - The Data Provider shall be consistent with pre-configuration described in 7.4.2
- 1139 - The time interval of the submitted document is one year
- 1140 - Role of Data Provider is recognised, as per [C-TRM-12]
- 1141 **7.4.5 MONITORING**
- 1142 Platform shall monitor that forecasted yearly transfer capacity values are submitted for all area
1143 couples declared in pre-configuration, see section 7.4.2, before the submission deadline
1144 described in same section. If no data has been submitted, all declared Data Providers will be
1145 notified.
- 1146 **7.4.6 PROCESSING**
- 1147 The following processing applies:

- 1148 - In case the resolution of the submitted document is higher than a month, the lowest value of
1149 the submitted data should be calculated for each month. For example if data is submitted in
1150 daily values a computation must be made to compute the lowest daily value for every given
1151 month of the submitted year. This makes it possible to compare this data with data submitted
1152 with a monthly resolution.
- 1153 - Once values are computed per month, the platform must apply the following business rule
1154 [PR-11.1], when processing submitted data for a given oriented couple of Areas and month in
1155 order to determine whether data shall be marked as "minimum value" or "computed minimum
1156 value".
- 1157 • If data is received for a given couple of Areas from a Data Provider the data will be
1158 marked (computation status) as "minimum value".
 - 1159 • If data is received for the same oriented couple of Areas, from a different Data Provider
1160 the platform must compute the 'minimum' value from the two received values and
1161 isolate this value as the value to be published with a "computed minimum value"
1162 computation status. The previously marked "minimum value" computation status must
1163 be deleted.
 - 1164 • If data is marked as "minimum value" and the same Data Provider sends a new version
1165 to the platform, the platform will consider this latest version for publication by marking
1166 it as "minimum value" and delete the previous "minimum value" computation status.
 - 1167 • If data is computed and marked as "computed minimum value" and either Data Provider
1168 involved sends a new version of the document, the platform must compute the
1169 'minimum' value from the received value and the value from the other Data Provider
1170 and will isolate this value as the value to be published, with the "computed minimum
1171 value" computation status. The "computed minimum value" computation status must
1172 be deleted from the previous version of the value.
 - 1173 • If data is received for a given couple of Areas from a Data Provider with the role
1174 "Capacity Coordinator (CCrd)" or "Transmission Capacity Allocator (TCA)", the data will
1175 be marked as "computed minimum value".
 - 1176 • If data is marked as "computed minimum value" and the Data Provider with the role
1177 "CCrd" or "TCA" sends a new version to the platform, the platform will consider this
1178 latest version of the information for display by marking it as "computed minimum value"
1179 and delete from the previous version the "computed minimum value" computation
1180 status.
- 1181

1182 7.4.7 PUBLICATION

1183 7.4.7.1 PUBLICATION BEHAVIOUR

1184 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1185 computation status. Data without any computation status shall not be published. This rule takes
1186 precedence over the common rule which states that all versions of the data are available on
1187 the platform.

1188 7.4.7.2 FILTERING AND SORTING CRITERIA

1189 Data shall be visually accessed by selecting the following:

1190 Year (Selection is mandatory)

1191 Country (selection is optional: If selected, Areas will be filtered to include only those that
1192 partially or completely cover the Country)

1193 Optionally, user may specify Area, couple of Areas and direction.

1194 7.4.7.3 DISPLAY

1195 This data shall be displayed in the following section:

1196 - **Forecasted transfer capacities / year-ahead**

1197 The following attributes of data shall be displayed:

1198 - Title

1199 - Measurement Unit

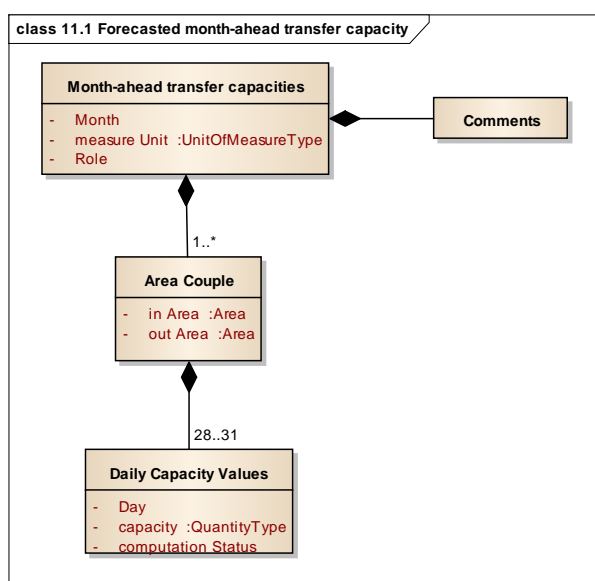
1200 - Comments

1201 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1202 each month within the selected year, the capacity value and its computation status
1203

7.5 FORECASTED MONTH-AHEAD TRANSFER CAPACITIES [11.1]

7.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

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

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

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

7.5.2 PRE-CONFIGURATION

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

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

- 1219 - For each couple of Areas mentioned above, the monthly submission deadline:
- 1220 For a given month, submission must be done at the latest two working days (D-2) before
1221 the monthly allocation process.
- 1222 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1223 *the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity*
1224 *Allocation Period from March 15th 20:00 UTC to March 18th 20:00 UTC, the document shall*
1225 *be submitted before March 13th, 2012, 20:00 UTC.*
- 1226 **7.5.3 ASSUMPTIONS**
- 1227 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit
1228 used by the couple of Areas).
- 1229 Submission can be done by multiple Data Providers.
- 1230 **7.5.4 INTEGRATION**
- 1231 - Areas shall be recognised by the platform
- 1232 - The Data Provider shall be consistent with pre-configuration described in 7.5.2
- 1233 - The time interval of the submitted document is one month
- 1234 - Role of Data Provider is recognised, as per [C-TRM-12]
- 1235 **7.5.5 MONITORING**
- 1236 Platform shall monitor that forecasted monthly transfer capacity values are submitted for all
1237 area couples declared in pre-configuration, see section 7.5.2, before the submission deadline
1238 described in same section. If no data has been submitted, all declared Data Providers will be
1239 notified.
- 1240 **7.5.6 PROCESSING**
- 1241 The following processing applies:
- 1242 - In case the resolution of the submitted document is higher than a day, the lowest value of the
1243 submitted data should be calculated for each day. For example if data is submitted per MTU
1244 period a computation must be made to compute the lowest daily value for every given day of
1245 the submitted month. This makes it possible to compare this data with data submitted with a
1246 daily resolution.
- 1247 - Once values are computed per day, the platform must apply the business rule [PR-11.1],
1248 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas

1249 and day in order to determine whether data shall be marked as “minimum value” or “computed
1250 minimum value”.

1251 7.5.7 PUBLICATION

1252 7.5.7.1 PUBLICATION BEHAVIOUR

1253 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1254 computation status. Data without any computation status shall not be published. This rule takes
1255 precedence over the common rule which states that all versions of the data are available on
1256 the platform.

1257 7.5.7.2 FILTERING AND SORTING CRITERIA

1258 Data shall be visually accessed by selecting the following:

1259 Month (Selection is mandatory)

1260 Country (selection is optional: If selected, Areas will be filtered to include only those that
1261 partially or completely cover the Country)

1262 Optionally, user may specify Area, couple of Areas and direction.

1263 7.5.7.3 DISPLAY

1264 This data shall be displayed in the following section:

1265 - **Forecasted transfer capacities / month-ahead**

1266 The following attributes of data shall be displayed:

1267 - Title

1268 - Month

1269 - Measurement Unit

1270 - Comments

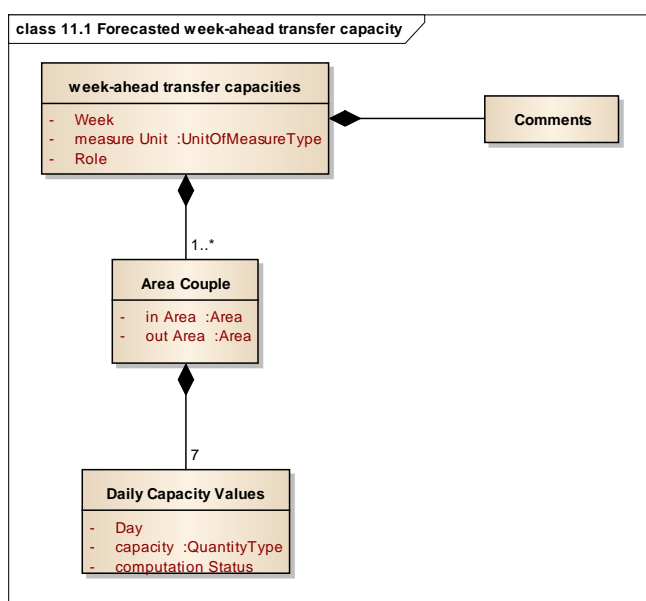
1271 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1272 each day within the selected month the capacity value and its computation status
1273

7.6 FORECASTED WEEK-AHEAD TRANSFER CAPACITIES

[11.1]

7.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

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

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

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

7.6.2 PRE-CONFIGURATION

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

- 1288 - For each couple of Areas mentioned above, one or several Data Providers
- 1289 - For each couple of Areas mentioned above, the weekly submission deadline: Friday before
1290 the week for which values refer to.
- 1291 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1292 *and the week for which forecasts are to be provided is Week 11, 2012 (12th of March to 18th of*
1293 *March), the document shall be submitted before Friday March 9th, 2012, 24:00 UTC.*
- 1294 **7.6.3 ASSUMPTIONS**
- 1295 Values should be given per day, but a higher resolution is possible (up to the Market Time Unit
1296 used by the couple of Areas).
- 1297 Submission can be done by multiple Data Providers.
- 1298 **7.6.4 INTEGRATION**
- 1299 - Areas shall be recognised by the platform
- 1300 - The Data Provider shall be consistent with pre-configuration described in 7.6.2
- 1301 - The time interval of the submitted document is one week
- 1302 - Role of Data Provider is recognised, as per [C-TRM-12]
- 1303 **7.6.5 MONITORING**
- 1304 Platform shall monitor that forecasted weekly transfer capacity values are submitted for all area
1305 couples declared in pre-configuration, see section 7.6.2, before the submission deadline
1306 described in same section. If no data is submitted, all declared Data Providers will be notified.
- 1307 **7.6.6 PROCESSING**
- 1308 The following processing applies:
- 1309 - In case the resolution of the submitted document is higher than a day, the lowest value of the
1310 submitted data should be calculated for each day. For example if data is submitted in hourly
1311 values a computation must be made to compute the lowest hourly value for every given day of
1312 the submitted week. This makes it possible to compare this data with data submitted with a
1313 daily resolution.
- 1314 - Once values are computed per day, the platform must apply the business rules [PR-11.1],
1315 refer to chapter 7.4.6, when processing submitted data for a given oriented couple of Areas
1316 and day in order to determine whether data shall be marked as "minimum value" or "computed
1317 minimum value".

1318 7.6.7 PUBLICATION

1319 7.6.7.1 PUBLICATION BEHAVIOUR

1320 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1321 computation status. Data without any computation status shall not be published. This rule takes
1322 precedence over the common rule which states that all versions of the data are available on
1323 the platform.

1324 7.6.7.2 FILTERING AND SORTING CRITERIA

1325 Data shall be visually accessed by selecting the following:

1326 Week (Selection is mandatory)

1327 Country (selection is optional: If selected, Areas will be filtered to include only those that
1328 partially or completely cover the Country)

1329 Optionally, user may specify Area, couple of Areas and direction.

1330 7.6.7.3 DISPLAY

1331 This data shall be displayed in the following section:

1332 - **Forecasted transfer capacities / week-ahead**

1333 The following attributes of data shall be displayed:

1334 - Title

1335 - Week

1336 - Measurement Unit

1337 - Comments

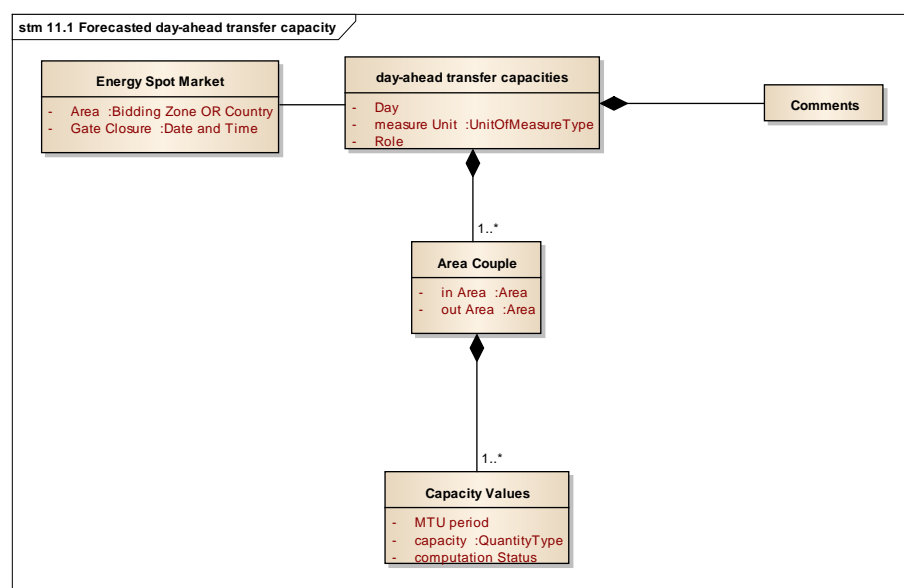
1338 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1339 each day within the week the capacity value and its computation status
1340

7.7 FORECASTED DAY-AHEAD TRANSFER CAPACITIES

[11.1]

7.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document may cover several couples of areas.

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

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

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

7.7.2 PRE-CONFIGURATION

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

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

1356 - For each couple of Areas mentioned above, the daily submission deadline: 1 hour before
1357 spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of energy
1358 spot markets.

1359 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1360 *and if spot energy market gate closure is 10:00 UTC March 12th for the time interval of*
1361 *March 13th, 2012, the document shall be submitted before March 12th, 2012, 09:00 UTC.*

1362 7.7.3 ASSUMPTIONS

1363 Submission can be done by multiple Data Providers.

1364 7.7.4 INTEGRATION

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

1369 7.7.5 MONITORING

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

1373 7.7.6 PROCESSING

1374 The platform must apply the business rules [PR-11.1], refer to chapter 7.4.6, when processing
1375 submitted data for a given oriented couple of Areas and day in order to determine whether
1376 data shall be marked as “minimum value” or “computed minimum value”.

1377 7.7.7 PUBLICATION

1378 7.7.7.1 PUBLICATION BEHAVIOUR

1379 Data to be published shall be marked with a “minimum value” or “computed minimum value”
1380 computation status. Data without any computation status shall not be published. This rule takes
1381 precedence over the common rule which states that all versions of the data are available on
1382 the platform.

1383 7.7.7.2 FILTERING AND SORTING CRITERIA

1384 Data shall be visually accessed by selecting the following:

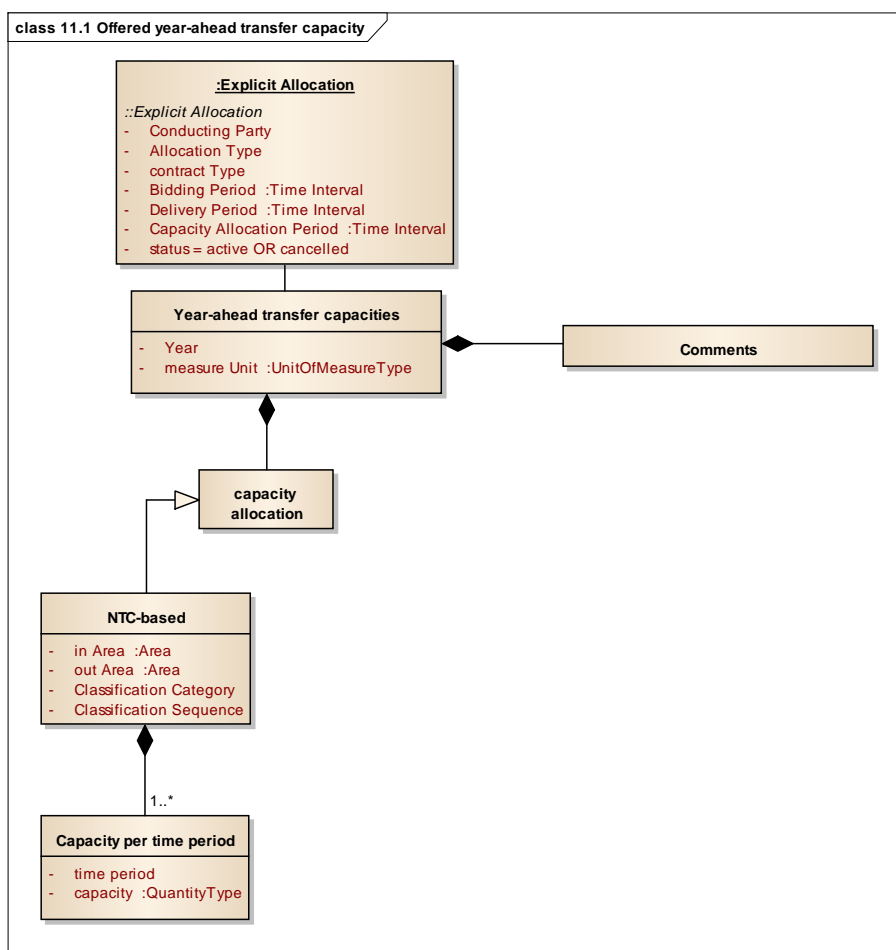
- 1385 Day (Selection is mandatory)
- 1386 Country (selection is optional: If selected, Areas will be filtered to include only those that
1387 partially or completely cover the Country)
- 1388 Optionally, user may specify Area, couple of Areas and direction.
- 1389 **7.7.7.3 DISPLAY**
- 1390 This data shall be displayed in the following section:
- 1391 **- Forecasted transfer capacities / day-ahead**
- 1392 The following attributes of data shall be displayed:
- 1393 - Title
- 1394 - Day
- 1395 - Measurement Unit
- 1396 - Comments
- 1397 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1398 each MTU period within the day the capacity value and its computation status
1399

7.8 OFFERED YEAR-AHEAD TRANSFER CAPACITIES

[11.1]

7.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

- 1406 Yearly offered transfer capacities are associated with a yearly explicit transmission auction.
- 1407 Offered year-ahead transfer capacities are described between an In Area (the Area flows come
1408 into) and an out Area (the Area flows come out), for one year, with a single capacity value for
1409 the whole year expressed in Measure Unit.
- 1410 Capacity values are submitted separately per Classification Category and Classification
1411 Sequence.
- 1412 Optionally, offered year-ahead transfer capacities can be complemented with comments.
- 1413 **Note:** Flow-based parameters are not in scope for year-ahead transfer capacities.
- 1414 **7.8.2 PRE-CONFIGURATION**
- 1415 - Year-ahead transfer capacities are expected for all couples of Areas covered by a yearly
1416 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an
1417 auction's capacity products.
- 1418 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1419 configuration. Refer to chapter 7.28.1.3 for details.
- 1420 The submission deadline is one week (W-1) before the yearly allocation process, but no later
1421 than the 15th of December. Therefore, there shall be a default submission deadline set to one
1422 week before the start of the yearly auction's capacity allocation period. Additionally, it must
1423 be possible to specify another deadline that supersedes the default.
- 1424 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1425 *the year is 2013 and if the Yearly Explicit Auction for 2013 has a Capacity Allocation Period*
1426 *from November 2012, 15th 20:00 UTC to 18th 22:00 UTC, the document shall be submitted*
1427 *before November 8th, 2012, 20:00 UTC.*
- 1428 *Example: if the oriented couple of Areas is France Bidding Zone to Spain Bidding Zone,*
1429 *the year is 2013 and there is no Yearly Explicit Auction for 2013, the document shall be*
1430 *submitted before December 15th, 2012, 24:00 UTC.*
- 1431 The submission deadline is the same for all area couples covered by the auction's capacity
1432 products.
- 1433 **7.8.3 ASSUMPTIONS**
- 1434 A single value should be provided for the whole year, but a higher resolution is possible (up to
1435 the Market Time Unit used by the couple of Areas).
- 1436 There is not more than one Data Provider per auction instance.

1437 **7.8.4 INTEGRATION**

- 1438 - Areas shall be recognised by the platform
- 1439 - The Data Provider shall be consistent with the auction configuration
- 1440 - The time interval of the submitted document is one year

1441 **7.8.5 MONITORING**

- 1442 For a given instance of an auction, platform shall monitor that offered transfer capacity values
- 1443 are submitted for all area couples as deduced from the auction's capacity products. The
- 1444 submission deadline described in section 7.8.2 will be monitored.
- 1445 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
- 1446 Classification Categories and Classification Sequences).

1447 **7.8.6 PROCESSING**

- 1448 No processing is performed on this data item.

1449 **7.8.7 PUBLICATION**

1450 **7.8.7.1 PUBLICATION BEHAVIOUR**

- 1451 No specific publication behaviour applies.

1452 **7.8.7.2 FILTERING AND SORTING CRITERIA**

- 1453 Data shall be visually accessed by selecting the following:
- 1454 Year (Selection is mandatory)
- 1455 Country (selection is optional: If selected, Areas will be filtered to include only those that
- 1456 partially or completely cover the Country)
- 1457 Optionally, user may specify Area, couple of Areas and direction.

1458 **7.8.7.3 DISPLAY**

- 1459 This data shall be displayed in the following section:
- 1460 - **offer of transfer capacities / year-ahead**
- 1461 The following attributes of data shall be displayed:
- 1462 - Title

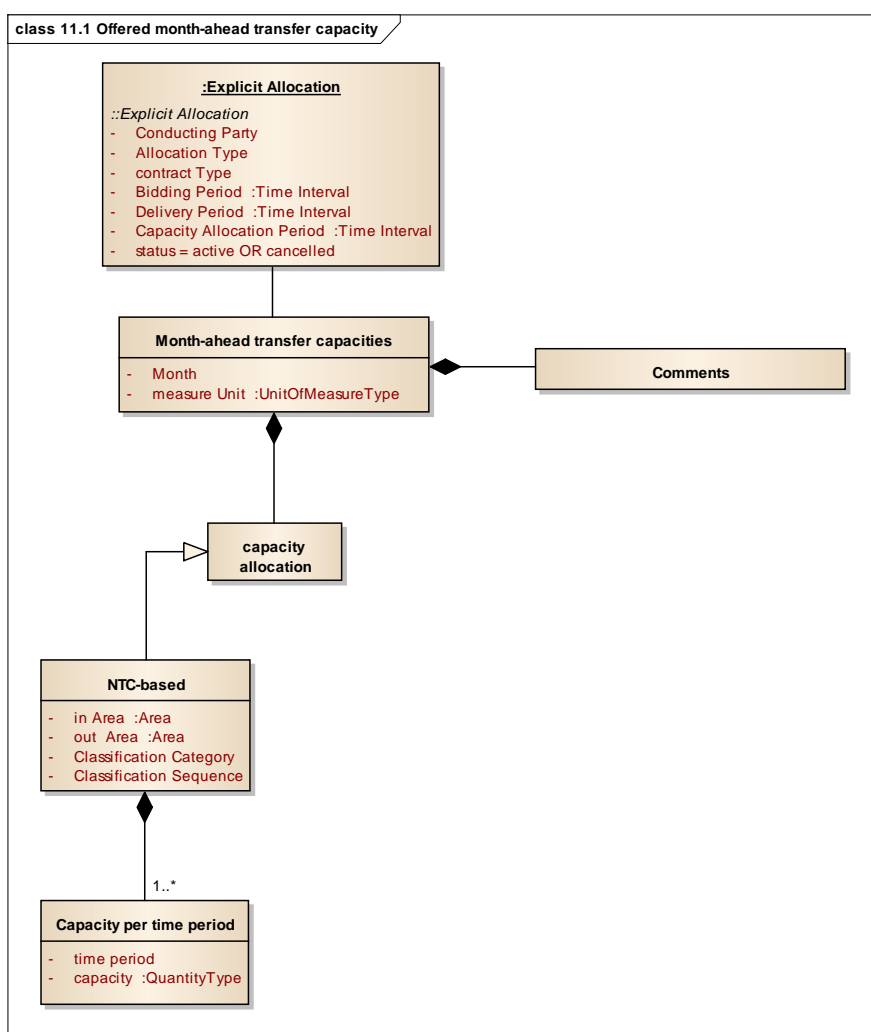
- 1463 - Measurement Unit
- 1464 - Comments
- 1465 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
- 1466 capacity value (for every classification category and classification sequence)
- 1467 If capacity values vary during the year, it shall be possible to expand the view so that they are
- 1468 displayed as a curve and in a table.
- 1469

7.9 OFFERED MONTH-AHEAD TRANSFER CAPACITIES

[11.1]

7.9.1 DATA DESCRIPTION

This item can be described by the following class diagram:



- 1475 The document shall cover the offered capacities related to one auction only.
- 1476 Monthly offered transfer capacities are associated with a monthly explicit transmission auction.
- 1477 Offered month-ahead transfer capacities are described between an In Area (the Area flows
1478 come into) and an out Area (the Area flows come out from), for one month, with a single
1479 capacity value expressed in Measure Unit.
- 1480 Capacity values are submitted separately per Classification Category and Classification
1481 Sequence.
- 1482 Optionally, offered month-ahead transfer capacities can be complemented with comments.
- 1483 **Note:** Flow-based parameters are not in scope for month-ahead transfer capacities.

1484 7.9.2 PRE-CONFIGURATION

- 1485 - Month-ahead offered transfer capacities are expected for all couples of Areas covered by a
1486 monthly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration
1487 of an auction's capacity products.
- 1488 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1489 configuration. Refer to chapter 7.28.1.3 for details.
- 1490 For a given month, submission must be done at the latest two working days (D-2) before
1491 the start of the Allocation Period of the associated monthly explicit auction bidding.
- 1492 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1493 *the month is April 2012 and if the Monthly Explicit Auction for April 2012 has a Capacity*
1494 *Allocation Period from March 15th 20:00 UTC to March 18th 20:00 UTC, the document shall*
1495 *be submitted before March 13th, 2012, 20:00 UTC.*
- 1496 The submission deadline applies to all area couples covered by the auction.

1497 7.9.3 ASSUMPTIONS

- 1498 A single value should be given for the whole month, but a higher resolution is possible (up to
1499 the Market Time Unit used by the couple of Areas).
- 1500 There is not more than one Data Provider per auction instance.

1501 7.9.4 INTEGRATION

- 1502 - Areas shall be recognised by the platform
- 1503 - The Data Provider shall be consistent with the auction configuration
- 1504 - The time interval of the submitted document is one month

1505 **7.9.5 MONITORING**

1506 For a given instance of an auction, platform shall monitor that offered transfer capacity values
1507 are submitted for all area couples as deduced from the auction's capacity products. There is
1508 a submission deadline as described in section 7.9.2.

1509 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1510 Classification Categories and Classification Sequences).

1511 **7.9.6 PROCESSING**

1512 No processing is performed on this data item.

1513 **7.9.7 PUBLICATION**

1514 **7.9.7.1 PUBLICATION BEHAVIOUR**

1515 No specific publication behaviour applies.

1516 **7.9.7.2 FILTERING AND SORTING CRITERIA**

1517 Data shall be visually accessed by selecting the following:

1518 Month (Selection is mandatory)

1519 Country (selection is optional: If selected, Areas will be filtered to include only those that
1520 partially or completely cover the Country)

1521 Optionally, user may specify Area, couple of Areas and direction.

1522 **7.9.7.3 DISPLAY**

1523 This data shall be displayed in the following section:

1524 **- offer of transfer capacities / month-ahead**

1525 The following attributes of data shall be displayed:

1526 - Title

1527 - Month

1528 - Measurement Unit

1529 - Comments

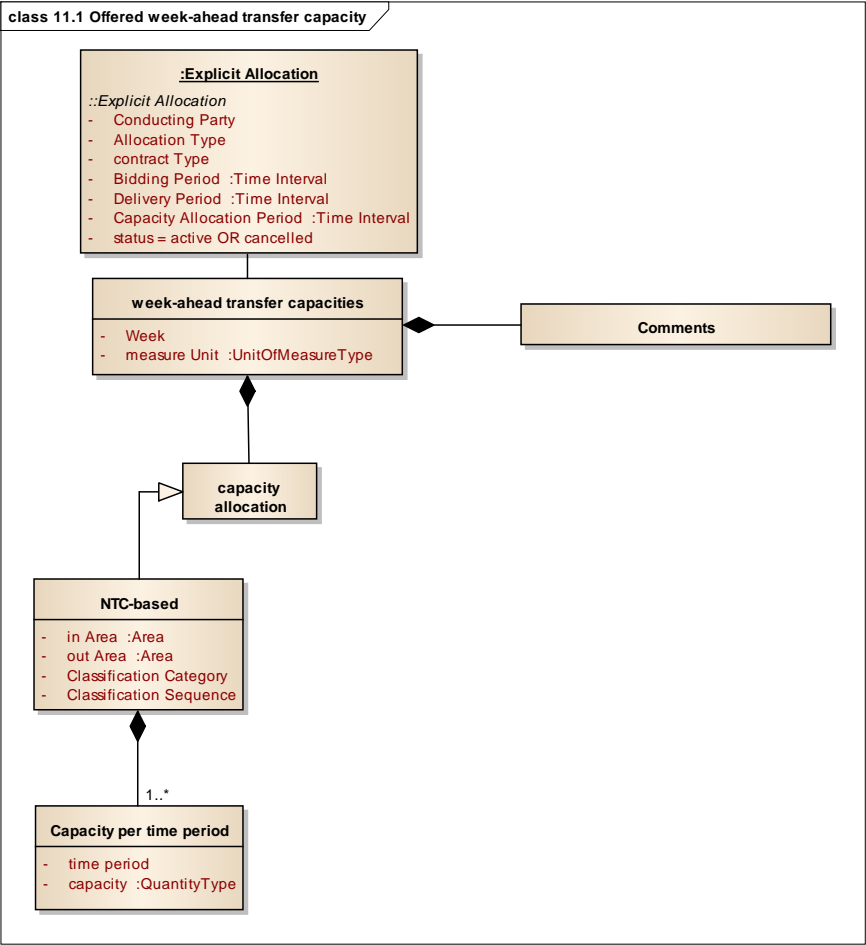
1530 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
1531 capacity value (for every classification category and classification sequence)

- 1532 If capacity values vary during the month, it shall be possible to expand the view so that they
1533 are displayed as a curve and in a table.

1534 7.10 OFFERED WEEK-AHEAD TRANSFER CAPACITIES
1535 [11.1]

1536 7.10.1 DATA DESCRIPTION

1537 This item can be described by the following class diagram:



1538
1539 The document shall cover the offered capacities related to one auction only.

1540 Weekly offered transfer capacities are associated with a weekly explicit transmission auction.

1541 Offered week-ahead transfer capacities are described between an In Area (the Area flows
1542 come into) and an out Area (the Area flows come out from), for one week, with a single capacity
1543 value for the whole week expressed in Measure Unit.

1544 Capacity values are submitted separately per Classification Category and Classification
1545 Sequence.

1546 Optionally, offered week-ahead transfer capacities can be complemented with comments.

1547 **Note:** Flow-based parameters are not in scope for week-ahead transfer capacities.

1548 7.10.2 PRE-CONFIGURATION

1549 - Week-ahead offered transfer capacities are expected for all couples of Areas covered by a
1550 weekly auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration
1551 of an auction's capacity products.

1552 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1553 configuration. Refer to chapter 7.28.1.3 for details.

1554 - The submission deadline for offered week-ahead transfer capacity is one day (D-1) before
1555 the weekly allocation process:

1556 *Example: if the oriented couple of Areas is France Bidding Zone to Germany Bidding Zone,*
1557 *the weekly capacity allocation period starts on Friday 10:00 UTC and the week for which*
1558 *offers are to be provided is Week 11, 2012 (12th of March to 18th of March), the document*
1559 *shall be submitted before Thursday March 8th, 2012, 10:00 UTC.*

1560 The submission deadline is the same for all couples of Areas covered by the auction's
1561 capacity products.

1562 7.10.3 ASSUMPTIONS

1563 A single value should be provided for the whole week, but a higher resolution is possible (up
1564 to the Market Time Unit used by the couple of Areas).

1565 There is not more than one Data Provider per auction instance.

1566 7.10.4 INTEGRATION

1567 - Areas shall be recognised by the platform

1568 - The Data Provider shall be consistent with the capacity allocation configuration

1569 - The time interval of the submitted document is one week

1570 7.10.5 MONITORING

1571 For a given instance of an auction, platform shall monitor that offered transfer capacity values
1572 are submitted for all area couples as deduced from the auction's capacity products. The
1573 submission deadline described in section 7.10.2 will be monitored.

1574 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1575 Classification Categories and Classification Sequences).

1576 7.10.6 PROCESSING

1577 No processing is performed on this data item.

1578 7.10.7 PUBLICATION

1579 7.10.7.1 PUBLICATION BEHAVIOUR

1580 No specific publication behaviour applies.

1581 7.10.7.2 FILTERING AND SORTING CRITERIA

1582 Data shall be visually accessed by selecting the following:

1583 Week (Selection is mandatory)

1584 Country (selection is optional: If selected, Areas will be filtered to include only those that
1585 partially or completely cover the Country)

1586 Optionally, user may specify Area, couple of Areas and direction.

1587 7.10.7.3 DISPLAY

1588 This data shall be displayed in the following section:

1589 - **offer of transfer capacities / week-ahead**

1590 The following attributes of data shall be displayed:

1591 - Title

1592 - Week

1593 - Measurement Unit

1594 - Comments

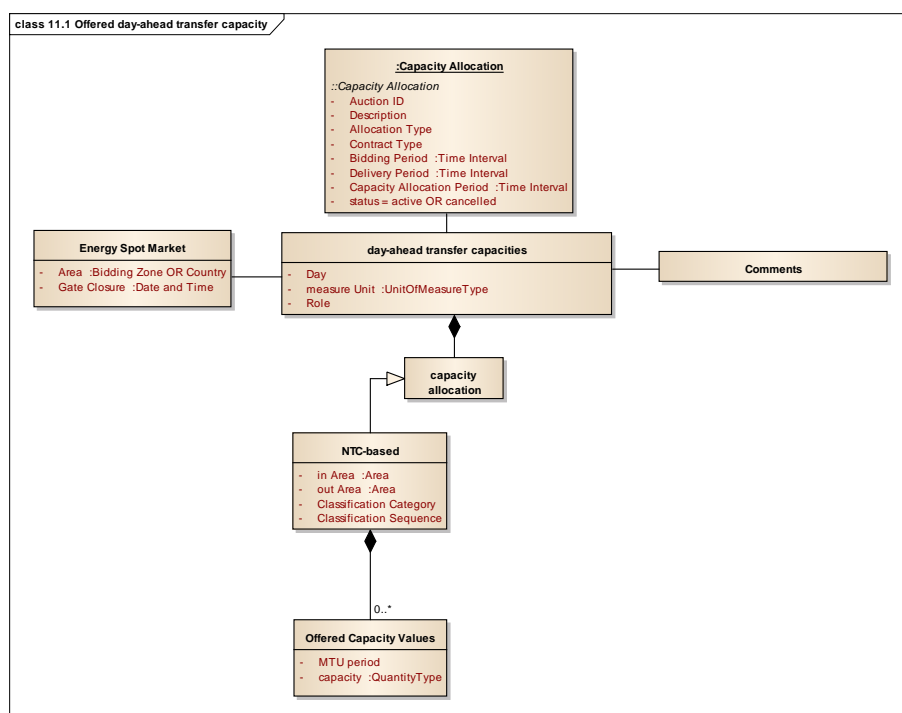
1595 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
1596 capacity value (for every classification category and classification sequence)

- 1597 If capacity values vary during the week, it shall be possible to expand the view so that they
1598 are displayed as a curve and in a table.

7.11 Offered DAY-AHEAD TRANSFER CAPACITY [11.1]

7.11.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

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

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

1613 NTC-based values are applicable between two Areas.

1614 Optionally, Offered day-ahead transfer capacity can be complemented with comments.

1615 In some situations there may not be any capacity values to submit because of no allocation on
1616 a specific day.

1617 7.11.2 PRE-CONFIGURATION

1618 - Day-ahead transfer capacities are expected for all couples of Areas covered by a daily
1619 auction's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an
1620 auction's capacity products.

1621 - For each Auction, the Data Provider is the one indicated in the capacity allocation
1622 configuration. Refer to chapter 7.28.1.3 for details.

1623 The submission deadline for offered day-ahead transfer capacity is 1 hour (H-1) before
1624 energy spot market gate closure. Refer to chapter 7.1.4 for details on the configuration of
1625 energy spot markets.

