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**Business Requirements Specification**  
**for the**  
**Capacity Allocation Mechanism (CAM)**  
**Network Code**  
**and the**  
**Congestion Management Procedures (CMP)**  
**Guidelines**

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**Version 25 2022-01-13**

10 **Log of changes**

Change	Date of change	Issuer of change
<p>Inserted clarification of the Common Data Exchange Solutions</p> <p>Inserted the Common Data Exchange Solution Table</p>	12 April 2016	ENTSOG
<p>V17 Updated clarification of the Common Data Exchange Solutions</p> <p>Updated the Common Data Exchange Solution Table</p>	22 June 2016	ENTSOG
<p>Updated the process descriptions on Surrender Capacity (Surrender only via Auction Office + Information about Surrendered Capacity sold by TSO to NU) – section 3.2.3.1.1, 3.3.1.5, 3.3.1.12, 3.2.5.1, 3.5.5</p> <p>Reworded the description on Manage Credit limit – section 3.2.6</p> <p>Updated the Network User Workflow – section 3.3.3.2</p> <p>Updated the Auction Process Workflow – section 3.3.3.5</p> <p>Updated and inclusion of Definitions – section 3.4.1</p> <p>Updated requirements for Bookable Point administration process – section 3.5.1</p> <p>Updated requirements for Network User registration process – section 3.5.2</p> <p>Updated requirements for Offered Capacity process – section 3.5.4</p> <p>Updated requirements for Auction process – section 3.5.6</p> <p>Updated requirements for Secondary Market Transfer process – section 3.5.7</p>	26 July 2016	ENTSOG
<p>Deletion of the two potential types of a capacity buy back – section 3.2.4.3</p> <p>Deletion of term “flow commitment” in definition of ReverseAuctionType – section 3.5</p> <p>Replacement of “assignment” by “transfer of ownership (assignment)” – section 3.2.5, 3.3.2, 3.5</p>	23 May 2017	ENTSOG
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## 80 **1 Introduction**

81 The Regulation (EU) 2017/459 for Capacity Allocation Mechanism (CAM NC) and the  
82 Commission Decision (2012/490/EU) on Congestion Management Procedures (CMP  
83 guidelines) set forth provisions regarding capacity allocation mechanisms and congestion  
84 management procedures. The CAM NC defines a standardised capacity allocation mechanism  
85 in the form of an auction procedure for relevant Interconnection Points within Europe,  
86 including the underlying Standard Capacity Products to be offered and the description of how  
87 cross-border capacity is to be allocated. The manner in which adjacent Transmission System  
88 Operators cooperate in order to facilitate capacity sales, taking into consideration general  
89 commercial as well as technical rules related to capacity allocation mechanisms are also  
90 outlined.

91 Additionally, the CMP guidelines define how congestion management procedures are put into  
92 place in the event of contractual congestion.

## 93 **2 Scope**

94 This document defines the external business requirements that are necessary for a  
95 harmonised implementation of the transmission of information between parties related to  
96 the CAM Network Code, the CMP guidelines and other issues not included in these regulations  
97 but related to them (marked as “not referenced in the CAM/CMP regulation” in this  
98 document, e.g. credit limits, master data). It is intended to be used by parties participating in  
99 the capacity allocation mechanism and congestion management procedures. In particular,  
100 the Business Requirements Specification (BRS) enables EASEE-gas to produce the Message  
101 Implementation Guideline (MIG).

102 The BRS does not cover the following subjects, which are referred to in the CAM NC/CMP  
103 guidelines but are not essential for the allocation of primary and secondary capacity or for  
104 congestion management:

- 105 - Co-ordination of maintenance information
- 106 - Nominations against capacity rights <sup>1</sup>
- 107 - Cooperation between Capacity Platform Reponsibles

108 This BRS covers requirements for the harmonised implementation of auctions for primary  
109 capacity, for secondary market capacity right transfer processes and congestion management  
110 procedures as specified in the CAM NC/CMP guidelines. The requirements therefore define  
111 the necessary interfaces for the implementation, from an IT perspective, of a capacity  
112 allocation and congestion management system.

113 This BRS is targeted towards business-to-business application interfaces or in a more user-  
114 orientated fashion through a web-based service.

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<sup>1</sup> The over-nomination process is included in this document

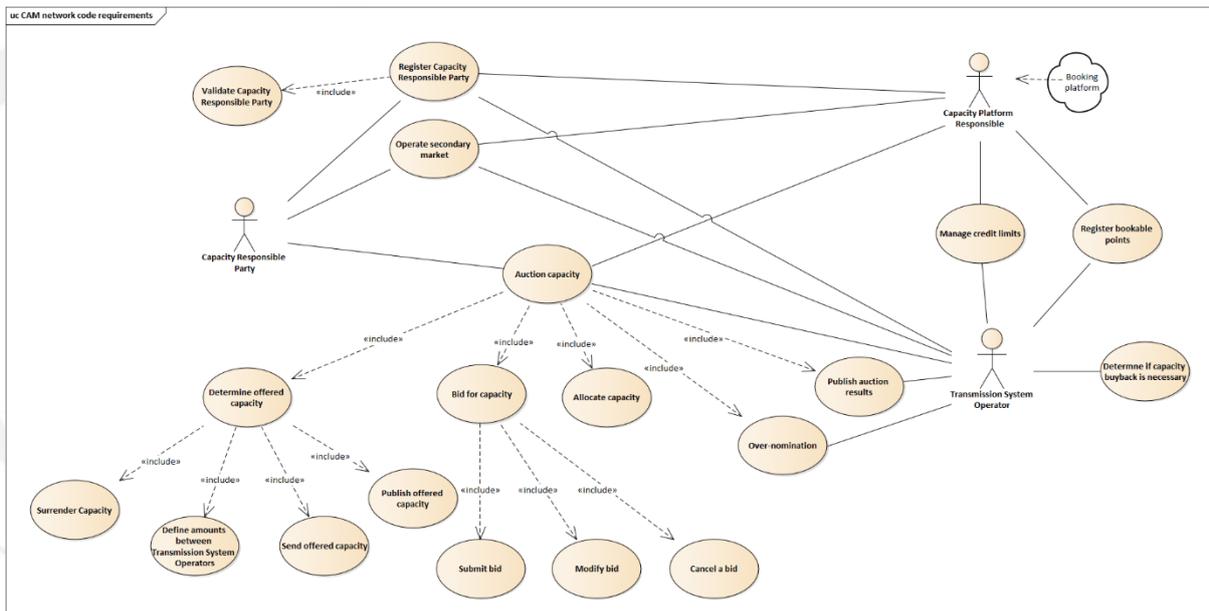
- 115 This document does not define a governance process for attribute definitions or other  
116 requirements. Such a process will need to be determined and defined elsewhere.
- 117 The requirements set out in this document are subject to change if there is any change in the  
118 obligations on Transmission System Operators or any other party.

119 **3 Business Requirements**

120 This section describes in detail the business requirements that the information flows are  
121 intended to satisfy.

122 **3.1 CAM/CMP requirements**

123 This section outlines the overall business process behaviour of the system without going into  
124 the detailed internal workings of each entity. It defines the external requirements of the  
125 business process: The relationships between the entities concerned.



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Figure 1: Overview of the CAM/CMP process use case

129 **3.1.1 List of actors**

130 **3.1.1.1 Capacity Platform Responsible**

131 A party providing and operating a platform that implements the rules and processes for the  
132 offer and allocation of all capacity products and/or may permit Capacity Responsible Parties  
133 to offer and obtain secondary capacity products.

134 **3.1.1.2 Registered Network User**

135 A Network User is defined in the Regulation (EU) No. 715/2009 in Article 2 (11). A Network  
136 User that has acceded to and is compliant with all applicable legal and contractual  
137 requirements that enable him/her to book, trade and use capacity on the relevant  
138 Transmission System Operator's network under a capacity contract.

139 In the context of this document, a Registered Network User is referred to as Capacity  
140 Responsible Party (CRP), a party that employs the System Operator to transport the gas,  
141 and/or Balance Responsible Party (BRP), *when it has obtained a right to submit (re-  
142 )nominations, in alignment with the processes defined in the BRS for Nomination & Matching  
143 and with EASEE-gas role model definitions.*

144 **3.1.1.3 Transmission System Operator**

145 A natural or legal person who carries out the function of transmission and is responsible for  
146 operating, ensuring the maintenance of, and, if necessary, developing the transmission  
147 system in a given area, and, where applicable, its interconnections with other systems. It is  
148 also responsible for ensuring the long term ability of the system to meet reasonable demands  
149 for the transportation of gas.

150 **3.1.1.4 Booking platform**

151 An application that implements the rules and processes for offering and allocation of all  
152 capacity and may permit Capacity Responsible Partys to offer and obtain secondary capacity.

153 It is managed by - Capacity Platform Responsible.

## 154 **3.2 Use case detail**

155 Besides the aforementioned requirements for coordinated implementation, the further core  
156 processes need to be considered as preconditions to the implementation of other  
157 requirements arising from NC CAM. It is understood that the registration of the Transmission  
158 System Operators is always carried out within the relevant Capacity Platform Responsible.

### 159 **3.2.1 Register Capacity Responsible Party**

160 Note: This is not referenced in the CAM/CMP regulation.

161 In order to participate in the CAM/CMP processes to obtain capacity, the Capacity  
162 Responsible Party and the personnel authorised to use the booking platform (authorised  
163 personnel) need to be registered with the Capacity Platform Responsible and the  
164 Transmission System Operator(s). The registration process includes the submission of the  
165 individual Capacity Responsible Party master data to the Capacity Platform Responsible and  
166 the Transmission System Operator(s).

167 The Capacity Responsible Party also transmits to the Transmission System Operator(s) the  
168 data required by the Transmission System Operator(s), from whom the Capacity Responsible  
169 Party would like to get capacity. If required the Capacity Responsible Party transmits its  
170 registration data via the Capacity Platform Responsible to the Transmission System  
171 Operator(s).

172 The Capacity Responsible Party transmits to the Capacity Platform Responsible the data  
173 required by the Capacity Platform Responsible for gaining access to the booking platform.

174 The new Capacity Responsible Party must provide a unique identification, such as an EIC code,  
175 to the Capacity Platform Responsible and to the Transmission System Operator(s) in order to  
176 ensure a unique identifier of the company on the booking platform in place. The Capacity  
177 Responsible Party also provides information concerning each of its authorised personnel.  
178 Capacity Responsible Party accounts may be provided to the Capacity Platform Responsible  
179 where required by the Transmission System Operator.

180 The Capacity Platform Responsible after verification forwards the necessary data to the  
181 Transmission System Operator for validation.

#### 182 **3.2.1.1 Validate Capacity Responsible Party registration**

183 The Transmission System Operator validates the information received.

184 The result of the validation is communicated to the Capacity Platform Responsible. The  
185 Capacity Platform Responsible informs the Capacity Responsible Party of the  
186 approval/rejection of access to the booking platform. The approval/rejection information  
187 regarding the access to the Transmission System Operator(s) networks(s) is provided by the  
188 Transmission System Operator(s). In the case where the Capacity Responsible Party registers  
189 via the Capacity Platform Responsible, it is provided by the Capacity Platform Responsible.

### 190 3.2.2 Register Bookable points

191 Before any capacity can be offered to the market the bookable points need to be defined by  
192 the Transmission System Operators and submitted to the Capacity Platform Responsible for  
193 the publication on the booking platform. Necessary updates of bookable point data are also  
194 included in this process.

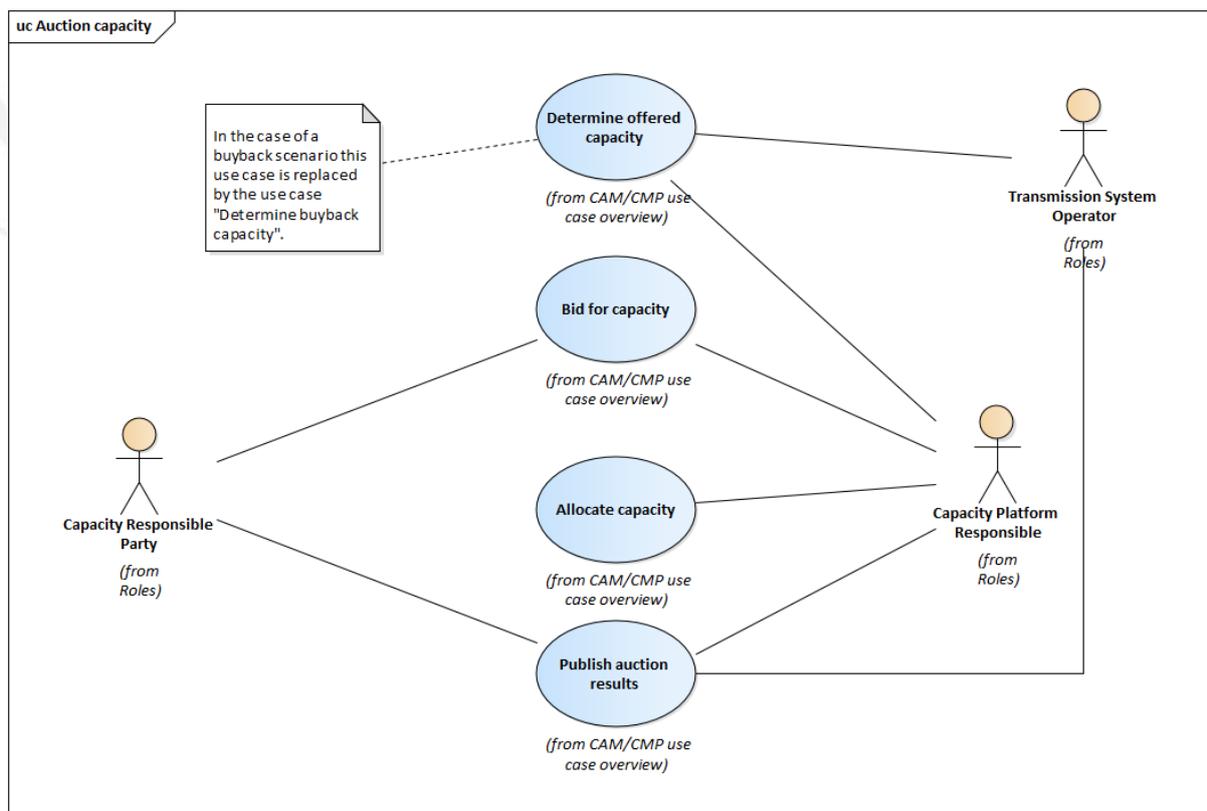
195 A bookable point is defined by several items (see definition in chapter 3.5).

196 The bookable point bundling process is managed by the Capacity Platform Responsible.

197 The bookable point will then be visible on the booking platform.

### 198 3.2.3 Auction capacity

199 This use case permits the auction and the auction mechanism, as described in Articles 17 and  
200 Article 18 CAM NC, respectively. In the case the reverse process is carried out through an  
201 auction, the same auction process may be used with the exception that the use case  
202 “Determine offered capacity” is replaced by the use case “Determine reverse auction  
203 capacity” to cover the determination of reverse auction capacity.



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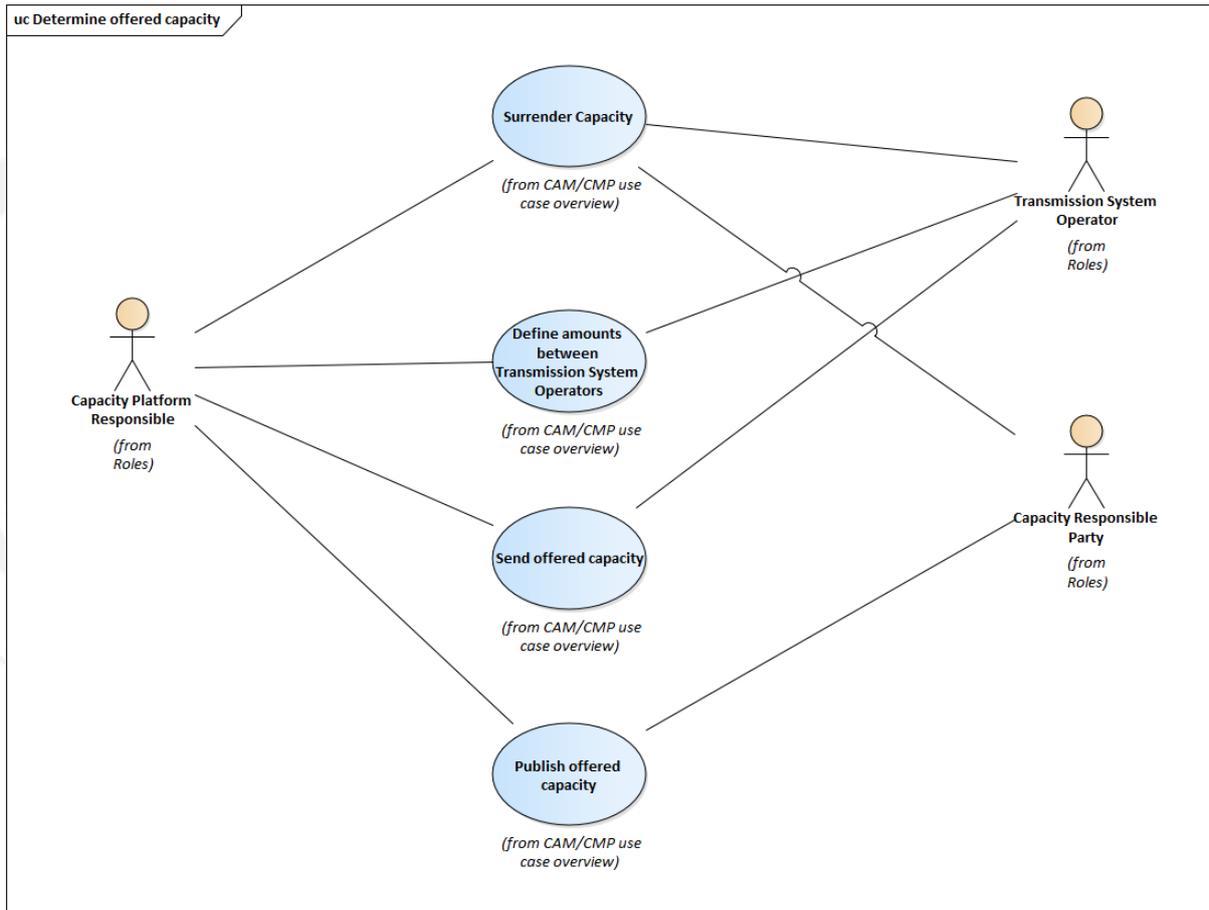
Figure 2: Auction capacity use case

206 Figure 2 outlines the relations that exist between each of the use cases and the actors.

207 **3.2.3.1 Determine offered capacity**

208 The Transmission System Operator determines the capacity that shall be offered to the  
209 market for auctioning. The determination of the capacity is carried out through the use case  
210 as outlined in the use case in Figure 3.