1626 *Example: if the oriented couple of Areas is France Bidding Area to Germany Bidding Area,*
1627 *and if spot energy market gate closure is 10:00 UTC March 12th for the time interval of*
1628 *March 13th, 2012, the document shall be submitted before March 12th, 2012, 09:00 UTC.*

1629 7.11.3 ASSUMPTIONS

1630 There is not more than one Data Provider per auction instance.

1631 The deadline determined by spot market gate closure is the same for In Area and Out Area.

1632 7.11.4 INTEGRATION

1633 - Areas shall be recognised by the platform

1634 - The Data Provider shall be consistent with the auction configuration

1635 - The time interval of the submitted document is one day

1636 7.11.5 MONITORING

1637 For a given instance of an auction, platform shall monitor that transfer capacity values are
1638 submitted for all area couples as deduced from the auction's capacity products. The
1639 submission deadline as described in section 7.11.2 will be monitored.

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

1642 auctions. If classification sequence is defined for an implicit allocation, monitoring shall verify
1643 that values are submitted accordingly.

1644 7.11.6 PROCESSING

1645 No processing is performed on this data item.

1646 7.11.7 PUBLICATION

1647 7.11.7.1 PUBLICATION BEHAVIOUR

1648 No specific publication behaviour applies.

1649 7.11.7.2 FILTERING AND SORTING CRITERIA

1650 Data shall be visually accessed by selecting the following:

1651 Day (Selection is mandatory)

1652 Country (selection is optional: If selected, Areas will be filtered to include only those that
1653 partially or completely cover the Country)

1654 Optionally, user may specify Area, couple of Areas and direction.

1655 7.11.7.3 DISPLAY

1656 This data shall be displayed in the following section:

1657 - offer of transfer capacities / Day-ahead

1658 The following attributes of data shall be displayed:

1659 - Title

1660 - Day selection

1661 - Measurement Unit

1662 - Comments

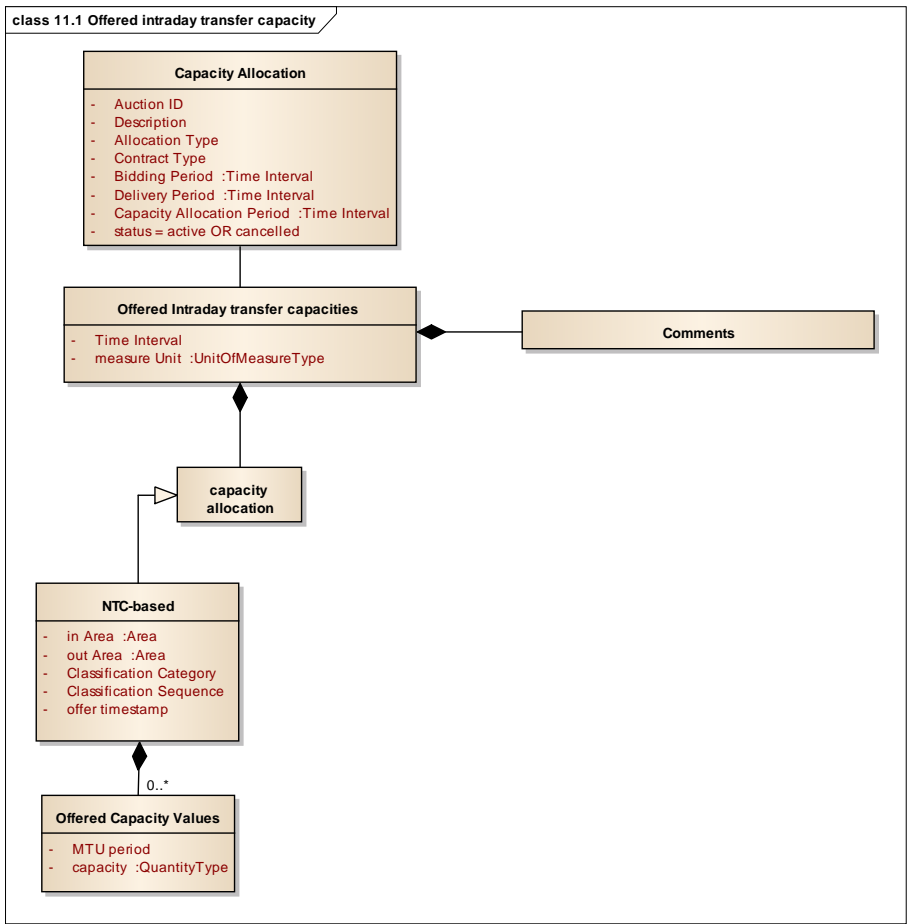
1663 - For each oriented couple of Areas the following data is repeated: Areas, direction and for
1664 each Market Time Unit within the selected day the capacity value (for every classification
1665 category and classification sequence, when applicable)

1666

7.12 Offered INTRADAY TRANSFER CAPACITY [11.1]

7.12.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

Deleted: .

1677 Offered intraday transfer capacities are described between an In Area and an Out Area, for a
1678 time interval spanning up to a day. Values are provided for each MTU Period, with a capacity
1679 value expressed in Measure Unit (MW).

1680 For explicit allocations, capacity values are submitted separately per Classification Category
1681 and Classification Sequence. For implicit allocations, optionally a classification sequence may
1682 be indicated.

1683 Optionally, offered intraday transfer capacity can be complemented with comments.

1684 For continuous allocations, if there are updates to the offered capacity, a timestamp shall be
1685 included. Each updated set of values shall be submitted with its timestamp to the transparency
1686 platform.

1687 In some situations there may not be any capacity values to submit.

1688 7.12.2 PRE-CONFIGURATION

1689 - Intraday transfer capacities are expected for all couples of Areas covered by the intraday
1690 capacity allocation's capacity products. Refer to chapter 7.28.1.2 for details on the
1691 configuration of an auction's capacity products.

1692 - For each capacity allocation, the Data Provider is the one indicated in the capacity
1693 allocation configuration. Refer to chapter 7.28.1.3 for details.

1694 - The submission deadline for offered intraday transfer capacity is one hour (H-1) before the
1695 start of the capacity allocation period for the first delivery period of the day. For the remaining
1696 delivery periods of the day, submissions will be performed close to real-time, for example 5
1697 minutes before the start of the allocation period.

1698 *Example: If the oriented couple of Areas is France to Germany Bidding Zones, and if*
1699 *intraday capacity allocation periods are as follows for day D:*

1700 - 1st Capacity Allocation Period: D-1, 18:00-19:00 UTC for the delivery period D, 00:00-
1701 24:00 UTC

1702 - 2nd Capacity Allocation Period: D, 03:00-04:00 UTC for the delivery period D, 05:00-24:00
1703 UTC

1704 - 3rd Capacity Allocation Period: D, 09:00-10:00 UTC for the delivery period D, 11:00-24:00
1705 UTC

1706 - 4th Capacity Allocation Period: D, 15:00-16:00 UTC for the delivery period D, 17:00-24:00
1707 UTC

1708 - 5th Capacity Allocation Period: D, 20:00-21:00 UTC for the delivery period D, 22:00-24:00
1709 UTC

Deleted: If there are several Capacity Products

Deleted: for explicit allocations.

Deleted: ¹⁴

Deleted: NTC-based values are applicable between two Areas.¶

Deleted: If

Deleted: (due to continuous trading, for example),

1717 *Data shall be submitted for the delivery period D, 00:00-24:00 UTC, no later than D-1,*
1718 *17:00 UTC. Data may be submitted for the delivery period D, 05:00-24:00 UTC, by D,*
1719 *02:55 UTC, etc.*

1720 The submission deadline is the same for all couples of Areas covered by the capacity
1721 allocation's products.

1722 7.12.3 ASSUMPTIONS

1723 There is not more than one Data Provider per capacity allocation instance.

1724 7.12.4 INTEGRATION

1725 - Areas shall be recognised by the platform

1726 - The Data Provider shall be consistent with the capacity allocation configuration

1727 - The time interval in the document shall be up to one day

1728 7.12.5 MONITORING

1729 For a given instance of an auction, platform shall monitor that offered transfer capacity values
1730 are submitted for all area couples as deduced from the capacity allocation's products. The
1731 submission deadline as described in section 7.12.2 shall be monitored. Monitoring shall verify
1732 that values are submitted for all Capacity Products (i.e. for all Classification Categories and
1733 Classification Sequences).

1734 7.12.6 PROCESSING

1735 No processing is performed on this data item.

1736 7.12.7 PUBLICATION

1737 7.12.7.1 PUBLICATION BEHAVIOUR

1738 The most recent values of the offered capacity shall be published on the Transparency
1739 Platform at least once every 15 minutes. If no update has occurred during a given quarter hour,
1740 no values will be published for that quarter hour. The entire evolution of the offered capacity
1741 shall be available for download no later than 24 hours after the end of the allocation period.

Deleted: ¶

1742 7.12.7.2 FILTERING AND SORTING CRITERIA

1743 Data shall be visually accessed by selecting the following:

1744 Allocation type: Explicit, implicit or continuous (single choice)

1746 Day (Selection is mandatory)

1747 Country (selection is optional: If selected, Areas will be filtered to include only those that
1748 partially or completely cover the Country)

1749 Couple of Areas and direction (mandatory).

Deleted: Optionally, user may specify Area, couple

Deleted: .

1750 7.12.7.3 DISPLAY

1751 This data shall be displayed in the following section:

1752 - **offer of transfer capacities / Intraday**

1753 The following attributes of data shall be displayed:

1754 - Title

1755 - Selected day

1756 - Measurement Unit

1757 - Comments

1758 - For each oriented couple of Areas the following data is repeated, for each Market Time Unit
1759 period within the selected day, the capacity value (for every classification category and
1760 classification sequence, when applicable)

Deleted: : Areas, direction and

1761 For continuous allocations: If there were updates to the offered capacity, the most recent
1762 capacity values at the end of every quarter hour.

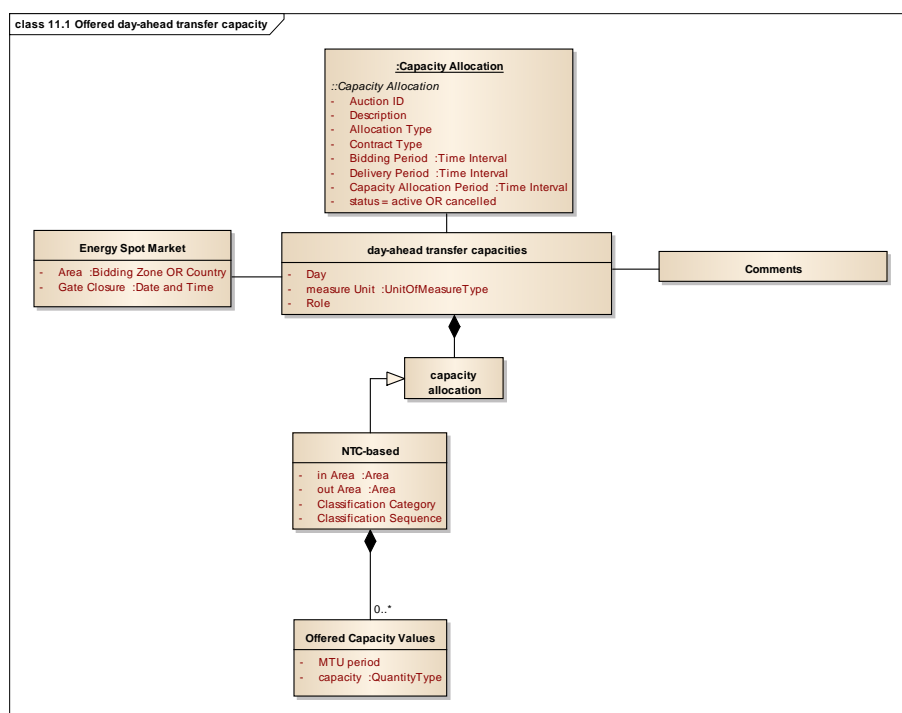
Deleted: -

1763 For continuous allocations: When downloading the entire evolution of the offered capacity, all
1764 updates to the capacity values are included, along with their timestamps.
1765

1770 7.13 OTHER OFFERED TRANSFER CAPACITIES [11.1]

1771 7.13.1 DATA DESCRIPTION

1772 This item can be described by the following class diagram:



- 1773
- 1774 The document shall cover the offered capacities related to one allocation only.
- 1775 Other offered transfer capacities are associated with a semester, quarter, weekend and other
- 1776 explicit transmission allocations that are not covered by the data items described in chapters
- 1777 7.8 through 7.
- 1778 Other offered transfer capacities are described between an In Area (the Area flows come into)
- 1779 and an out Area (the Area flows come out from), during a time interval corresponding to the
- 1780 allocation's delivery period, with a single capacity value for the whole time interval expressed
- 1781 in Measure Unit.
- 1782 Capacity values are submitted separately per Classification Category and Classification
- 1783 Sequence.

1784 Optionally, other offered transfer capacities can be complemented with comments.

1785 **Note:** Flow-based parameters are not in scope for other offered transfer capacities.

1786 7.13.2 PRE-CONFIGURATION

1787 - Other offered transfer capacities are expected for all couples of Areas covered by an explicit
1788 allocation's capacity products. Refer to chapter 7.28.1.2 for details on the configuration of an
1789 auction's capacity products.

1790 - For each allocation, the Data Provider is the one indicated in the capacity allocation
1791 configuration. Refer to chapter 7.28.1.3 for details.

1792 - The submission deadline for other offered transfer capacities is a configurable time before
1793 the allocation process:

1794 *Example: The oriented couple of Areas is Netherlands Bidding Zone to Belgium Bidding*
1795 *Zone, the weekend capacity allocation period starts on Friday 10:00 UTC and deadline is*
1796 *D-1. The weekend for which offers are to be provided is 17th of March to 18th of March. The*
1797 *document shall be submitted before Thursday March 15th, 2012, 10:00 UTC.*

1798 The submission deadline is the same for all couples of Areas covered by the allocation's
1799 capacity products.

1800 7.13.3 ASSUMPTIONS

1801 A single value should be provided for the whole time interval, but a higher resolution is possible
1802 (up to the Market Time Unit used by the couple of Areas).

1803 There is not more than one Data Provider per auction instance.

1804 7.13.4 INTEGRATION

1805 - Areas shall be recognised by the platform

1806 - The Data Provider shall be consistent with the capacity allocation configuration

1807 - The time interval of the submitted document corresponds to the capacity allocation's delivery
1808 period

1809 7.13.5 MONITORING

1810 For a given instance of an allocation, platform shall monitor that offered transfer capacity
1811 values are submitted for all area couples as deduced from the allocation's capacity products.

1812 The submission deadline described in section 7.13.2 will be monitored.

1813 Monitoring shall verify that values are submitted for all Capacity Products (i.e. for all
1814 Classification Categories and Classification Sequences).

1815 7.13.6 PROCESSING

1816 No processing is performed on this data item.

1817 7.13.7 PUBLICATION

1818 7.13.7.1 PUBLICATION BEHAVIOUR

1819 No specific publication behaviour applies.

1820 7.13.7.2 FILTERING AND SORTING CRITERIA

1821 Data shall be visually accessed by selecting the following:

1822 Contract Type (Selection is mandatory)

1823 Time interval (Selection is mandatory)

1824 Country (selection is optional: If selected, Areas will be filtered to include only those that
1825 partially or completely cover the Country)

1826 Optionally, user may specify Area, couple of Areas and direction.

1827 7.13.7.3 DISPLAY

1828 This data shall be displayed in the following section:

1829 - **offer of transfer capacities / other**

1830 The following attributes of data shall be displayed:

1831 - Title

1832 - Contract Type

1833 - Time interval

1834 - Measurement Unit

1835 - Comments

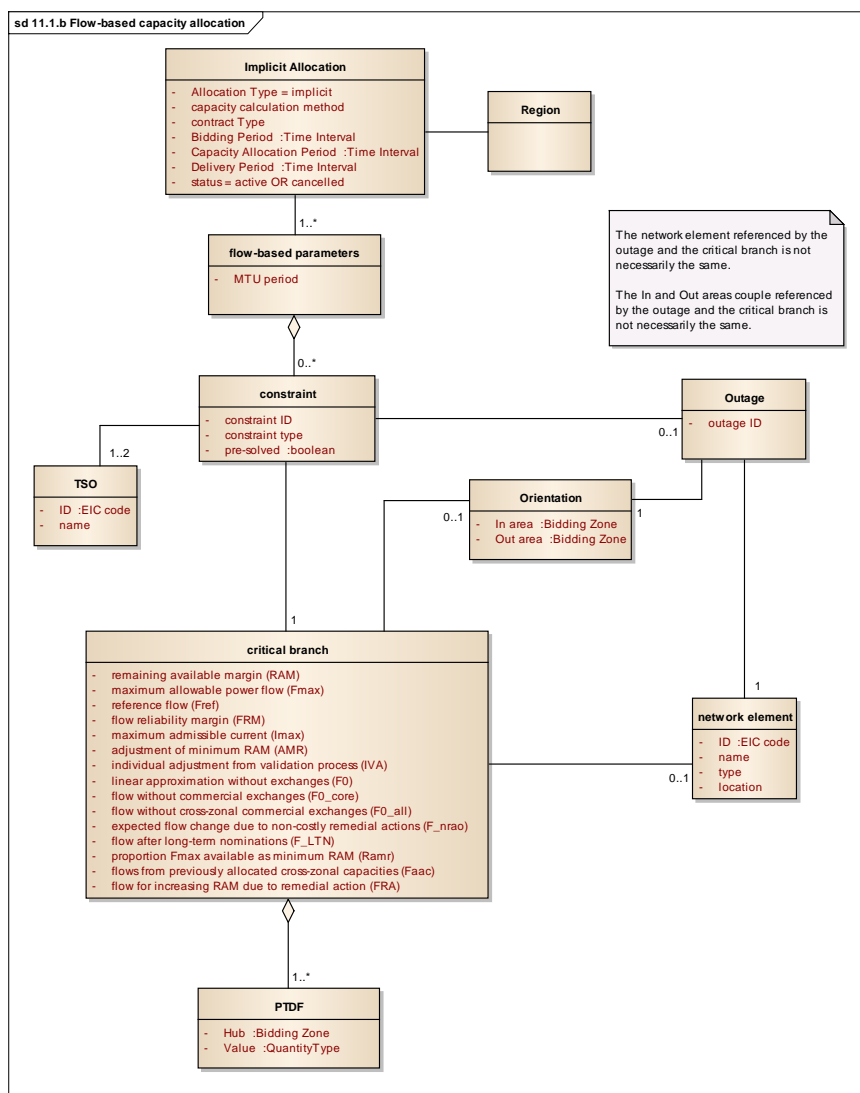
1836 - For each oriented couple of Areas the following data is repeated: Areas, direction and the
1837 capacity value (for every classification category and classification sequence)

1838 If capacity values vary during the time interval, it shall be possible to expand the view so that
1839 they are displayed as a curve and in a table.

7.14 Flow-based Capacity Allocation [11.1.B]

7.14.1 DATA DESCRIPTION

This item can be described by the following class diagram:



1344 The document shall contain the flow-based parameters related to one allocation instance only.
1345 The interval covered by the document shall coincide with the delivery period of the allocation
1346 instance.

Deleted: This data item applies to flow-based implicit allocations only.

Deleted: cover

1347 The contract type of the allocation instance may be daily or intraday.

1348 For each MTU period, the flow-based parameters consist of zero, one or several constraints.
1349 Each constraint has an ID and is either pre-solved or not. When applicable, it shall be indicated
1350 that the constraint is external, anonymous or combined dynamic.

Deleted: The flow-based parameters consist of the power transfer distribution factor (PTDF) matrix that may vary per MTU period. The matrix consists of a row for each anonymous designation of the critical branch or outage (described with a free text descriptor), for which the remaining allocation margin (in MW) and the PTDF per bidding zone¹⁵ is described. The PTDF may be positive as well as negative. ¶
Optionally, a free-text comment may be included.

1351 For both critical branches and outages, the In and Out areas are published (referred to as
1352 Orientation in diagram above), unless the constraint is anonymous. The In and Out areas are
1353 the same in case of a network element internal to a bidding zone.

1354 External, anonymous and combined dynamic constraints are not explicitly published as such.
1355 The objective of the indicator described above is to ensure data consistency and facilitate its
1356 validation. These types of constraints will not contain any references to network elements for
1357 the critical branch and will not contain any outage. Further, an anonymous constraint will not
1358 contain any Orientation for the critical branch.

1359 The TSO(s) that introduced the constraint are indicated. This is normally only one TSO but
1360 may be two for cross-border constraints.

1361 A constraint consists of exactly one critical branch and may optionally be associated with
1362 exactly one outage. An outage has an ID and consists of exactly one network element. A critical
1363 branch corresponds to exactly one network element.

1364 For a critical branch, the following attributes are always published:

- 1365 - remaining available margin (RAM)
- 1366 - maximum allowable power flow (Fmax)
- 1367 - reference flow (Fref)
- 1368 - flow reliability margin (FRM)
- 1369 - adjustment of minimum RAM (AMR)
- 1370 - the power transfer distribution factors PTDF per bidding zone
- 1371 - maximum admissible current (Imax) in Ampere
- 1372 - individual value adjustment resulting from TSO validation process (IVA)

1374 The following attributes are applicable and mandatory only to the Core region:

- 1375 - flow without commercial exchanges **F0_wce** (also referred to as **F0_core**)
- 1376 - flow without commercial exchanges between bidding zones or other synchronous
1377 areas (F0_all)
- 1378 - expected flow change due to non-costly remedial actions (F_nrao)
- 1379 - flow after consideration of long-term nominations (F_LTN)
- 1380 - coordinated value adjustment (CVA)

- the percentage of F_{max} that need to be available as minimum RAM (R_{amr})

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

- the linear approximation of a flow in the reference net position in a situation without any cross-zonal exchanges (F_0)

- flows resulting from previously allocated cross-zonal capacities (F_{aac})

- flow for increasing the RAM due to remedial action (F_{RA})

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

The PTDF may be positive as well as negative.

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

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

7.14.2 PRE-CONFIGURATION

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

Deleted: implicit

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

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

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

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

7.14.3 ASSUMPTIONS

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

1924 7.14.4 INTEGRATION

- 1925 - Region and bidding zones shall be recognised by the platform
- 1926 [- Referenced network elements are recognised by the platform](#)
- 1927 - The Data Provider shall be consistent with the allocation configuration
- 1928 - The time interval of the submitted document covers exactly the allocation instance's delivery
- 1929 period
- 1930 [Due to the size of the data, data provider may make separate submissions per MTU period.](#)
- 1931 [Publications on Transparency Platform will always cover an entire day though for day-ahead](#)
- 1932 [publications and the allocation time horizon for intra-day publications.](#)

1933 7.14.5 MONITORING

- 1934 For a given instance of a flow-based capacity allocation, platform shall monitor that the flow-
- 1935 based parameters are submitted. The submission deadline as described in section 7.14.2 will
- 1936 be monitored.

1937 7.14.6 PROCESSING

- 1938 No processing is performed on this data item.

1939 7.14.7 PUBLICATION

1940 7.14.7.1 PUBLICATION BEHAVIOUR

- 1941 No specific publication behaviour applies.

1942 7.14.7.2 FILTERING AND SORTING CRITERIA

- 1943 Data shall be visually accessed by selecting the following:

1944 Day (Selection is mandatory)

1945 Region (selection is mandatory)

1946 Contract type: Daily or intraday (selection is mandatory)

1947 [Constraint is pre-solved: Yes/No \(selection is optional\)](#)

1948 [Area or In/Out area couple \(optional\)](#)

1949 7.14.7.3 DISPLAY

1950 [If selection criteria have been provided for Area or In/Out area couple, those shall be used to](#)
1951 [filter for the published values in Orientation. If Orientation of either critical branch or Outage](#)
1952 [matches, the data shall be visible.](#)

1953 This data shall be displayed in the following section:

1954 - flow-based capacity allocation

1955 The following attributes of data shall be displayed:

1956 - Title

1957 - Region

1958 - Day selection

1959 - Contract type

1960 - Measurement Units

1961 [For each MTU period, the flow-based parameters are presented; the list of constraint IDs,](#)
1962 [indicator whether constraint is pre-solved or not.](#)

1964 [For each constraint: If applicable, an outage ID and the associated network element.](#)

1965 [For each critical branch and outage: In and Out areas, when available](#)

1966 [For each constraint: The network element associated with the critical branch \(when provided\),](#)
1967 [the applicable attributes \(depending on region\) and the PTDF value for each bidding zone.](#)

1968 [For every network element its EIC code, name, location, type,](#)

Deleted: - Comments¶

Deleted: the PTDF-matrix is presented: Critical branch or outage, remaining available margin, and the PTDF value for each hub....

Deleted:

1974 **7.15 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] –**
1975 **RAMPING RESTRICTIONS**

1976 **7.15.1 DATA DESCRIPTION**

1977 This data item consists of a report in the form of a PDF file, describing the ramping or other
1978 restrictions applied on a Transmission Asset of type DC Link. The two areas connected by the
1979 DC Link are also recorded inside the report.

1980 **7.15.2 PRE-CONFIGURATION**

1981 Data Providers shall be able to configure the following reference data on the platform:

- 1982 - A list of Control Areas where ramping restrictions may apply
- 1983 - For each Control Area, the unique Data Provider

1984 **7.15.3 ASSUMPTIONS**

1985 Data to be submitted as a report. No monitoring is performed on this data item, due to its
1986 unpredictability.

1987 **7.15.4 INTEGRATION**

1988 Data Provider shall on the platform's web site, on the same page where these reports are
1989 published, be able to upload a PDF file and associated it with one Control Area. Platform
1990 shall validate that the Data Provider is authorized for the given Control Area.

1991 **7.15.5 MONITORING**

1992 No monitoring is performed on this data item.

1993 **7.15.6 PROCESSING**

1994 No processing is performed on this data item.

1995 **7.15.7 PUBLICATION**

1996 **7.15.7.1 PUBLICATION BEHAVIOUR**

1997 Documents are published immediately after upload. All versions shall be published.

1998 7.15.7.2 FILTERING AND SORTING CRITERIA

1999 - Country or Control Area (mandatory)

2000 - Date range (optional)

2001 7.15.7.3 DISPLAY

2002 This data shall be displayed in the following section:

2003 **Transmission / Cross Border Capacity of DC Links**

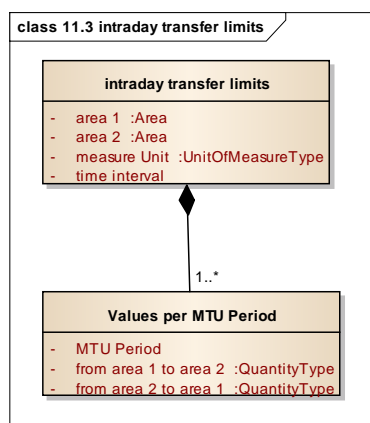
2004 Each report shall be available for download by clicking a link.

2005 For every report, the publication date shall be displayed.

2006

2007 7.16 CROSS-BORDER CAPACITY FOR DC LINKS [11.3] – 2008 INTRADAY TRANSFER LIMITS

2009 7.16.1 DATA DESCRIPTION



2010

2011 Document may contain data related to more than one area couple.

2012 For two connected Areas, this data item describes intraday transfer limits in each direction,
2013 applied on Transmission Assets of type DC Link, during a time interval up to one day. Values
2014 are provided per MTU period and expressed in measure unit (MW).

2015 Note that the transfer limits may be negative.

2016 7.16.2 PRE-CONFIGURATION

2017 Data Providers shall be able to configure the following reference data on the platform:

- 2018 - A list of Area couples where ramping restrictions may apply
- 2019 - For each Area couple, up to two Data Providers

2020 7.16.3 ASSUMPTIONS

2021 It is not necessary to provide references or details of the concerned transmission asset (of type
2022 DC Link).

2023 No monitoring is performed on this data item, due to its unpredictability.

2024 **7.16.4 INTEGRATION**

2025 Platform shall validate that it recognises the Area couple.

2026 Platform shall validate that the Data Provider is authorized for the given Area couple.

2027 Time interval covered by document is up to one day.

2028 **7.16.5 MONITORING**

2029 No monitoring is performed on this data item.

2030 **7.16.6 PROCESSING**

2031 If two Data Providers submit data relating to the same Area couple, platform shall for each
2032 direction and MTU period select the minimum value for publication.

2033 **7.16.7 PUBLICATION**

2034 **7.16.7.1 PUBLICATION BEHAVIOUR**

2035 Documents are published immediately after upload.

2036 Latest version only shall be published.

2037 **7.16.7.2 FILTERING AND SORTING CRITERIA**

2038 - Area couple (mandatory)

2039 - Date or date range (mandatory)

2040 **7.16.7.3 DISPLAY**

2041 This data shall be displayed in the following section:

2042 **Transmission / Cross Border Capacity of DC Links**

2043 The following attributes of the data shall be displayed:

2044 - Title

2045 - Unit of measurement (MW)

2046 - Area couple

2047 - For each direction between the Areas and for each MTU period, the transfer limit

2048 **7.17 YEARLY REPORT ABOUT CRITICAL NETWORK**
2049 **ELEMENTS LIMITING OFFERED CAPACITIES [11.4]**

2050 **7.17.1 DATA DESCRIPTION**

2051 This data item consists of a file that shall be associated with one or several Control Areas. No
2052 monitoring will be performed.

2053 **7.17.2 PRE-CONFIGURATION**

2054 ENTSO-E administrator shall be able to manage the reference data that indicates the list of
2055 allowed Data Providers per Control Area for this data item.

2056 **7.17.3 INTEGRATION**

2057 Data Provider shall on the platform's web site, on the same page where these reports are
2058 published, be able to upload a file and associated it with one or several Control Areas.

2059 Platform shall validate combination of Control Area and Data Provider.

2060 **7.17.4 PUBLICATION**

2061 **7.17.4.1 PUBLICATION BEHAVIOUR**

2062 Documents are published immediately after upload.

2063 All versions shall be published.

2064 **7.17.4.2 FILTERING AND SORTING CRITERIA**

2065 End user shall be able to select data for display by specifying:

2066 - Country or Control Area (optional)

2067 - Publication year (optional)

2068 **7.17.4.3 DISPLAY**

2069 This data shall be displayed in the following section:

2070 Transmission / Critical network elements

2071 Each report shall be available for download by clicking a link.

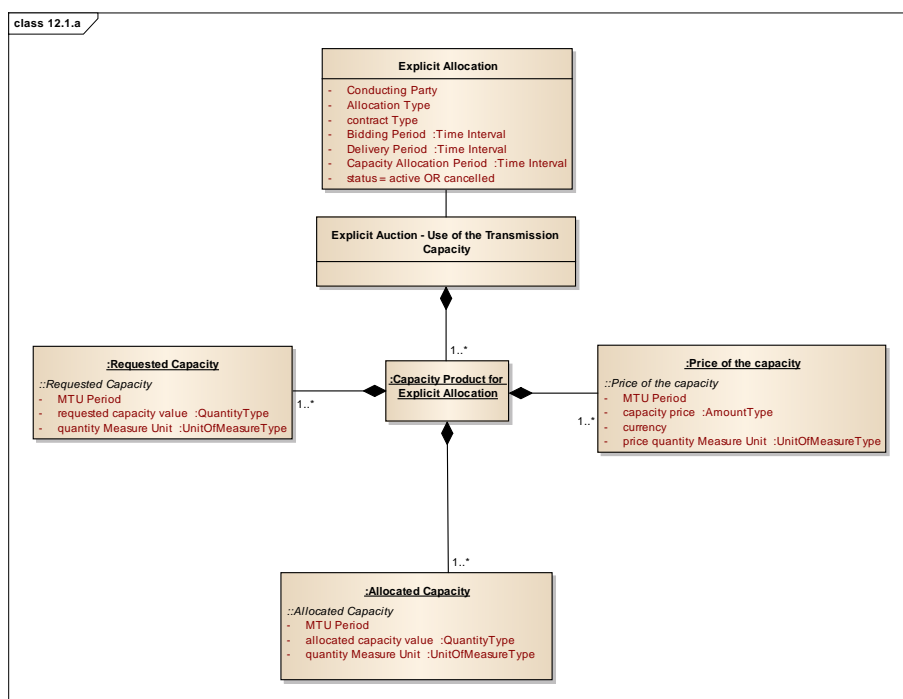
2072 For every report, the publication date shall be displayed.

2073

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

7.18.1 DATA DESCRIPTION

This item can be described by the following class diagram:



The document shall contain data related to one auction only. Results of an Explicit Auction¹⁶ 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:

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

2084 - the Requested Capacity with a quantity in quantity Measure Unit (MW) for each Market Time
2085 Unit period within the time interval

2086 - the Allocated Capacity with a quantity in quantity Measure Unit (MW) for each Market Time
2087 Unit period within the time interval

2088 - the Price of the Capacity with a price in Currency per Price Quantity Measure Unit (MWh) for
2089 each Market Time Unit period within the time interval

2090 7.18.2 PRE-CONFIGURATION

2091 - For each Explicit Auction instance's capacity products, the data item "Use of the Transmission
2092 Capacity", shall be expected by the platform¹⁷. Refer to chapter 7.28.1.2 for details on the
2093 configuration of an auction's capacity products.

2094 - For each Explicit Auction instance, the unique allowed Data Provider is the one indicated by
2095 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2096 - For each explicit auction instance, the submission deadline:

- 2097 • For a given Explicit Auction instance, submission must be done at the latest one hour
2098 (H+1) after the end of the Capacity Allocation Period.

2099 *Example: if the capacity product is Yearly Base 1 between France and German Bidding*
2100 *Zones for the time interval of year 2013, and if the Capacity Allocation Period ends on*
2101 *November 17th, 2012, at 08:00 UTC, the document describing the use of transmission*
2102 *capacity in this time interval must be submitted before November 17th, 2012, 09:00 UTC.*

2103 Submission deadline is the same for all results associated with all of the Auction instance's
2104 capacity products.

2105 7.18.3 ASSUMPTIONS

2106 No specific assumptions apply to this data item.

2107 7.18.4 INTEGRATION

2108 - The Data Provider shall be consistent with the configuration of the capacity allocation

2109 - Capacity Product shall be consistent with the configuration of the capacity allocation

2110 - Currency shall be consistent with the capacity product

¹⁷ If Allocation Type is "continuous", prices will not be expected.

2111 - The time interval described in the document shall be complete (e.g. a whole day for the results
2112 of a Daily Auction)

2113 - If there is no allocated capacity for a given time interval, prices do not have to be included.

2114 7.18.5 MONITORING

2115 The submission deadline described in section 7.18.2 shall be monitored for each of the
2116 auction's capacity products.

2117 If Allocation Type is "continuous", no monitoring will be performed.

2118 7.18.6 PROCESSING

2119 No processing is performed by the platform at this step.

2120 7.18.7 PUBLICATION

2121 7.18.7.1 PUBLICATION BEHAVIOUR

2122 No particular behaviour applies to this data item.

2123 7.18.7.2 FILTERING AND SORTING CRITERIA

2124 Data shall be visually accessed by selecting the following:

2125 - Contract Type (Selection is Mandatory)

2126 - Country (selection is optional: If selected, Areas will be filtered to include only those that
2127 partially or completely cover the Country)

2128 - Areas couple (Selection is Mandatory)

2129 - Direction (both by default) (Selection is Mandatory)

2130 - Classification Category (Selection is optional)

2131 - Classification Sequence (Selection is optional)

2132 - Conducting Party (Selection is optional)

2133 - Time interval (Start and End date) (Selection is mandatory)

2134 7.18.7.3 DISPLAY

2135 This data shall be displayed in the following section:

2136 - **Explicit Auctions** (together with the Total Capacity Already Allocated / [12.1.c])

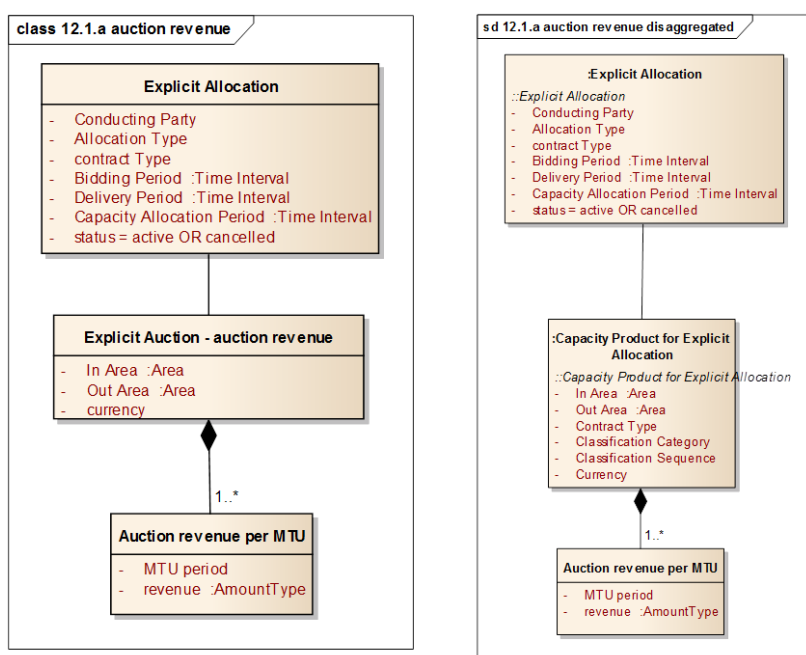
- 2137 The following attributes of data shall be displayed:
- 2138 - Title
- 2139 - Areas name
- 2140 - Contract Type
- 2141 - Conducting Party
- 2142 - Time interval
- 2143 - Measurement Unit for requested and allocated capacity
- 2144 - Currency for capacity price
- 2145 - Measurement Unit for capacity price
- 2146 - For each MTU Period within the time interval, the requested capacity value, the allocated
- 2147 capacity value and the capacity price value. This is repeated per direction, Classification
- 2148 Category and Classification Sequence.
- 2149

7.19 EXPLICIT ALLOCATIONS – AUCTION REVENUE

[12.1.A]

7.19.1 DATA DESCRIPTION

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



The document shall contain data related to one auction only. Two alternative submission modes are available: In aggregated format, revenue from an Explicit Auction¹⁸ is given by Area couple. In disaggregated format, the revenue is submitted per capacity product, i.e. per In and Out Area, classification category and classification sequence. In both modes, values are provided for the whole Delivery Period, i.e. the time interval during which the transfer capacity will be used. The length of the time interval depends on the auction's Contract Type (one year, one month, one day, etc.). Revenue is expressed in a Currency. Resolution is MTU period.