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Figure 3: Determine offered capacity use case

214 Once the Transmission System Operator has defined the Offered Capacity it is transmitted to  
215 the Capacity Platform Responsible.

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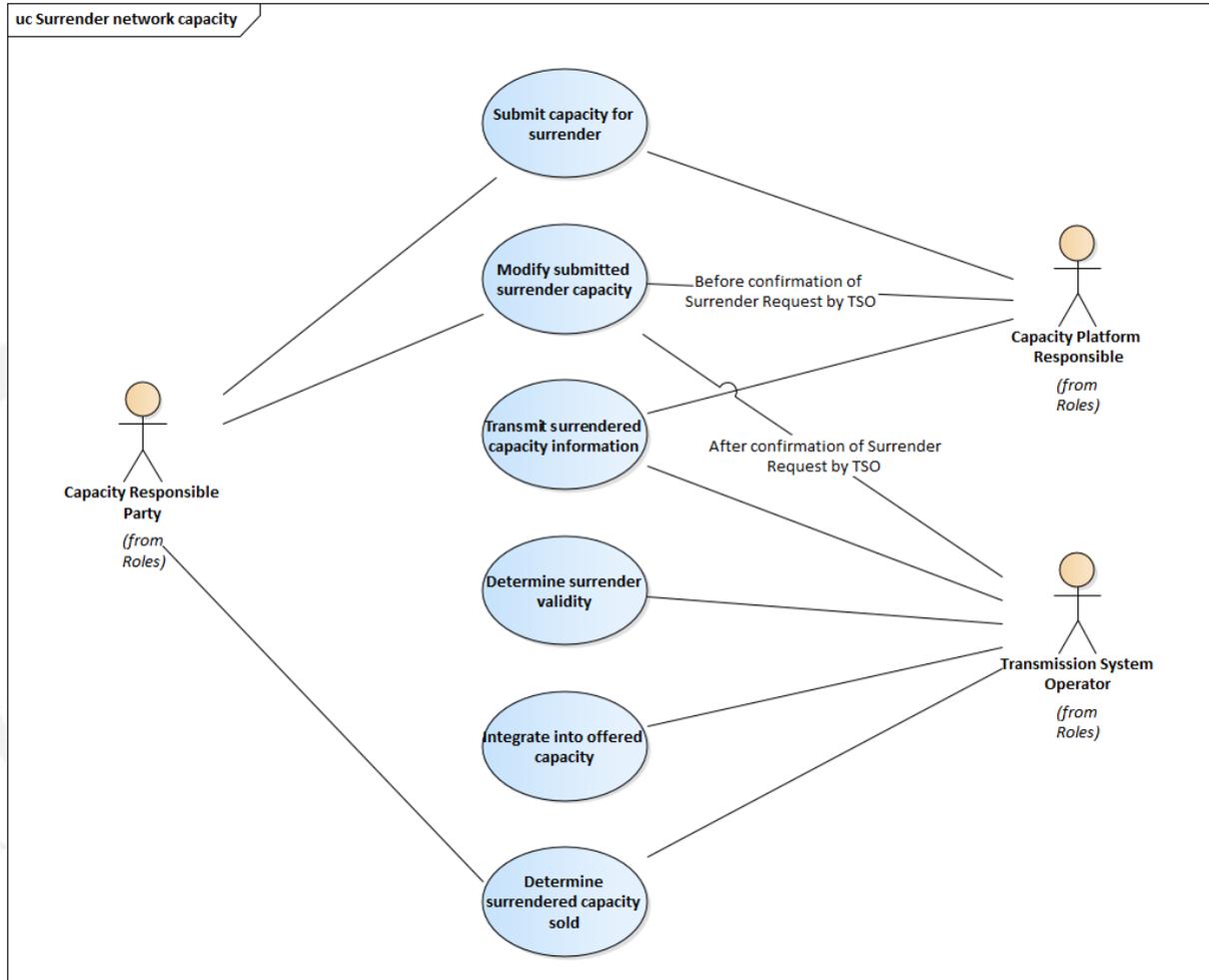
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223 **3.2.3.1.1 Surrender capacity**



224 **Figure 4: CMP surrender network capacity use case**

225

226 **3.2.3.1.1.1 Submit capacity for surrender**

227 If the surrender process is supported by the Transmission System Operator(s), the Capacity Responsible Party shall surrender capacity to the Capacity Platform Responsible for resale at  
 228 any time according to the applicable regulatory framework. The surrendered capacity must  
 229 be identified as bundled or unbundled and concerns at least capacity products with a duration  
 230 longer than a day (subject to the NRA decision).  
 231

232 Bundled capacity shall only be surrendered as bundled (subject to the NRA decision). A  
 233 bundled or unbundled capacity surrender request must identify the Transmission System  
 234 Operator(s). A bundled capacity surrender request shall be forwarded to the involved  
 235 Transmission System Operators for validation.

236

237

238

239 **3.2.3.1.1.2 Transmit surrendered capacity information**

240 The Capacity Platform Responsible transmits the surrendered capacity received to the  
241 Transmission System Operator(s) after internal validation by the Capacity Platform  
242 Responsible.

243 The Transmission System Operator forwards its positive/negative validation response of the  
244 surrender request to the Capacity Platform Responsible. The Capacity Platform Responsible  
245 informs the Capacity Responsible Party about the confirmation/rejection by the Transmission  
246 System Operator.

247 Extra steps for surrender may be implemented by the Capacity Platform Responsible.

248 **3.2.3.1.1.3 Determine surrender validity**

249 The Transmission System Operator ensures the validity of all Capacity Responsible Party  
250 submission.

251 **3.2.3.1.1.4 Modify a surrender**

252 As long as lead times constraints are respected, the Capacity Responsible Party may cancel  
253 all or part of a surrender request by submitting a recall surrender request which, as long as  
254 lead time constraints for capacity publication are respected, will be taken into account by the  
255 Transmission System Operator.

256 In case the surrender request has been confirmed by the Transmission System Operator(s) to  
257 the Capacity Responsible Party, any modifications may have to be sent directly to the involved  
258 Transmission System Operator(s) by the Capacity Responsible Party.

259 **3.2.3.1.1.5 Integrate into offered capacity**

260 Once the surrendered capacity is validated, the Transmission System Operator integrates the  
261 information into the offered capacity.

262 **3.2.3.1.1.6 Determine surrendered capacity sold**

263 The Transmission System Operator allocates the surrendered capacity sold to the Capacity  
264 Responsible Partys depending on local market rules and informs them of their capacity that  
265 has been sold.

266 When allocating the surrendered capacity sold to the Capacity Responsible Partys the  
267 Transmission System Operator allocates the surrendered capacity on a first come first served  
268 basis.

269 **3.2.3.1.2 Define amount between Transmission System Operators**

270 The Transmission System Operator calculates the capacity to be offered within the booking  
271 platform. A Transmission System Operator may inform the Capacity Platform Responsible  
272 about any competition between several connection points, capacity types and any relevant  
273 information related to Article 19 (5(a) and (b) CAM NC.

274 In case of a competing situation involving more than one Transmission System Operator, the  
275 competition algorithm is managed by the Capacity Platform Responsible.

276 1<sup>st</sup> option:

277 As default rule, the Transmission System Operators shall decide to let the Capacity  
278 Platform Responsible determine the bundled and unbundled capacity that makes up  
279 the established offered capacity. Each Transmission System Operator at each side of  
280 the IP/VIP shall inform the Capacity Platform Responsible of the offered capacity. The  
281 Capacity Platform Responsible shall apply the lesser rule in order to determine the  
282 bundled capacity.

283 Any differences between the lesser value calculated by the Capacity Platform  
284 Responsible and the capacity previously sent by Transmission System Operators can  
285 be considered as unbundled capacity and may be auctioned separately.

286 Such unbundled capacity will be clearly identified by the Capacity Platform  
287 Responsible to the Capacity Responsible Partys at the time when the capacity is  
288 offered.

289 2<sup>nd</sup> option:

290 The use case “Define amounts between Transmission System Operators” is used in  
291 this case by the Transmission System Operators to define the bundled and unbundled  
292 capacity that will make up the offered capacity. The final result is then sent by both  
293 Transmission System Operators to the Capacity Platform Responsible for publication.  
294 In case of mismatch then both quantities are rejected.

### 295 **3.2.3.1.3 Send offered capacity**

296 The offered capacity is sent to the Capacity Platform Responsible (booking platform) by the  
297 Transmission System Operator.

298

### 299 **3.2.3.1.4 Publish offered capacity**

300 The Capacity Platform Responsible then publishes the part of the offered capacity that will be  
301 auctioned as bundled capacity and the part of the offered capacity that will be auctioned as  
302 unbundled capacity.

303 The Capacity Responsible Partys are also informed in the publication of any starting price and,  
304 in the case of ascending clock auctions, the value of the large price step and the small price  
305 step for the bidding rounds.

306

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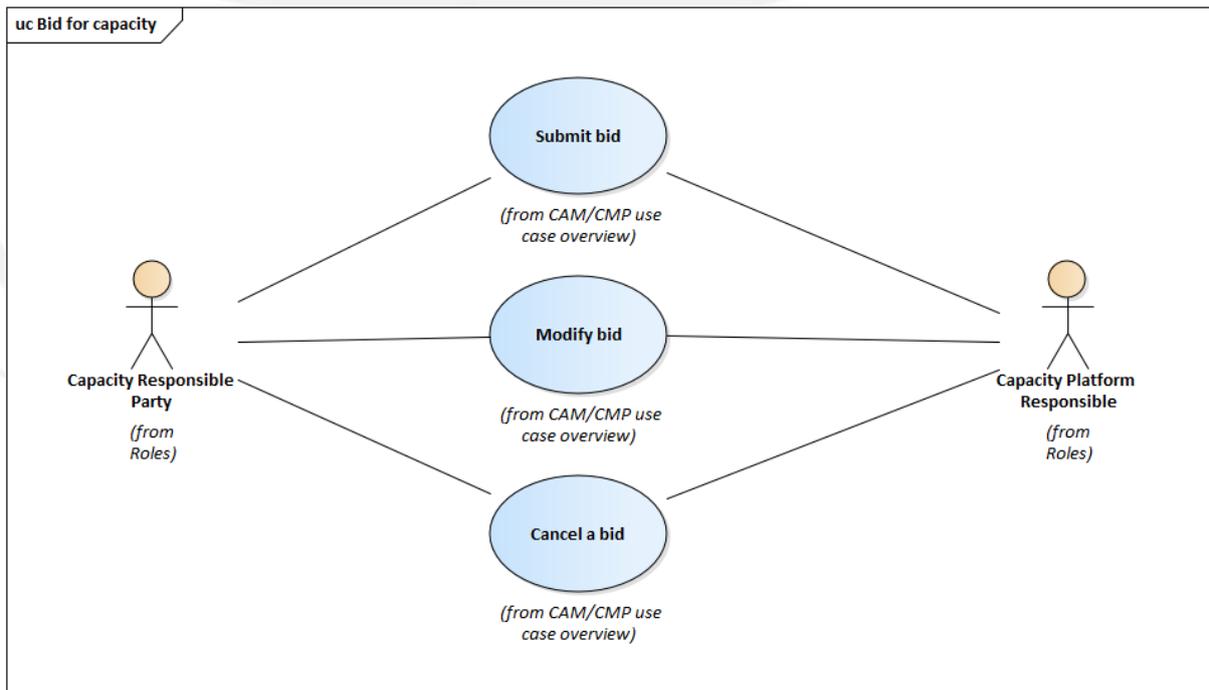
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309 **3.2.3.2 Bid for capacity**

310 For a given auction (in which one capacity product covering a specific period is offered)  
311 Capacity Responsible Partys submit bids with the amount of capacity required (for the price  
312 step announced in the concerned bidding round in the case of an ascending clock auction)  
313 and, in the case of uniform price auctions, the price they are willing to pay on top of the  
314 starting price and they shall also indicate the minimum capacity that is acceptable in the case  
315 of a reduced allocation.

316 In case of an ascending clock auction, the Capacity Responsible Party may submit only one  
317 valid bid per bidding round. This bid may be modified or withdrawn during the course of  
318 bidding round. The rules that apply during a bidding round shall be compliant with Article 17  
319 CAM NC.

320 In case of a uniform price auction, the bids shall be compliant with Article 18 CAM NC.



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Figure 5: Bid for capacity use case

323 **3.2.3.2.1 Submit bid**

324 The Capacity Responsible Party submits bids for an amount of capacity for the price step  
325 announced in the concerned bidding round, in the case of an ascending clock auction, or an  
326 amount of capacity (requested and minimum) and price, in the case of a uniform price  
327 auction. Each bid shall refer to a given product within a given auction. In an ascending clock  
328 auction, such bids shall respect the rules on bid quantities set out in Article 17(5, (8 and (16)  
329 CAM NC.

330 **3.2.3.2.2 Modify bid**

331 As long as the bidding round is open, a Capacity Responsible Party may modify the bid  
332 according to the requirements stated in Article 17 CAM NC and Article 18 CAM NC.

### 333 **3.2.3.2.3 Cancel a bid**

334 The Capacity Responsible Party may at any time before the closure of a bidding round cancel  
335 a bid placed earlier in that round according to the requirements stated in Article 17 CAM NC  
336 and Article 18 CAM NC.

337 Exceptional cases in which a Capacity Responsible Party cannot cancel a bid are bidding  
338 rounds with small price steps in ascending clock auctions according to the requirements  
339 stated in Article 17.

### 340 **3.2.3.3 Allocate capacity**

341 The capacity is allocated respecting market rules, as set out in article 17 (in an ascending clock  
342 auction) and Article 18 CAM NC (in a uniform price auction).

### 343 **3.2.3.4 Publish auction results**

344 Capacity Responsible Partys are informed by the Capacity Platform Responsible of the results  
345 of the bids that they have submitted.

346 The Capacity Platform Responsible informs the market of the final aggregated auction  
347 information.

348 The Capacity Platform Responsible provides the Transmission System Operators with the  
349 detailed auction results.

350 In ascending clock auctions intermediate results may be provided to the Transmission System  
351 Operators by the Capacity Platform Responsible.

### 352 **3.2.3.5 Over-nomination**

353 According Art. 32(6) CAM NC, within-day interruptible capacity shall be allocated by means of  
354 an over-nomination procedure. The following process should apply if within-day interruptible  
355 capacity is offered.

#### 356 **3.2.3.5.1 Preconditions**

357 Allocating interruptible within-day capacity through over-nomination is only possible if firm capacity,  
358 whether technical capacity or additional capacity is not available e.g. it is sold out or has not been  
359 offered due to lack of technical capacity. Within-day interruptible capacity can be allocated via over-  
360 nomination without using a Capacity Platform.

#### 361 **3.2.3.5.2 Usage and Allocation**

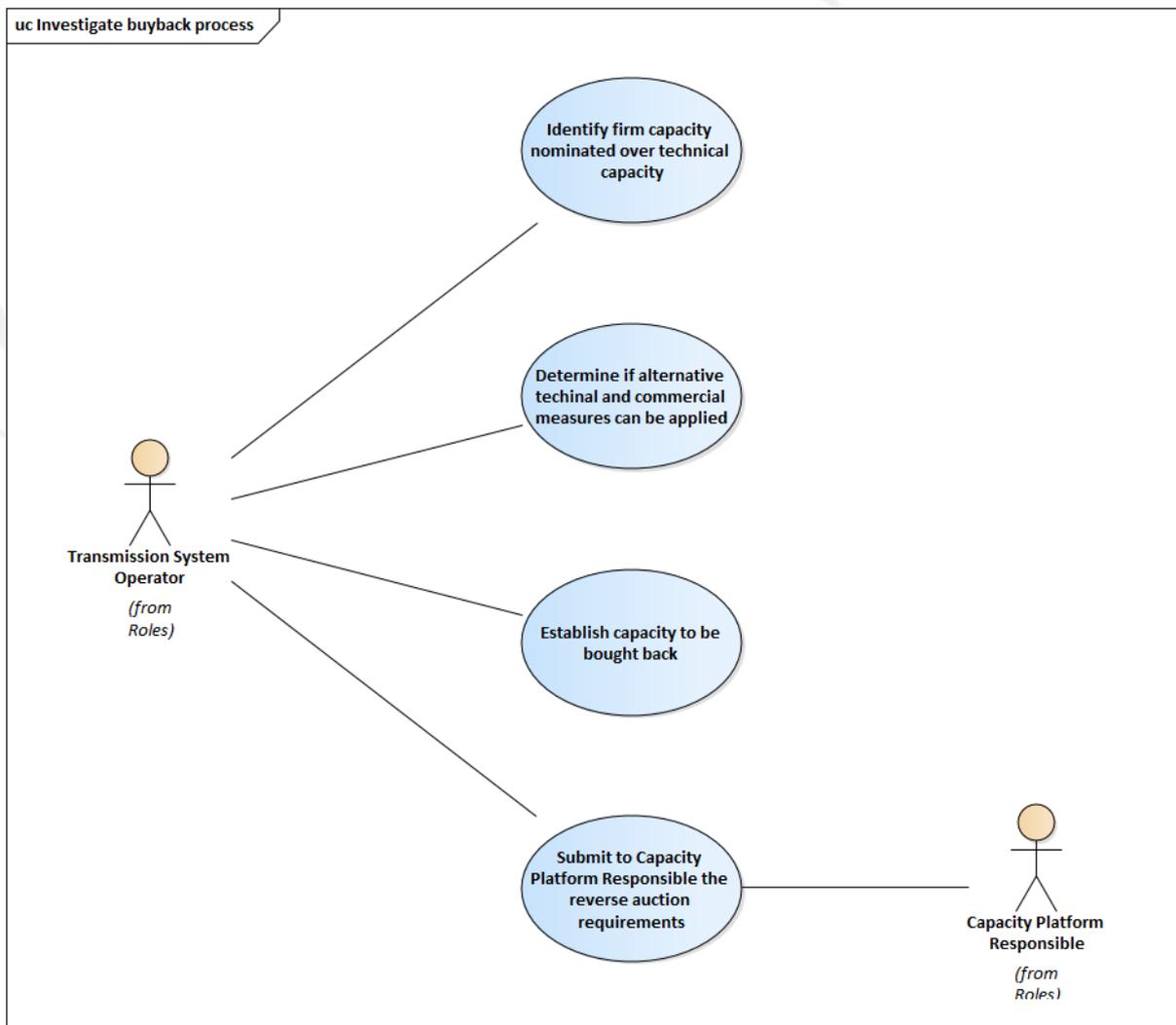
362 The usage of interruptible within-day capacity through over-nomination by a Capacity Responsible  
363 Party (CRP) at an IP/VIP is only possible if they have an active account with the TSO and for this specific  
364 IP/VIP. If several CRPs have requested interruptible capacity though over-nomination for the relevant

365 time period, then the interruptible within day capacity shall be allocated among the respective CRPs  
366 according to the specific TSO procedure.