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

2162 It is possible to submit revenue in the disaggregated format together with the use of the transfer
2163 capacity described in chapter 7.18. Aggregated revenue has to be submitted separately
2164 though. For further details please refer to the implementation guide.

2165 7.19.2 PRE-CONFIGURATION

2166 - For each Area couple covered by an Explicit Auction instance's capacity products, the data
2167 item "Explicit Auctions – Auction Revenue" shall be expected by the platform¹⁹. Refer to
2168 chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2169 - For each Explicit Auction instance, the single allowed Data Provider is the one indicated by
2170 the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2171 - For each explicit auction instance, the submission deadline:

- 2172 • For a given Explicit Auction instance, submission must be done at the latest one hour
2173 (H+1) after the end of the Capacity Allocation Period.

2174 *Example: if the Explicit Auction instance is Yearly Base 1 between France and German*
2175 *Bidding Zones for the time interval of year 2013, and if the Capacity Allocation Period ends*
2176 *on November 17th, 2012, at 08:00 UTC, the document describing the auction revenue in*
2177 *this time interval must be submitted before November 17th, 2012, 09:00 UTC.*

2178 Submission deadline is the same for all Area couples covered by the Auction instance's
2179 capacity products.

2180 7.19.3 ASSUMPTIONS

2181 Not more than one Data Provider per Explicit Auction instance.

2182 There are two alternative submission modes: Aggregated per oriented border and
2183 disaggregated per capacity product, respectively. For a given allocation and border, only one
2184 mode will be used.

2185 Delivery Periods are the same in both directions across a border. Only one currency is
2186 applicable in both directions across a border.

2187 7.19.4 INTEGRATION

2188 - The Data Provider shall be consistent with the capacity allocation configuration

2189 - Area couple shall be consistent with capacity product, as per capacity allocation configuration

2190 - Currency shall be consistent with the capacity products covering the Area couple

¹⁹ When Allocation Type is "continuous", data is not expected.

2191 7.19.5 MONITORING

2192 The submission deadline described in section 7.18.2 shall be monitored for all Area couples
2193 covered by the auction's capacity products.

2194 7.19.6 PROCESSING

2195 Platform aggregates the total revenue for the whole delivery period by summing up the values
2196 submitted per MTU period.

2197 Once total revenue values for a given delivery period have been submitted for both directions,
2198 platform aggregates a grand total for the border.

2199 7.19.7 PUBLICATION

2200 7.19.7.1 PUBLICATION BEHAVIOUR

2201 A delay in submission of values in a given direction shall not withhold publication of already
2202 submitted values in the opposite direction. Publication of aggregated sum per border is
2203 performed independently of publication of values per direction. Aggregated sum per border
2204 shall be published as soon as values in both directions have been submitted.

2205 7.19.7.2 FILTERING AND SORTING CRITERIA

2206 Data shall be visually accessed by selecting the following:

2207 - Contract Type (selection is mandatory)

2208 - Country (selection is optional: If selected, Area couples will be filtered to include only those
2209 that partially or completely cover the Country)

2210 - Areas couple (selection is mandatory)

2211 - Date or date range (selection is mandatory)

2212 7.19.7.3 DISPLAY

2213 This data shall be displayed in the following section:

2214 - **Explicit Auctions** (together with the previously allocated Capacity / [12.1.c])

2215 The following attributes of data shall be displayed:

2216 - Title

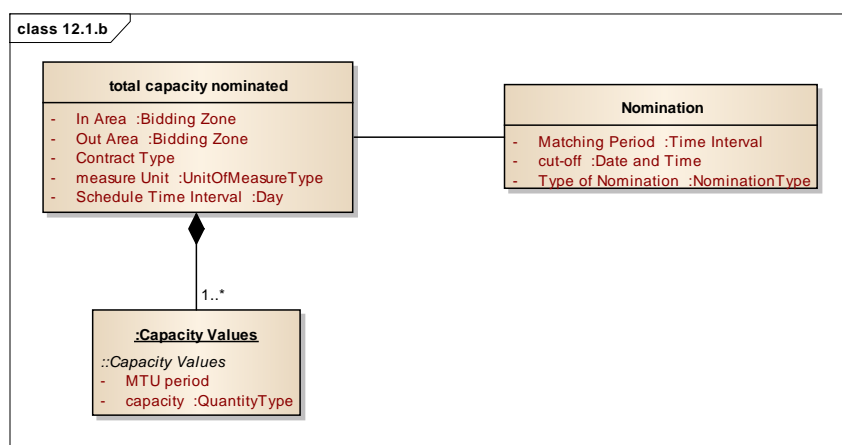
2217 - Area couple

- 2218 - Contract Type
- 2219 - Currency
- 2220 - Delivery Period
- 2221 - For each delivery period during the selected date range, the following details of auction
- 2222 revenue are displayed:
- 2223 - In each direction and per MTU period
- 2224 - aggregated revenue in each direction for the whole Delivery Period
- 2225 - aggregated revenue for the border, for the whole Delivery Period

2226 7.20 TOTAL CAPACITY NOMINATED [12.1.B]

2227 7.20.1 DATA DESCRIPTION

2228 This item can be described by the following class diagram:



- 2229
- 2230 The document may cover several couples of bidding zones and directions.
- 2231 Values are expected for one day and are given by Market Time Unit period. Values for the time
- 2232 horizons long-term, day-ahead and intraday are published separately. For some borders,
- 2233 intraday values may not be applicable. For other borders, long-term may not be applicable.
- 2234
- ### 2235 7.20.2 PRE-CONFIGURATION
- 2236 - A list of In and Out Area couples where the data item "Total Capacity Nominated" is expected
 - 2237 - For each In and Out Area couple, the allowed Data Provider(s), with their priorities
 - 2238 - For each In and Out Area couple, indicators whether intraday and/or long-term nominations
 - 2239 are expected or not
 - 2240 - For each In and Out Area couple, the applicable submission deadlines for day-ahead and if
 - 2241 applicable intraday and long-term time horizons, respectively:
 - 2242 • Submission must be done H+1 after the respective cut-off time of the concerned
 - 2243 nomination round on this given In and Out Area couple.

- 2244 *Example A: The couple of Bidding Zones is France - Germany, the long-term cut-off time*
2245 *is at 20:00 UTC and the day-ahead cut-off time is at 22:00 UTC for the delivery day March*
2246 *13th, 2012. A first document shall be submitted with long-term values before March 12th,*
2247 *2012, 21:00 UTC and contain capacity values for the whole day of March 13th, 2012.*
- 2248 *A second document, containing values for the day-ahead time horizon that are updated*
2249 *with the day-ahead nomination, shall be submitted no later than March 12th, 2012, 23:00*
2250 *UTC.*
- 2251 *Example B: The couple of Bidding Zones is France – Spain and in addition to long-term*
2252 *and daily nominations there are also intraday nominations:*
- 2253 *long-term nomination round with cut-off at D-1, 12:00 UTC for the delivery period D, 00:00*
2254 *– 24:00 UTC*
- 2255 *daily nomination round with cut-off at D-1, 18:00 UTC for the delivery period D, 00:00 –*
2256 *24:00 UTC*
- 2257 *1st intraday nomination round with cut-off at D-1, 20:00 UTC for the delivery period D,*
2258 *06:00-24:00 UTC*
- 2259 *2nd intraday nomination round with cut-off at D, 04:00 UTC for the delivery period D, 12:00-*
2260 *24:00 UTC*
- 2261 *3rd intraday nomination round with cut-off at D, 12:00 UTC for the delivery period D, 18:00-*
2262 *24:00 UTC*
- 2263 *The following documents shall be submitted:*
- 2264 *A first document containing the values for the long-term time horizon for the whole delivery*
2265 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 13:00 UTC*
- 2266 *A second document containing the values for the day-ahead time horizon for the whole*
2267 *delivery period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 19:00 UTC.*
- 2268 *A third document containing the values for the intraday time horizon for the whole delivery*
2269 *period D, 00:00 – 24:00 UTC, shall be submitted no later than D-1, 21:00 UTC.*
- 2270 *A higher version of the third document containing the values for the intraday time horizon*
2271 *(including 2nd intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*
2272 *shall be submitted no later than D, 05:00 UTC.*
- 2273 *A higher version of the third document containing the values for the intraday time horizon*
2274 *(including 3rd intraday nominations) for the whole delivery period D, 00:00 – 24:00 UTC,*
2275 *shall be submitted no later than D, 13:00 UTC.*
- 2276 *The matching process, including cut-off times, is described in chapter 7.1.3.*

2277 **7.20.3 ASSUMPTIONS**

2278 If intraday nominations are applicable on a given border, platform will monitor submission
2279 deadline for the first intraday nomination only.

2280 Platform does not perform any aggregation.

2281 **7.20.4 INTEGRATION**

2282 - Area couple shall be recognised by the platform

2283 - The Data Provider shall be consistent with the identified Area couple

2284 - The Schedule Time Interval in the submitted document is one day

2285 **7.20.5 MONITORING**

2286 This data item is expected one or several times per day for all declared In and Out Area
2287 couples. For each couple of In and Out Areas, the submission deadlines for long-term, day-
2288 ahead and intraday values described in section 7.20.2 shall be monitored. If no data has
2289 been submitted, all declared Data Providers will be notified.

2290 **7.20.6 PROCESSING**

2291 If data has been submitted for a given Bidding Zone couple, direction, time horizon and
2292 schedule Time Interval (day) by more than one Data Provider, platform shall publish data
2293 coming from Data Provider with highest priority.

2294

2295 **7.20.7 PUBLICATION**

2296 **7.20.7.1 PUBLICATION BEHAVIOUR**

2297 Long-term, day-ahead and intraday values shall be published separately.

2298 **7.20.7.2 FILTERING AND SORTING CRITERIA**

2299 Data shall be visually accessed by selecting the following:

2300 - Day (Selection is mandatory)

2301 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only
2302 those that partially or completely cover the Country)

2303 - Bidding Zones couple or Bidding Zone

2304 7.20.7.3 DISPLAY

2305 This data shall be displayed in the following section:

2306 - **Transmission / Total nominated capacity**

2307 The following attributes of data shall be displayed:

2308 - Title

2309 - Schedule Time Interval (i.e. selected Day)

2310 - Measurement Unit

2311 - MTU

2312 - Bidding Zone couple

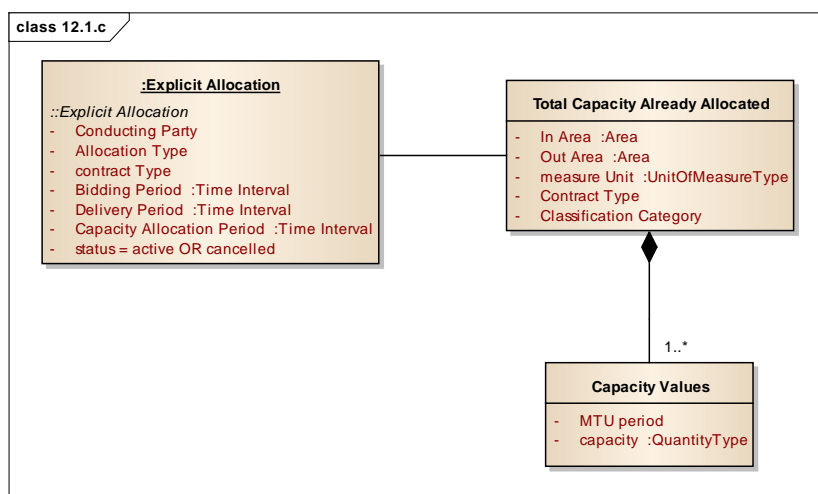
2313 - In each direction, the long-term, day-ahead and intraday values for each MTU

2314 Data is published in table and chart formats.

2315 7.21 TOTAL CAPACITY ALREADY ALLOCATED [12.1.c]

2316 7.21.1 DATA DESCRIPTION

2317 This item can be described by the following class diagram:



2318

2319 The document shall contain data related to exactly one auction instance. The total capacity
2320 already allocated is described by In and Out Areas and per Contract Type and Classification
2321 Category, with one capacity value in measure Unit for each Market Time Unit period within a
2322 time interval corresponding to the auction's Delivery Period.

2323 This data item is relevant for explicit allocations only.

2324 *Example: Before a daily base auction, a single document shall be submitted to the platform,*
2325 *containing the total capacity already allocated, taking into account earlier allocations (i.e.*
2326 *yearly, monthly and weekly auctions) and explicit resales or use it or sell it (UIOSI). Capacity*
2327 *values shall be provided for each MTU period of the delivery period of the daily auction.*
2328 *Contract Type of document is Daily and Classification Category is Base.*

2329 7.21.2 PRE-CONFIGURATION

2330 - For each Explicit Allocation instance, the data item "Total Capacity Already Allocated" may
2331 be expected by the platform. Refer to chapter 7.28.1.2 for details on the configuration of a
2332 capacity allocation.

2333 - For each Explicit Allocation instance, the unique allowed Data Provider is the one indicated
2334 in the capacity allocation configuration. Refer to chapter 7.28.1.3 for details.

2335 - For a given allocation, the submission deadline depends on the Contract Type (monthly,
2336 weekly, etc.) and is the same as for the offered transfer capacity [11.1], refer to sections 7.11.2
2337 through 7.12.2.

2338 7.21.3 ASSUMPTIONS

2339 Data providers have performed all calculations, taking into account earlier allocations and
2340 explicit resales or use it or sell it (UIOSI). Platform will not perform any calculation.

2341 7.21.4 INTEGRATION

2342 - The Data Provider shall be consistent with the configuration of the capacity allocation, refer
2343 to chapter 7.28.1.3 for details

2344 - The time interval described in the document shall be complete (e.g. a whole day for a Daily
2345 auction)

2346 7.21.5 MONITORING

2347 For a given instance of an Explicit Allocation, platform shall monitor that the data item "Total
2348 Capacity Already Allocated" is submitted

2349 Submission deadlines depend on the auction as explained in chapter 7.21.2.

2350 7.21.6 PROCESSING

2351 No processing performed on this data item.

2352 7.21.7 PUBLICATION

2353 7.21.7.1 PUBLICATION BEHAVIOUR

2354 Standard publication behaviour applies.

2355 7.21.7.2 FILTERING AND SORTING CRITERIA

2356 Data shall be visually accessed by selecting the following:

2357 - Contract Type (Selection is Mandatory)

2358 - Country (selection is optional: If selected, Areas will be filtered to include only those that
2359 partially or completely cover the Country)

2360 - Areas couple (Selection is Mandatory)

2361 - Direction (both by default) (Selection is Mandatory)

2362 - Time window (Start and End date) (Selection is mandatory)

2363 7.21.7.3 DISPLAY

2364 This data shall be displayed in the following section:

2365 - **Explicit Auctions / Total Capacity Already Allocated**

2366 The following attributes of data shall be displayed:

2367 - Title

2368 - Areas name

2369 - Contract Type

2370 - Classification Category

2371 - Time window

2372 - Measurement Unit

2373 - For each MTU Period within the time window, the total capacity already allocated. This is
2374 repeated per direction.

2375

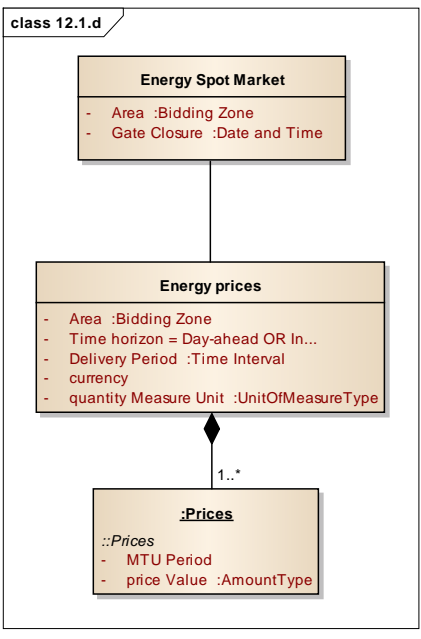
7.22 ENERGY PRICES [12.1.D]

Deleted: DAY-AHEAD

7.22.1 DATA DESCRIPTION

This item can be described by the following class diagram:

Deleted: 1
The document shall cover only one bidding zone.



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

Deleted: day

There may be several intraday delivery periods that partially overlap. Delivery period may cover up to 29 consecutive hours, i.e. partially covering two days.

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

2392 7.22.2 PRE-CONFIGURATION

2393 Energy prices are expected for any bidding zone covered by an implicit transmission capacity
2394 allocation for the day-ahead time horizon. Optionally, prices may be published for bidding
2395 zones covered by implicit transmission capacity allocations for the intraday time horizon.

Deleted: By default, day-ahead prices are expected for all bidding zones. In some instances, it is submitted by country rather than bidding zone²⁰.

2396 - For each bidding zone and time horizon, the unique allowed Data Provider

Deleted: or country

2397 - For each bidding zone, time horizon (and per delivery period for intraday time horizon), the
2398 submission deadline. One hour (H+1) after the gate closure of energy spot market for the
2399 day-ahead time horizon, as controlled by pre-configuration, refer to chapter 7.1.4 for details.

Deleted: or country, the daily

Deleted: :

Deleted: . This is

2400 7.22.3 ASSUMPTIONS

2401 There shall be only one Data Provider for a given bidding zone and time horizon.

Deleted: or country

2402 7.22.4 INTEGRATION

2403 - Bidding zone shall be recognised by the platform

Deleted: or country

2404 - The Data Provider shall be consistent with the bidding zone ,

Deleted: or country

2405 - Currency shall be consistent with pre-configuration [C9]

2406 - Bidding zone and time horizon (and delivery period, when applicable) shall be consistent with
2407 pre-configuration

2408 7.22.5 MONITORING

2409 For every bidding zone where energy prices data are expected, the submission deadline(s)
2410 shall be monitored.

Deleted: or country

Deleted: this

Deleted: is

Deleted: daily

2411 7.22.6 PROCESSING

2412 No processing is performed by the platform on this data item.

2413 7.22.7 PUBLICATION

2414 7.22.7.1 PUBLICATION BEHAVIOUR

2415 No particular behaviour applies to this data item.

2416 7.22.7.2 FILTERING AND SORTING CRITERIA

2417 Data shall be visually accessed by selecting the following:

- 2432 - Bidding zone (Selection is Mandatory)
- 2433 - Day (Selection is mandatory)
- 2434 - [Resolution \(selection is mandatory when there is more than one resolution\)](#)
- 2435 7.22.7.3 DISPLAY
- 2436 This data shall be displayed in the following section:
- 2437 - **Energy prices**
- 2438 The following attributes of data shall be displayed:
- 2439 - Title
- 2440 - Bidding Zone
- 2441 - Selected day
- 2442 - Currency
- 2443 - Quantity Measurement Unit (MWh)
- 2444 - [Resolution](#)
- 2445 - [Time horizon\(s\): Day-ahead and/or intraday](#)
- 2446 - [Delivery period\(s\)](#)
- 2447 - For each MTU period during the selected day, the [energy price per time horizon and](#)
- 2448 [delivery period.](#)
- 2449
- 2450 [Data shall be visualised in a table and in a graph.](#)
- 2451

Deleted: Country or

Deleted: Day-ahead

Deleted: or Country

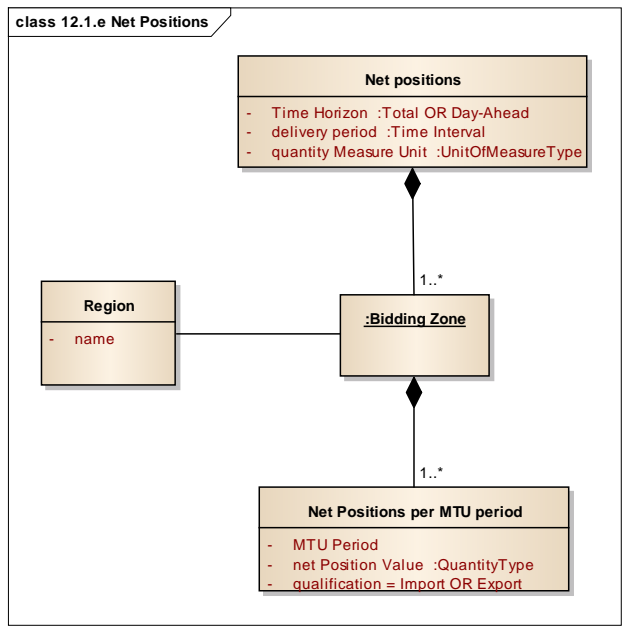
Deleted: day-ahead

Deleted:Page Break.....
¶ Implicit allocations –

7.23 IMPLICIT ALLOCATIONS - NET POSITIONS [12.1.E]

7.23.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

7.23.2 PRE-CONFIGURATION

- For each bidding zone there will be configuration whether net positions are expected and separately for day-ahead and total time horizons.
- For each bidding zone and time horizon, the single allowed Data Provider.

Deleted: ¶

Deleted: N

Deleted: resulting from one or several Implicit Allocations²¹

Deleted: a given

Deleted: interval corresponding to the allocations' delivery period (for which transfer capacity was auctioned

Deleted: will be used).

Deleted: Delivery Period

Deleted: 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. ¶

Deleted: covered by an implicit allocation's products,

Deleted: shall be

Deleted: by the platform. Refer to chapter 7.28.1.2

Deleted: details on the configuration of an allocation's capacity products

Deleted: covered by any implicit allocation

2490 - For each bidding zone and time horizon, the daily submission deadline, which typically will
2491 be situated one hour after the last day-ahead allocation for the publication of day-ahead
2492 values. For the publication of total values, the deadline is one hour after the first intraday
2493 allocation. The total values shall be updated, if need be, no later than one hour after each
2494 subsequent intraday allocation.

2495

2496 7.23.3 ASSUMPTIONS

2497 Updates to the total values are submitted not more frequently than once every 15 minutes.

2498 7.23.4 INTEGRATION

2499 - The Data Provider shall be consistent with bidding zone and time horizon as per pre-
2500 configuration described in 7.23.2

2501 - Data is delivered for the entire day

2502 7.23.5 MONITORING

2503 For a given bidding zone and time horizon, the submission deadline shall be monitored.

2504 Updates are submitted only if the net position has been modified. As a consequence,
2505 monitoring of submission deadlines for updates are not feasible and will not be performed.

2506 7.23.6 PROCESSING

2507 No processing is performed by the platform.

2508 7.23.7 PUBLICATION

2509 7.23.7.1 PUBLICATION BEHAVIOUR

2510 No specific behaviour applies to this data item.

2511 7.23.7.2 FILTERING AND SORTING CRITERIA

2512 Data shall be visually accessed by selecting the following:

2513 - Country (selection is optional: If selected, bidding zones will be filtered to include only those
2514 that partially or completely cover the Country)

2515 - One Bidding Zone (Selection is Mandatory)

2516 - Day (Selection is mandatory)

Deleted: :¶

For a given Implicit Allocation instance, submission must

Deleted: done at the latest

Deleted: (H+1)

Deleted: and

Deleted: , respectively

Deleted: end of the Capacity Allocation Period.

Deleted: intraday gate closure

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

Deleted: There is not more than one Implicit Allocation per Region and Contract Type.¶

Deleted: - The Delivery Period described in the document shall be complete ¶

Deleted: contract type

Deleted: Areas

Deleted: or several

Deleted: Zones²²

2541 - Time horizon: Day-Ahead or Total

Deleted: Contract Type

2542 7.23.7.3 DISPLAY

Deleted: Intraday

2543 This data shall be displayed in the following section:

2544 - **Implicit Allocations** - Net positions

2545 The following attributes of data shall be displayed:

2546 - Title

2547 - Day

2548 - Measurement Unit (MW)

2549 - Bidding zone

Deleted: Contract Type
- The following data is repeated for each selected

2550 - For each MTU Period within the selected day, the net position and whether it is "import" or
2551 "export" and with separate values per time horizon.

Deleted: Zone: Bidding Zone name and for

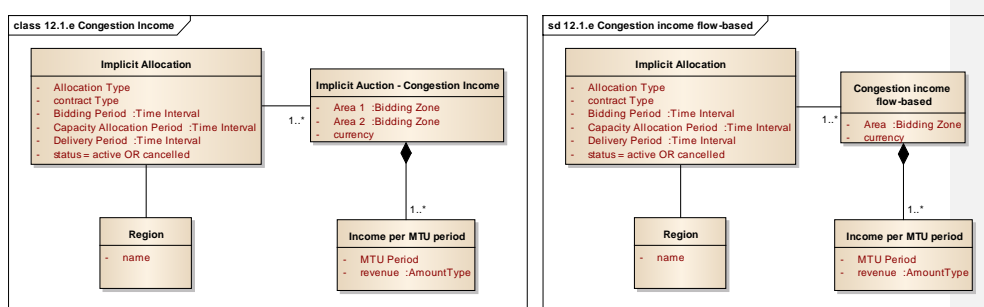
Deleted: ". When selected Contract Type is Intraday, net positions are displayed for each Delivery Period during the selected day...

2552

7.24 IMPLICIT ALLOCATIONS – CONGESTION INCOME [12.1.E]

7.24.1 DATA DESCRIPTION

This item can be described by the following class diagram:



Congestion income for an Implicit Allocation²³ is given per Area couple for a given time interval corresponding to the implicit allocation's delivery period (for which transfer capacity was auctioned and will be used). For flow-based allocations, the congestion income is given per bidding zone.

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

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

7.24.2 PRE-CONFIGURATION

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

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

²³ The Implicit Allocation in question is the same as the Implicit Allocation described in « Implicit Allocation – Net Positions » (chapter 7.23)

- 2580 - For flow-based allocations, a single allowed Data Provider for all bidding zones in the
2581 region is indicated.
- 2582 - For each Implicit Allocation, the submission deadline:
- 2583 • For a given Implicit Allocation instance, submission must be done at the latest one hour
2584 (H+1) after the end of the Capacity Allocation Period.
- 2585 *Example: if the Daily Implicit Allocation instance is between France and German Bidding*
2586 *Zones for the time interval of March 13th, 2012, and if the Capacity Allocation Period ends*
2587 *on March 12th, 2012, at 12:00 UTC, the documents describing the Congestion Income for*
2588 *this time interval must be submitted before March 12th, 2012, 13:00 UTC.*
- 2589 Submission deadline is the same for all Area couples covered by the Implicit Allocation.
2590 For flow-based allocations, the submission deadline is the same for all bidding zones in
2591 the region.

2592 7.24.3 ASSUMPTIONS

- 2593 Only one Data Provider per Area couple or per region (for flow-based).
- 2594 There is not more than one Implicit Allocation per Region.
- 2595 Data is submitted per area couple or bidding zone (for flow-based) and platform does not have
2596 to perform any calculation.

2597 7.24.4 INTEGRATION

- 2598 - Currency shall be consistent with the capacity products covering the Area couple or with the
2599 bidding zone (for flow-based)
- 2600 - The Data Provider shall be consistent with the implicit allocation as per pre-configuration
2601 described in 7.24.2
- 2602 - The Delivery Period described in the document shall be complete

2603 7.24.5 MONITORING

- 2604 For a given instance of an Implicit Allocation, the submission deadline common to all Area
2605 couples or bidding zones (for flow-based) covered by the capacity products shall be
2606 monitored.

2607 7.24.6 PROCESSING

- 2608 No processing is performed by the platform at this step.

2609 7.24.7 PUBLICATION

2610 7.24.7.1 PUBLICATION BEHAVIOUR

2611 No specific behaviour applies to this data item.

2612 7.24.7.2 FILTERING AND SORTING CRITERIA

2613 Data shall be visually accessed by selecting the following:

2614 - Region (for flow-based)

2615 - Country (selection is optional: If selected, Bidding Zones will be filtered to include only those
2616 that partially or completely cover the Country)

2617 - One or several Bidding Zones (Selection is Mandatory)

2618 - Contract Type

2619 - Day (Selection is mandatory)

2620 7.24.7.3 DISPLAY

2621 This data shall be displayed in the following section:

2622 - **Implicit Auctions**

2623 The following attributes of data shall be displayed:

2624 - Title

2625 - Capacity calculation method (ATC- or flow-based)

2626 - Region (for flow-based)

2627 - Day

2628 - Contract Type

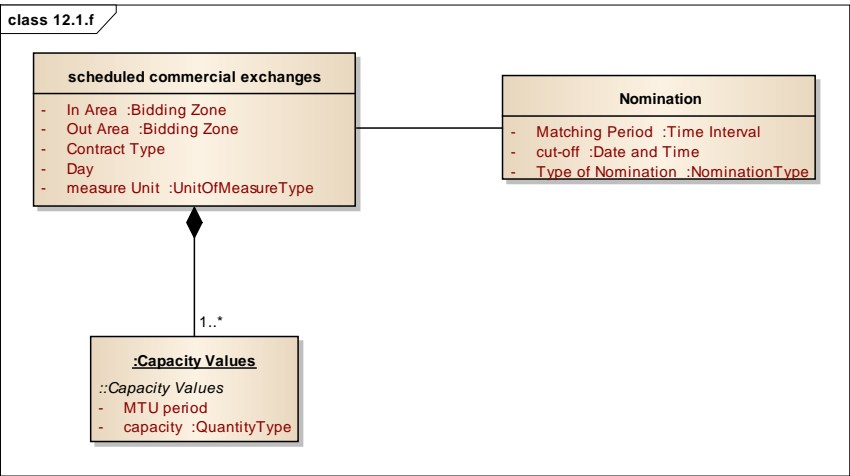
2629 - The following is repeated for each border or Bidding Zones (for flow-based): Name of Bidding
2630 Zone(s) and currency and for each MTU Period within the selected day, the revenue amount.
2631 When selected Contract Type is Intraday, revenue amounts are displayed for each Delivery
2632 Period during the selected day.

2633

7.25 SCHEDULED COMMERCIAL EXCHANGES [12.1.F]

7.25.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

Deleted: intraday

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

Deleted: For

Deleted: ,

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

Deleted: depending on whether bidding zone is importing or exporting, the In or Out area shall be populated with the Region. The combination of In and Out area will indicate whether the bidding zone is importing or exporting

7.25.2 PRE-CONFIGURATION

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

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

2659 - For each In and Out Area couple there is a daily submission deadline for the day-ahead
2660 values at one hour (H+1) after the day-ahead cut-off time.

Deleted: common

Deleted: and intraday total

2661 *Example: if the couple of Bidding Zones is France - Germany, and if the day-ahead cut-off*
2662 *time is 20:00 UTC, for the delivery day March 13th, 2012, the day-ahead values shall be*
2663 *submitted before March 12th, 2012, 21:00 UTC.*

2664 Further, if there are several intraday nominations or allocations on the In and Out Area
2665 couple and such intraday nomination or allocation results in an update to the scheduled
2666 commercial exchange, updated total values shall be submitted no later than two hours
2667 (H+2) after each intraday nomination or allocation.

Deleted: intraday

Deleted: the

2668 7.25.3 ASSUMPTIONS

2669 Updates are submitted only if schedule has been modified. As a consequence, monitoring of
2670 submission deadlines for updates are not feasible and will not be performed.

2671 Platform does not perform any aggregations for day-ahead or total values. Platform shall
2672 calculate net positions though based on the submitted cross-zonal values.

Deleted: intraday

2673 Platform will monitor the separate submission deadlines for day-ahead and total values. If
2674 there is more than one intraday nomination on the given border, platform will monitor the first
2675 submission of total values only.

Deleted: intraday

Deleted: intraday

2676 Updates to the total values are submitted not more frequently than once every 15 minutes.

2677 7.25.4 INTEGRATION

- 2678 - Bidding Zones shall be recognised by the platform
- 2679 - The Data Provider shall be consistent with the identified Bidding Zones
- 2680 - The time interval in the submitted document is of one day

2681 7.25.5 MONITORING

2682 For each couple of In and Out Areas, the submission of day-ahead and first submission of
2683 total values described in section 7.25.2 shall be monitored. If no data has been submitted, all
2684 declared Data Providers will be notified.

Deleted: intraday

2685 7.25.6 PROCESSING

2686 If for a given Bidding Zone couple and MTU period more than one Data Provider has submitted
2687 data, platform will publish the value from the Data Provider with highest priority.

2696 Platform shall calculate the net positions for day-ahead and total time horizons, respectively,
2697 based on the submitted cross-zonal values. If one or more cross-zonal values are missing, the
2698 corresponding net position shall not be published.

2699 7.25.7 PUBLICATION

2700 7.25.7.1 PUBLICATION BEHAVIOUR

2701 Day-ahead and [total](#) values will be published separately on the same data view.

Deleted: intraday

2702 7.25.7.2 FILTERING AND SORTING CRITERIA

2703 Data shall be visually accessed by selecting the following:

2704 - Day (Selection is mandatory)

2705 - Country (selection is optional: If selected, Bidding Zone couples will be filtered to include only
2706 those that partially or completely cover the Country)

2707 - Bidding Zones couple or Bidding Zone

2708 7.25.7.3 DISPLAY

2709 This data shall be displayed in the following section:

2710 - **Transmission / Scheduled commercial exchanges**

Deleted: day-ahead

2711 The following attributes of data shall be displayed:

2712 - Title

2713 - selected Day

2714 - Measurement Unit

2715 - MTU

2716 - for each couple of Bidding Zones, for each [MTU period](#) within the selected day, the day-
2717 ahead and [total](#) values per direction [across](#) each Bidding Zone [border](#)

Deleted: Market Time Unit

Deleted: intraday

2718 - [for each bidding zone, for each MTU period within the selected day, the day-ahead and total](#)
2719 [net positions](#)

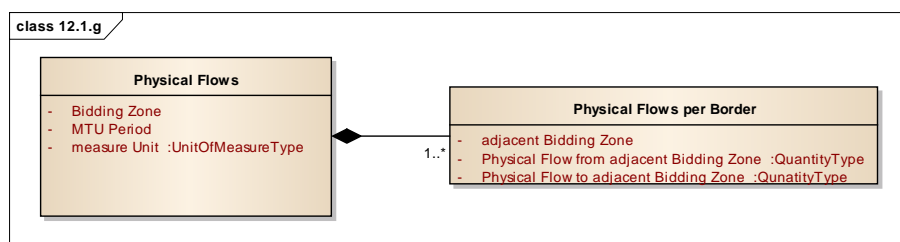
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2720

2726 7.26 PHYSICAL FLOWS [12.1.G]

2727 7.26.1 DATA DESCRIPTION

2728 This item can be described by the following class diagram:



- 2729
- 2730 Physical Flows are described between two Bidding Zones, or in some cases two countries,
2731 with one flow value per Market Time Unit period in each direction, in Measure Unit (MW).
- ### 2732 7.26.2 PRE-CONFIGURATION
- 2733 - A list of couples of Bidding Zones or countries where Physical Flows are expected
- 2734 - For each couple of Bidding Zones or countries where Physical Flows are expected, as of
2735 what date and time it shall be expected by the platform. Optionally an end date and time may
2736 be configured as well.
- 2737 - For each couple of Bidding Zones or countries, the allowed Data Providers, and their
2738 priorities for each direction across the border between the Bidding Zones
- 2739 - For each couple of Bidding Zones or countries and Data Provider, an indicator whether
2740 netted or non-netted values are expected. By default, netted values are expected.
- 2741 - For each couple of Bidding Zones or countries where Physical Flows are expected, the
2742 submission deadline (to be configured if needed to override the default submission deadline):
- 2743 • For a given couple of Bidding Zones or countries, submission must be done at the latest
2744 one hour (H+1) after the end of the MTU Period.
- 2745 *Example: if the couple of Bidding Zones is France - Germany, for a MTU Period of March*
2746 *13th, 2012, between 10:00 and 10:30 UTC, the document describing the physical flows*
2747 *during this MTU Period must be submitted before March 13th, 2012, 11:30 UTC.*

2748 7.26.3 ASSUMPTIONS

2749 Data Provider must have the same priority for both directions.

2750 **7.26.4 INTEGRATION**

- 2751 - Bidding Zones or countries shall be recognised by the platform
- 2752 - The Data Provider shall be consistent with the identified couple of Bidding Zones or countries
- 2753 - Data will be rejected if data provider configured as sending netted values sends non-netted
2754 values
- 2755 - Data will be rejected if data provider configured as sending non-netted values actually sends
2756 netted values (i.e. submits values in one direction only).