367 **3.2.3.5.3 Conclusion of the contract**

368 If the total nominations by the Balancing Responsible Party (BRP) exceed the capacity of the account  
369 for the particular combination of the interconnection point and direction, then that proportion of the  
370 nomination shall be deemed as a request to book interruptible within-day capacity. In case all  
371 preconditions mentioned in 3.2.3.5.1 and 3.2.3.5.2 are fulfilled, the contract is concluded without any  
372 explicit declaration of acceptance by the Transmission System Operator. The Transmission System  
373 Operator may inform the BRP that the interruptible within-day capacity has been booked.

374 **3.2.4 Determine if capacity buyback is necessary**



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Figure 6: Investigate buyback process use case

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379 **3.2.4.1 Identify firm capacity nominated over technical capacity**

380 The Transmission System Operator shall identify firm capacity nominated over technical  
381 capacity.

382 **3.2.4.2 Determine if alternative technical and commercial measures can be applied**

383 The Transmission system Operator then determines if any alternative technical and  
384 commercial measures can be applied.

385 **3.2.4.3 Establish capacity to be bought back**

386 The Transmission System Operator determines the amount of capacity that will have to be  
387 bought back in the congested direction to re-establish the situation, without taking into  
388 consideration whether the capacity is bundled or not.

389 For the Transmission System Operator this information is irrelevant as it seeks to achieve a  
390 flow reduction. For the Capacity Responsible Party the bundling status is irrelevant as it states  
391 the financial compensation desired for not flowing gas.

392 As an alternative to the reverse auction the Transmission System Operator may also buy back  
393 the capacity by playing the role of a Capacity Responsible Party on the secondary market.

394 **3.2.4.4 Submit to Capacity Platform Responsible the reverse auction requirements**

395 The Transmission System Operator shall send capacity to be purchased to the Capacity  
396 Platform Responsible so that a reverse auction can be put into place. The Transmission System  
397 Operator may include some restrictions, for example:

- 398       • the maximum price the Transmission System Operator is willing to pay for buying back  
399       the capacity
- 400       • the list of Capacity Responsible Partys that are allowed to participate in the buy-back  
401       procedure

402 The use cases of submit bid, modify bid and cancel bid are the same except that the auction  
403 type is generally a uniform price auction where the seller may provide in the bid the capacity  
404 for sale and its price. Local market rules may determine that any other kind of auction  
405 mechanism may be used.

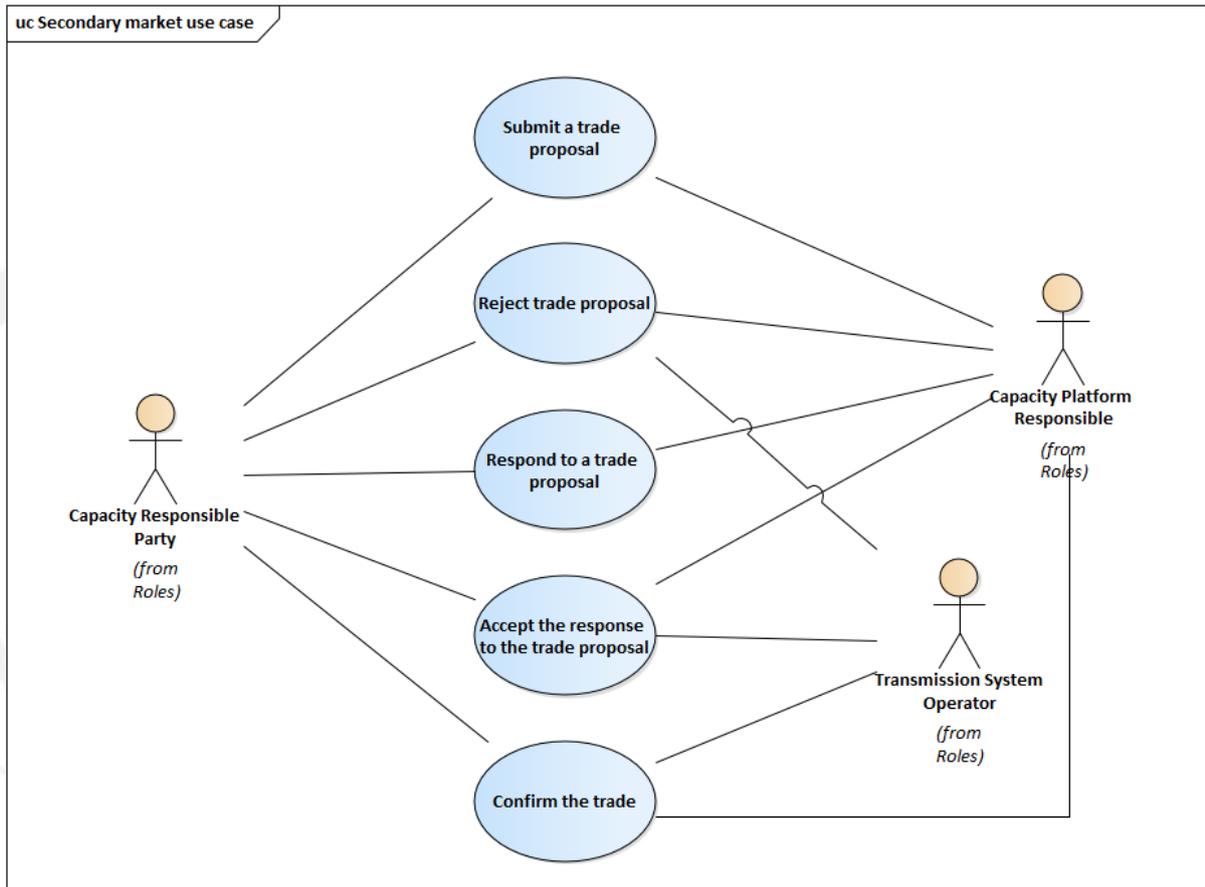
406 **3.2.5 Operate secondary market**

407 Note: This process is not referenced in the CAM/CMP regulation.

408 This section covers Secondary market functionalities handled by capacity booking platforms  
409 as well as the transfer of capacity rights at the conclusion of each trade.

410 In the text no differentiation between transfer of ownership (assignment) and transfer of use  
411 is made, however this differentiation should be included in the relevant messages.

412 Capacity products originally booked as bundled shall be traded as bundled products on the  
413 secondary market. A bundled capacity trade shall be forwarded to the involved Transmission  
414 System Operators for validation.



415

416

417

Figure 7: Secondary market use case

### 418 3.2.5.1 Submit a trade proposal

419 A Capacity Responsible Party has the possibility to sell or buy capacity to other Capacity  
420 Responsible Partys.

421 In the text no differentiation between over the counter, call for orders and first committed  
422 first served is made, however this differentiation should be included in the relevant messages.

423 Consequently a Capacity Responsible Party can submit a trade proposal to the secondary  
424 market to sell or buy capacity concerning a connection point. The proposal shall include  
425 information about the bookable point, capacity, period, availability type of capacity,  
426 bundled/unbundled, nature of transfer (full or partial transfer of rights), price and in case it is  
427 a proposal to sell capacity the identification of the related capacity contract incl. issuer of the  
428 contract, the duration over which the trade is valid. The trade proposal can be  
429 updated/withdrawn by the submitter before any trade(s) have been confirmed.

#### 430 **3.2.5.2 Reject a trade proposal**

431 If a trade proposal is submitted to a Capacity Platform Responsible, the Capacity Platform  
432 Responsible shall forward the trade proposal to the Transmission System Operator(s) at  
433 their request. The Transmission System Operator has the possibility to reject the trade  
434 proposal if the proposal does not meet the pre-defined conditions for a trade. The rejection  
435 is communicated to the Capacity Platform Responsible, who will forward the information to  
436 the concerned Capacity Responsible Party(s) and Transmission System Operator(s).

#### 437 **3.2.5.3 Respond to a trade proposal**

438 After the publication of a trade proposal Capacity Responsible Partys can respond to it by  
439 conceding the offer at a given price or by proposing capacity at a requested price.

#### 440 **3.2.5.4 Accept the response to a trade proposal**

441 Note: This is conditional to Transmission System Operator approval. If an appropriate  
442 response to a trade proposal is received from a Capacity Responsible Party, the submitter of  
443 the trade proposal can close the trade by accepting the response. Once the response to the  
444 trade proposal is accepted, it is sent to the relevant Transmission System Operator(s) for  
445 confirmation.

#### 446 **3.2.5.5 Confirm a trade**

447 The Transmission System Operator(s) must be informed about the trade by the involved  
448 Capacity Responsible Partys or by the Capacity Platform Responsible on their behalf. The  
449 Transmission System Operator(s) confirms or rejects the transfer after carrying out the  
450 necessary validity checks.

451 The information about the confirmation or rejection of a transfer is sent to the involved  
452 Capacity Responsible Partys.

453 The Transmission System Operator(s) has/have a maximum of 5 working days for confirming  
454 a trade for capacity rights after it has been concluded. For the transfer of use of day-ahead  
455 capacity rights a maximum confirmation time of 6 hours starting at 10:00 am (UTC)<sup>2</sup> applies.  
456 One or both Capacity Responsible Party(s) has/have to submit its/their trade latest at 10:00  
457 am (UTC) on D-1.

#### 458 **3.2.6 Manage credit limits**

459 Note: This process is not referenced in the CAM/CMP regulation.

460 In order to ensure that a Capacity Responsible Party is permitted to purchase a given quantity  
461 of capacity during the auction process or a secondary market transaction a Transmission  
462 System Operator may inform the Capacity Platform Responsible of the permitted financial  
463 limits for a Capacity Responsible Party if required.

---

<sup>2</sup> Winter time; 09:00 am (UTC) daylight saving time

464 The Transmission System Operator identifies each product (auction and trades) subjected to  
465 credit limit verification and the multiplication factor(s) to be applied to a Capacity Responsible  
466 Party's bid (starting price + surcharge) associated to a specific product and to trades,  
467 considering the duration of the trades. This defines the framework. The Transmission System  
468 Operator transfers to the Capacity Platform Responsible information concerning the Capacity  
469 Responsible Party validity period(s) of the limits and associated credit value(s).

470 The Transmission System Operator informs the Capacity Platform Responsible of the Capacity  
471 Responsible Party credit limits every time these evolve.

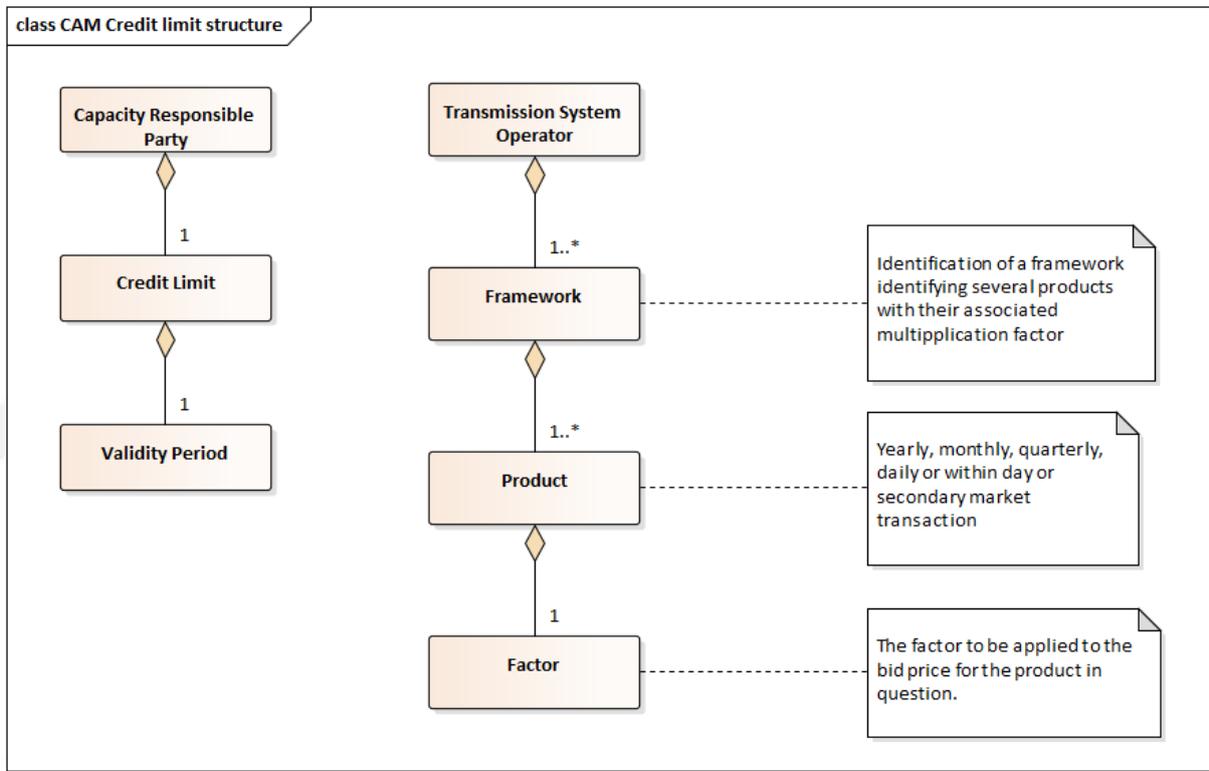
472 Capacity Responsible Partys may be able to consult their credit limit information on the  
473 booking platform if such a right is accorded by the Transmission System Operator. The  
474 financial value for a given Capacity Responsible Party's bid associated to a specific product is  
475 determined by the multiplication of the unitary price (starting price + surcharge), amount, the  
476 period associated with the product, which intersects with the credit limit validity period and  
477 the multiplication factor of the credit limit for this product. Before the acceptance of a  
478 Capacity Responsible Party's bid, the Capacity Platform Responsible verifies if the Capacity  
479 Responsible Party's credit limit is equal to or greater than the financial value of the bid. If this  
480 is the case, the Capacity Platform Responsible accepts the bid and adjusts the remaining credit  
481 value after each bid submission and capacity allocation. The Capacity Platform Responsible  
482 may provide the used credit value upon request of the Transmission System Operator.

483 A Capacity Responsible Party may have a credit limit and an associated validity period. The  
484 credit limit covers all the guarantees that the Capacity Responsible Party may hold.

485 The Transmission System Operator may define several frameworks. Each framework includes  
486 the following information: Name of the framework; product type; credit factors which apply  
487 to the products.

488 The determination of whether or not a credit limit is exceeded is carried out on a per bid basis  
489 where for the product in each framework that the Transmission System Operator decides to  
490 apply credit limit verifications, is equal to or greater than the financial value of the bid. If this  
491 check is not positive then the credit limit is deemed to be exceeded and the bid is rejected.