2757 **7.26.5 MONITORING**

- 2758 For a given couple of Bidding Zones or countries where Physical Flows are expected, the
2759 submission deadline described above shall be monitored for every MTU Period. If no data
2760 has been received, all declared Data Providers will be notified.

2761 **7.26.6 PROCESSING**

- 2762 If Data Provider is configured as submitting non-netted values for a given couple of Bidding
2763 Zones (or countries) and MTU period, platform shall calculate net value.
- 2764 If Data Provider is configured as submitting netted values, the absence of a value in a given
2765 direction and MTU period shall be treated as a zero value.
- 2766 Values from all senders (when applicable) are to be stored in the database, with the indication
2767 of the associated priority.

2768 **7.26.7 PUBLICATION**

2769 **7.26.7.1 PUBLICATION BEHAVIOUR**

- 2770 The following precedence rule applies, when more than one party is responsible for the
2771 submission of data:
- 2772 - For a given direction between a couple of Bidding Zones (or countries) and a given MTU
2773 Period, the platform shall publish the net value available from the party with the highest priority
- 2774 - If, for a given MTU Period, data is missing from the provider with the highest priority, then the
2775 net value from the Data Provider with the inferior priority shall be displayed if available (and so
2776 on if more than two providers).

2777 **7.26.7.2 FILTERING AND SORTING CRITERIA**

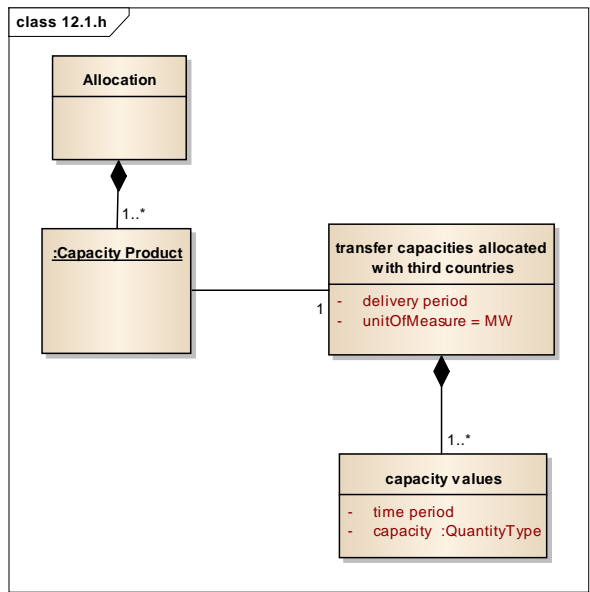
- 2778 Data shall be visually accessed by selecting the following:

- 2779 - Day (Selection is mandatory)
- 2780 - Country or Bidding Zone, alternatively couple of countries or Bidding Zones
- 2781
- 2782 **7.26.7.3 DISPLAY**
- 2783 This data shall be displayed in the following section:
- 2784 - **Cross-Border Physical Flows**
- 2785 The following attributes of data shall be displayed:
- 2786 - Title
- 2787 - Selected day
- 2788 - Measurement Unit
- 2789 - For each Bidding Zone or country couple, for each Market Time Unit within the selected day,
- 2790 the netted physical flow values in each direction
- 2791

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

7.27.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

Measure Unit is fixed to MW.

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

7.27.2 PRE-CONFIGURATION

- A list of third countries

2807 - If for a given auction instance the In Area or Out Area of a capacity product is a third country,
2808 the data "Transfer Capacities allocated with third countries" shall be expected by the platform.
2809 Refer to chapter 7.28.1.2 for details on the configuration of an auction's capacity products.

2810 - For each capacity product, the unique allowed Data Provider is the one indicated by the
2811 Transmission Auction configuration. Refer to chapter 7.28.1.3 for details.

2812 - For each auction instance, the submission deadline: One hour after end of the capacity
2813 allocation period.

2814 Submission deadline is the same for all the Auction's products.

2815 7.27.3 ASSUMPTIONS

2816 No specific assumptions apply to this data item.

2817 7.27.4 INTEGRATION

2818 - The Data Provider shall be consistent with the capacity product

2819 7.27.5 MONITORING

2820 The submission deadline shall be monitored for each explicit auction's capacity products that
2821 cover a third country.

2822 7.27.6 PROCESSING

2823 No processing is performed by the platform on this data item.

2824 7.27.7 PUBLICATION

2825 7.27.7.1 PUBLICATION BEHAVIOUR

2826 No particular behaviour applies to this data item.

2827 7.27.7.2 FILTERING AND SORTING CRITERIA

2828 Data shall be visually accessed by selecting the following:

2829 - Allocation type: Explicit or implicit

2830 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the
2831 Country will be used as filtering criteria)

2832 - Areas couple (Selection is Mandatory)

2833 - Direction (Selection is Optional)

2834 - Date or date range (Selection is mandatory)

2835 - capacity product (i.e. contract type), selection is optional

2836 7.27.7.3 DISPLAY

2837 This data shall be displayed in the following section:

2838 - **Transmission / Transfer capacities allocated with third countries**

2839 The following attributes of data shall be displayed:

2840 - Title

2841 - Allocation type

2842 - Areas name

2843 - Date or date range

2844 - Contract Type

2845 - Measurement Unit

2846 - Attributes of the applicable capacity product(s): contract type, classification category,
2847 classification sequence and allocated capacity value.

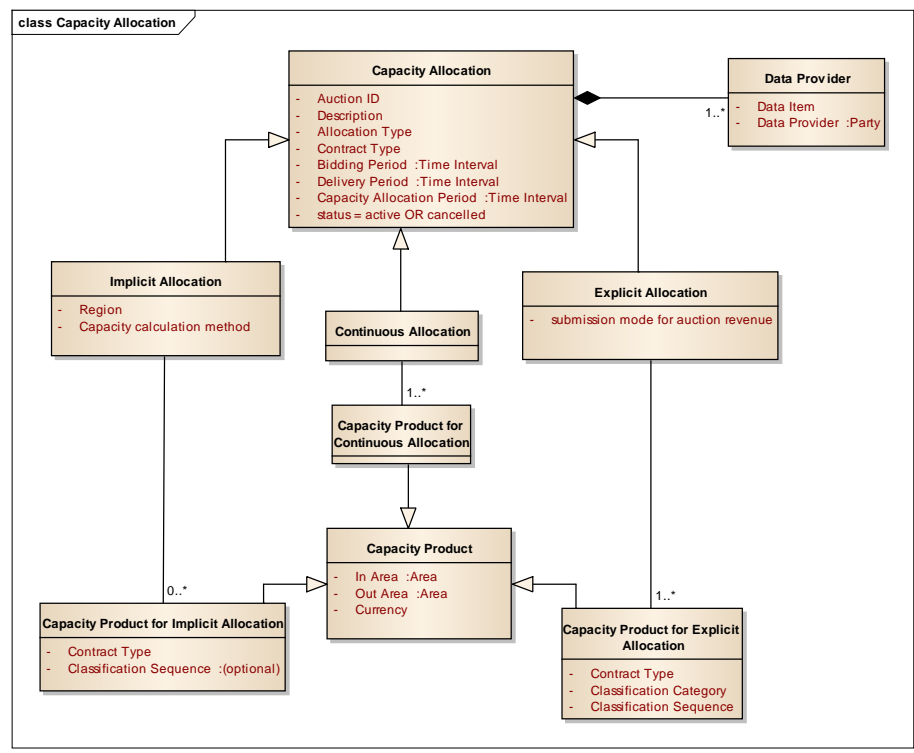
2848 If capacity values vary during the delivery period, it shall be possible to expand the view so
2849 that they are displayed as a curve and in a table.

7.28 CONFIGURATION OF TRANSMISSION CAPACITY ALLOCATION

7.28.1 DATA DESCRIPTION

7.28.1.1 CAPACITY ALLOCATIONS

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



Deleted: ¶

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

Deleted: or

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

Deleted: For implicit allocations, optionally the allocation type may be specified (Market Coupling or Market Splitting).

Deleted: by default

Deleted: is not specified but

2867 auction". Capacity calculation method is always ATC-based for explicit and continuous
2868 allocations.

Deleted: " or "continuous

2869 For implicit allocations, optionally a Region may be indicated. Region is mandatory when
2870 capacity calculation method is flow-based.

2871 For explicit allocations, optionally a Conducting Party may be declared. For explicit allocations,
2872 the submission mode for auction revenue shall be indicated: Aggregated or disaggregated,
2873 refer to chapter 7.19 for details.

2874 The Auction ID may never be modified once an Allocation has been created.

2875 Instances of capacity allocations have specific bidding, allocation and delivery periods.

2876 Allocations typically take place on a recurring basis, for example in December every year to
2877 sell capacity products for use during the following year (i.e. yearly products). The Contract
2878 Type determines the frequency, i.e. once a year, once a month, every day, etc.
2879 Exceptionally, there may also be non-recurring allocations, held at a single occasion only.
2880 For every allocation, it shall be possible to record the date(s) and time(s) when it is being
2881 held. It shall be possible to select the date(s) using a calendar.

2882 For recurring allocations, it shall be possible to record exceptions to the configuration that
2883 apply on a specific instance of the allocation (i.e. on a specific date). Examples of exceptions
2884 are extending the capacity allocation period, excluding or adding one or several capacity
2885 products from/to the capacity allocation or cancelling the whole capacity allocation instance.

2886 It shall be possible to cancel a capacity allocation instance. When a capacity allocation is
2887 cancelled, as a consequence platform will not expect any data submissions related to the
2888 capacity allocation or its products.

2889 7.28.1.2 CAPACITY PRODUCTS

2890 Each capacity allocation is associated with one or several capacity products. Each capacity
2891 product is described by the following mandatory attributes: In Area, Out Area, Currency and
2892 Contract Type. For implicit allocations, Contract Type must be Day-Ahead or Intraday. For
2893 continuous allocations only Intraday applies. For products associated with explicit allocations,
2894 additionally the attributes Classification Category and Classification Sequence are
2895 mandatory. For implicit allocations, optionally Classification Sequence may be defined.

2896 All capacity products associated with a given capacity allocation must have the same
2897 contract type as the capacity allocation, i.e. yearly products for a yearly auction only, etc.

2898 By default the capacity product will be applicable during the capacity allocation's Delivery
2899 Period. As a consequence, platform will expect data for the Capacity Product and
2900 corresponding Bidding Zones. When a capacity product exceptionally has been excluded

2902 from a capacity allocation instance²⁴, platform shall not expect any data submissions related
2903 to that product.

2904 For implicit allocations having flow-based capacity calculation method, capacity products do
2905 not apply.

2906 7.28.1.3 DATA PROVIDERS

2907 For a transmission capacity allocation, as specified by the combination of Auction ID,
2908 Contract Type and capacity products, the relevant Data Providers must be configured as
2909 well. For each applicable data item, the unique Data Provider is to be selected.

2910 For implicit allocations with ATC-based capacity calculation method as well as explicit
2911 capacity allocations:

2912 - Offered Transfer Capacity [11.1]

2913 - Transfer Capacities Allocated with Third Countries [12.1.h]

2914 For implicit allocations with flow-based capacity calculation method:

2915 - Flow-based capacity allocation [11.1]

2916 For implicit capacity allocations:

2917 - Congestion Income [12.1.e]

Deleted: - Net Positions [12.1.e]

2918 For explicit capacity allocations:

2919 - Use of the Transfer Capacity [12.1.a]

2920 - Auction revenue [12.1.a]

2921 - Total Capacity already Allocated [12.1.c]

2922 For continuous allocations:

2923 - Offered Transfer Capacity [11.1]

2924

2925 7.28.2 MONITORING

2926 No monitoring will be performed on the submission of capacity allocation configuration.

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.

2928 7.28.3 CREATION OF CAPACITY ALLOCATION

2929 Capacity allocations may be created through machine-to-machine data submission and via
2930 human-to-machine submission. For human-to-machine submission, there shall be a webpage,
2931 where creation or modification of capacity allocations will require authentication²⁵.

2932 Data Providers shall be permitted to create capacity allocations. Platform administrator in
2933 ENTSO-E shall be able to create and modify capacity allocations on behalf of Data Providers.

2934 When capacity allocation is created, the uniqueness of the ID shall be verified by checking that
2935 no other capacity allocation on platform with same ID already exists. Note that the assignation
2936 of ID assumes a manual procedure that is outside the scope of the central platform.

2937 When creating or modifying capacity allocations, the values of the following attributes shall be
2938 validated against list of permitted values held in platform's master data: Type, sub-type, In
2939 Area, Out Area, combination of In and Out Areas, Contract Type, Classification Category and
2940 Currency.

2941 When creating a capacity allocation via the webpage, it shall be possible to use an already
2942 defined capacity allocation as template when defining a new one.

2943 7.28.4 UPDATES TO CAPACITY ALLOCATIONS

2944 The Data Provider that created the capacity allocation may update the data at any time. ID will
2945 be used to match updated data to Auction.

2946 Platform shall validate that capacity allocation with quoted ID already exists. If not, update will
2947 be rejected.

2948 Platform will validate that Data Provider performing update is consistent with the Data Provider
2949 recorded for the capacity allocation. Platform administrator in ENTSO-E shall be able to update
2950 capacity allocation on behalf of Data Provider.

2951 Deletions are not foreseen under normal circumstances, but could be performed in exceptional
2952 situations by platform administrator in ENTSO-E.

2953 7.28.5 QUERIES OF REFERENCE DATA FOR CAPACITY ALLOCATIONS

2954 Data on capacity allocation shall be made available for visual inspection and download via web
2955 page.

²⁵ For implicit [and continuous allocations](#) there will normally not be any auction configuration submitted as a document. Rather, a manual configuration that applies to all days would be set up on the platform.

Deleted: auctions

2956 7.28.5.1 FILTERING AND SORTING CRITERIA

2957 It shall be possible to search for a capacity allocation by using ID as search criterion.

2958 Also, it shall be possible to retrieve several capacity allocations at the same time, by specifying
2959 the following filtering and sorting criteria:

2960 - Country: Selection is optional. If selected, In and/or Out Areas that at least partially cover the
2961 Country will be used as filtering criteria

2962 - Area: Selection is mandatory, one or several may be chosen

2963 - Date: Selection is mandatory, one day or range may be chosen. By default the current date
2964 shall be used. This date or date range will be used to filter auctions by delivery period.

2965 - Allocation type: Explicit, implicit or continuous, selection is optional

2966 - Contract type: Selection is optional

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Deleted: Auction

Deleted: or

2967 7.28.5.2 DISPLAY

2968 This data shall be displayed in the following section:

2969 - **Transmission / Auctions**

2970 The following attributes of data shall be displayed:

2971 - Description

2972 - ID

2973 - Allocation Type: Explicit, implicit or continuous

2974 - Allocation sub-type (when applicable)

2975 - Conducting Party (when applicable)

2976 - Region (when applicable)

2977 - Effective Date

2978 - Bidding, Capacity Allocation and Delivery Period

2979 - Data Provider that created capacity allocation: Shall only be displayed towards authenticated
2980 users.

2981 - Capacity Products and their attributes

2982 - Clear indication when capacity allocation has been cancelled or capacity product excluded

Deleted: or

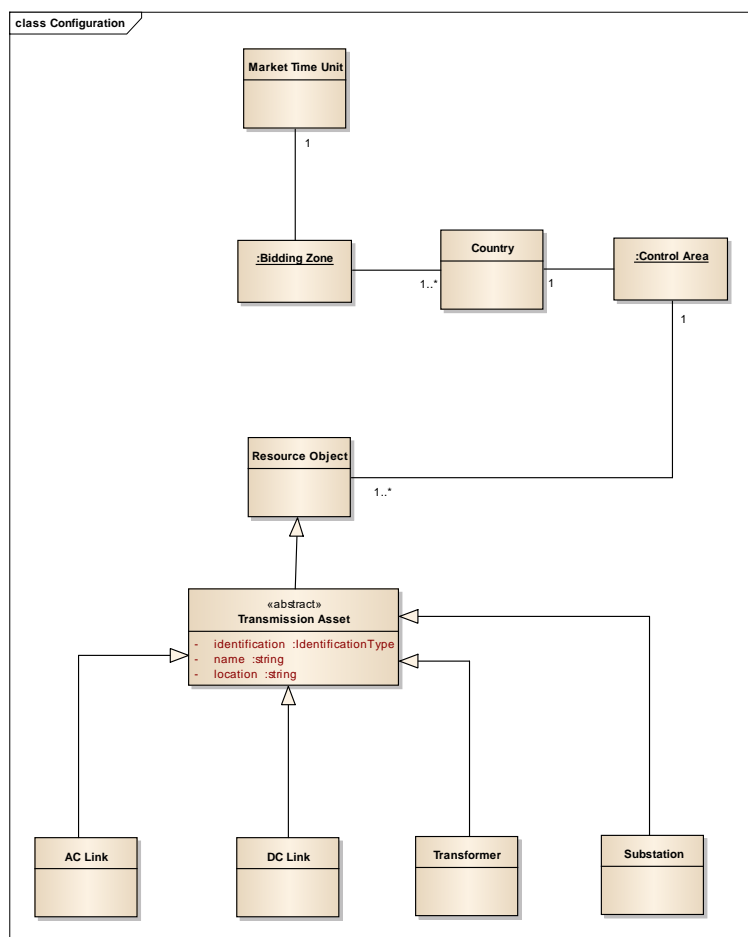
- 2987 - For each applicable data item, the unique Data Provider: Shall only be displayed towards
2988 authenticated users
- 2989 Data shall be displayed in a Table.
- 2990

8 CONGESTION MANAGEMENT

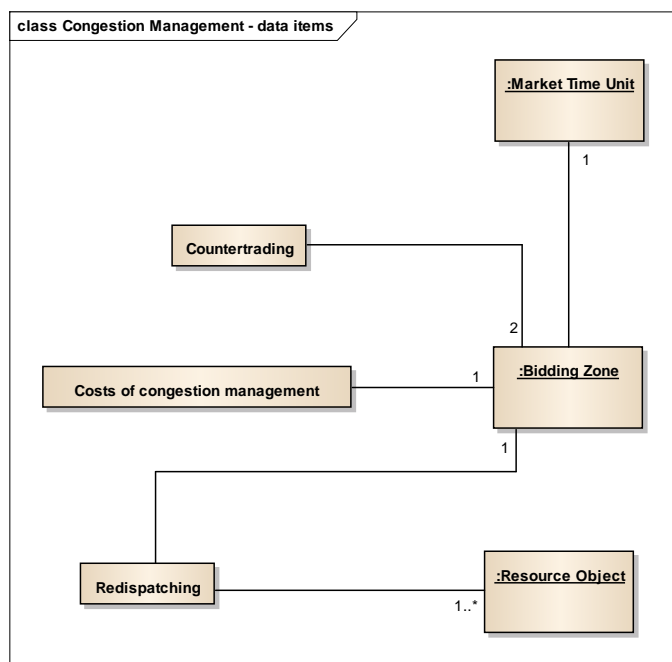
8.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

8.1.1 FUNDAMENTAL ENTITIES

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



2997 For Congestion Management, the following relations between the fundamental entities and the
2998 required information have been identified:



2999

3000 8.1.2 PRE-CONFIGURATION

- 3001 - The platform administrator at ENTSO-E shall pre-configure the platform with the following
3002 reference data:
- 3003 - [C-CGT-1] a list of Bidding Zones. This is the same configuration as for Generation, Load
3004 and Transmission
- 3005 - [C-CGT-2] for each Bidding Zone, the Market Time Unit. This is the same configuration as
3006 for Generation, Load and Transmission
- 3007 - [C-CGT-3] a list of redispatching actions: Production increase or decrease, load increase or
3008 decrease
- 3009 - [C-CGT-4] a list of countertrading actions: Cross-zonal exchange increase or decrease
- 3010 - [C-CGT-5] for each Control Area, the single authorized Data Provider, identified by a unique
3011 Code. This is the same configuration as for Generation and Load

3012 - [C-CGT-6] for each Bidding Zone, the Currency. This is the same configuration as for
3013 Transmission

3014 - [C-CGT-7] a list of Control Areas. This is the same configuration as for Generation and
3015 Load

3016 - [C-CGT-8] a list of countries and for each country, the corresponding Control Area(s). This is
3017 the same configuration as for Generation and Load

3018 - [C-CGT-9] a list of reasons for congestion management: "Load flow overload" and "Voltage
3019 level adjustment"

3020 8.1.3 DATA CONTAINER STATUS / DATA STATUS

3021 All data items follow the "None / Ready for publication" scheme.

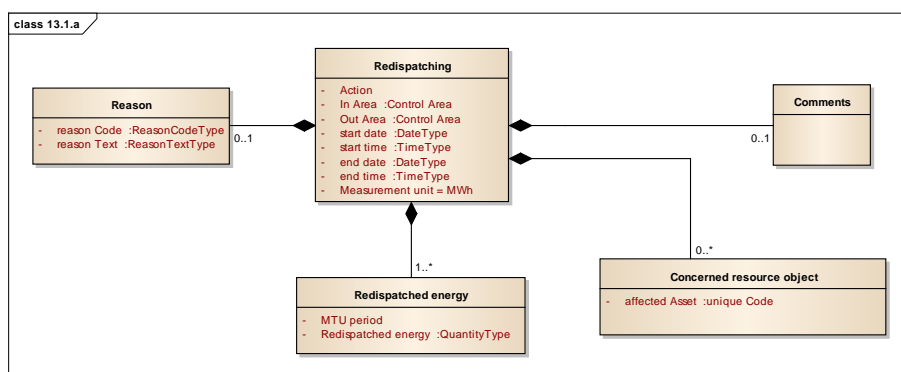
3022

3023

8.2 REDISPATCHING [13.1.A]

8.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

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

8.2.2 PRE-CONFIGURATION

No specific pre-configuration applies to this data item.

8.2.3 ASSUMPTIONS

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

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

Data should be submitted at the latest one hour after the end of the MTU period (H+1).

However no monitoring can be performed, due to the nature of the data.

3053
3054 Data Provider may choose to include in one single data submission values for a time interval
3055 longer than one MTU. The time interval would in this case necessarily be a multiple of the
3056 MTU.
3057
3058 For a given area, there may be several instances of redispatching occurring at the same
3059 time. No aggregation is performed on platform and every submitted and successfully
3060 validated instance will be published.

3061 8.2.4 INTEGRATION

3062
3063 - Areas are recognised by platform
3064
3065 - Data Provider is consistent with area(s)
3066
3067 - Data Provider is consistent with concerned resource objects. This validation shall trigger a
3068 warning only.
3069 - Concerned resource objects, if provided, are recognised by the platform.
3070
3071 - Concerned resource objects are located within the Area(s). This validation shall trigger a
3072 warning only.
3073 - Action is among the values prescribed by pre-configuration [C-CGT-3]
3074
3075 - Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
3076
3077 - Document should not be submitted before the start date and time declared within the
3078 document. Reason being that this is ex-post information. This validation shall trigger a
3079 warning only.
3080
3081 The time interval in the submitted document is of one MTU at least and is a multiple of the
3082 MTU identified for the area as per [C-CGT-2].

3083 8.2.5 MONITORING

3084 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
3085 is performed. Submission deadlines are not relevant to this data item.

3086 8.2.6 PROCESSING

3087 No processing is performed on this data item.

3088 8.2.7 PUBLICATION

3089 8.2.7.1 FILTERING AND SORTING CRITERIA

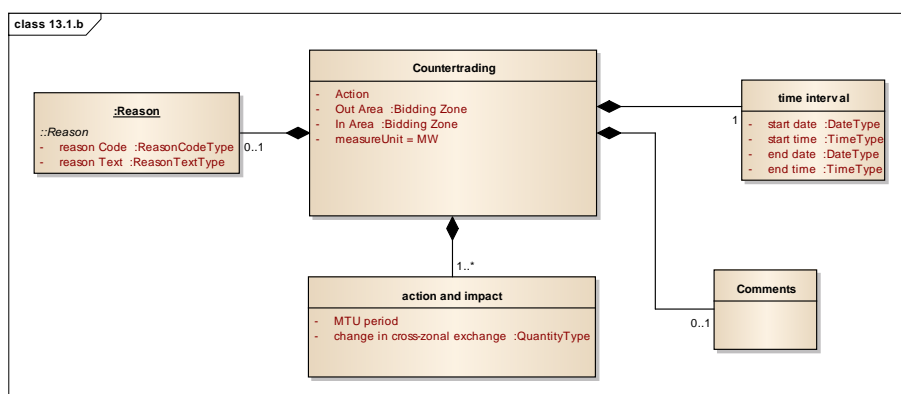
3090 Data shall be visually accessed by selecting the following:

- 3091 - Country (selection is optional: If selected, Areas will be filtered to include only those that
3092 partially or completely cover the Country)
- 3093 - Area(s) (selection is mandatory, at least one must be selected)
- 3094 - Day or date range (selection is mandatory)
- 3095 **8.2.7.2 DISPLAY**
- 3096 This data shall be displayed in the following section:
- 3097 - **Congestion Management / Redispatching**
- 3098 The following attributes of data shall be displayed:
- 3099 - Area(s)
- 3100 - Market Time Unit
- 3101 - Start and end dates and times
- 3102 - Measurement Unit
- 3103 - The action
- 3104 - For each MTU period during the matching redispatching time intervals, the redispatched
3105 energy.
- 3106
- 3107 - Reason, if provided
- 3108
- 3109 - Comments, if provided
- 3110
- 3111 - A list of concerned resource objects, if available, with links to pages on central platform
3112 providing more details on the resource objects.
- 3113
- 3114 Data shall be published as a table and as a chart.
- 3115

8.3 COUNTERTRADING [13.1.B]

8.3.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

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

8.3.2 PRE-CONFIGURATION

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

8.3.3 ASSUMPTIONS

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

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

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

3141 8.3.4 INTEGRATION

- 3142 - Bidding Zones and Control Area are recognised by platform
- 3143
- 3144 - Data Provider is consistent with Control Area
- 3145
- 3146 - Action is among the values prescribed by pre-configuration [C-CGT-4]
- 3147
- 3148 Reason, if provided, is among the values prescribed by pre-configuration [C-CGT-9]
- 3149
- 3150 - Document should not be submitted before the end of the MTU. Reason being that this is ex-
- 3151 post information. This validation shall trigger a warning only.
- 3152
- 3153 The time interval in the submitted document is of one MTU at least and is a multiple of the
- 3154 MTU identified for the Bidding Zone as per [C-CGT-2].

3155 8.3.5 MONITORING

- 3156 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
- 3157 is performed. Submission deadlines are not relevant to this data item.

3158 8.3.6 PROCESSING

- 3159 No processing is performed on this data item.

3160 8.3.7 PUBLICATION

3161 8.3.7.1 FILTERING AND SORTING CRITERIA

- 3162 Data shall be visually accessed by selecting the following:
- 3163 - Country (selection is optional: If selected, couple of Bidding Zones will be filtered to include
- 3164 only those that partially or completely cover the Country)
- 3165 - Bidding Zone couple (selection is mandatory)
- 3166 - Day or date range (selection is mandatory)

3167 8.3.7.2 DISPLAY

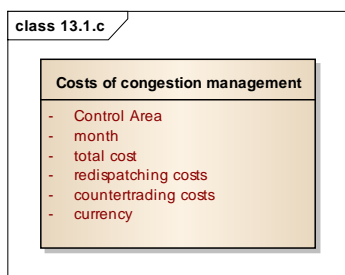
- 3168 This data shall be displayed in the following section:
- 3169 - **Congestion Management / Countertrading**
- 3170 The following attributes of data shall be displayed:
- 3171 - In and Out Areas

- 3172 - Market Time Unit
- 3173 - Start and end dates and times
- 3174 - Measurement Unit
- 3175 - Reason, if available
- 3176 - Comments, if available
- 3177 - For each MTU period during the matching countertrading time intervals, the Action and
- 3178 change in cross-zonal exchange
- 3179
- 3180 Data shall be published as a table and as a chart.
- 3181

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]

3208 **8.4.5 MONITORING**

3209 Due to the nature of the data, frequency of submission is not fixed and hence no monitoring
3210 is performed. Submission deadlines are not relevant to this data item.

3211 **8.4.6 PROCESSING**

3212 Platform will per Control Area and month calculate costs for other remedial action, by
3213 subtracting from total cost the costs of redispatching and countertrading.

3214 **8.4.7 PUBLICATION**

3215 **8.4.7.1 FILTERING AND SORTING CRITERIA**

3216 Data shall be visually accessed by selecting the following:

3217 - Country (selection is optional: If selected, Control Area will be filtered to include only those
3218 that partially or completely cover the Country)

3219 - Control Area (selection is mandatory)

3220 - Month range (selection is mandatory)

3221 **8.4.7.2 DISPLAY**

3222 This data shall be displayed in the following section:

3223 **- Congestion Management / Costs**

3224 The following attributes of data shall be displayed:

3225 - Control Area

3226 - Currency

3227 - Selected month range

3228 - For each month, the total cost, costs of redispatching, costs of countertrading and costs for
3229 other remedial actions

3230 Data shall be published as a table and chart.

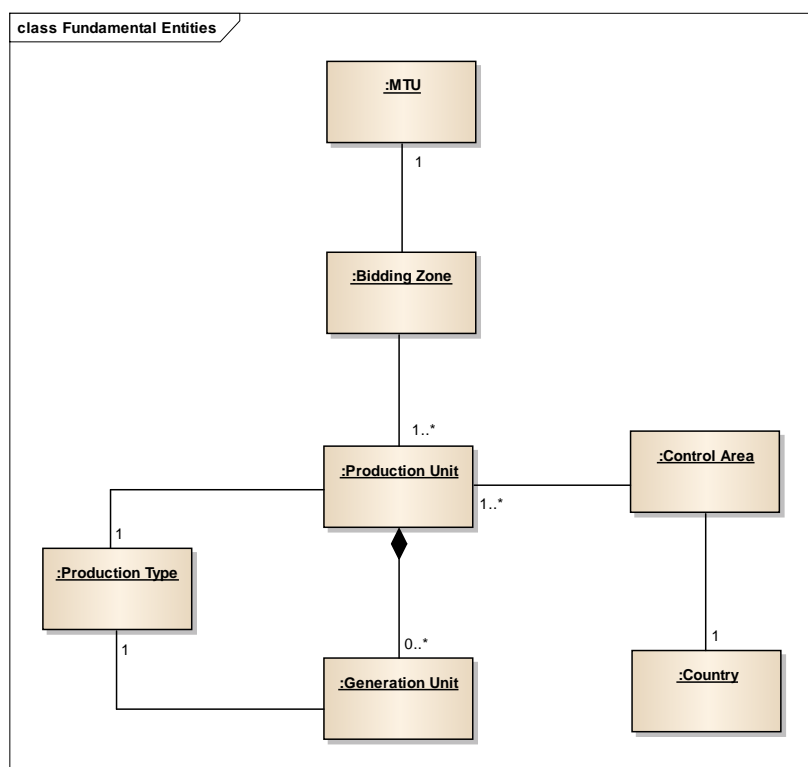
3231

9 GENERATION

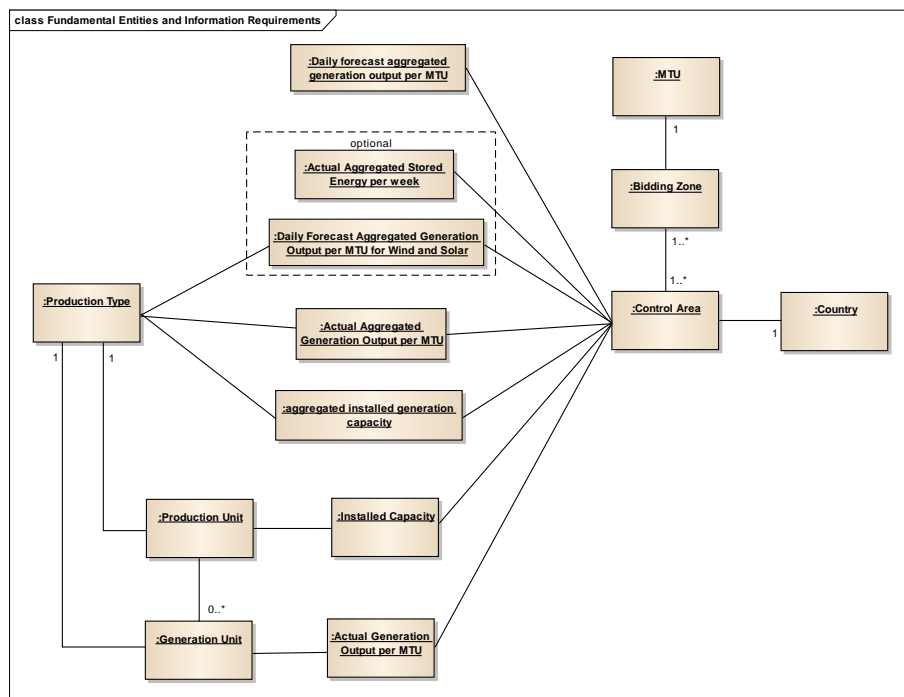
9.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

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



3242

3243 Optional means here that submission of data is necessary only when power from
3244 corresponding Production Types exceed certain thresholds, as stipulated in [1].

3245 It must be possible to determine to which bidding zone and control area that generation data
3246 contained in submitted documents refer to²⁶.

3247 9.1.2 PRE-CONFIGURATION

3248 The platform administrator at ENTSO-E shall pre-configure application with the following
3249 reference data:

- 3250 - [C-GNR-1] a list of Bidding Zones
- 3251 - [C-GNR-2] a list of Production Types
- 3252 - [C-GNR-3] for each Bidding Zone the Market Time Unit, expressed as duration

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

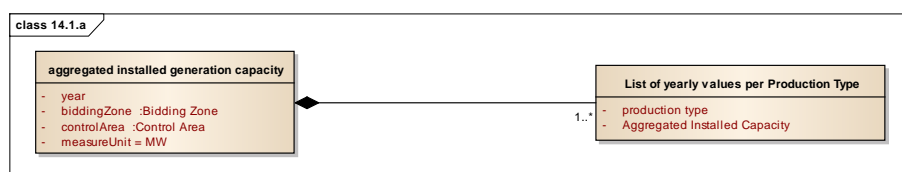
- 3253 - [C-GNR-4] for each Bidding Zone, Control Area and data item subject to publication, the
3254 allowed Data Providers, identified by unique Codes²⁷
- 3255 - [C-GNR-7] a percentage tolerance that indicates how much scheduled or actual capacity
3256 may exceed installed capacity. This is a single value common to all Generation Units and will
3257 be set to 25%. If tolerance is exceeded, only a warning will be triggered.
- 3258 The following reference data will be managed by Data Providers:
- 3259 - [C-GNR-5] a list of Production and Generation Units, refer to chapter 9.9 for further details.
3260 This will be used for validation during the integration step.
- 3261 - [C-GNR-8] a list of Control Areas
- 3262 - [C-GNR-9] a list of countries and for each country, the corresponding Control Area(s)
- 3263 **9.1.3 PUBLICATION**
- 3264 For data items that do not require aggregation, data is published as soon as received, except
3265 for data item [16.1.a] where publication will be pending a specified delay.
- 3266 For data items that require aggregation, aggregated values only shall be published. Data is
3267 being published as soon as it is complete, i.e. when all relevant Data Providers have submitted
3268 their contributions. However, if by the submission deadline data is still pending from one or
3269 several Data Providers, the aggregated value shall be published with a clear indication that the
3270 final value is pending further data submissions.

²⁷ 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.

3294 **9.2.5 MONITORING**

3295 For a given Bidding Zone and year data is expected. This is controlled by pre-configuration
3296 [PC14.1.A-1]. For every Bidding Zone and year at least one Capacity Value is expected for at
3297 least one Production Type. The submission deadline [PC14.1.A-2] will be monitored for
3298 compliance.

3299 For a given Bidding Zone, data is not considered complete before all Data Providers declared
3300 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only
3301 some Data Providers have submitted data, the data will be considered “missing”.

3302 **9.2.6 PROCESSING**

3303 Submitted Capacity values shall be aggregated per Country, Bidding Zone, Production Type
3304 and year. Aggregation here means simply adding up the submitted Capacity values.