492 During the secondary process the remaining credit value is adjusted.

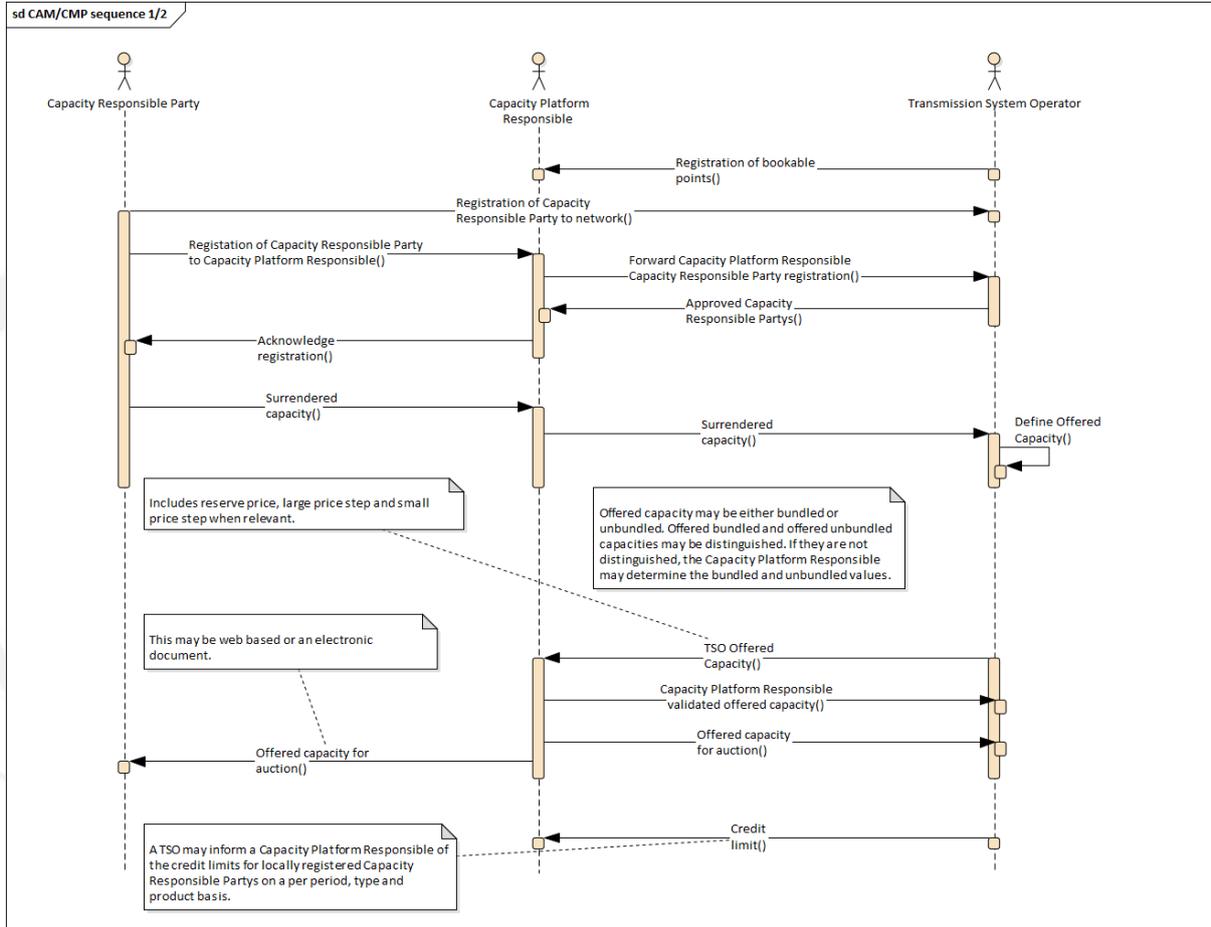


493  
494

Figure 8: CAM credit limit structure

495 **3.3 Information flow definition**

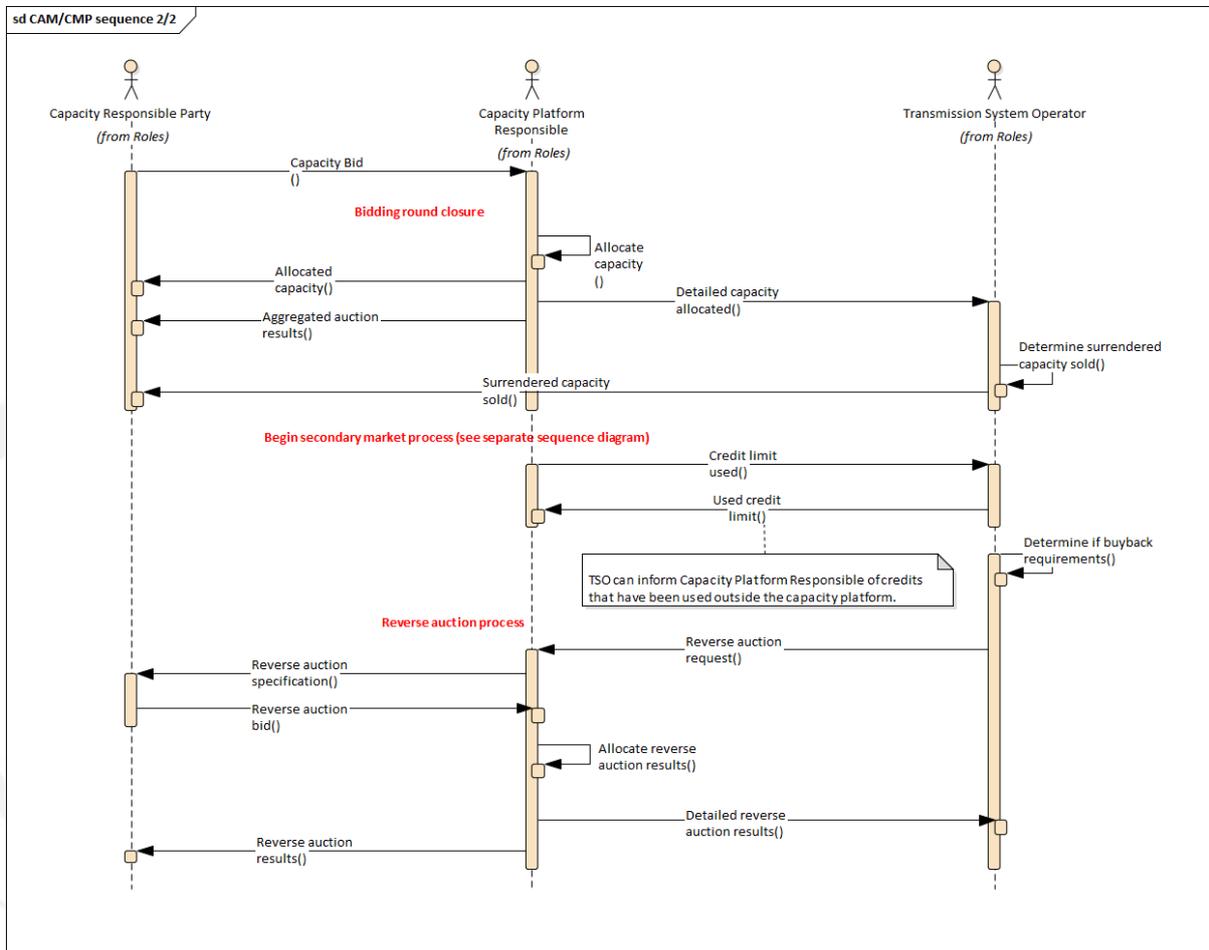
496 **3.3.1 CAM/CMP Sequence flow**



497

498

Figure 9: Information flow sequence (1/2)



499  
500

Figure 10: Information flow sequence (2/2)

### 501 3.3.1.1 Bookable point registration

502 The Transmission System Operator provides the Capacity Platform Responsible with the  
503 information of all the connection points where capacity can be booked.

504 The data exchange solution for this data exchange is to be negotiated between the  
505 Transmission System Operator and the Capacity Platform Responsible.

506

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Bookable Point Registration	Transmission System Operator	Capacity Platform Responsible	Private	Recommended - Interactive

### 507 3.3.1.2 Capacity Responsible Party registration to Transmission System Operator

508 Prior to operating on the market a Capacity Responsible Party must register with the  
509 Transmission System Operator.

510 The data exchange solution for this data exchange is to be negotiated between the  
511 Transmission System Operator and the Capacity Responsible Party.

512

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Capacity Responsible Party Registration	Capacity Responsible Party	Transmission System Operator	Private	Recommended - Interactive

513 **3.3.1.3 Capacity Responsible Party registration to Capacity Platform Responsible**

514 Prior to operating on the market a Capacity Responsible Party must register with the Capacity  
515 Platform Responsible if the Capacity Responsible Party wishes to participate in CAM/CMP  
516 processes.

517 The data exchange solution for this data exchange is to be negotiated between the Capacity  
518 Responsible Party and the Capacity Platform Responsible.

519

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Capacity Responsible Party Registration to Capacity Platform Responsible	Capacity Responsible Party	Capacity Platform Responsible	Private	Recommended - Interactive

520 **3.3.1.4 Approved Capacity Responsible Partys**

521 The Transmission System Operator will validate and approve the Capacity Responsible Party's  
522 participation. The Transmission System Operator informs the Capacity Platform Responsible  
523 of the Capacity Responsible Partys that are permitted to participate in CAM/CMP processes.

524 The data exchange solution for this data exchange is to be negotiated between the  
525 Transmission System Operator, the Capacity Platform Responsible and the Capacity  
526 Responsible Party.

527

528

529

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Approved Capacity Responsible Party	Capacity Platform Responsible	Transmission System Operator	Private	Recommended - Document Based
Approved Capacity Responsible Party	Transmission System Operator	Capacity Platform Responsible	Private	Recommended - Interactive
Approved Capacity Responsible Party	Capacity Platform Responsible	Capacity Responsible Party	Private	Recommended - Interactive

530 **3.3.1.5 Surrender capacity rights**

531 Prior to a given auction period a Capacity Responsible Party may surrender capacity rights  
532 that he holds for the intended period of the auction (dependent on national regulations). The  
533 capacity to be surrendered is sent to the Capacity Platform Responsible for transmission to  
534 all involved Transmission System Operators. Once verified the capacity will be incorporated  
535 into the total offered capacity for the next auction product.

536 The common data exchange solution with the registered Capacity Responsible Party for this  
537 data exchange is shown below:

538

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Surrender Capacity Rights	Capacity Responsible Party	Capacity Platform Responsible	Private	Interactive

539

540 The data exchange solutions between the Capacity Platform Responsible and the  
541 Transmission System Operator are not part of the Network Code for Interoperability and  
542 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
543

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Surrender Capacity Rights	Capacity Platform Responsible	Transmission System Operator	Private	Recommended - Document Based

544 **3.3.1.6 Offered capacity**

545 The capacity on offer shall be sent by each Transmission System Operator to the Capacity  
546 Platform Responsible in compliance with the business case defined in section 3.2.3.1.2.

547 The Capacity Platform Responsible assigns an auction identification to the offered capacity  
548 provided by the Transmission System Operators.

549 The Capacity Platform Responsible informs the Transmission System Operators of the  
550 products that will be auctioned and publishes the information for use by the market along  
551 with any price step information if the auction concerns an ascending clock auction.

552 The data exchange solutions between the Capacity Platform Responsible and the  
553 Transmission System Operator are not part of the Network Code for Interoperability and  
554 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
555

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Offered Capacity	Transmission System Operator	Capacity Platform Responsible	Private	Recommended - Document Based
Offered Capacity	Capacity Platform Responsible	Transmission System Operator	Private	Recommended - Document Based

556 The common data exchange solution with the registered Capacity Responsible Party for this  
557 data exchange is shown below:  
558

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Offered Capacity	Capacity Platform Responsible	Capacity Responsible Party	Public	Document Based. Optional - interactive

559 **3.3.1.7 Credit limit**

560 The Transmission System Operator may inform the Capacity Platform Responsible of credit  
561 restrictions that have been placed on Capacity Responsible Partys in the context of a contract.  
562 The Capacity Platform Responsible ensures that the cumulative purchase of auction products  
563 and trades does not exceed the Capacity Responsible Partys credit limit. (refer to section  
564 3.2.6)

565 The credit limit information may be sent to the Capacity Platform Responsible at any time to  
566 enable more conclusive verifications be carried out within the auctioning system. This  
567 information may include the creation, modification or suppression of a credit limit.

568 The Capacity Platform Responsible may provide used credit value of all relevant Capacity  
569 Responsible Partys to the Transmission System Operator upon request.