3305 Submitted Capacity values shall also be aggregated per Country, Bidding Zone and year for
3306 the purpose of calculating a grand total value for the whole Country or Bidding Zone, common
3307 to all Production Types.

3308 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3309 **9.2.7 DATA CONTAINER STATUS / DATA STATUS**

3310 This data item follows the “None / Ready for publication / Missing” scheme.

3311 **9.2.8 PUBLICATION**

3312 **9.2.8.1 FILTERING AND SORTING CRITERIA**

3313 Data shall be visually accessed by selecting the following:

- 3314 - Country or Bidding Zone: selection is mandatory
- 3315 - Production Type: selection is optional, one or several may be chosen
- 3316 - Year: selection is mandatory, single year or a range may be chosen

3317 **9.2.8.2 DISPLAY**

3318 This data shall be displayed in the following section:

- 3319 - **Generation / Aggregated Installed Capacity**

3320 The following attributes of data shall be displayed:

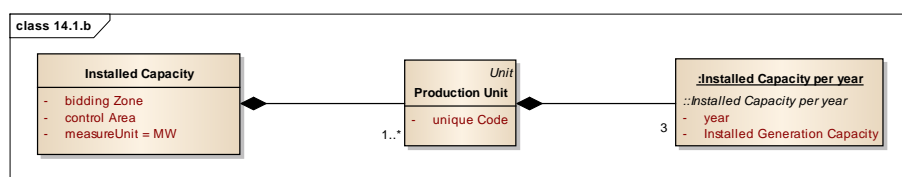
- 3321 - Country or Bidding Zone name

- 3322 - Capacity per Production Type for each year
- 3323 Grand total Capacity for each year shall also be displayed.
- 3324 User shall have the choice between displaying data in a Table, Map or Pie Chart.
- 3325

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 Code²⁸.

9.3.2 PRE-CONFIGURATION

Since installed capacities will be recorded with Master Data (see following section), no specific pre-configuration for this data item is foreseen.

9.3.3 ASSUMPTIONS

Installed capacity has been recorded in Master Data, as described in section 9.9. There is no additional data submission foreseen.

9.3.4 INTEGRATION

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

9.3.5 MONITORING

Since installed capacities are recorded in Master Data, technically monitoring is not feasible for this data item.

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

3346 9.3.6 PROCESSING

3347 No processing performed on this data item.

3348 9.3.7 DATA CONTAINER STATUS / DATA STATUS

3349 Not applicable since installed capacities are recorded in Master Data.

3350 9.3.8 PUBLICATION

3351 9.3.8.1 FILTERING AND SORTING CRITERIA

3352 Data shall be visually accessed by selecting the following:

- 3353 - Country or Bidding Zone: selection is mandatory
- 3354 - Production Type: selection is optional, one or several may be chosen
- 3355 - Year: selection is mandatory, single year or a range to be chosen

3356 9.3.8.2 DISPLAY

3357 This data shall be displayed in the following section:

3358 - **Generation / List of Production Units and Installed Capacity**

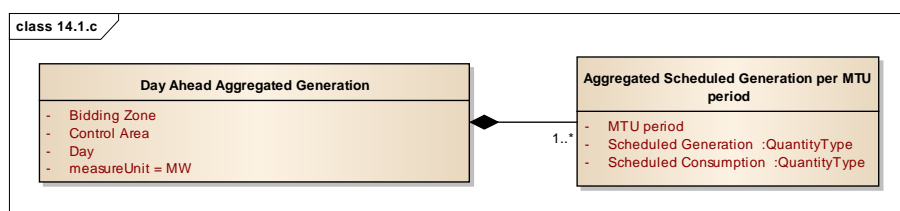
3359 The following attributes of data shall be displayed:

- 3360 - Country or Bidding Zone name
- 3361 - Production Type, unique Code and Name
- 3362 - For every Production Unit and selected year(s), the installed capacity value(s)
- 3363 - For every Production Unit, the commissioning date and, if available, decommissioning date
- 3364 Data shall be displayed in a Table.
- 3365 Links to pages on platform with more details on each Production Unit shall be 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.

3386 **9.4.6 PROCESSING**

3387 Submitted Scheduled Generation values shall be aggregated per Country, Bidding Zone and
3388 Market Time Unit period. Aggregation here means simply adding up the submitted Scheduled
3389 Generation values.

3390 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3391 **9.4.7 DATA CONTAINER STATUS / DATA STATUS**

3392 This data item follows the "None / Ready for publication / Missing" scheme.

3393 **9.4.8 PUBLICATION**

3394 **9.4.8.1 FILTERING AND SORTING CRITERIA**

3395 Data shall be visually accessed by selecting the following:

- 3396 - Country or Bidding Zone: selection is mandatory
- 3397 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3398 - Start and end time: selection is mandatory, start and end time within the selected day

3399 **9.4.8.2 DISPLAY**

3400 This data shall be displayed in the following section:

3401 **- Generation / Day Ahead Aggregated Generation**

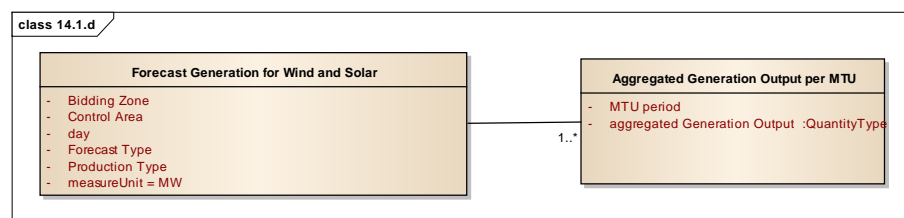
3402 The following attributes of data shall be displayed:

- 3403 - Country or Bidding Zone name
- 3404 - Measure Unit
- 3405 - Selected Day(s)
- 3406 - For every MTU period within the selected day(s), the scheduled generation values, and
- 3407 consumption values (if available). User shall have the choice between displaying data in a
- 3408 Table or in a Chart.

9.5 DAY-AHEAD GENERATION FORECASTS FOR WIND AND SOLAR [14.1.D]

9.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For a given Bidding Zone and Control Area there shall be a Forecast Aggregated Generation for wind onshore, wind offshore and solar power, respectively. Three separate forecasts may be submitted and published: Day-ahead at 1800 on day D-1, intraday at 0800 on day D and current forecast. Values are provided with a value per Market Time Unit (MTU) period. There is a fixed measure Unit (MW).

Forecasts for wind onshore, wind offshore and solar may be provided in the same or in separate data submissions.

Note that duration of MTU depends on Bidding Zone.

9.5.2 PRE-CONFIGURATION

[PC-14.1.d-1] For a given Bidding Zone, Data Providers shall be able to indicate whether data is expected or not for wind onshore, wind offshore and solar, respectively. By default it is not expected.

[PC-14.1.d-2] There is a daily submission deadline for the day-ahead forecast, common to all bidding zones. Submission must be performed not later than D-1 at 18:00 CET. This submission deadline will apply only if data is expected, as per [PC-14.1.d-1].

[PC-14.1.d-3] There is a daily submission deadline for the intraday forecast, common to all bidding zones. Submission must be performed no later than D at 08:00 CET. This submission deadline will apply only if data is expected, as per [PC-14.1.d-1].

There is no submission deadline for the current forecast since submissions cannot be predicted.

3434 **9.5.3 ASSUMPTIONS**

3435 No specific assumptions apply to this data item.

3436 **9.5.4 INTEGRATION**

3437 - Bidding Zone and Control Area shall be recognised by the platform

3438 - The Data Provider shall be consistent with the identified Control Area

3439 **9.5.5 MONITORING**

3440 If for a given Bidding Zone and Production Type the data item has been configured as expected
3441 per [PC-14.1.d-1], compliance with submission deadlines [PC-14.1.d-2] and [PC-14.1.d-3] will
3442 be monitored.

3443 Monitoring of the submissions of current forecast at 1800 on day D-1 and at 0800 on day D
3444 are covered by the monitoring of the day-ahead and intraday forecasts. Any other submissions
3445 of current forecast cannot be predicted. Hence, no monitoring of current forecast will be
3446 undertaken.

3447 For a given Bidding Zone, data is not considered complete before all Data Providers have
3448 submitted their data contributions. If by the deadline only some Data Providers have submitted
3449 data, the data will be considered “missing”.

3450 **9.5.6 PROCESSING**

3451 Submitted Scheduled Values shall be aggregated per Country, Bidding Zone, Forecast type,
3452 Production Type (wind onshore, wind offshore and solar, respectively) and Market Time Unit
3453 period. Aggregation here means simply adding up the submitted Scheduled Values.

3454 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3455 **9.5.7 DATA CONTAINER STATUS / DATA STATUS**

3456 This data item follows the “None / Ready for publication / Missing” scheme.

3457 **9.5.8 PUBLICATION**

3458 **9.5.8.1 FILTERING AND SORTING CRITERIA**

3459 Data shall be visually accessed by selecting the following:

3460 - Country or Bidding Zone: selection is mandatory

3461 - Production Type: wind onshore, wind offshore or solar, selection is mandatory, one or several
3462 may be chosen. By default all are chosen

3463 - Day: selection is mandatory, one or two consecutive days may be chosen

3464 - Start and end time: must be within the selected day(s) and selection is mandatory

3465 9.5.8.2 DISPLAY

3466 This data shall be displayed in the following section:

3467 - **Generation / Day Ahead Generation Forecasts for Wind and Solar**

3468 The following attributes of data shall be displayed:

3469 - Country or Bidding Zone name

3470 - Measure Unit

3471 - Selected day(s)

3472 - Forecast type

3473 - For the selected Production Type(s), generation forecast values for each MTU period within
3474 the selected start and end dates and times

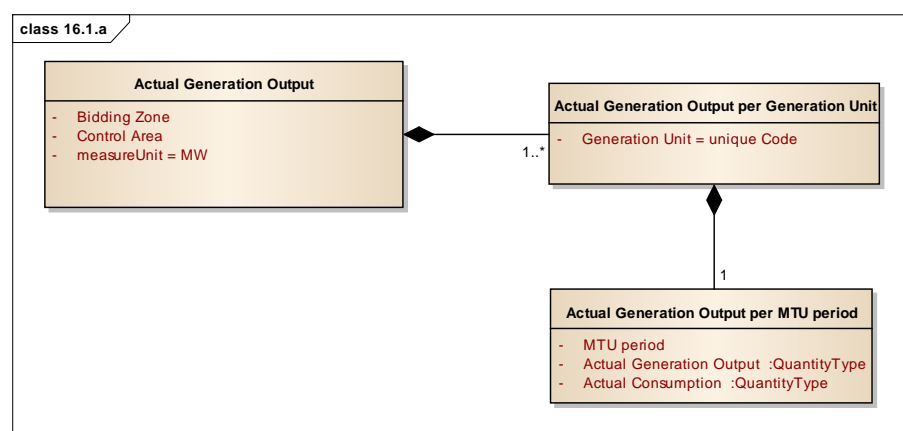
3475 User shall have the choice between displaying data in a Table or in a Chart.

3476

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 monitoring

3496 described in the next sections. If installed capacity has not been recorded in the platform, the
3497 validation will trigger a warning and monitoring will not produce any notification about missing
3498 data.

3499 Data Provider may choose to include in one single data submission values for a time interval
3500 longer than one MTU. The time interval would in this case necessarily be a multiple of the
3501 MTU.

3502 9.6.4 INTEGRATION

3503 - Bidding Zone and Control Area shall be recognised by the platform

3504 - The Data Provider shall be consistent with the identified Control Area and Generation Unit

3505 - Document should not be submitted before the end of the MTU period. Reason being that this
3506 is ex-post information. This validation shall trigger a warning only. The warning may be
3507 suppressed completely by changing configuration.

3508 - The Codes that identify Generation Units must already exist in the platform. This is
3509 controlled by pre-configuration [C-GNR-5].

3510 - Generation Unit must be within the Control Area. This shall be validated against the
3511 Generation Unit reference data described in chapter 9.9.

3512 - For each Generation Unit, it shall be validated that the actual generation output does not
3513 exceed the Installed Capacity, recorded for the same year, by more than the percentage
3514 tolerance expressed in [C-GNR-7]. Tolerance currently set to 25%. This validation will trigger
3515 a warning only.

3516 The time interval in the submitted document is of one MTU at least and is a multiple of the
3517 MTU identified for the Bidding Zone as per [C-GNR-3].

3518 9.6.5 MONITORING

3519 For a given Bidding Zone and MTU period, actual generation output is expected. This is
3520 controlled by pre-configuration [PC-16.1.a-1]. This data is expected for all Generation Units
3521 with an installed generation capacity ≥ 100 MW and that are in status Commissioned during
3522 the MTU period. The submission deadline [PC-16.1.a-2] will be monitored for compliance.

3523 9.6.6 PROCESSING

3524 No further processing is performed on this data item.

3525 9.6.7 DATA CONTAINER STATUS / DATA STATUS

3526 The ex-post data item applies the "none / waiting for publication x 2 / ready for publication /
3527 missing" scheme.

3528 9.6.8 PUBLICATION

3529 9.6.8.1 FILTERING AND SORTING CRITERIA

3530 Data shall be visually accessed by selecting the following:

- 3531 - Country or Bidding Zone: selection is mandatory
- 3532 - Production Type: selection is optional, one or several may be chosen.
- 3533 - Production or Generation unit, selection is optional
- 3534 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3535 - Start and end time: selection is mandatory and must be within the selected day(s)

3536 9.6.8.2 DISPLAY

3537 This data shall be displayed in the following section:

3538 - **Generation / Actual Generation per Generation Unit**

3539 The following attributes of data shall be displayed:

- 3540 - Country or Bidding Zone name
- 3541 - Production Type, Code and Name of every Generation Unit
- 3542 - selected day(s)
- 3543 - For every Generation Unit, the actual generation output and actual consumption, if available,
- 3544 per MTU period within the selected start and end dates and times

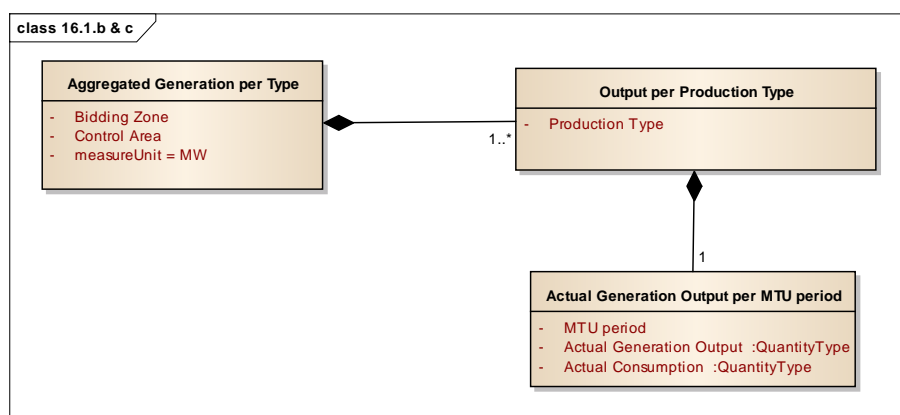
3545 Data shall be displayed in a Table.

3546 Links shall be provided to pages on central platform that provide additional details on each
3547 Generation Unit.

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

9.7.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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

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

Note that duration of MTU depends on Bidding Zone.

9.7.2 PRE-CONFIGURATION

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

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

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

9.7.3 ASSUMPTIONS

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

3565 Data Provider may choose to include in one single data submission values for a time interval
3566 longer than one MTU. The time interval would in this case necessarily be a multiple of the
3567 MTU.

3568 9.7.4 INTEGRATION

3569 - Bidding Zone and Control Area shall be recognised by the platform

3570 - Production Type shall be recognised by the platform

3571 - The Data Provider shall be consistent with the identified Control Area

3572 - Document may not be submitted before the end of the MTU period. Reason being that this is
3573 ex-post information. This validation shall trigger a warning only. The warning may be
3574 suppressed completely by changing configuration.

3575 The time interval in the submitted document is of one MTU at least and is a multiple of the
3576 MTU identified for the Bidding Zone as per [C-GNR-3].

3577 9.7.5 MONITORING

3578 For this data item, data is expected. This is controlled by pre-configuration [PC-16.1.bc-1]. For
3579 a given Bidding Zone and MTU period an actual aggregated generation output value is
3580 expected for at least one Production Type. The submission deadline [PC-16.1.bc-2] will be
3581 monitored for compliance.

3582 For a given Bidding Zone, data is not considered complete before all Data Providers declared
3583 per pre-configuration [C-GNR-4] have submitted their data contributions. If by the deadline only
3584 some Data Providers have submitted data, the data will be considered "missing".

3585 9.7.6 PROCESSING

3586 Submitted actual generation values shall be aggregated per Country, Bidding Zone, Production
3587 Type and MTU period. Aggregation here means simply adding up the submitted actual
3588 generation values.

3589 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3590 9.7.7 DATA CONTAINER STATUS / DATA STATUS

3591 The ex-post data item applies the "none / waiting for publication / ready for publication /
3592 missing" scheme.

3593 9.7.8 PUBLICATION

3594 9.7.8.1 FILTERING AND SORTING CRITERIA

3595 Data shall be visually accessed by selecting the following:

- 3596 - Country or Bidding Zone: selection is mandatory
- 3597 - Production Type: selection is optional, one or several may be chosen
- 3598 - Production and Consumption or Production only: selection is optional, by default Production
- 3599 and Consumption are both displayed
- 3600 - Day: selection is mandatory, one or two consecutive days may be chosen
- 3601 - Start and end time: selection is mandatory and must be within the selected day(s)

3602 9.7.8.2 DISPLAY

3603 This data shall be displayed in the following section:

3604 - **Generation / Actual Aggregated Generation Output per Production Type**

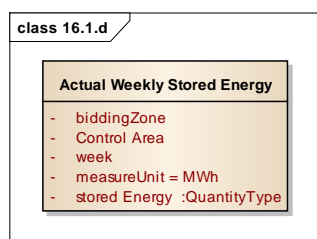
3605 The following attributes of data shall be displayed:

- 3606 - Country or Bidding Zone name
- 3607 - Selected day(s)
- 3608 - For the selected Production Type(s), for each MTU period within the selected start and end
- 3609 dates and times, the actual aggregated generation output and consumption, if available
- 3610 Data shall be displayed in a Table and in a Chart.

3611 9.8 AGGREGATED FILLING RATE OF WATER 3612 RESERVOIRS AND HYDRO STORAGE PLANTS [16.1.D]

3613 9.8.1 DATA DESCRIPTION

3614 This item can be described by the following class diagram:



3615
3616 For a given Bidding Zone and Control Area there shall be a weekly Stored Energy Value. The
3617 Measure Unit is fixed to "MWh".

3618 **Note:** Regulation prescribes that value for same week during previous year shall also be made
3619 available. Values corresponding to the year prior to go-live of central platform could be loaded
3620 into platform separately, on a voluntary basis as part of initial data population.

3621 9.8.2 PRE-CONFIGURATION

3622 [PC-16.1.d-1] For a given Bidding Zone, Data Providers shall be able to indicate whether
3623 data is expected or not. By default it is not expected.

3624 [PC-16.1.d-2] For a given bidding zone, there is a weekly submission deadline. Submission
3625 must be performed not later than at the end of Wednesday of W+1. This submission deadline
3626 will apply only if data is expected, as per [PC-16.1.d-1].

3627 9.8.3 ASSUMPTIONS

3628 No specific assumptions apply for this data item.

3629 9.8.4 INTEGRATION

3630 - Bidding Zone and Control Area shall be recognised by the platform

3631 - The Data Provider shall be consistent with the identified Bidding Zone

3632 - Submission shall not be performed before the end of the week W. This validation shall trigger
3633 a warning only. The warning may be suppressed completely by changing configuration.

3634 9.8.5 MONITORING

3635 If for a given Bidding Zone the data item has been configured as expected as per [PC-16.1.d-
3636 1], compliance with submission deadline [PC-16.1.d-2] will be monitored. For a given Bidding
3637 Zone, data is not considered complete before all Data Providers have submitted their data
3638 contributions. If by the deadline only some Data Providers have submitted data, the data will
3639 be considered "missing".

3640 9.8.6 PROCESSING

3641 Submitted Stored Energy Values shall be aggregated per Country and Bidding Zone.
3642 Aggregation here means simply adding up the submitted Stored Energy Values.

3643 Aggregated values per country are determined with the help of pre-configuration [C-GNR-9].

3644 9.8.7 DATA CONTAINER STATUS / DATA STATUS

3645 This is an ex-post data item that applies the "none / waiting for publication x 2 / ready for
3646 publication / missing" scheme.

3647 9.8.8 PUBLICATION

3648 9.8.8.1 FILTERING AND SORTING CRITERIA

3649 Data shall be visually accessed by selecting the following:

- 3650 - Country or Bidding Zone: selection is mandatory
- 3651 - Week: selection is mandatory, a single week or a range (from – to) may be chosen

3652 9.8.8.2 DISPLAY

3653 This data shall be displayed in the following section:

3654 - **Generation / water reservoirs and hydro storage plants**

3655 The following attributes of data shall be displayed:

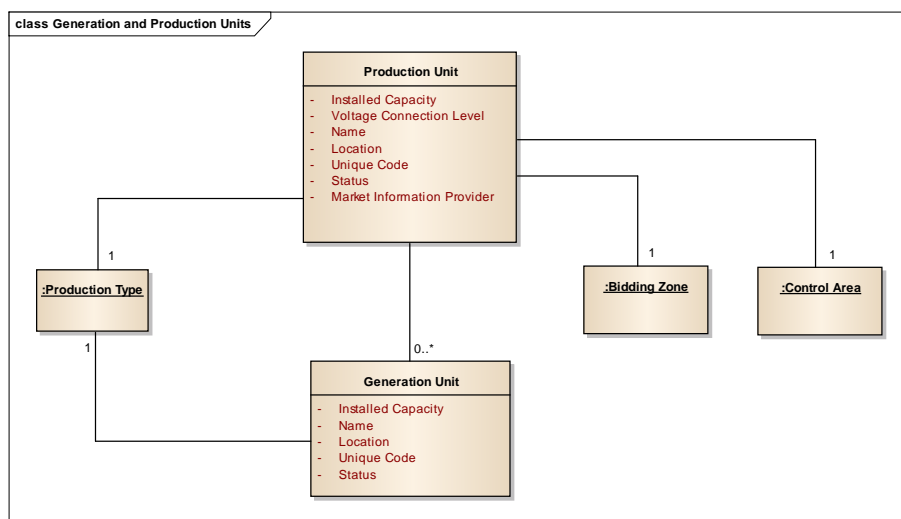
- 3656 - Country or Bidding Zone name
- 3657 - Measure Unit
- 3658 - selected week(s)

- 3659 - Stored Energy Values for the selected week(s) and the same week(s) during previous year
- 3660 User shall have the choice between displaying data in a Table or in a Chart.
- 3661

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 Cancelled²⁹. All attributes listed above in diagram are mandatory.

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

9.9.2 ASSUMPTIONS

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

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

3677 Alignment of Production Type or Status between Production Unit and its Generation Unit(s)
3678 will not be enforced by the platform.

3679 Data Provider is assumed to be the same for the Production Unit and its Generation Unit(s).

3680 Location is a free text field – guidelines regarding its content to be specified by [3].

3681 Platform will not aggregate installed capacity for generation units.

3682 Platform will not validate installed capacity of production unit against installed capacity of its
3683 generation units.

3684 9.9.3 CREATION OF GENERATION AND PRODUCTION UNITS

3685 Generation and Production Units may be created one by one or several in one go. There shall
3686 be a webpage to this end, where creation or modification of Generation and Production Units
3687 will require authentication. Additionally, a machine-to-machine interface shall be available,
3688 based on EDI mechanism.

3689 Platform administrator in ENTSO-E shall be able to create and modify Generation and
3690 Production Units on behalf of Data Providers.

3691 When Generation or Production Unit is created, the uniqueness of the Code shall be verified
3692 by checking that no other Generation or Production Unit on platform with same Code already
3693 exists.

3694 Note that the assignation of unique Code assumes a manual procedure that is outside the
3695 scope of the central platform.

3696 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

3697 Production Type shall be validated against the list of Production Types [C-GNR-2].

3698 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8]

3699 9.9.4 UPDATES TO GENERATION AND PRODUCTION UNITS

3700 The Data Provider associated with the Generation or Production Unit may update the data at
3701 any time. Code will be used to match updated data to Generation or Production Unit.

3702 Platform shall validate that Generation or Production Unit with quoted Code already exists. If
3703 not, update will be rejected.

3704 Platform will validate that Data Provider performing update is consistent with the Data Provider
3705 recorded for the Production Unit.

3706 Bidding Zone shall be validated against the list of recognised Bidding Zones [C-GNR-1].

- 3707 Production Type shall be validated against the list of Production Types [C-GNR-2].
- 3708 Control Area shall be validated against the list of recognised Control Areas [C-GNR-8].
- 3709 Deletions are not foreseen under normal circumstances, but could be performed in exceptional
3710 situations by platform administrator in ENTSO-E.
- 3711 **9.9.5 QUERIES OF REFERENCE DATA FOR GENERATION AND PRODUCTION**
3712 **UNITS**
- 3713 Data on Generation and Production Units shall be made available for visual inspection and
3714 download via web page.
- 3715 **9.9.5.1 FILTERING AND SORTING CRITERIA**
- 3716 It shall be possible to search for Generation or Production Unit by using Code as search
3717 criterion.
- 3718 Also, it shall be possible to retrieve several Generation and Production Units at the same time,
3719 by specifying the following filtering and sorting criteria:
- 3720 - Country or Bidding Zone: selection is mandatory
- 3721 - Production Type: selection is optional, one or several may be chosen
- 3722 - Status: selection is optional, by default set to Commissioned
- 3723 - Effective Date: selection is optional, one day or from-to range may be chosen. By default the
3724 current date shall be used
- 3725 **9.9.5.2 DISPLAY**
- 3726 This data shall be displayed in the following section, accessible to all registered users:
- 3727 - **Generation / Generation and Production Units**
- 3728 The following attributes of data shall be displayed:
- 3729 - Country or Bidding Zone
- 3730 - Effective Date
- 3731 - List of Production Units, with their Installed Capacity, Production Type, Voltage Connection
3732 Level, Name, Location, Unique Code and Status.
- 3733 - For each Production Unit, the associated Generation Unit(s) with their Installed Capacity,
3734 Production Type, Name, Location, Unique Code and Status.

Deleted: Data Providers only:

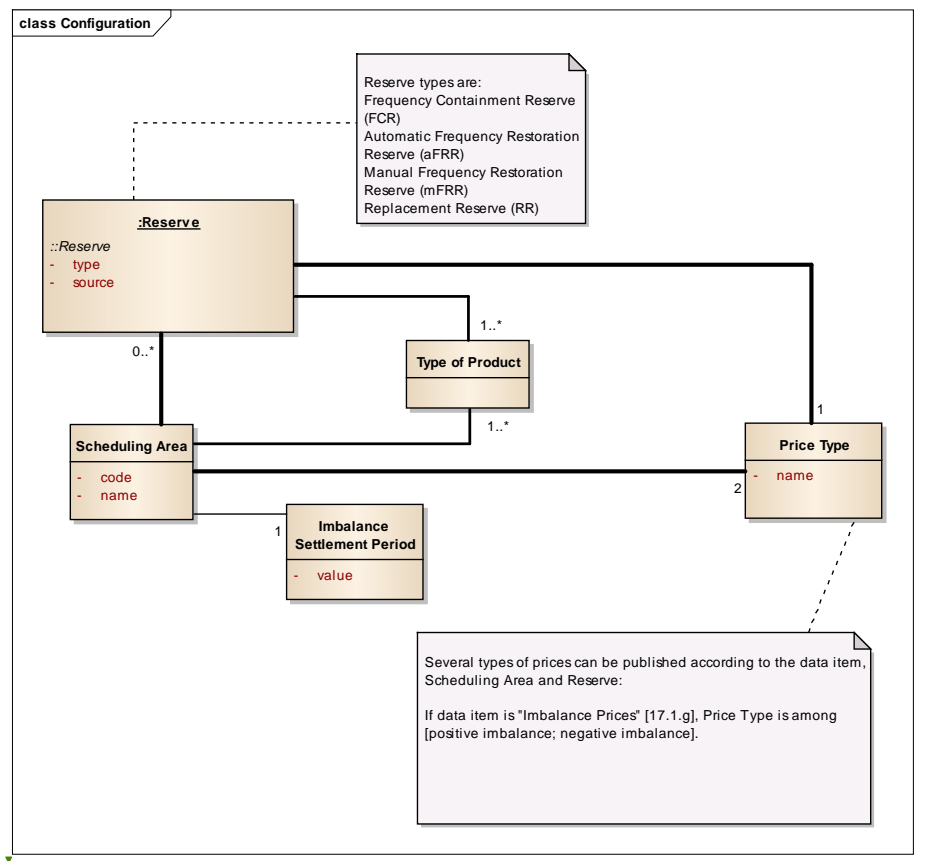
3736 Data shall be displayed in a Table.

3737 10 BALANCING

3738 10.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

3739 10.1.1 FUNDAMENTAL ENTITIES

3740 The following class diagram describes the fundamental entities to be taken into account within
3741 the scope of this document in order to pre-configure the platform.



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- 3742
- 3743 • Except for "Financial Expenses and Income for Balancing" [17.1.i] which is provided per
3744 control area, all information regarding Balancing is by default given per **Scheduling Area**,

3746 however balancing energy prices [17.1.f] and imbalance prices [17.1.g] may in some cases
3747 be published per imbalance price area and imbalance volume [17.1.h] and current
3748 balancing state [12.3.a] per imbalance area. For most data items, there is a set of
3749 applicable Reserves in each Scheduling Area. But in the cases of the data items
3750 "Imbalance Prices" [17.1.g], "Total Imbalance Volumes" [17.1.h] and "Financial Expenses
3751 and Income for Balancing" [17.1.i] the Reserves are not relevant.

- 3752 • The **Reserve** is of different **Types**. Reserve may be further differentiated by **source**; load,
3753 generation or mixed load/generation. However the latter distinction is relevant only for data
3754 item "Contracted Balancing Reserves" [17.1.b&c]. For mFRR, the reserve type may further
3755 distinguish between scheduled and direct activation, when applicable.
- 3756 • The **Imbalance Settlement Period (ISP)** is dependent on the Scheduling Area
- 3757 • The **Type of Price** depends on the Scheduling Area and for some data items additionally
3758 also on the Reserve
- 3759 • For the data item "Imbalance Prices" [17.1.g], the price in question is an imbalance price.
- 3760 • The **Type of Product** depends on the Reserve Type and the Scheduling Area. Initially only
3761 three types of products are foreseen; Standard, Specific and Local. As the implementation
3762 of the EB GL progresses, further granularity (i.e. different standard or specific products)
3763 may be introduced.

3764 10.1.2 PRE-CONFIGURATION

- 3765 - The platform administrator at ENTSO-E shall pre-configure the platform with the following
3766 reference data:
- 3767 - [C-BLC-1] a list of Reserves
- 3768 - [C-BLC-3] for each data item a separate list of relevant Scheduling Areas, imbalance areas,
3769 imbalance price areas or control areas
- 3770 - [C-BLC-4] for select data items, a list of applicable Reserves in each Scheduling Area
- 3771 - [C-BLC-5] a list of Price Types and their dependencies with the data item or combination of
3772 data item, Scheduling Area and reserve³⁰
- 3773 - [C-BLC-6] a list of Imbalance Settlement Periods and their dependencies with the Scheduling
3774 Area
- 3775 - [C-BLC-8] a list of Contract Types. The same list as for Transmission applies, refer to chapter
3776 7.1.6
- 3777 - [C-BLC-9] for each Scheduling Area or imbalance price area, the currency

³⁰ Dependency on Scheduling Area and reserve is relevant for data item "Prices of Procured Balancing Reserves" [17.1.c] only.

3778 - [C-BLC-11] for each Scheduling Area, imbalance area and imbalance price area, the country
3779 or list of countries that it covers, to facilitate publication of data per country

3780 - [C-BLC-12] a list of Product Types

3781 10.1.3 ASSUMPTIONS

3782 No specific assumptions apply to the data items in the Balancing domain.

3783 10.1.4 INTEGRATION

3784 Data Provider shall in one single data submission be able to provide data for a time interval
3785 longer than one Imbalance Settlement Period. The time interval would in this case necessarily
3786 be a multiple of the Imbalance Settlement Period. Similarly, for data item Financial Expenses
3787 and Income for Balancing [17.1.i], the time interval may encompass several months.

3788 10.1.5 DATA CONTAINER STATUS / DATA STATUS

3789 All structured data items, with the exception of [17.1.b&c], [12.3.b&c], [12.3.f], 12.3.h] and
3790 [12.3.i] follow the “none / waiting for publication / published / missing” scheme if properly
3791 declared as expected and if the submission deadline has been configured.

3792 10.1.6 PUBLICATION

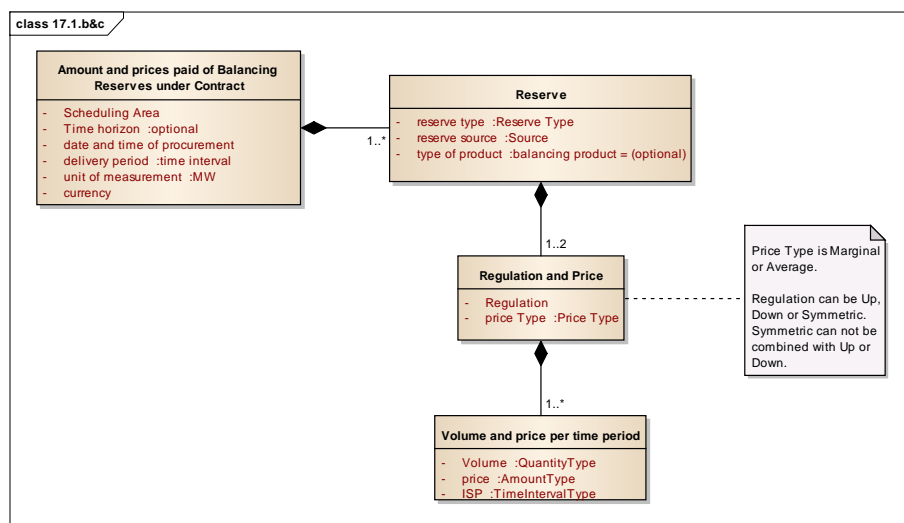
3793 For all data items except [12.3.g, 12.3.j-l], data shall be available on web site in both formats;
3794 table and chart.

3795

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

10.2.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For this data item, the submitted document shall contain values pertaining to only one Scheduling Area at a time. Not all Reserves have to be submitted in the same document. They could be submitted in separate documents, depending on local process.

This item describes for the applicable Reserves in the considered Scheduling Area and contracted delivery period, the quantity and prices paid of contracted balancing reserves per Regulation in a given fixed measure Unit (MW). For this data item, it is mandatory to qualify Reserve by Source. Date and time of procurement shall be specified.

The following two data consistency rules must be applied by the data provider. The platform will not validate or enforce them:

- 1) Type of product shall be specified when more than one exists in the given scheduling area
- 2) Time horizon is specified when applicable.

Volume and prices are described with resolution equivalent to ISP.

- 3814 The applicable price type is specified in reference data.
- 3815 If no volume was contracted for a given Reserve, the Reserve shall not be included in the
3816 submission.
- 3817 In case data describing prices and volumes are not available for publication at the same time,
3818 the prices shall be submitted as an update to the document containing the volumes, or vice
3819 versa.
- 3820 **10.2.2 PRE-CONFIGURATION**
- 3821 - For each applicable Scheduling Area, the unique allowed Data Provider~
- 3822 - For each applicable scheduling area and reserve, the price type: Average or Marginal
- 3823 **10.2.3 INTEGRATION**
- 3824 - The Scheduling Area shall be recognised by the platform
- 3825 - The Reserve shall be recognised by the platform
- 3826 - Time horizon and type of product, if provided, shall be recognised by the platform
- 3827 - The provided Scheduling Area and Reserve shall be associated together with the data item
3828 [17.1.b&c] in the pre-configuration of reference data, as in [C-BLC-4]
- 3829 - The Data Provider shall be consistent with the identified Scheduling Area
- 3830 **10.2.4 MONITORING**
- 3831 Contracted time intervals and dates and times for procurement processes vary significantly
3832 among scheduling areas, hence monitoring will not be performed on this data item.
- 3833 **10.2.5 PROCESSING**
- 3834 No processing is performed on this data item.
- 3835 **10.2.6 DATA CONTAINER STATUS / DATA STATUS**
- 3836 Data follows the "None / Ready for publication" scheme.
- 3837 **10.2.7 PUBLICATION**
- 3838 **10.2.7.1 FILTERING AND SORTING CRITERIA**
- 3839 Data shall be visually accessed by selecting the following:

- 3840 - Country (selection is optional: If selected, Scheduling Areas will be filtered to include only
- 3841 those that partially or completely cover the Country)
- 3842 - Scheduling Area (selection is mandatory)
- 3843 - Reserve (selection is optional)
- 3844 - Source (selection is optional)
- 3845 - Time horizon (selection is optional)
- 3846 - Type of product (selection is optional)
- 3847 - Regulation (selection is optional)
- 3848 - Date or date range (selection is mandatory)

3849 10.2.7.2 DISPLAY

3850 This data shall be displayed in the following section:

3851 - **Balancing / Capacity / Volumes and prices of Contracted Reserves**

3852 The following attributes of data shall be displayed:

- 3853 - Title
- 3854 - Scheduling Area name
- 3855 - Selected date or date range
- 3856 - Measurement Unit
- 3857 - Currency
- 3858 - For reserves with contracted delivery period partially or completely within the selected date
- 3859 or date range, the following attributes:
- 3860 - Reserve Type, Source, price type, Regulation and the contracted delivery period, date
- 3861 and time of procurement
- 3862 - If available: Type of product, time horizon
- 3863 - Contracted volumes and prices with ISP resolution
- 3864 If volumes and/or prices vary during the contracted delivery period, it shall be possible to
- 3865 expand the view so that values are displayed as a curve and a table.

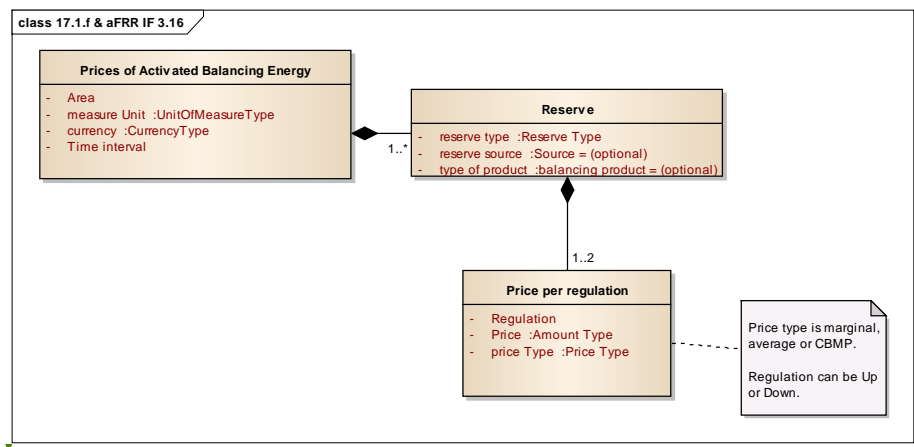
3866

3867

10.5 PRICES OF ACTIVATED BALANCING ENERGY [17.1.F] & AFRR CBMPs [AFRR IF 3.16]

10.5.1 DATA DESCRIPTION

This item can be described by the following class diagram:



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For this data item, the submitted document shall contain values pertaining to only one area, which may be either a scheduling area or an imbalance price area. For aFRR standard product additionally LFC area may apply.

This item describes for a time interval, by default equal to one ISP, for the applicable Reserves in the considered area, the price of activated balancing energy per Regulation in a given currency and fixed measure Unit (MWh). Price may be positive as well as negative. For aFRR standard product with bids selected for activation centrally by the European platform, a time interval of initially four seconds will be supported.

Source of Reserve and/or Type of Product are optionally included.

If no energy was activated for a given Reserve, no price shall be submitted for that Reserve.

For mFRR standard product, separate prices will be published for scheduled and direct activation, based on reserve type. For aFRR standard product, separate prices will be published for bids selected for activation locally and centrally, respectively, based on reserve type.

3888 10.5.2 PRE-CONFIGURATION

3889 - For each applicable area and reserve type, the unique allowed Data Provider

3890 - For each applicable area, reserve type and optionally also product, the price type

3891 - For each applicable area and reserve type, the submission deadline:

- 3892 • For a given ISP, submission must be done at the latest one hour (H+1) after the end of
3893 the ISP.

3894 *Example: if the ISP is 30 min for a given Area and Reserve, and the time interval being*
3895 *described is January 15th [08:00; 08:30] UTC, values for this time interval must be*
3896 *submitted before January 15th, 09:30 UTC.*

3897 10.5.3 INTEGRATION

3898 - The Area shall be recognised by the platform

3899 - The Reserve shall be recognised by the platform

3900 - If included, the Type of Product shall be recognised by the platform

3901 - The provided Area and Reserve shall be associated together with the data item [17.1.f] in the
3902 pre-configuration of reference data, as in [C-BLC-4]

3903 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple
3904 of the ISP, this ISP being identified for the Area as in [C-BLC-6].

3905 - The Data Provider shall be consistent with the identified Area and Reserve

3906 - Currency shall be consistent with pre-configuration [C-BLC-9]

3907 10.5.4 MONITORING

3908 For a given Area, the submission deadline described above shall be monitored for each time
3909 interval. If a non-zero activated volume was submitted under GL EB article 12.3.e (refer to
3910 chapter 10.12), price is expected for the given reserve.

3911 For aFRR standard products selected for activation centrally by the European platform, prices
3912 with initially four second resolution will be expected for the entire ISP whenever a non-zero
3913 activated volume was reported under GL EB article 12.3.e. Due to technical limitations,
3914 monitoring is performed per entire ISP also for aFRR standard products.

3915 10.5.5 PROCESSING

3916 Platform determines Price Type based on Area and Reserve, using pre-configuration [C-BLC-
3917 5].

3918 10.5.6 PUBLICATION

3919 10.5.6.1 FILTERING AND SORTING CRITERIA

3920 Data shall be visually accessed by selecting the following:

3921 - Country (selection is optional: If selected, Areas will be filtered to include only those that
3922 partially or completely cover the Country)

3923 - Area (selection is mandatory)

3924 - Reserve Type (selection is optional)

3925 - Type of Product (selection is optional)

3926 - Day (selection is mandatory)

3927 - Time Window (Start time and end time) (selection is mandatory)

3928 10.5.6.2 DISPLAY

3929 This data shall be displayed in the following section:

3930 - **Balancing / Energy / Prices of Activated Balancing Energy**

3931 However for aFRR standard product with bids selected for activation centrally by the European
3932 platform, data shall be displayed in a dedicated section:

3933 - **Balancing / Energy / CBMPs for aFRR standard product [aFRR IF 3.16]**

3934 The following attributes of data shall be displayed:

3935 - Title

3936 - Area name

3937 - Reserve: Type and Source (if provided)

3938 - Type of Product (if provided)

3939 - ISP for the given Area

3940 - Day

3941 - Measurement Unit

3942 - Currency

3943 - For each Reserve and product (if provided), the Regulation and Price Type

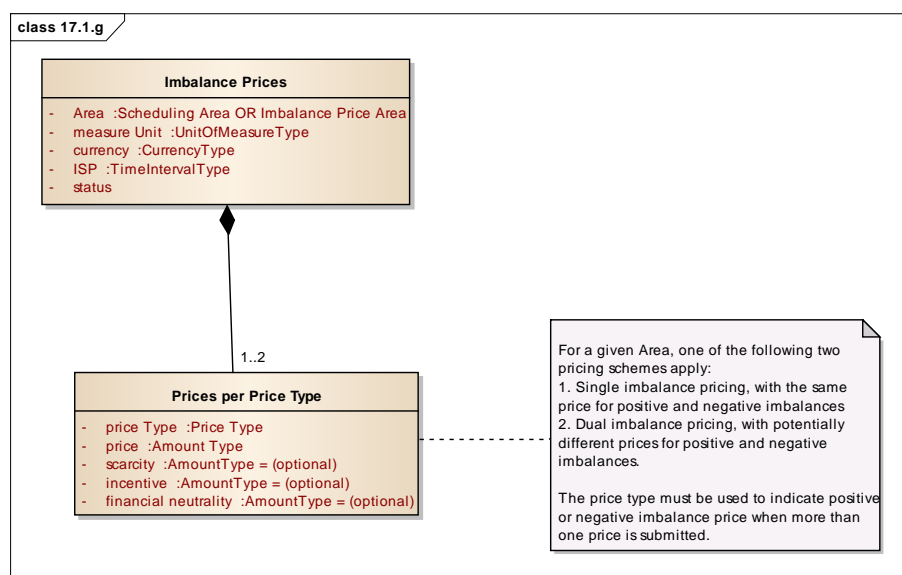
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- 3945 - Prices per ISP within the Time Window, however for aFRR standard product with bids
3946 selected for activation centrally by the European platform prices are published with four
3947 seconds resolution
- 3948 For data with four seconds resolution (i.e. aFRR standard product with bids selected for
3949 activation centrally by the European platform), data shall by default be displayed in a chart.

10.6 IMBALANCE PRICES [17.1.G]

10.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable area, which may be a scheduling are or an imbalance price area the positive and negative imbalance prices shall be published. For this data item, the submitted document shall contain values pertaining to only one Area.

If the data provider submits a price without distinction between positive and negative imbalance (typically being the case when TSO applies single imbalance pricing), the platform shall publish the same values for positive and negative imbalances.

Optionally, the data provider may supplement the price with one or several of the following three components: Scarcity, incentive and financial neutrality.

For a time interval, equal to one ISP, this publication consists of the imbalance prices (and optionally their components) in a given currency and fixed measure unit (MWh). Prices may be negative, positive or zero. The status of the data (intermediate or final) shall also be indicated.

3966 **10.6.2 PRE-CONFIGURATION**

3967 - For each applicable Area, the unique allowed Data Provider

3968 - For each applicable Area, the submission deadline:

- 3969 • Data shall be submitted as soon as possible. The specific submission deadline will
3970 depend on Area.

3971 *Example: ISP is 30 min for a given Area where submission deadline is H+2. The time*
3972 *interval in question is January 15th [08:00; 08:30] UTC. Values for this time interval must*
3973 *be submitted before January 15th, 10:30 UTC.*

3974 **10.6.3 INTEGRATION**

3975 - The Area shall be recognised by the platform

3976 - If provided, the Price Types shall be recognised by the platform

3977 - The provided Area shall be associated with the data item [17.1.g] in the pre-configuration of
3978 reference data, as in [C-BLC-3]

3979 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple
3980 of the ISP, this ISP being identified for the Area as in [C-BLC-6]

3981 - The Data Provider shall be consistent with the identified Area

3982 - Currency shall be consistent with pre-configuration [C-BLC-9]

3983 **10.6.4 MONITORING**

3984 For a given Area, the submission deadline described above shall be monitored for each time
3985 interval.

3986 **10.6.5 PROCESSING**

3987 No processing is performed on this data item.

3988 **10.6.6 PUBLICATION**

3989 **10.6.6.1 FILTERING AND SORTING CRITERIA**

3990 Data shall be visually accessed by selecting the following:

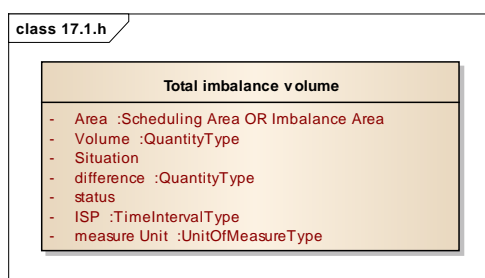
- 3991 - Country (selection is optional: If selected, Areas will be filtered to include only those that
3992 partially or completely cover the Country)

- 3993 - Area (selection is mandatory)
- 3994 - Day (selection is mandatory)
- 3995 - Time window within selected day (Start time and end time) (selection is optional)
- 3996 **10.6.6.2 DISPLAY**
- 3997 This data shall be displayed in the following section:
- 3998 - **Balancing / Imbalance / Imbalance Prices (together with 17.1.h)**
- 3999 The following attributes of data shall be displayed:
 - 4000 - Title
 - 4001 - Area name
 - 4002 - Day
 - 4003 - Measurement Unit
 - 4004 - Currency
- 4005 For every ISP within the selected time window and for the selected area:
 - 4006 - Status of the data (intermediate or final)
 - 4007 - the price separately for positive and negative imbalances
 - 4008 - If provided, the component(s) separately for positive and negative imbalances

4009 10.7 TOTAL IMBALANCE VOLUME [17.1.H]

4010 10.7.1 DATA DESCRIPTION

4011 This item can be described by the following class diagram:



4012
4013 For each applicable Market Balance Area, there should be a given ISP value. For this data
4014 item, the submitted document shall contain values pertaining to only one area, which may be
4015 a scheduling area or an imbalance area.

4016 This item describes for a time interval, equal to one ISP, the total imbalance volume in a given
4017 fixed measure Unit (MWh). The volume represents either a surplus or a deficit. The difference
4018 between measured and scheduled flows over all interconnectors shall be published separately.
4019 The status of the data (Intermediate or final) shall also be indicated. Data shall be submitted
4020 as absolute values.

4021
4022 10.7.2 PRE-CONFIGURATION
4023 - For each applicable area, the unique allowed Data Provider
4024 - For each applicable area, the submission deadline:
4025 • For a given time interval, submission must be done at the latest 30 minutes after the
4026 end of the time interval.

4027 *Example: if the ISP is 30 min for a given area, and the time interval in question is January*
4028 *15th [08:00; 08:30] UTC, values for this time interval must be submitted before January 15th,*
4029 *09:00 UTC.*

4030 10.7.3 INTEGRATION

4031 - The area shall be recognised by the platform

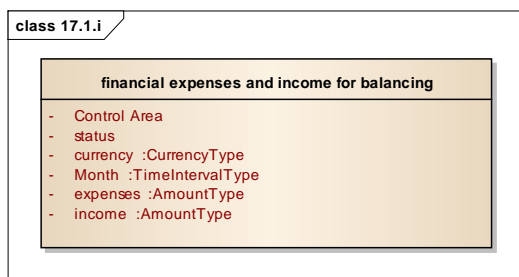
- 4032 - The provided area shall be associated together with the data item [17.1.h] in the pre-
4033 configuration of reference data, as in [C-BLC-3]
- 4034 - The time interval in the submitted document is of one ISP at least and is necessarily a multiple
4035 of the ISP, this ISP being identified for the area as in [C-BLC-6]
- 4036 - The Data Provider shall be consistent with the identified area
- 4037 **10.7.4 MONITORING**
- 4038 For a given area, the submission deadline described above shall be monitored for each time
4039 interval.
- 4040 **10.7.5 PROCESSING**
- 4041 No processing is performed on this data item.
- 4042 **10.7.6 PUBLICATION**
- 4043 **10.7.6.1 FILTERING AND SORTING CRITERIA**
- 4044 Data shall be visually accessed by selecting the following:
- 4045 - Country (selection is optional: If selected, areas will be filtered to include only those that
4046 partially or completely cover the Country)
- 4047 - area (selection is mandatory)
- 4048 - Day (selection is mandatory)
- 4049 - Time Window (Start time and end time) (selection is mandatory)
- 4050 **10.7.6.2 DISPLAY**
- 4051 This data shall be displayed in the following section:
- 4052 - **Balancing / Imbalance** (same section as for "Imbalance prices / 17.1.g")
- 4053 The following attributes of data shall be displayed:
- 4054 - Title
- 4055 - Area name
- 4056 - Balancing Time Unit for the given area
- 4057 - Day

- 4058 - Measurement Unit (MWh)
- 4059 - Deficit or surplus for each ISP within the Time Window for the given area
- 4060 - Status of data (Intermediate or Final) for each ISP within the Time Window for the given area
- 4061 - The total imbalance volume and difference per ISP within the Time Window for the given area

10.8 FINANCIAL EXPENSES AND INCOME FOR BALANCING [17.1.i]

10.8.1 DATA DESCRIPTION

This item can be described by the following class diagram:



For each applicable Control Area, this item describes for each month the expenses and income, in a given currency, together with a status of this financial information (Intermediate or final).

Note: Amounts (whether expense or income) can be both positive and negative.

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

10.8.2 PRE-CONFIGURATION

- For each applicable Control Area, the unique allowed Data Provider

- For each applicable Control Area, the submission deadline:

- For a given month, submission must be done at the latest at the end of the last calendar day of M+3, where M is the month to which submitted values pertain.

Example: if the considered month is January 2012, values for this month must be submitted before 30th April, 24:00 UTC.

10.8.3 INTEGRATION

- The Control Area shall be recognised by the platform

- 4082 - The provided Control Area shall be associated with the data item [17.1.i] in the pre-
4083 configuration of reference data, as in [C-BLC-3]
- 4084 - The time interval in the submitted document is of one month at least and is necessarily a
4085 multiple of one month
- 4086 - The Data Provider shall be consistent with the identified Control Area
- 4087 - Document is submitted after the end of the month described in the document, reason being
4088 that this is ex-post data. This validation shall trigger a warning only.
- 4089 - Currency shall be consistent with pre-configuration [C-BLC-9]

4090 10.8.4 MONITORING

- 4091 For this item, the monthly submission deadline shall be monitored.

4092 10.8.5 PROCESSING

- 4093 The following processing is performed by the platform:

- 4094 - calculate the difference between the expense and the income

4095 10.8.6 PUBLICATION

4096 10.8.6.1 FILTERING AND SORTING CRITERIA

- 4097 Data shall be visually accessed by selecting the following:

- 4098 - Country (selection is optional: If selected, Control Areas will be filtered to include only those
4099 that partially or completely cover the Country)
- 4100 - Control Area (selection is mandatory)
- 4101 - Time Window (from one month to a year) (selection is mandatory)

4102 10.8.6.2 DISPLAY

- 4103 This data shall be displayed in the following section:

- 4104 - **Balancing / Financial Balance / Financial expenses and income**

- 4105 The following attributes of data shall be displayed:

- 4106 - Title
- 4107 - Control Area name

- 4108 - Time Window
- 4109 - Currency
- 4110 - For each month, the status of data (Intermediate or Final)
- 4111 - For each month, the income
- 4112 - For each month, the expenses
- 4113 - For each month, the calculated difference between the expenses and income

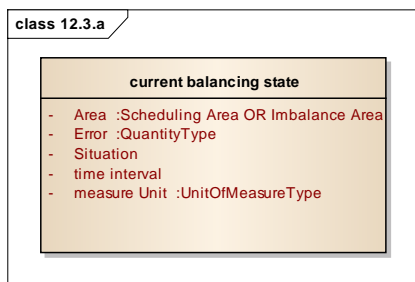
4114

4115

4116 10.9 CURRENT BALANCING STATE [GL EB 12.3.A]

4117 10.9.1 DATA DESCRIPTION

4118 This item can be described by the following class diagram:



4119
4120 The submitted document describes for a given area, which may be of type scheduling area,
4121 load frequency control area or imbalance area, the open loop control area error, expressed in
4122 MW per minute. The volume of this error represents either a surplus or a deficit, as indicated
4123 by the Situation attribute. If the system is balanced, a zero volume shall be submitted. Data
4124 shall be submitted as absolute values.

4125 10.9.2 PRE-CONFIGURATION

4126 - For each applicable area, the unique allowed Data Provider

4127 - For each applicable area, the submission deadline:

- 4128 • For a given time interval, submission must be done at the latest 30 minutes after the
- 4129 end of the minute being described by the data.

4130 *Example: if the document describes the time interval January 15th [08:00; 08:01] UTC,*
4131 *values for this time interval must be submitted before January 15th, 08:31 UTC.*

4132 10.9.3 INTEGRATION

4133 - The area shall be recognised by the platform

4134 - The provided area shall be associated together with the data item [GL EB 12.3.a] in the pre-
4135 configuration of reference data, as in [C-BLC-3]

4136 - The time interval in the submitted document is of one minute at least and is necessarily a
4137 multiple of minutes

4138 - The Data Provider shall be consistent with the identified area

4139 10.9.4 MONITORING

4140 For a given area, the submission deadline described above shall be monitored for each time
4141 interval.

4142 10.9.5 PROCESSING

4143 No processing is performed on this data item.

4144 10.9.6 PUBLICATION

4145 10.9.6.1 FILTERING AND SORTING CRITERIA

4146 Data shall be visually accessed by selecting the following:

4147 - Country (selection is optional: If selected, Areas will be filtered to include only those that
4148 partially or completely cover the Country)

4149 - Area (selection is mandatory)

4150 - Day (selection is mandatory)

4151 - Time Window (Start time and end time) (selection is mandatory)

4152 10.9.6.2 DISPLAY

4153 This data shall be displayed in the following section:

4154 - **Balancing / Imbalance / Current balancing state**

4155 The following attributes of data shall be displayed:

4156 - Title

4157 - Area

4158 - Day

4159 - Measurement Unit (MW)

4160 - Indicator of deficit or surplus per minute within the Time Window for the given area

4161 - The open loop control area error per minute within the Time Window for the given area

4162 10.10 BALANCING ENERGY BIDS [GL EB 12.3.B&C]

4163 10.10.1 DATA DESCRIPTION

4164 This data item contains the balancing energy bids for the Scheduling area. The data
4165 submissions to the central transparency platform shall distinguish the reserve type, the
4166 direction, the validity and delivery periods, offered volume and price.

4167
4168 For standard products, it is mandatory to indicate whether the bid is available or
4169 unavailable. For unavailable bids that were activated locally, it will be possible to declare
4170 the activation purpose. A free text comment may optionally accompany an unavailable
4171 bid to provide further explanation and justification.

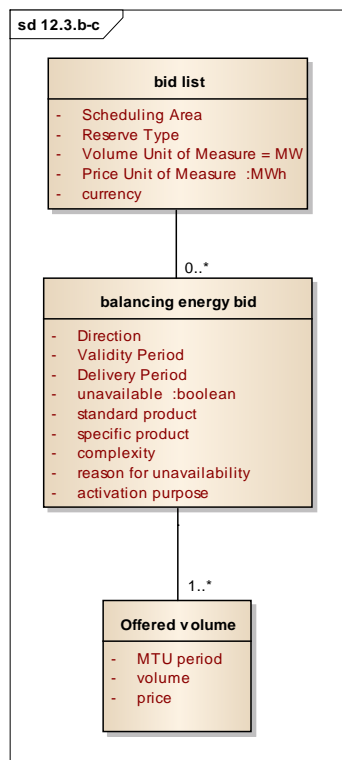
4172
4173 For RR standard product bids, the reason for unavailability must be declared. For
4174 standard product aFRR and mFRR bids, a cross-reference is provided to the detailed
4175 reason for changes to availability which are published separately.
4176

4177 A complexity indicator will express whether the bid is linked, exclusive or multipart.

4178 The standard product attribute will be used when the bid refers to a standard product or a
4179 specific product has been converted into a standard product. The specific product attribute will
4180 be used when the bid refers to a specific product, when the bid has been converted into a
4181 standard product or when the bid originates from an integrated scheduling process. The
4182 specific product attribute shall be used when the bid refers to a local product³¹.

4183
4184

³¹ Applicable only during the transition period until standard and specific products have been defined as foreseen by EB GL articles 25 and 26



4185

4186 For some scheduling areas and reserve types, the offer price is not available. Hence, the
4187 central transparency platform shall deem it as an optional attribute.

4188 10.10.2 PRE-CONFIGURATION

4189 - For each applicable scheduling area: The applicable reserve types

4190 - For each applicable scheduling area and reserve type: The allowed data providers³²

4191 10.10.3 VALIDATION

4192 - The scheduling area and data provider shall be recognised by the platform

³² For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

- 4193 - The provided scheduling area and reserve type shall be consistent with the platform's pre-
4194 configured reference data
- 4195 - The data provider shall be consistent with the identified scheduling area and reserve type
- 4196 - Only standard product bids may be declared unavailable
- 4197 - Activation purpose may optionally be declared for unavailable bids. If declared, the purpose
4198 shall be validated.
- 4199 Reason for unavailability is mandatory for RR standard product bids
- 4200 **10.10.4 MONITORING**
- 4201 Gate closure times vary significantly among scheduling areas and reserve types. Further, bids
4202 are not guaranteed to be submitted, hence monitoring will not be performed on this data item.
- 4203 **10.10.5 PROCESSING**
- 4204 No processing is performed on this data item.
- 4205 **10.10.6 PUBLICATION**
- 4206 **10.10.6.1 FILTERING AND SORTING CRITERIA**
- 4207 Data shall be visually accessed by selecting the following:
- 4208 - Country (selection is optional: If selected, scheduling areas will be filtered to include only
4209 those that partially or completely cover the country)
- 4210 - scheduling area (selection is mandatory)
- 4211 - reserve type (selection is mandatory)
- 4212 - date, to be matched against the bids' delivery periods
- 4213 **10.10.6.2 DISPLAY**
- 4214 This data shall be displayed in the following section:
- 4215 - **Balancing / Energy / Bids**
- 4216 The following attributes of data shall be displayed:
- 4217 - scheduling area
- 4218 - reserve type

- 4219 - selected date
- 4220 - unit of measurement
- 4221 - For bids with delivery time interval that fall within the selected date, the following data is
- 4222 displayed:
 - 4223 - validity period
 - 4224 - delivery period
 - 4225 - direction
 - 4226 - offered volumes and prices per MTU period during the delivery period
 - 4227 - standard and/or specific type of product, as applicable
 - 4228 - if applicable, complexity indicator
 - 4229 - Indicator whether the bid is available or unavailable
 - 4230 - Reason for unavailability (when applicable)
 - 4231 - Cross-reference to published detailed reason for changes to bid availability
 - 4232 - Activation purpose (when applicable and available)
 - 4233 - Free text comment (when applicable and available)
 - 4234
 - 4235

4236 10.11 INFORMATION ON CONVERSION INTO STANDARD 4237 PRODUCTS [GL EB 12.3.D]

4238 10.11.1 DATA DESCRIPTION

4239 This data item consists of a PDF file per Scheduling Area or Control Area, providing a
4240 description of how specific products or bids from an integrated scheduling process are
4241 converted into standard products. This information complements the data published under GL
4242 EB articles 12.3.b&c. No monitoring will be performed.

4243 10.11.2 PRE-CONFIGURATION

4244 ENTSO-E administrator shall be able to manage the reference data that indicates the single
4245 allowed Data Provider per Area for this data item.

4246 10.11.3 INTEGRATION

4247 Data Provider shall on the platform's web site, on the same page where these reports are
4248 published, be able to select an Area, upload a PDF file and indicate the date as of which the
4249 uploaded document entries into force.

4250 Platform shall validate combination of Area and Data Provider.

4251 10.11.4 PUBLICATION

4252 10.11.4.1 PUBLICATION BEHAVIOUR

4253 Documents are published immediately after upload.

4254 All versions shall be published.

4255 10.11.4.2 FILTERING AND SORTING CRITERIA

4256 End user shall be able to select data for display by specifying:

4257 - Country (selection is optional: If selected, Areas will be filtered to include only those that
4258 partially or completely cover the Country)

4259 - Area (mandatory)

4260 10.11.4.3 DISPLAY

4261 This data shall be displayed in the following section:

4262 **Balancing / Rules and Reports / Information on conversion into standard products**

4263 The following attributes of data shall be displayed:

4264 - Area name

4265 - A link to download each uploaded PDF document

4266 - For each document, the effective date

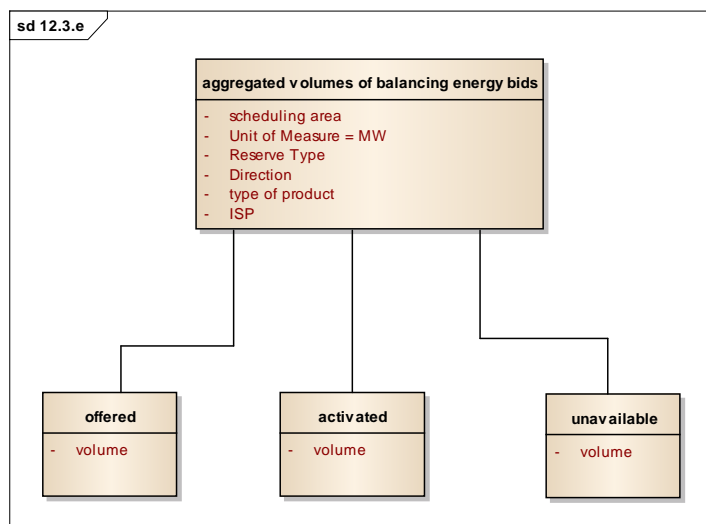
4267

10.12 AGGREGATED BALANCING ENERGY BIDS [GL EB 12.3.E]

10.12.1 DATA DESCRIPTION

This data item contains the aggregated volumes of activated, offered and unavailable balancing energy, respectively, per scheduling area. The data submissions to the central transparency platform shall distinguish the reserve type, direction, type of product and the ISP.

Offered, activated and unavailable volumes are accounted for separately.



Unavailable volumes are applicable for standard products only.

For reserve type FCR no publication is applicable. For mFRR, separate values of activated volumes will be published for scheduled and direct activation, based on reserve type. For aFRR, separate values of activated volumes will be published for central and local selection of bids, respectively, based on reserve type.

Even when for a given reserve type and scheduling area there was no offered or unavailable volume (and hence no activated volume), the data provider shall still submit a document with zero values, indicating the ISP. Purpose is to enable effective monitoring of the data item.

4286 **10.12.2 PRE-CONFIGURATION**

- 4287 - For each applicable scheduling area: The applicable reserve types
- 4288 - For each applicable scheduling area and reserve type: The allowed data providers³³
- 4289 - The submission deadline: 30 minutes after every ISP

4290 **10.12.3 VALIDATION**

- 4291 - The scheduling area and data provider shall be recognised by the platform
- 4292 - The provided scheduling area and reserve type shall be consistent with the platform's pre-
- 4293 configured reference data
- 4294 - The data provider shall be consistent with the identified scheduling area

4295 **10.12.4 MONITORING**

- 4296 For every applicable combination of scheduling area, reserve type and type of product, the
- 4297 designated data provider shall submit a document for every ISP.

4298 **10.12.5 PROCESSING**

- 4299 Platform shall for every scheduling area, direction and ISP aggregate totals separately for
- 4300 standard and specific products by summing up the values for all reserve types taken together.
- 4301 Platform shall for every scheduling area, reserve type, direction and ISP aggregate totals for
- 4302 offered and activated volumes, by summing up the values provided per type of product.
- 4303 Platform shall aggregate the grand totals for all reserve types taken together, summing up for
- 4304 every scheduling area, direction and ISP the offered, activated and unavailable volumes.

4305 **10.12.6 PUBLICATION**

4306 **10.12.6.1 FILTERING AND SORTING CRITERIA**

- 4307 Data shall be visually accessed by selecting the following:
- 4308 - Country (selection is optional: If selected, scheduling areas will be filtered to include only
- 4309 those that partially or completely cover the country)

³³ For example: TSO submits data for one or several specific products, while common platform submits data for standard product.

4310 - scheduling area (selection is mandatory)

4311 - date (selection is mandatory)

4312 - reserve type (selection is optional)

4313 - direction (selection is optional)

4314 10.12.6.2 DISPLAY

4315 This data shall be displayed in the following section:

4316 - **Balancing / Energy / Aggregated bids**

4317 The following attributes of data shall be displayed:

4318 -- scheduling area

4319 - selected date

4320 - unit of measurement (MW)

4321 - For all ISP during the selected day, the following data is displayed:

4322 - offered, activated and unavailable volumes per direction

4323 - offered and activated volumes for standard, specific and local products per direction,
4324 respectively

4325 - offered, activated and unavailable volumes per reserve type and direction

4326 - offered and activated volumes for standard and specific products per direction and reserve
4327 type, respectively

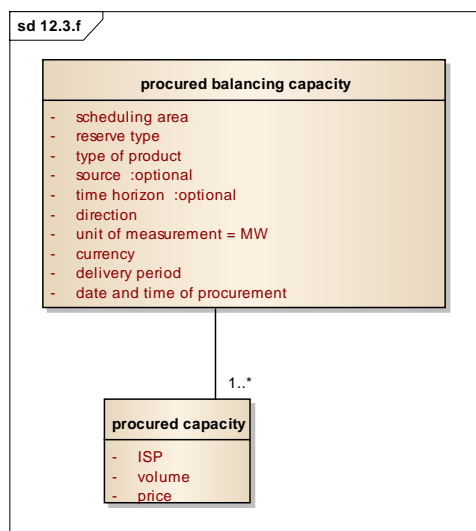
4328

4329

4330 10.13 PROCURED BALANCING CAPACITY [GL EB 12.3.F]

4331 10.13.1 DATA DESCRIPTION

4332 This data item contains the procured balancing capacity per scheduling area. For every
4333 accepted bid, data provider shall submit to the central transparency platform the reserve
4334 type, type of product, delivery period and direction. Source may optionally be included as
4335 well. When applicable, time horizon may be specified. Date and time of procurement shall be
4336 specified. Offered volume and price are provided for every ISP of the delivery period.



4337

4338 Type of Product shall at least distinguish between standard, specific and local products.

4339 Assumptions:

4340 - Data describes individual, accepted bids/offers. Data provider does not perform any
4341 aggregation.

4342

4343 10.13.2 PRE-CONFIGURATION

- 4344 - For each applicable scheduling area: The applicable reserve types
- 4345 - For each applicable scheduling area and reserve type: The single allowed data provider

4346 10.13.3 VALIDATION

- 4347 - The scheduling area and data provider shall be recognised by the platform
- 4348 - The provided scheduling area and reserve type shall be consistent with the platform's pre-
- 4349 configured reference data
- 4350 - The data provider shall be consistent with the identified scheduling area

4351 10.13.4 MONITORING

- 4352 Dates and times for procurement processes vary significantly among scheduling areas and
- 4353 there is no guarantee that bids will be accepted, hence monitoring will not be performed on
- 4354 this data item.

4355 10.13.5 PROCESSING

- 4356 Not applicable.

4357 10.13.6 PUBLICATION

4358 10.13.6.1 FILTERING AND SORTING CRITERIA

- 4359 Data shall be visually accessed by selecting the following:
- 4360 - Country (selection is optional: If selected, scheduling areas will be filtered to include only
- 4361 those that partially or completely cover the country)
- 4362 - scheduling area (selection is mandatory)
- 4363 - date or date range (selection is mandatory)
- 4364 - reserve type (selection is optional)
- 4365 - type of product (selection is optional)
- 4366 - source (selection is optional)
- 4367 - time horizon (selection is optional)
- 4368 - direction (selection is optional)

4369 10.13.6.2 DISPLAY

- 4370 This data shall be displayed in the following section:
- 4371 - **Balancing / Capacity / Procured bids**

- 4372 The following attributes of data shall be displayed:
- 4373 - scheduling area
- 4374 - reserve type
- 4375 - unit of measurement (MW) for capacity
- 4376 - unit of measurement (currency/MW/ISP) for prices
- 4377 - For all procured capacity offers whose delivery periods partially or completely fall within the
4378 select date or date range, the following data is displayed:
- 4379 - type of product
- 4380 - source (if available)
- 4381 - direction
- 4382 - time horizon (if available)
- 4383 - date and time of procurement
- 4384 - delivery period
- 4385 - offered capacity and price per ISP

4386 10.14 TERMS AND CONDITIONS [GL EB 12.3.G]

4387 10.14.1 DATA DESCRIPTION

4388 This data item consists of a PDF file per Control Area or load frequency control area (consisting
4389 of two or more control areas). No monitoring will be performed.

4390 Note: Published document also covers the requirements of TR article 17.1.a.

4391 10.14.2 PRE-CONFIGURATION

4392 ENTSO-E administrator shall be able to manage the reference data that indicates the single
4393 allowed Data Provider per Area for this data item.

4394 10.14.3 INTEGRATION

4395 Data Provider shall on the platform's web site, on the same page where these reports are
4396 published, be able to select a Area, upload a PDF file and indicate the date as of which the
4397 uploaded document entries into force.

4398 Platform shall validate combination of Area and Data Provider.

4399 10.14.4 PUBLICATION

4400 10.14.4.1 PUBLICATION BEHAVIOUR

4401 Documents are published immediately after upload.

4402 All versions shall be published.

4403 10.14.4.2 FILTERING AND SORTING CRITERIA

4404 End user shall be able to select data for display by specifying:

4405 - Country (selection is optional: If selected, Areas will be filtered to include only those that
4406 partially or completely cover the Country)

4407 - Area (mandatory)

4408 10.14.4.3 DISPLAY

4409 This data shall be displayed in the following section:

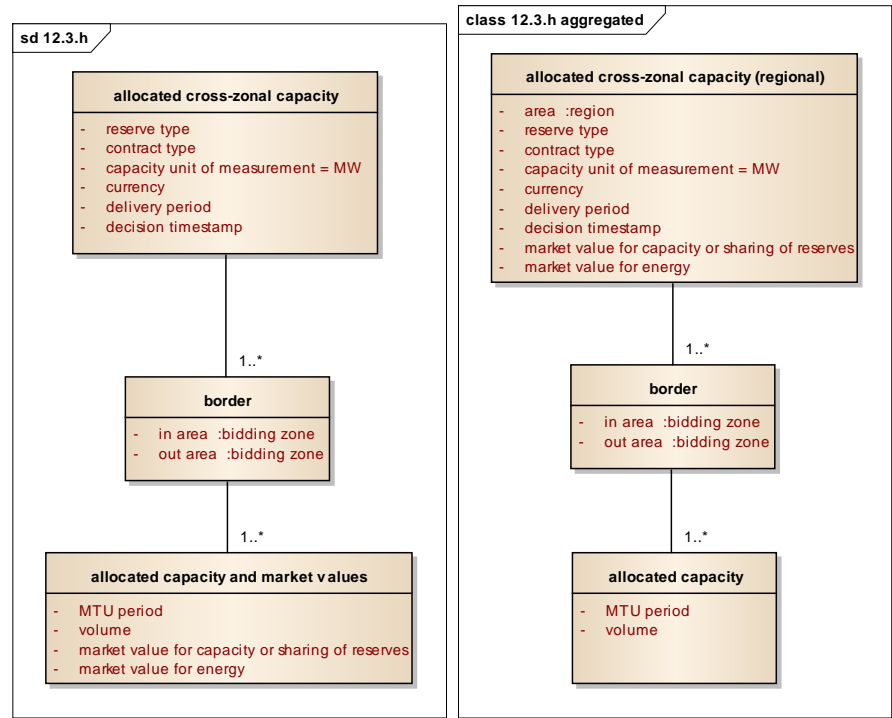
4410 **Balancing / Rules and reports / Terms and conditions**

- 4411 The following attributes of data shall be displayed:
- 4412 - Area name
- 4413 - A link to download each uploaded PDF document
- 4414 - For each document, the date of entry into force
- 4415

4416 10.15 ALLOCATED CROSS-ZONAL BALANCING CAPACITY
4417 [GL EB 12.3.H]

4418 10.15.1 DATA DESCRIPTION

4419 This data item describes the allocation of cross-zonal balancing capacity per border. The
4420 data submissions to the central transparency platform shall indicate the In and Out bidding
4421 zones (or technical profile), reserve type, contract type, delivery period and the date and time
4422 when the allocation decision was taken. The allocated capacity volume is provided per MTU
4423 period.



4424
4425 Depending on the applicable allocation mechanism, the market values may either be
4426 provided as a time series per direction across a border or as single values for the entire
4427 region and delivery period.

4428 Contact type may be long-term, week-ahead or day-ahead. Capacity is expressed in MW.
4429 Market values are expressed in currency.

4430 As a transitory measure, until the prescribed methodologies have been fully implemented, a
4431 single market value per MTU period may be submitted and published. Refer to
4432 implementation guide [13] for details.

4433 Note: The allocations described in this data item are the same as the ones covered by GL
4434 EB article 12.3.i.

4435 10.15.2 PRE-CONFIGURATION

4436 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

4437 10.15.3 VALIDATION

4438 - The In and Out bidding zones and data provider shall be recognised by the platform

4439 - The In and Out bidding zones, reserve type and data provider shall be consistent with the
4440 platform's pre-configured reference data

4441 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured
4442 reference data

4443 10.15.4 MONITORING

4444 Timelines of allocation processes may vary significantly depending on border and contract
4445 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will
4446 be performed.

4447 10.15.5 PROCESSING

4448 No aggregation or other processing is performed on the central transparency platform.

4449 10.15.6 PUBLICATION

4450 10.15.6.1 FILTERING AND SORTING CRITERIA

4451 Data shall be visually accessed by selecting the following:

4452 - Country (selection is optional: If selected, bidding zones or region will be filtered to include
4453 only those that partially or completely cover the country)

4454 - In and Out bidding zones (selection is mandatory)

4455 - Reserve type (selection is mandatory)

4456 - Date or date range (selection is mandatory)

4457 - Contract type (selection is mandatory)

4458 10.15.6.2 DISPLAY

4459 This data shall be displayed in the following section:

4460 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL
4461 EB article 12.1.i)

4462 The following attributes of data shall be displayed:

4463 - In and Out bidding zones

4464 - Region, if applicable

4465 - Reserve type

4466 - unit of measurements: MW and currency

4467 - contract type

4468 - For all allocations whose delivery periods fall, entirely or partially, within the selected date or
4469 date range, the following data is displayed:

4470 - delivery period

4471 - date and time of allocation decision

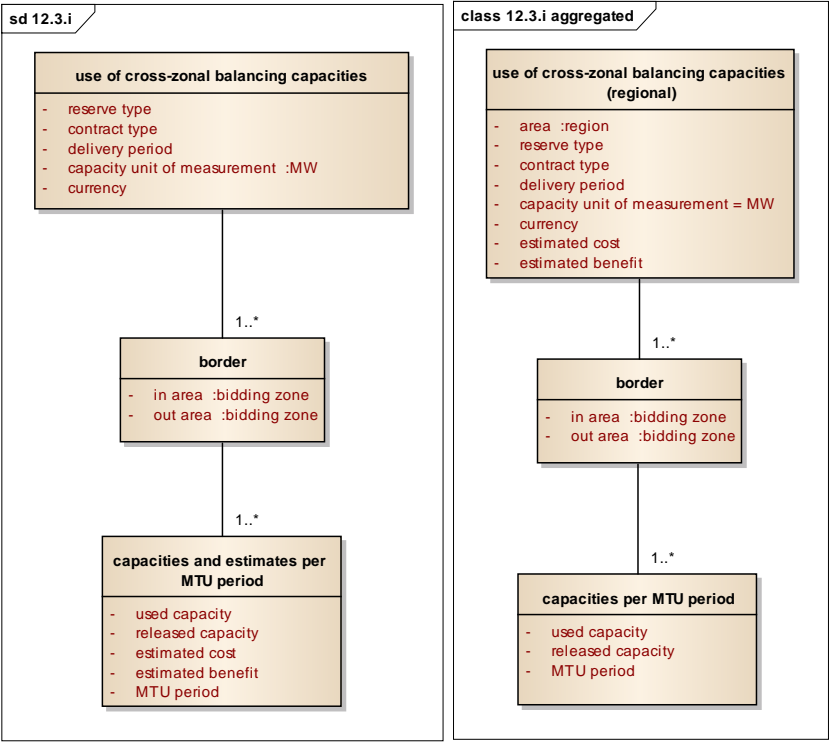
4472 - allocated capacity volume per MTU period

4473 - market values per MTU period and direction across borders or as single values for the
4474 entire region and delivery period

4475 10.16 USE OF ALLOCATED CROSS-ZONAL BALANCING
4476 CAPACITY [GL EB 12.3.I]

4477 10.16.1 DATA DESCRIPTION

4478 This data item describes the use of cross-zonal balancing capacity per border. The data
4479 submissions to the central transparency platform shall indicate the In and Out bidding zones
4480 (or technical profile), reserve type, contract type and delivery period of the allocation process.



4481

4482 Contract type may be long-term, week-ahead or day-ahead.

4483 Volumes of used and released capacities are provided with MTU resolution for the whole

4484 delivery period.

4485 Depending on the applicable allocation mechanism, the estimated costs and benefits may
4486 either be provided as a time series per direction across a border or as single values for the
4487 entire region and delivery period.

4488 Note: The allocations described in this data item are the same as the ones covered by GL EB
4489 article 12.3.h. Data required under this GL EB article 12.3.i shall be submitted as an update to
4490 the document containing the allocated capacity, previously submitted under GL EB article
4491 12.3.h.

4492 10.16.2 PRE-CONFIGURATION

4493 - For each applicable region or bidding zone couple and reserve type, the allowed data provider

4494 10.16.3 VALIDATION

4495 - The In and Out bidding zones and data provider shall be recognised by the platform

4496 - The bidding zone couple, reserve type and data provider shall be consistent with the
4497 platform's pre-configured reference data

4498 - Region, if applicable, shall be recognised by the platform and consistent with pre-configured
4499 reference data

4500 10.16.4 MONITORING

4501 Timelines of allocation processes may vary significantly depending on border and contract
4502 type. Further, there is no guarantee that capacity will be allocated. Hence, no monitoring will
4503 be performed.

4504 10.16.5 PROCESSING

4505 No aggregation or other processing is performed on the central transparency platform.

4506 10.16.6 PUBLICATION

4507 10.16.6.1 FILTERING AND SORTING CRITERIA

4508 Data shall be visually accessed by selecting the following:

4509 - Country (selection is optional: If selected, region or bidding zones will be filtered to include
4510 only those that partially or completely cover the country)

4511 - In and Out bidding zones (selection is mandatory)

4512 - reserve type (selection is mandatory)

4513 - date or date range (selection is mandatory)

4514 - contract type (selection is mandatory)

4515 10.16.6.2 DISPLAY

4516 This data shall be displayed in the following section:

4517 - **Balancing / Cross-border / Allocation and use of cross-zonal capacity** (shared with GL
4518 EB article 12.3.h)

4519 The following attributes of data shall be displayed:

4520 - In and Out bidding zones

4521 - Region, if applicable

4522 - reserve type

4523 - unit of measurements: MW and currency

4524 - contract type

4525 - For all allocations whose delivery period fall, entirely or partially, within the selected date or
4526 date range, the following data is displayed:

4527 - contract type

4528 - delivery period

4529 - volumes of used and released capacity per MTU period during the delivery period

4530 - estimated realised costs and benefits per MTU period and direction across borders or
4531 as single values for the entire region and delivery period

4532

4533 10.17 APPROVED METHODOLOGIES [GL EB 12.3.J]

4534 10.17.1 DATA DESCRIPTION

4535 This data item consists of a PDF file per Region. No monitoring will be performed.

4536 10.17.2 PRE-CONFIGURATION

4537 ENTSO-E administrator shall be able to manage the reference data that indicates the single
4538 allowed Data Provider per Region for this data item.

4539 10.17.3 INTEGRATION

4540 Data Provider shall on the platform's web site, on the same page where these reports are
4541 published, be able to select a Region, upload a PDF file and indicate the date as of which the
4542 uploaded document entries into force.

4543 Platform shall validate combination of Region and Data Provider.

4544 10.17.4 PUBLICATION

4545 10.17.4.1 PUBLICATION BEHAVIOUR

4546 Documents are published immediately after upload.

4547 All versions shall be published.

4548 10.17.4.2 FILTERING AND SORTING CRITERIA

4549 End user shall be able to select data for display by specifying:

4550 - Country (selection is optional: If selected, Regions will be filtered to include only those that
4551 partially or completely cover the Country)

4552 - Region (mandatory)

4553 10.17.4.3 DISPLAY

4554 This data shall be displayed in the following section:

4555 **Balancing / Rules and Reports / Approved methodologies**

4556 The following attributes of data shall be displayed:

4557 - Region name

4558 - A link to download each uploaded PDF document

4559 - For each document, the date of entry into force

4560

4561 10.18 ALGORITHM [GL EB 12.3.K]

4562 10.18.1 DATA DESCRIPTION

4563 This data item consists of a PDF file per process (RR, mFRR, aFRR, IN). No monitoring will
4564 be performed.

4565 10.18.2 PRE-CONFIGURATION

4566 ENTSO-E administrator shall be able to manage the reference data that indicates the single
4567 allowed Data Provider per reserve type for this data item.

4568 10.18.3 INTEGRATION

4569 Data Provider shall on the platform's web site, on the same page where these reports are
4570 published, be able to select a reserve type, upload a PDF file and indicate the date as of
4571 which the uploaded document entries into force.

4572 Platform shall validate combination of reserve type and Data Provider.

4573 10.18.4 PUBLICATION

4574 10.18.4.1 PUBLICATION BEHAVIOUR

4575 Documents are published immediately after upload.

4576 All versions shall be published.

4577 10.18.4.2 FILTERING AND SORTING CRITERIA

4578 End user shall be able to select data for display by specifying:

4579 - Process type (mandatory)

4580

4581 10.18.4.3 DISPLAY

4582 This data shall be displayed in the following section:

4583 **Balancing / Rules and reports / Algorithm**

4584 The following attributes of data shall be displayed:

4585 - Process type

4586 - A link to download each uploaded PDF document

4587 - For each document, the date of entry into force

4588

4589 10.19 COMMON ANNUAL REPORT [GL EB 12.3.L]

4590 10.19.1 DATA DESCRIPTION

4591 This data item consists of a PDF file per year. No monitoring will be performed.

4592 10.19.2 PRE-CONFIGURATION

4593 ENTSO-E administrator shall be able to manage the reference data that indicates the single
4594 allowed Data Provider: ENTSO-E.

4595 10.19.3 INTEGRATION

4596 Data Provider shall on the platform's web site, on the same page where these reports are
4597 published, be able to upload a PDF file and indicate the year that the uploaded document
4598 refers to.

4599 10.19.4 PUBLICATION

4600 10.19.4.1 PUBLICATION BEHAVIOUR

4601 Documents are published immediately after upload.

4602 All versions shall be published.

4603 10.19.4.2 FILTERING AND SORTING CRITERIA

4604 End user shall be able to select data for display by specifying:

4605 - Year (optional)

4606 10.19.4.3 DISPLAY

4607 This data shall be displayed in the following section:

4608 **Balancing / Rules and reports / Common annual report**

4609 The following attributes of data shall be displayed:

4610 - A link to download each uploaded PDF document

4611 - For each document, the year it refers to

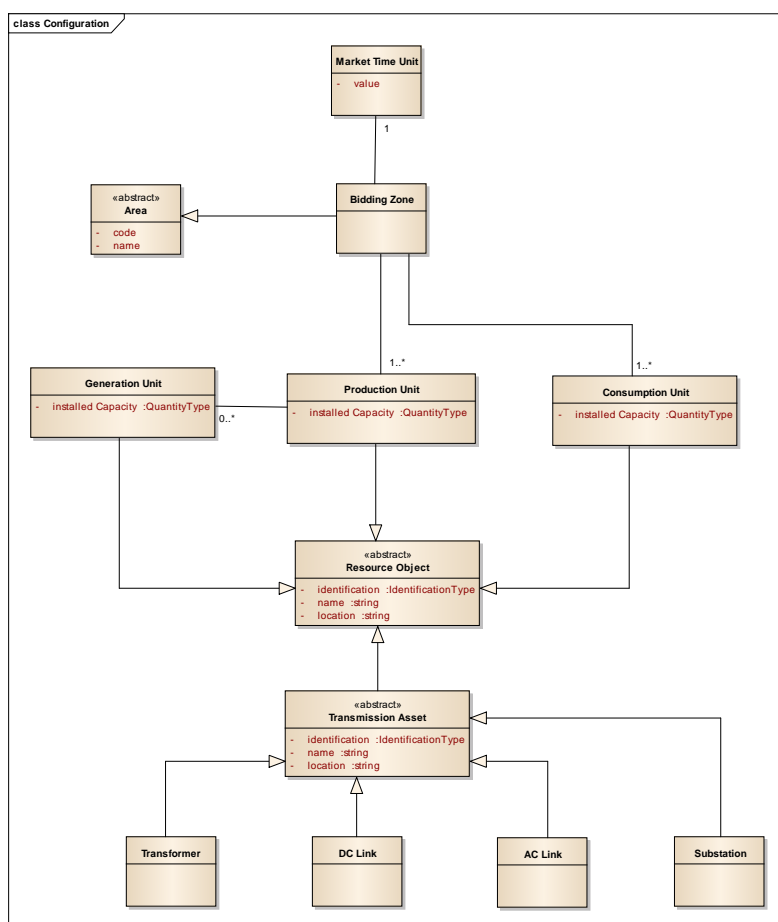
4612

11 OUTAGES

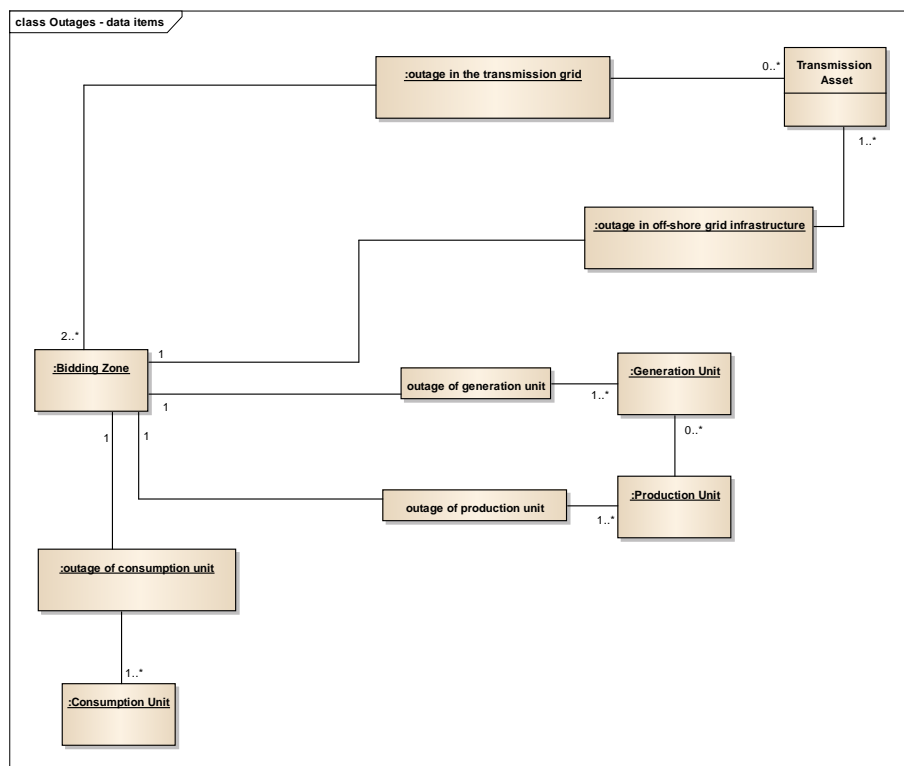
11.1 REQUIREMENTS COMMON TO ALL DATA ITEMS

11.1.1 FUNDAMENTAL ENTITIES

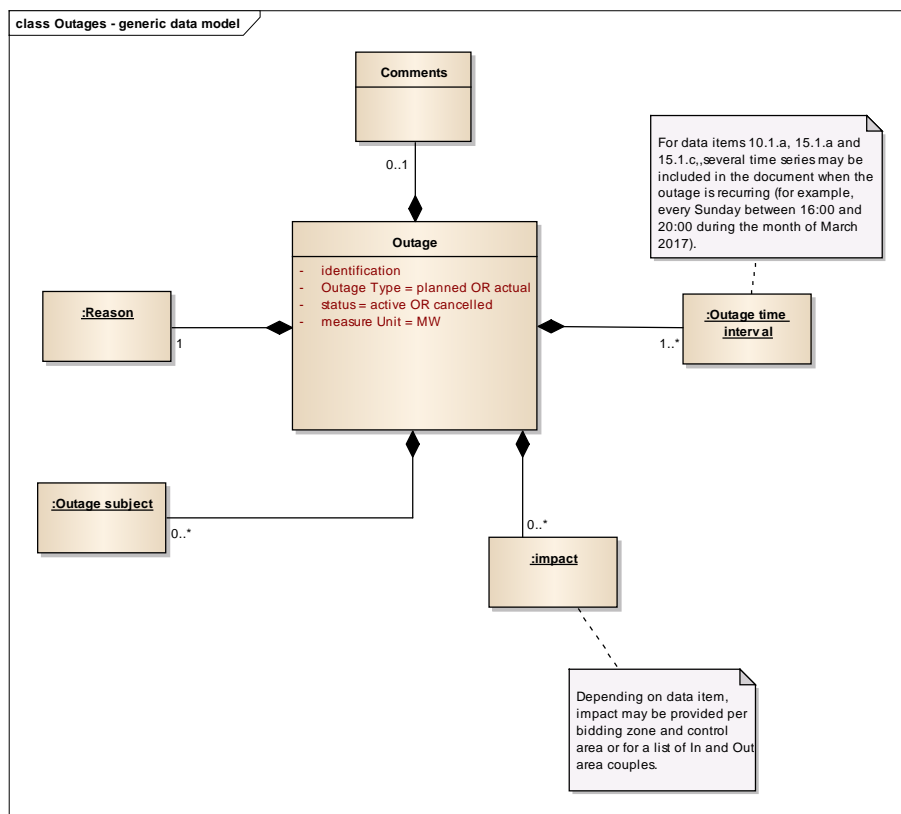
The following class diagram describes the fundamental entities to be taken into account within the scope of this document in order to pre-configure the platform.



- 4619 • For a given Bidding Zone, there is a Market Time Unit
- 4620 • There are four types of assets subject to outages: Transmission Assets, Generation Units,
- 4621 Production Units and Consumption Units. They are special types of Resource Objects
- 4622 • All assets have an identification a name and a location
- 4623 • A Transmission Asset can be a Transformer, a Substation, a DC Link or an AC Link
- 4624 • A Generation or Production Unit has a Production Type and an Installed Capacity and sits
- 4625 in a given Bidding Zone. Generation and Production Units are described in chapter 9.9
- 4626 • A Consumption Unit sits in a given Bidding Zone



- 4627
- 4628 The submitted document shall contain one Outage only, which may be recurring. The following
- 4629 generic data model is suggested:



4630

4631 11.1.2 PRE-CONFIGURATION

4632 The ENTSO-E platform administrator shall pre-configure the following data, before collecting
4633 information, for the purpose of validation:

4634 - [C-OTG-1] a list of Areas. Areas may be Bidding Zones and Bidding Zone Aggregations.

4635 The list of Bidding Zones is the same as for Generation, Load and Transmission domains.

4636 The Bidding Zone Aggregations are the same as for Transmission domain.

4637 - [C-OTG-8] for each Bidding Zone and Control Area, the allowed Data Provider, identified by
4638 a unique code. If need be, additionally the granularity of data item could be applied. This
4639 reference data is used also for the data items in the Load and Generation domains.

4640 - [C-OTG-2] values of Market Time Unit for a given Bidding Zone. This reference data is the
4641 same as for Generation, Load and Transmission domains.

- 4642 - [C-OTG-6] a list of In and Out Area couples. The In and Out Area couples are also used in
4643 the Transmission domain³⁴.
- 4644 - [C-OTG-7] for each In and Out Area couples, the allowed Data Providers, identified by
4645 unique codes.
- 4646 - [C-OTG-9] a list of countries and for each country, the corresponding Control Area(s). This
4647 is the same reference data as in Generation and Load domains. It will be used to facilitate
4648 search and filtering of published data by country and to aggregate capacity values for
4649 Outages of Consumption Units.
- 4650 - [C-OTG-10] for each Bidding Zone the country or countries that it covers. This is the same
4651 reference data as in Load domain. It will be used to facilitate search and filtering of published
4652 data by country.
- 4653 Data Providers shall record the following pre-configuration on the platform for the purpose of
4654 validation of submitted information:
- 4655 - [C-OTG-3] a list of Generation and Production Units in a given Bidding Zone, with their
4656 characteristics, refer to chapter 9.9 for details. This is the same reference data as for the
4657 Generation domain.
- 4658 - [C-OTG-4] a list of Consumption Units in a given Bidding Zone, with their characteristics.
4659 Refer to chapter 11.12 for further details.
- 4660 - [C-OTG-5] a list of Transmission Assets (Transformer, Substation, DC Link or AC Link) with
4661 their characteristics. Refer to chapter 11.11 for further details. This is the same reference
4662 data as for the Transmission domain.
- 4663 - [C-OTG-11] a list of Reasons for Outages: Maintenance, Failure, Shutdown and Other.

4664 11.1.3 ASSUMPTIONS

- 4665 Data can be submitted for correction or update at any time, even after the end of the
4666 outage/unavailability.
- 4667 Planned unavailability can be cancelled at any time.
- 4668 The frequency of submission is not fixed.
- 4669 No monitoring is performed. For this data domain, submission deadlines are irrelevant to the
4670 platform.

³⁴ Technical Profiles (where one of the Areas is a Bidding Zone Aggregation) constitute a subset of this list.

4671 11.1.4 INTEGRATION

4672 A change in actual availability cannot be transformed into a planned unavailability, and vice
4673 versa. A change in actual availability remains until the affected asset becomes
4674 available/operational.

4675 Planned unavailability may be cancelled, which is reflected as a status update. This is not
4676 permitted for changes in actual unavailability though. If a document has been submitted by
4677 mistake it may be withdrawn/revoked as outlined in chapter 5.1.2.

4678 Reason "Failure" is permitted for changes in actual availability only. Reason "Shutdown" is
4679 permitted for planned unavailability and changes in actual availability of Consumption,
4680 Production and Generation Units.

4681 ENTSO-E administrator may suppress all warnings triggered during validation by changing
4682 configuration.

4683

4684 11.1.5 PUBLICATION RULES

4685 Data items are displayed in table format only.

4686 Latest version of outage will be displayed. Previous versions will be available online, for
4687 example by expanding the view. If there is more than one version of the document, i.e. an
4688 update has been submitted, all versions shall be available with clear indication of version
4689 number.

4690 Submission date and time of each version will be available online, for example by expanding
4691 the view.

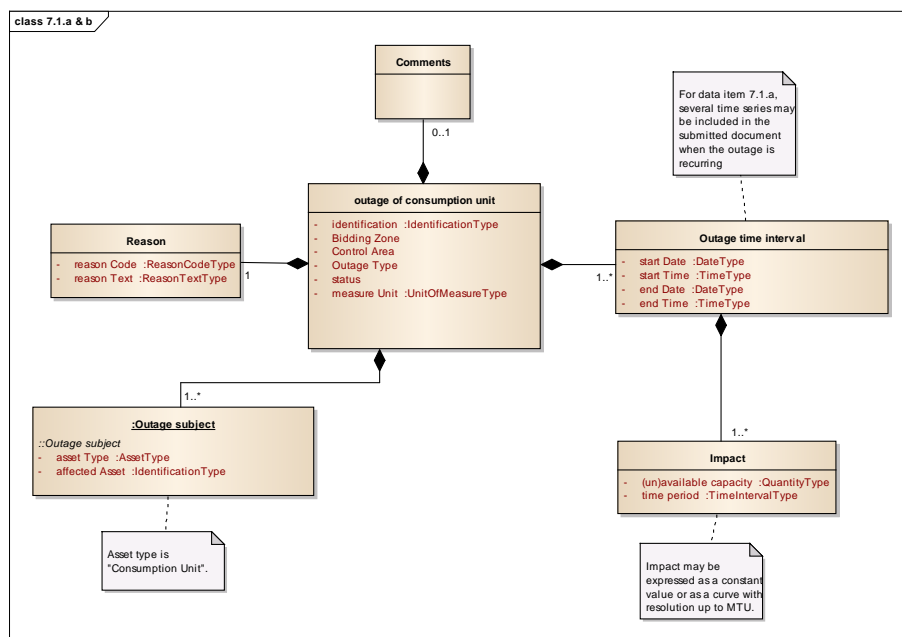
4692 11.1.6 DATA CONTAINER STATUS / DATA STATUS

4693 All data follows the "none / ready for publication" scheme.

4694

11.2 PLANNED UNAVAILABILITY OF CONSUMPTION UNITS [7.1.A]

11.2.1 DATA DESCRIPTION



A planned unavailability on consumption unit is described by the following:

- An identification of the outage, having a status (active or cancelled)
- Bidding Zone and Control Area
- The outage subject, defined by the asset Type (Consumption Unit) and its unique code
- The estimated unavailability time interval
- For each outage subject, the available or unavailable consumption capacity in Measure Unit
- The reason for the planned unavailability
- Optionally, a free-text comment may be provided
- Measure Unit is fixed to megawatt (MW)

4708 - Type of outage is "planned"

4709 11.2.2 PRE-CONFIGURATION

4710 For each data provider, an indicator whether available or unavailable capacity is being
4711 submitted.

4712 11.2.3 ASSUMPTIONS

4713 Unavailability of consumption units is submitted per Bidding Zone and Control Area.

4714 For a given unavailability, there will be only one Data Provider.

4715 Platform shall calculate unavailable capacity in bidding zone per market time unit, based on
4716 the submitted available or unavailable capacity values.

4717 Available or unavailable consumption capacity may vary during the outage time interval.

4718 11.2.4 INTEGRATION

4719 - The outage subject (asset) described in the document shall be recognised by the platform

4720 - Data Provider shall be consistent with the identified outage subject.

4721 - The Bidding Zone and Control Area described in the document shall be recognised by the
4722 platform

4723 - Data Provider shall be consistent with the identified Bidding Zone and Control Area

4724 - For a given consumption unit there may not be more than one active planned unavailability
4725 at any point in time

4726 11.2.5 PROCESSING

4727 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

4728 Platform establishes unavailable consumption capacity per MTU period based on the
4729 submitted available or unavailable capacity during the outage time interval and the installed
4730 capacity of the Consumption Unit (as recorded per chapter 11.12). In case MTU period only
4731 partially coincides with outage start or end time, the submitted available or unavailable
4732 consumption capacity will apply also for those MTU periods.

4733 The platform aggregates the unavailable consumption capacity in each Bidding Zone and
4734 Country by Market Time Unit period. A single value per Country, Bidding Zone and MTU period
4735 shall be calculated, taking all planned unavailability into account.

4736 Likewise, a single value shall be established per Country, Bidding Zone and MTU period taking
4737 all changes in actual availability into account (refer to chapter 11.3 regarding changes in actual
4738 availability of consumption units).

4739 Finally, a grand total per Country, Bidding Zone and MTU period shall be calculated, taking
4740 both planned unavailability and changes in actual availability into account.

4741 The unavailability marked for cancellation is marked as such in the platform database and not
4742 taken into account in the aggregation calculation.

4743 Pre-configuration [C-OTG-9] will be used to aggregate values per Country.

4744 11.2.6 PUBLICATION

4745 11.2.6.1 PUBLICATION BEHAVIOUR

4746 Aggregated values only shall be published, not individual unavailabilities.

4747 11.2.6.2 FILTERING AND SORTING CRITERIA

4748 Data shall be visually accessed by selecting the following:

4749 For all options:

4750 - Date or date range (selection is mandatory)

4751 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
4752 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
4753 accordingly)

4754 - Type of unavailability: planned, actual or both, selection is optional

4755 Unavailability for which time interval is either completely or partially on the selected date (or
4756 possibly date range) will be displayed.

4757 11.2.6.3 DISPLAY

4758 This data shall be displayed in the following section:

4759 - Load / Unavailability

4760 The following attributes of data shall be displayed:

4761 - Title

4762 - Measure Unit

4763 - MTU

- 4764 The following details are displayed for the selected date range:
- 4765 - Country or Bidding Zone
- 4766 - Start date and time
- 4767 - End date and time
- 4768 - The aggregated unavailable consumption capacity per MTU period, by country or Bidding
4769 Zone: Separate values for planned unavailability, changes in actual availability and a grand
4770 total
- 4771
- 4772

4773 **11.3 CHANGES IN ACTUAL AVAILABILITY OF**
4774 **CONSUMPTION UNITS [7.1.B]**

4775 **11.3.1 DATA DESCRIPTION**

4776 Data description is almost identical to data item “Planned unavailability of consumption units
4777 [7.1.a]”, refer to chapter 11.2. The differences are:

- 4778 - outage type is “actual”
- 4779 - status is always “active”
- 4780 - not more than one outage subject is permitted
- 4781 - only one time interval is permitted

4782 **11.3.2 PRE-CONFIGURATION**

4783 Same pre-configuration as for planned unavailability of consumption units [7.1.a] applies to
4784 this data item, refer to chapter 11.2.2.

4785 **11.3.3 ASSUMPTIONS**

- 4786 Unavailability of consumption units is submitted per Bidding Zone and Control Area.
- 4787 For a given unavailability, there will be only one Data Provider.

4788 **11.3.4 INTEGRATION**

- 4789 - The document date and time of the submitted document should be posterior to the start date
- 4790 and time of the unavailability. This will trigger a warning only.
- 4791 - For a given consumption unit there may not be more than one active change in actual
- 4792 availability at any point in time.
- 4793 All other validations are the same as for planned outages of consumption units, refer to chapter
- 4794 11.2.4.

4795 **11.3.5 PROCESSING**

4796 Same processing as for planned outages of consumption units, refer to chapter 11.2.5.

4797 **11.3.6 PUBLICATION**

4798 **11.3.6.1 PUBLICATION BEHAVIOUR**

4799 Same processing as for planned outages of consumption units, refer to chapter 11.2.6.

4800 **11.3.6.2 FILTERING AND SORTING CRITERIA**

4801 Data shall be displayed together with planned unavailability on the same page. Filter and
4802 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
4803 unavailability (planned or actual) as a criterion. Refer to section 11.2.6.2.

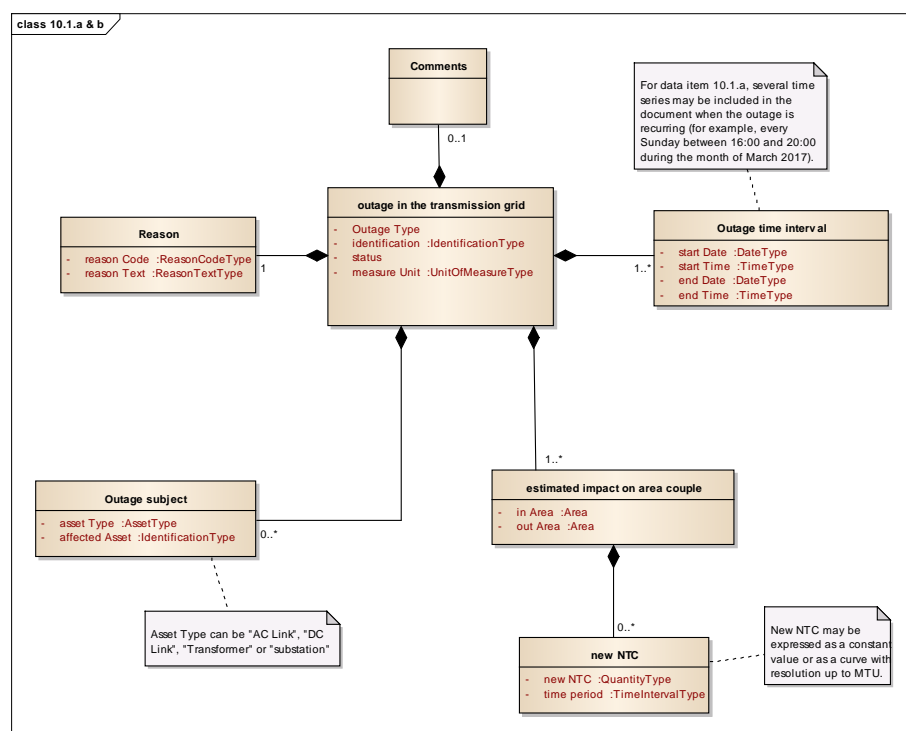
4804 **11.3.6.3 DISPLAY**

4805 Data shall be displayed together with planned unavailability on the same page. The type of
4806 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

4818 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every
4819 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series
4820 may be included in the document.

4821 - One or several In and Out Area couples that are impacted, along with the new NTC, given in
4822 Measure Unit, for each couple. New NTC may be expressed as a constant value or as a curve
4823 with resolution up to MTU. If the outage occurs in a region where flow-based allocations occur,
4824 inclusion of new NTC is optional.

4825 - Measure Unit is fixed to megawatt (MW)

4826 - For this data item, outage type is "planned".

4827 - The reason for the planned outage

4828 - Optionally, a free-text comment may be included³⁵

4829 11.4.2 PRE-CONFIGURATION

4830 For this data item, there is no additional pre-configuration.

4831 11.4.3 ASSUMPTIONS

4832 For outages on interconnectors, there is a memorandum of understanding between Data
4833 Providers that governs who submits data to central platform, to avoid a situation with more
4834 than one data provider submitting data referring to the same outage.

4835 11.4.4 INTEGRATION

4836 - If included in the document, the list of outage subjects (assets) shall be recognised by the
4837 platform.

4838 - The list of In and Out Area couples described in the document shall be recognised by the
4839 platform, as per pre-configuration [C-OTG-6]

4840 - Data Provider shall be consistent with the In and Out Area couples, as per pre-configuration
4841 [C-OTG-7]

4842 - Data Provider shall be consistent with the outage subject(s).

4843 - The outage time intervals may not overlap

4844 - The time interval describing a new NTC must fall within an outage time interval

³⁵ This includes the explanation of the case when two parallel AC Links are given in the list of affected assets

4845 - For a transmission asset, there may not be more than one active planned unavailability at
4846 any point in time for a specific direction on a specific border.

4847 11.4.5 PROCESSING

4848 Outages marked for cancellation shall be marked as cancelled in the platform database.

4849 11.4.6 PUBLICATION

4850 11.4.6.1 PUBLICATION BEHAVIOUR

4851 [PR-91a-4] An outage marked for cancellation at submission shall be accessible on the
4852 platform but marked explicitly as cancelled

4853 11.4.6.2 FILTERING AND SORTING CRITERIA

4854 Data shall be visually accessed by selecting the following:

- 4855 - Date or date range (selection is mandatory)
- 4856 - Country (selection is optional: If selected, In and/or Out Areas that at least partially cover the
4857 Country will be used as filtering criteria)
- 4858 - In Area (selection is optional)
- 4859 - Out Area (selection is optional)
- 4860 - Type of Asset (selection is optional)
- 4861 - Type of outage: planned or actual, selection is optional

4862 Outages for which outage time interval falls either completely or partially on the selected date
4863 (or possibly date range) will be displayed.

4864 11.4.6.3 DISPLAY

4865 This data shall be displayed in the following section:

4866 - **Transmission Grid / Unavailability**

4867 The following attributes of data shall be displayed:

- 4868 - Title

4869 For each outage that falls within the selected date or date range, the following details are
4870 displayed:

- 4871 - Measure Unit

- 4872 - Status (active or cancelled)
- 4873 - Type of outage (planned or actual)
- 4874 - If provided, the outage subjects with links to pages on central platform that provide full details;
- 4875 type, name and location. This is displayed in a list if more than one asset has been declared.
- 4876 - The reason for the outage
- 4877 - Comments, if available
- 4878 The following information is provided for each declared time interval that falls within the
- 4879 selected date or date range:
- 4880 - Start date and time
- 4881 - End date and time
- 4882 - The In and Out Area(s) and the new NTC. If new NTC is expressed as a curve, it shall be
- 4883 possible to expand the view so time periods and NTC values are displayed in a table and in a
- 4884 chart
- 4885

4886 11.5 CHANGES IN ACTUAL AVAILABILITY IN THE 4887 TRANSMISSION GRID [10.1.B]

4888 11.5.1 DATA DESCRIPTION

4889 Data description is almost identical to data item “Planned unavailability in the transmission
4890 grid [10.1.a]”, refer to chapter 11.2. The differences are:

- 4891 - outage type shall be “actual”
- 4892 - only one time interval is permitted
- 4893 - status is always “active”

4894 Note that several outage subjects are permitted though, also for this data item.

4895 11.5.2 PRE-CONFIGURATION

4896 For this data item, there is no additional pre-configuration.

4897 11.5.3 ASSUMPTIONS

4898 Reasons for the outage can be updated D+1 after the start of the outage.

4899 For outages on interconnectors, there is a memorandum of understanding between Data
4900 Providers that governs who submits data to central platform, to avoid a situation with more
4901 than one data provider submitting data referring to the same outage.

4902 11.5.4 INTEGRATION

4903 - The document date and time of the submitted document should be posterior to the start date
4904 and time of the outage. This validation will trigger a warning only.

4905 - For a transmission asset, there may not be more than one change in actual availability at any
4906 point in time for a specific direction on a specific border.

4907 All other validations are the same as for planned unavailability of transmission infrastructure,
4908 refer to chapter 11.4.4.

4909 11.5.5 PROCESSING

4910 No processing is performed on this data item.

4911 11.5.6 PUBLICATION

4912 11.5.6.1 PUBLICATION BEHAVIOUR

4913 No specific publication behaviour applies to this data item.

4914 11.5.6.2 FILTERING AND SORTING CRITERIA

4915 Data shall be displayed together with planned outages on the same page. Filter and sorting
4916 criteria are the same as for planned outages. It shall be possible to use type of outage
4917 (planned or actual) as a criterion. Refer to section 11.4.6.2.

4918 11.5.6.3 DISPLAY

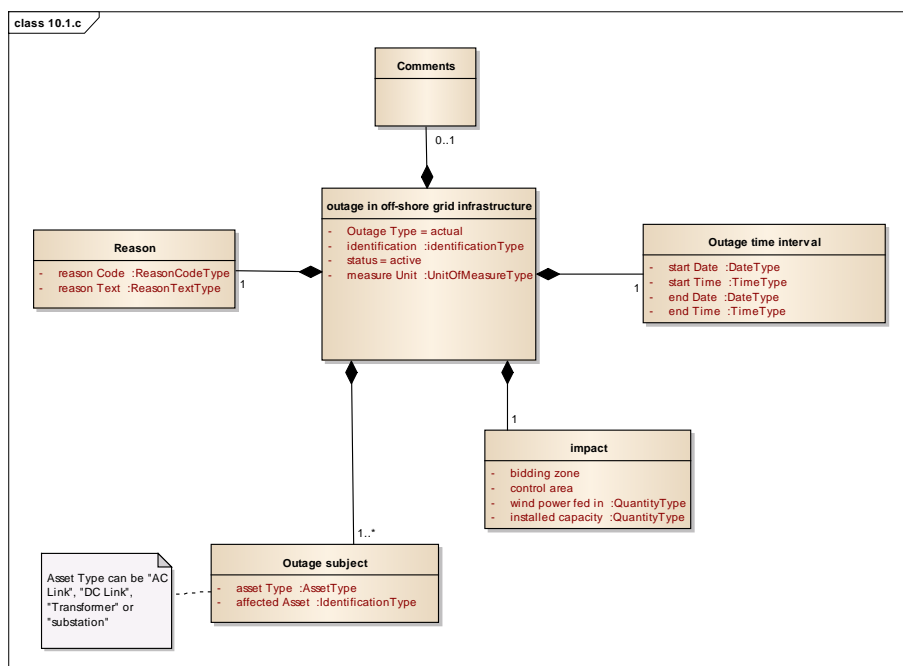
4919 Data shall be displayed together with planned outages on the same page. The type of outage
4920 (planned or actual) shall be displayed. Refer to section 11.4.6.3.

4921

11.6 CHANGES IN ACTUAL AVAILABILITY OF OFF-SHORE GRID INFRASTRUCTURE [10.1.C]

11.6.1 DATA DESCRIPTION

This item can be described by the following class diagram:



A change in the actual availability of off-shore grid infrastructure is described by the following:

- An identification of the outage
- A list of outage subjects, defined by the asset Type (AC Link, DC Link, Transformer or substation) and the identification of the affected Asset
- The outage time interval
- Bidding Zone and Control Area
- Installed generation capacity
- Wind power fed in at the time of the change in the availability

4935 - Measure Unit is fixed to megawatt (MW)

4936 - Outage type is fixed to "actual"

4937 - Status is fixed to "active"

4938 - The reason for the outage

4939 - Optionally, a free-text comment may be provided

4940 11.6.2 PRE-CONFIGURATION

4941 For this data item, there is no additional pre-configuration.

4942 11.6.3 ASSUMPTIONS

4943 Outage of Generation units and Production Units will be accounted for in separate document,
4944 as per chapters 11.8 and 11.10.

4945 11.6.4 INTEGRATION

4946 - The outage subjects (assets) described in the document shall be recognised by the platform.

4947 - The Data Provider shall be consistent with the identified outage subjects.

4948 - The document date and time of the submitted document should be posterior to the start date
4949 and time of the outage. This validation will trigger a warning only.

4950 11.6.5 PROCESSING

4951 No processing is performed on this data item.

4952 11.6.6 PUBLICATION

4953 11.6.6.1 PUBLICATION BEHAVIOUR

4954 No specific publication behaviour applies to this data item.

4955 11.6.6.2 FILTERING AND SORTING CRITERIA

4956 Data shall be visually accessed by selecting the following:

4957 - Date or date range (selection is mandatory)

4958 - Country or Bidding Zone (selection is mandatory); if Country is selected, pre-configuration
4959 [C9] will be used to identify the corresponding Control Area and filter Outages accordingly)

4960 Outages for which time interval falls either completely or partially on the selected date (or
4961 possibly date range) will be displayed.

4962 11.6.6.3 DISPLAY

4963 Data shall be displayed in the following section:

4964 - **Transmission Grid / Unavailability of off-shore grid**

4965 The following attributes of data shall be displayed:

4966 - Title

4967 - Measure Unit

4968 For each outage that falls within the selected date or date range, the following details are
4969 displayed:

4970 - Country or Bidding Zone

4971 - Status (always "active")

4972 - Type of outage (always "actual")

4973 - The outage subjects with links to pages on central platform that provide full details; asset
4974 type, name, location. This is provided in a list if more than one asset has been declared.

4975 - The reason for the outage

4976 - Comments, if available

4977 - Start date and time

4978 - End date and time

4979 - installed generation capacity

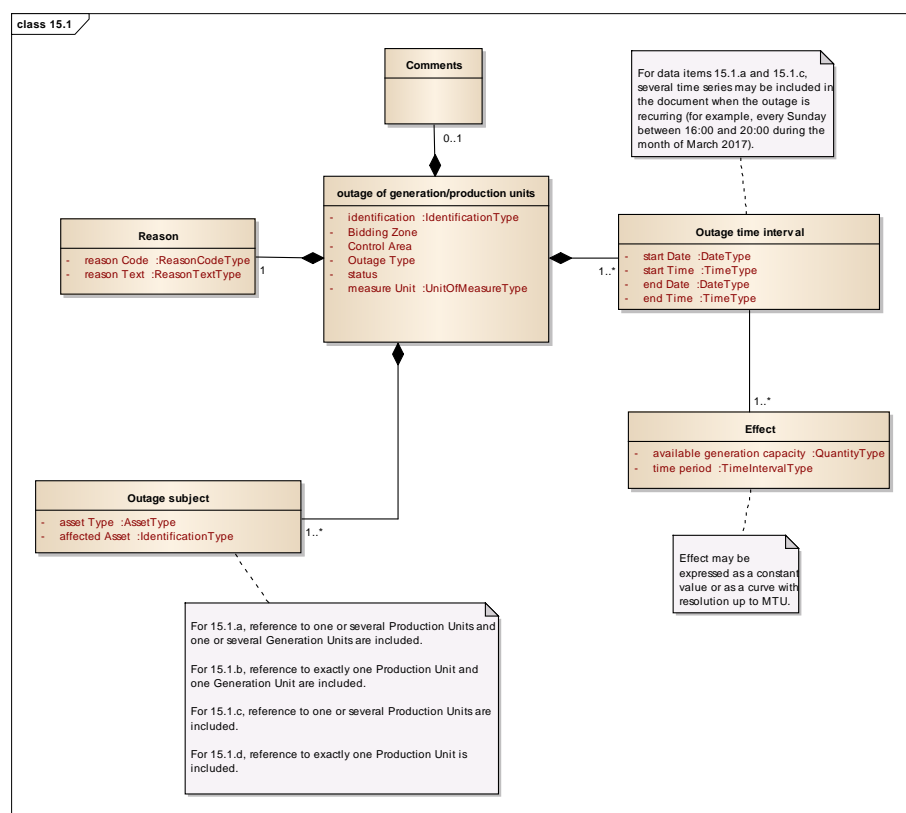
4980 - Wind power fed in

4981

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

- 4991 - The outage subject, defined by the asset Type (Generation Unit) and its Unique Code
- 4992 - The Production Unit that the Generation Unit belongs to, defined by the asset Type
- 4993 (Production Unit) and its Unique Code
- 4994 - The estimated outage time intervals, possibly given in a repeated pattern manner (e.g. every
- 4995 day of a given week, from 20:00 to 22:00). This implies that an arbitrary number of time series
- 4996 may be included in the document.
- 4997 - The estimated available generation capacity in Measure Unit
- 4998 - The reason for the planned outage
- 4999 - Measure Unit is fixed to megawatt (MW)
- 5000 - Optionally, a free-text comment may be provided
- 5001 **11.7.2 PRE-CONFIGURATION**
- 5002 For select control areas, the validation against overlapping outages may be disabled.
- 5003 **11.7.3 ASSUMPTIONS**
- 5004 Unavailability of generation units is submitted per Bidding Zone and Control Area. For a given
- 5005 unavailability, there will be only one Data Provider.
- 5006 Installed capacity of generation unit is recorded in Master Data.
- 5007 **11.7.4 INTEGRATION**
- 5008 - The outage subject (asset) described in the document shall be recognised by the platform
- 5009 - Outage subject shall be consistent with Bidding Zone and Control Area
- 5010 - Data Provider shall be consistent with Bidding Zone and Control Area
- 5011 - Data Provider shall be consistent with the identified outage subject
- 5012 - For a given generation unit there may not be more than one active planned unavailability at
- 5013 any point in time.
- 5014 **11.7.5 PROCESSING**
- 5015 Unavailability marked for cancellation shall be marked as cancelled in the platform database.
- 5016 Platform deduces Name of Generation Unit, location, production type and installed generation
- 5017 capacity based on the submitted Unique Code.

5018 Platform deduces Name of Production Unit based on the submitted Unique Code of the
5019 Production Unit.

5020 11.7.6 PUBLICATION

5021 11.7.6.1 PUBLICATION BEHAVIOUR

5022 An outage marked for cancellation at submission shall be accessible on the platform but
5023 marked explicitly as cancelled

5024 11.7.6.2 FILTERING AND SORTING CRITERIA

5025 Data shall be visually accessed by selecting the following:

5026 - Date or date range (selection is mandatory)

5027 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
5028 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
5029 accordingly)

5030 - Type of unavailability: planned or actual, selection is optional

5031 - Production or Generation unit, selection is optional

5032 Unavailability for which time interval falls either completely or partially on the selected date (or
5033 possibly date range) will be displayed.

5034 11.7.6.3 DISPLAY

5035 This data shall be displayed in the following section:

5036 - **Generation / Unavailability**

5037 There shall be a link to the section Generation / List of Production Units and Installed Capacity,
5038 refer to 9.3.8.2.

5039 - Title

5040 - Measure Unit (MW)

5041 For each outage that falls within the selected date or date range, the following details are
5042 displayed:

5043 - Status (active or cancelled)

5044 - The outage subject(s) with link to page on central platform that provide full details; Production
5045 Type, Production and Generation Unit names and installed capacity.

- 5046 - The reason for the outage
- 5047 - Comments, if available
- 5048 - Country or Bidding Zone
- 5049 - Type of unavailability (planned or actual)
- 5050 The following information is provided for each declared time interval that falls within the
- 5051 selected date or date range:
- 5052 - Start date and time
- 5053 - End date and time
- 5054 - The available generation capacity per MTU period
- 5055

5056 **11.8 CHANGES IN ACTUAL AVAILABILITY OF GENERATION**
5057 **UNITS [15.1.B]**

5058 **11.8.1 DATA DESCRIPTION**

5059 Data description is almost identical to data item “Planned unavailability of generation units
5060 [15.1.a]”, refer to chapter 11.6. The differences are:

- 5061 - outage type shall be “actual”
- 5062 - only one time interval is permitted
- 5063 - status is always “active”
- 5064 - not more than one generation unit and production unit included

5065 **11.8.2 PRE-CONFIGURATION**

5066 For select control areas, the validation against overlapping outages may be disabled.

5067 **11.8.3 ASSUMPTIONS**

- 5068 Unavailability of generation units is submitted per Bidding Zone and Control Area.
- 5069 For a given unavailability, there will be only one Data Provider.
- 5070 Installed capacity of generation unit is recorded in Master Data.

5071 **11.8.4 INTEGRATION**

- 5072 The document date and time of the submitted document should be posterior to the start date
5073 and time of the unavailability. This validation shall trigger a warning only.
- 5074 -For a given generation unit there may not be more than one active change in actual availability
5075 at any point in time.
- 5076 All other validations are the same as for planned unavailability of generation units, refer to
5077 chapter 11.7.4.

5078 **11.8.5 PROCESSING**

- 5079 Platform deduces Name of Generation Unit, location, production type and installed generation
5080 capacity based on the submitted Unique Code.
- 5081 Platform deduces Production Unit and retrieves its Name based on reference data described
5082 in 9.9. The submitted Unique Code of Production Unit is used as key.

5083 11.8.6 PUBLICATION

5084 11.8.6.1 PUBLICATION BEHAVIOUR

5085 No specific publication behaviour applies to this data item.

5086 11.8.6.2 FILTERING AND SORTING CRITERIA

5087 Data shall be displayed together with planned unavailability on the same page. Filter and
5088 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
5089 unavailability (planned or actual) as a criterion. Refer to section 11.7.6.2.

5090 11.8.6.3 DISPLAY

5091 Data shall be displayed together with planned unavailability on the same page. The type of
5092 unavailability (planned or actual) shall be displayed. Refer to section 11.7.6.3.

5093

5094 **11.9 PLANNED UNAVAILABILITY OF PRODUCTION UNITS**
5095 **[15.1.c]**

5096 **11.9.1 DATA DESCRIPTION**

5097 Data description is almost identical to data item “Planned unavailability of generation units
5098 [15.1.a]”, refer to chapter 11.6. The difference is that Asset Type is Production Unit.

5099 **11.9.2 PRE-CONFIGURATION**

5100 For select control areas, the validation against overlapping outages may be disabled.

5101 **11.9.3 ASSUMPTIONS**

5102 Unavailability of Production Units is submitted per Bidding Zone and Control Area.

5103 For a given unavailability, there will be only one Data Provider.

5104 Installed capacity per Production Unit has been recorded in Master Data.

5105 **11.9.4 INTEGRATION**

5106 - The outage subject (asset) described in the document shall be recognised by the platform

5107 - Outage subject shall be consistent with Bidding Zone and Control Area

5108 - Data Provider shall be consistent with Bidding Zone and Control Area

5109 - Data Provider shall be consistent with the identified outage subject

5110 - For a given production unit there may not be more than one active planned unavailability at
5111 any point in time. Validation shall be carried out separately for production unit and its
5112 generation units, i.e. overlaps between outages of a production unit and any of its generation
5113 units are permitted.

5114 **11.9.5 PROCESSING**

5115 Unavailability marked for cancellation shall be marked as cancelled in the platform database.

5116 Platform deduces Name of Production Unit, location, production type and installed generation
5117 capacity based on the submitted Unique Code.

5118 11.9.6 PUBLICATION

5119 11.9.6.1 PUBLICATION BEHAVIOUR

5120 An outage marked for cancellation at submission shall be accessible on the platform but
5121 marked explicitly as cancelled.

5122 11.9.6.2 FILTERING AND SORTING CRITERIA

5123 Data shall be visually accessed by selecting the following:

5124 - Date or date range (selection is mandatory)

5125 - Country or Bidding Zone (selection is mandatory – if Country is selected, pre-configuration
5126 [C-OTG-9] will be used to identify the corresponding Control Area and filter Outages
5127 accordingly)

5128 - Type of unavailability: planned or actual, selection is optional

5129 - Production unit, selection is optional

5130 Unavailability for which time interval falls either completely or partially on the selected date (or
5131 possibly date range) will be displayed.

5132 11.9.6.3 DISPLAY

5133 This data shall be displayed in the following section:

5134 - **Generation / Unavailability**

5135 There shall be a link to the section Generation / List of Production Units and Installed Capacity,
5136 refer to 9.3.8.2.

5137 - Title

5138 - Measure Unit (MW)

5139 For each outage that falls within the selected date or date range, the following details are
5140 displayed:

5141 - Status (active or cancelled)

5142 - The outage subject(s) with link to page(s) on central platform that provide full details;
5143 Production Type, Production Unit name and installed capacity.

5144 - The reason for the outage

5145 - Comments, if available

- 5146 - Country or Bidding Zone
- 5147 - Type of unavailability (planned or actual)
- 5148 The following information is provided for each declared time interval that falls within the
- 5149 selected date or date range:
- 5150 - Start date and time
- 5151 - End date and time
- 5152 - The available generation capacity per MTU period
- 5153

5154 11.10 CHANGES IN ACTUAL AVAILABILITY OF PRODUCTION 5155 UNITS [15.1.D]

5156 11.10.1 DATA DESCRIPTION

5157 Data description is almost identical to data item “Planned unavailability of production units
5158 [15.1.c]”, refer to chapter 11.9. The differences are:

- 5159 - outage type shall be “actual”
- 5160 - only one time interval is permitted
- 5161 - status is always “active”
- 5162 - not more than one production unit included

5163 11.10.2 PRE-CONFIGURATION

5164 For select control areas, the validation against overlapping outages may be disabled.

5165 11.10.3 ASSUMPTIONS

- 5166 Installed capacity per Production Unit has previously been recorded in Master Data.
- 5167 Unavailability of production units is submitted per Bidding Zone and Control Area.
- 5168 For a given unavailability, there will be only one Data Provider.

5169 11.10.4 INTEGRATION

5170 The document date and time of the submitted document should be posterior to the start date
5171 and time of the unavailability. This validation shall trigger a warning only.

5172 For a given production unit there may not be more than one active change in actual availability
5173 at any point in time. Validation shall be carried out separately for production unit and its
5174 generation units, i.e. overlaps between outages of a production unit and any of its generation
5175 units are permitted.

5176 All other validations are the same as for planned unavailability of generation units, refer to
5177 chapter 11.7.4.

5178 11.10.5 PROCESSING

5179 Platform deduces Name of Production Unit, location, production type and installed generation
5180 capacity based on the submitted Unique Code.

5181 11.10.6 PUBLICATION

5182 11.10.6.1 PUBLICATION BEHAVIOUR

5183 No specific publication behaviour applies to this data item.

5184 11.10.6.2 FILTERING AND SORTING CRITERIA

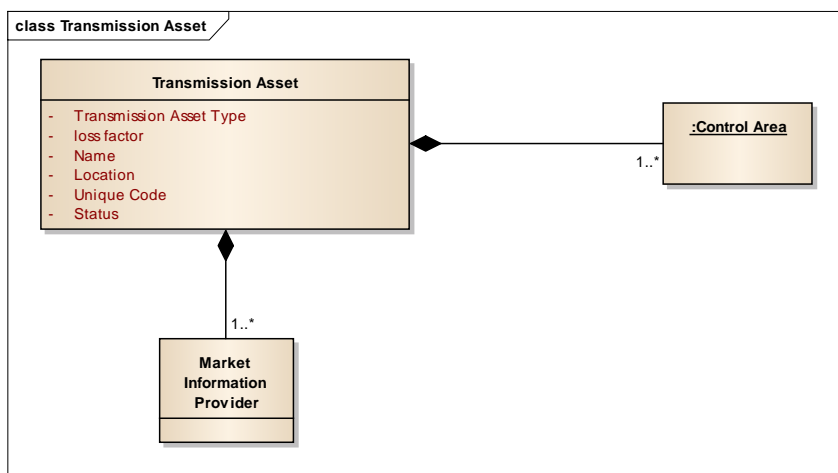
5185 Data shall be displayed together with planned unavailability on the same page. Filter and
5186 sorting criteria are the same as for planned unavailability. It shall be possible to use type of
5187 unavailability (planned or actual) as criteria. Refer to section 11.9.6.2.

5188 11.10.6.3 DISPLAY

5189 Data shall be displayed together with planned unavailability on the same page. The type of
5190 unavailability (planned or actual) shall be displayed. Refer to section 11.9.6.3.

5191

11.11 TRANSMISSION ASSETS



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Reference data for transmission assets will have similar structure and maintenance mechanism as generation and production units, refer to chapter 9.9.

Just like generation units, transmission assets will have a status (commissioned, decommissioned or cancelled), a unique code, name and location. Additionally, transmission assets will have the attribute transmission asset type (AC Link, DC Link, Transformer or Substation). Assets of type AC or DC link will optionally have a loss factor associated with them.

As opposed to generation units, a transmission asset may have several Data Providers.

Note that Bidding Zone is *not* an attribute of transmission asset.

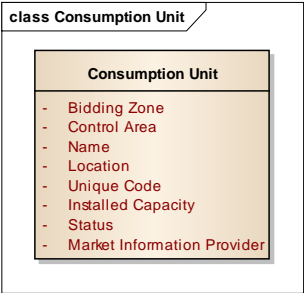
Note that more than one Control Area may be associated with a transmission asset.

Transmission assets of type DC link associated with two or more control areas shall be visible for all registered users. All transmission assets shall be visible for the Data Provider. The data shall be available in the following section on the website:

- Transmission / Transmission Assets

It shall be possible to filter the transmission assets by Control Area or Country.

5210 11.12 CONSUMPTION UNITS

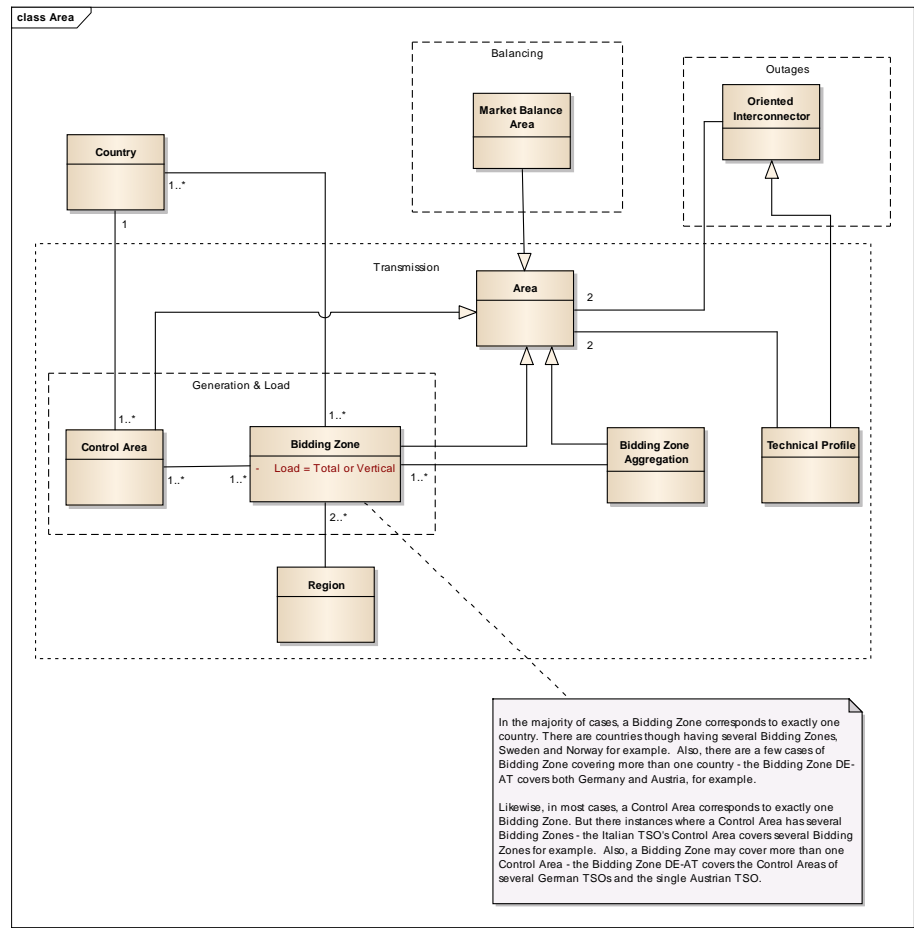


- 5211
- 5212 Reference data for consumption units will have similar structure and maintenance
- 5213 mechanism as generation units, refer to chapter 9.9. Just like generation units, consumption
- 5214 units will have a status (commissioned, decommissioned or cancelled), bidding area, control
- 5215 area, a unique code, name and location. Installed capacity is mandatory.
- 5216 Similar to generation units, a consumption unit will have only one Data Provider.
- 5217 Consumption Units shall be displayed [toward Data Providers](#) in the following section on the
- 5218 website:
- 5219 - **Load / Consumption Units**
- 5220 It shall be possible to filter the consumption units by Control Area, Bidding Zone or Country.
- 5221

5222 12REFERENCE DATA

5223 The purpose of this chapter is to provide a consolidated view of the reference data that have
5224 been considered in the six domains Generation, Load, Transmission, Balancing, Outages
5225 and Congestion Management. No distinctions are being made between master, configuration
5226 or reference data.

5227 12.1 AREAS



5229 Bidding Zone is used in all domains except Balancing, where Market Balance Area is used
5230 instead.

5231 A Control Area never overlaps another Control Area. Likewise, a Bidding Zone never
5232 overlaps another Bidding Zone.

5233 In the Transmission domain, there are Regions and aggregation of Bidding Zones. An Area
5234 may consist of either a single Bidding Zone or a Bidding Zone Aggregation. Also in
5235 Transmission domain, a Technical Profile consists of two Areas with a direction. See section
5236 7.1 for further details.

5237 For Outages, there are Oriented Interconnectors that consist of two Areas with a direction.
5238 See also section 11.1.2.

5239 12.2 ASSETS

5240 There are four types of assets: Generation Units, Production Units, Consumption Units and
5241 Transmission Assets. Refer to diagram in section 11.1.1.

5242 More information on Generation and Production Units is available in section 9.9.
5243 Consumption Units are detailed in 11.12. Transmission Assets are described in section
5244 11.11.

5245 12.3 TRANSMISSION CAPACITY ALLOCATIONS AND 5246 CAPACITY PRODUCTS

5247 Capacity Allocations and products are relevant to the Transmission domain. Capacity
5248 Allocations can be either explicit or implicit. Capacity products are associated with Capacity
5249 Allocations and are characterised by two Areas with a direction and a Contract Type, and
5250 additionally for explicit allocations a Classification Category and a Classification Sequence.

5251 Further details on Transmission Capacity Allocations and Capacity Products are available in
5252 chapters 7.1.1 and 7.28.

5253 12.4 PROCESSES, RESERVES AND PRICE TYPES

5254 In the Balancing domain, there are constraints on the valid combinations of Market Balance
5255 Area, Reserves and Price Type. Full details are available in chapters 10.1.1 and 10.1.2. For
5256 some data items also Contract Types may be relevant. Contract Types are the same as in
5257 Transmission domain.

5258 12.5 TIME UNITS

5259 In all domains except Balancing, Market Time Units are used and depend on Bidding Zone or
5260 Bidding Zone Aggregation. For Balancing, Balancing Time Units are used and depend on
5261 Market Balance Area.

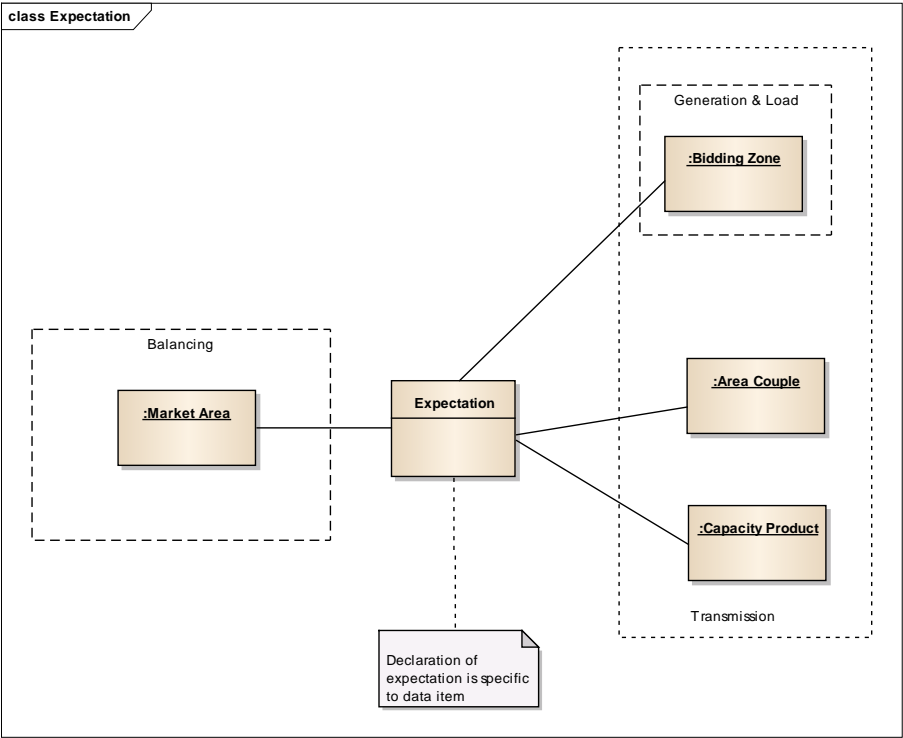
5262 12.6 ACTIONS AND REASONS

5263 For Congestion Management, different sets of actions are foreseen. Further details provided
5264 in chapter 8.1.2.

5265 For Outages, a single set of reason codes is foreseen, common to all kinds of Outages.
5266 Details are provided in chapter 11.1.2.

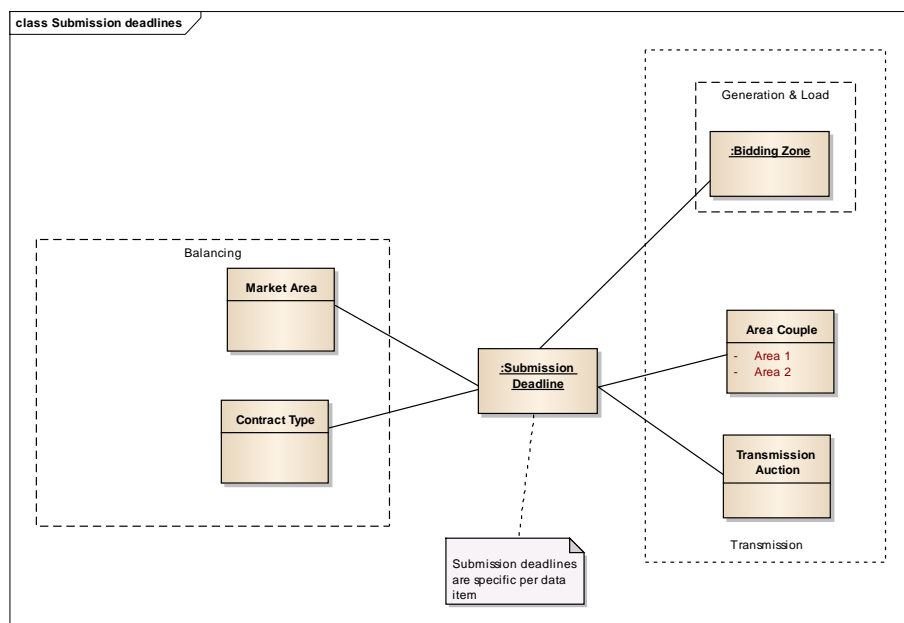
5267 12.7 DATA ITEMS

5268 12.7.1 EXPECTATION OF DATA



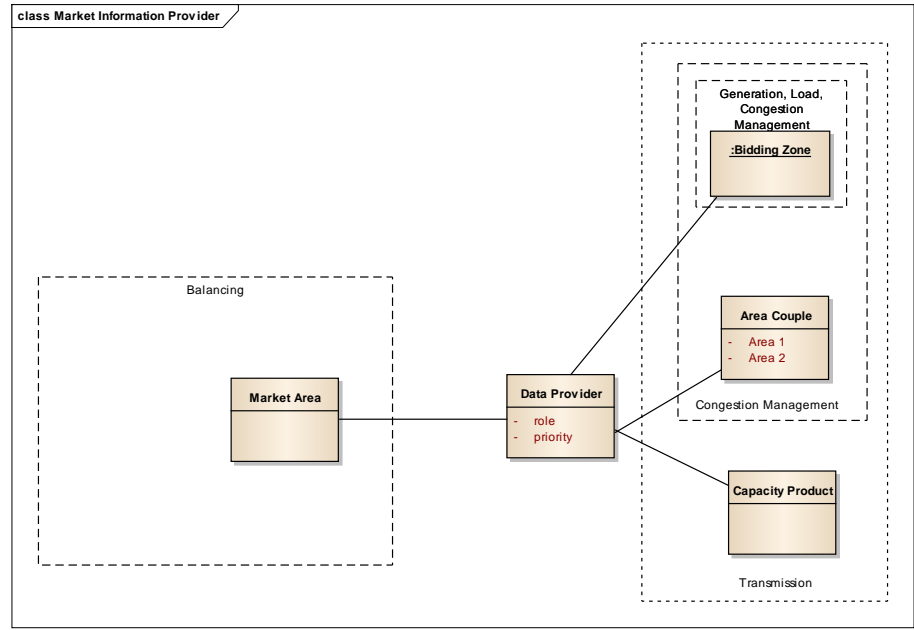
- 5269
- 5270 Whether data is expected or not is declared per Bidding Zone for data items in the domains
- 5271 Generation and Load. In the Transmission domain, expectation is declared per Bidding Zone,
- 5272 Bidding Zone couple or per Technical Profile. For some Transmission data items related to
- 5273 capacity allocations, expectation is determined per capacity product.
- 5274 For data items in the Balancing domain, expectation is declared per Market Balance Area.

5275 12.7.2 SUBMISSION DEADLINES



- 5276
- 5277 For data items in Generation and Load domains, submission deadlines are determined by
- 5278 Bidding Zone.
- 5279 In Transmission domain, deadlines are defined per Bidding Zone or couple of Bidding Zones.
- 5280 For some Transmission data items related to capacity allocations, submission deadlines are
- 5281 set per capacity allocation instance.
- 5282 For data items in the Balancing domain, submission deadlines are defined per Market
- 5283 Balance Area and for some data items also per Contract Type.

5284 12.7.3 ALLOWED DATA PROVIDERS



- 5285
- 5286 Data Providers have a priority and a role – those attributes are relevant in the Transmission
- 5287 domain only.
- 5288 In the domains Generation and Load, the allowed Data Providers are associated with the
- 5289 Control Area and Bidding Zone.
- 5290 In the Transmission and Congestion Management domains, the allowed Data Providers are
- 5291 associated with Bidding Zone, a couple of Bidding Zones or a Technical Profile. For some
- 5292 data items related to Transmission capacity allocations, allowed Data Providers are identified
- 5293 per Capacity Allocation.
- 5294 In the Balancing domain, the allowed Data Provider is associated with Market Balance Area.