570 The data exchange solutions between the Capacity Platform Responsible and the  
571 Transmission System Operator are not part of the Network Code for Interoperability and  
572 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
573

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Credit Limit	Transmission System Operator	Capacity Platform Responsible	Private	Recommended - Document Based
Credit Limit	Capacity Platform Responsible	Transmission System Operator	Private	Recommended - Document Based

#### 574 3.3.1.8 Capacity bid

575 Capacity Responsible Partys submit bids in accordance with the type of auction being run.  
576 Before a uniform price auction or an ascending clock bidding round closes they may submit  
577 modifications to their bids or cancel the bid completely if the auction process allows it. (refer  
578 to section 3.2.3.2)

579 The common data exchange solution for this data exchange is shown below:  
580

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Capacity Bid	Capacity Responsible Party	Capacity Platform Responsible	Private	Document Based. Optional - Interactive

#### 581 3.3.1.9 Allocated capacity

582 The Capacity Platform Responsible allocates offered capacity to a Capacity Responsible  
583 Party's bid and informs the Capacity Responsible Party of the quantity and price allocated  
584 according to the given auction process. (refer to section 3.2.3.3)

585

586

587

588

589

590 The common data exchange solution for this data exchange is shown below:

591

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Allocated Capacity	Capacity Platform Responsible	Capacity Responsible Party	Private	Document Based. Optional Interactive

592

### 593 3.3.1.10 Detailed capacity allocated

594 Once the capacity allocation has terminated, the Capacity Platform Responsible transmits all  
595 the Capacity Responsible Party allocations to the Transmission System Operator. (refer to  
596 section 3.2.3.4)

597 The data exchange solutions between the Capacity Platform Responsible and the  
598 Transmission System Operator are not part of the Network Code for Interoperability and  
599 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
600

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Detailed Capacity Allocated	Capacity Platform Responsible	Transmission System Operator	Private	Recommend-Document Based

### 601 3.3.1.11 Aggregated auction results

602 This represents the total aggregated values for the auction (at least the clearing price and  
603 total capacity sold) and is intended for use by any market participant. (refer to section 3.2.3.4)

604 The common data exchange solution for this data exchange is shown below:

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Aggregated Auction Results	Capacity Platform Responsible	All	Public	Interactive. Optional - Document

### 605 3.3.1.12 Surrendered capacity sold

606 When the Transmission System Operator receives the detailed results of the auction it  
607 determines if the capacity sold is greater than the Transmission System Operator's available  
608 technical capacity. If this is the case the Transmission System Operator allocates the

609 remaining sold capacity to the Capacity Responsible Partys that have surrendered capacity.  
610 (refer to section 3.2.3.1.1.6)

611 The Transmission System Operator will inform the Capacity Responsible Party about the  
612 Surrendered Capacity Sold.

613 The common data exchange solution between Transmission System Operator and the  
614 registered Capacity Responsible Party is shown below:  
615

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Surrendered Capacity Sold	Transmission System Operator	Capacity Responsible Party	Private	Document based. Optional – Interactive.

616 **3.3.1.13 Reverse auction requirements**

617 In the case where it is necessary to buy back capacity via an auction, the Transmission System  
618 Operator determines how much capacity should be bought back and a cap price for any  
619 purchases.

620 The data exchange solutions between the Capacity Platform Responsible and the  
621 Transmission System Operator are not part of the Network Code for Interoperability and  
622 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
623

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Reverse Auction Requirements	Transmission System Operator	Capacity Platform Responsible	Private	Recommended - Document Based

624 **3.3.1.14 Reverse auction bid**

625 The bidding procedure will be the same as carried out for a uniform price auction. Local  
626 market rules may determine that any other kind of auction mechanism may be used.

627 The common data exchange solution for this data exchange is shown below:  
628  
629  
630  
631  
632

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Reverse Auction Bid	Capacity Responsible Party	Capacity Platform Responsible	Private	Interactive. Optional – Document Based.

633 **3.3.1.15 Reverse auction results**

634 Once the reverse auction closes the Capacity Platform Responsible evaluates the bids  
635 received and allocates the capacity to the Capacity Responsible Partys. The Capacity Platform  
636 Responsible distributes the finalised results.

637 In the case where bundled capacity has been sold back the adjacent Transmission System  
638 Operator is informed of the sale.

639 The data exchange solutions between the Capacity Platform Responsible and the  
640 Transmission System Operator are not part of the Network Code for Interoperability and  
641 Data Exchange Rules the data exchange solution is to be negotiated between the parties:  
642

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Allocate Reverse Auction Results	Capacity Platform Responsible	Transmission System Operator	Private	Recommended - Document Based

643  
644

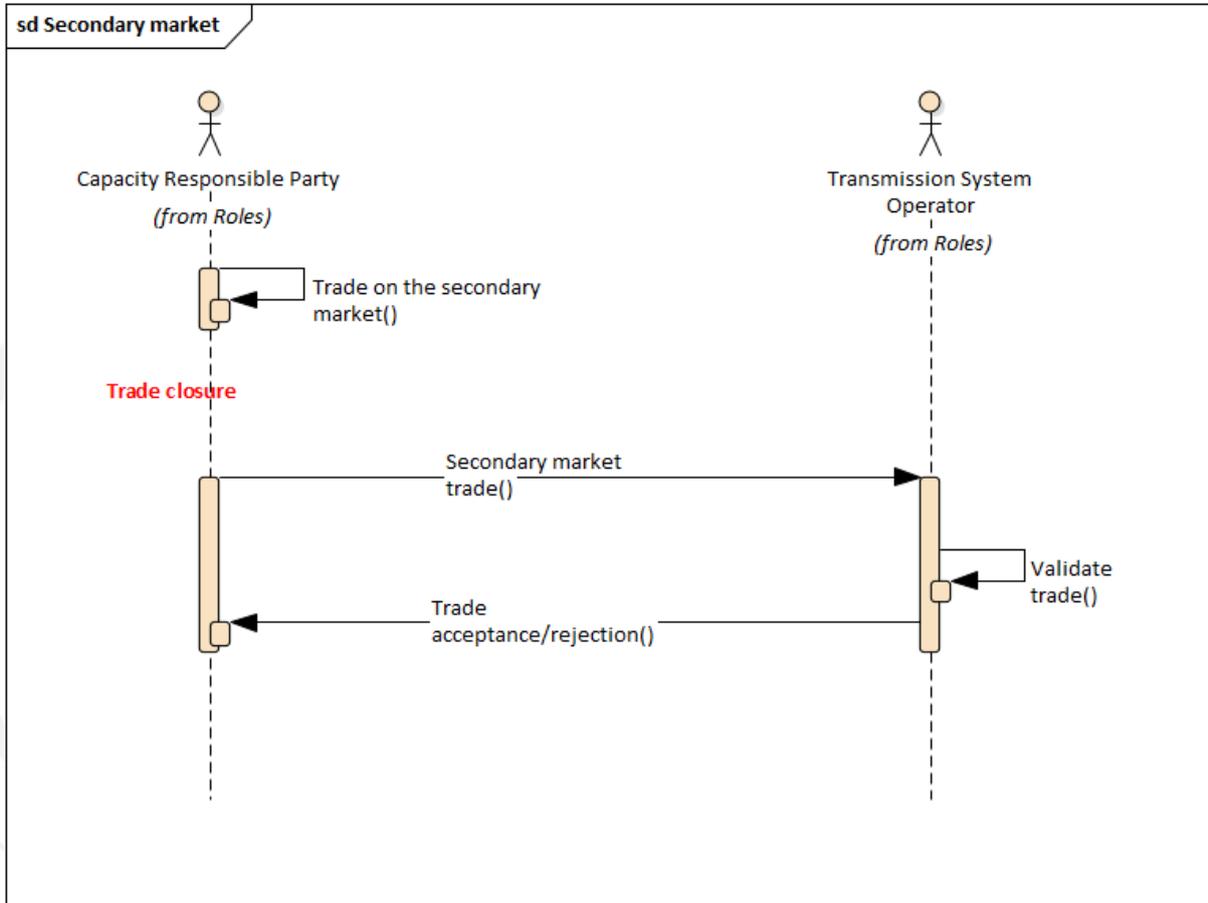
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Allocate Reverse Auction Results	Capacity Platform Responsible	Capacity Responsible Party	Private	Interactive. Optional – Document Based.

645 **3.3.2 Secondary market sales**

646 Capacity may be sold on a secondary market. Bundled capacity bought in an auction shall be  
647 sold on the secondary market as bundled capacity. Unbundled capacity on both sides of an  
648 interconnection point may be bundled in the secondary market.

649 In the text no differentiation between transfer of ownership (assignment) and transfer of use  
650 is made, however this differentiation should be included in the relevant messages. Besides,  
651 no differentiation between over the counter, call for orders and first committed first served  
652 is made, however this differentiation should be included in the relevant messages.

653



654

655

Figure 11: Secondary market

656 If capacity is offered on the secondary market the Capacity Responsible Party that traded the  
657 capacity or the Capacity Platform Responsible (on behalf of the Capacity Responsible Parties)  
658 must inform the Transmission System Operator of the trade.

659 The common data exchange solution for the data exchange between the Registered Capacity  
660 Responsible Party or Capacity Platform Responsible on behalf of the Registered Capacity  
661 Responsible Party and the Transmission System Operator is shown below:

662

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Secondary Market Sales	Capacity Responsible Party (or Capacity Platform Responsible)	Transmission System Operator	Private	Interactive. Optional – Interactive.

663 The Transmission System Operator validates the trade information. Once the trade  
664 submission is deemed valid, the Transmission System Operator confirms the trade. The  
665 Transmission System Operator informs the Capacity Responsible Partys or the Capacity  
666 Platform Responsible, who is acting on behalf of the Capacity Responsible Partys, about the  
667 confirmation.

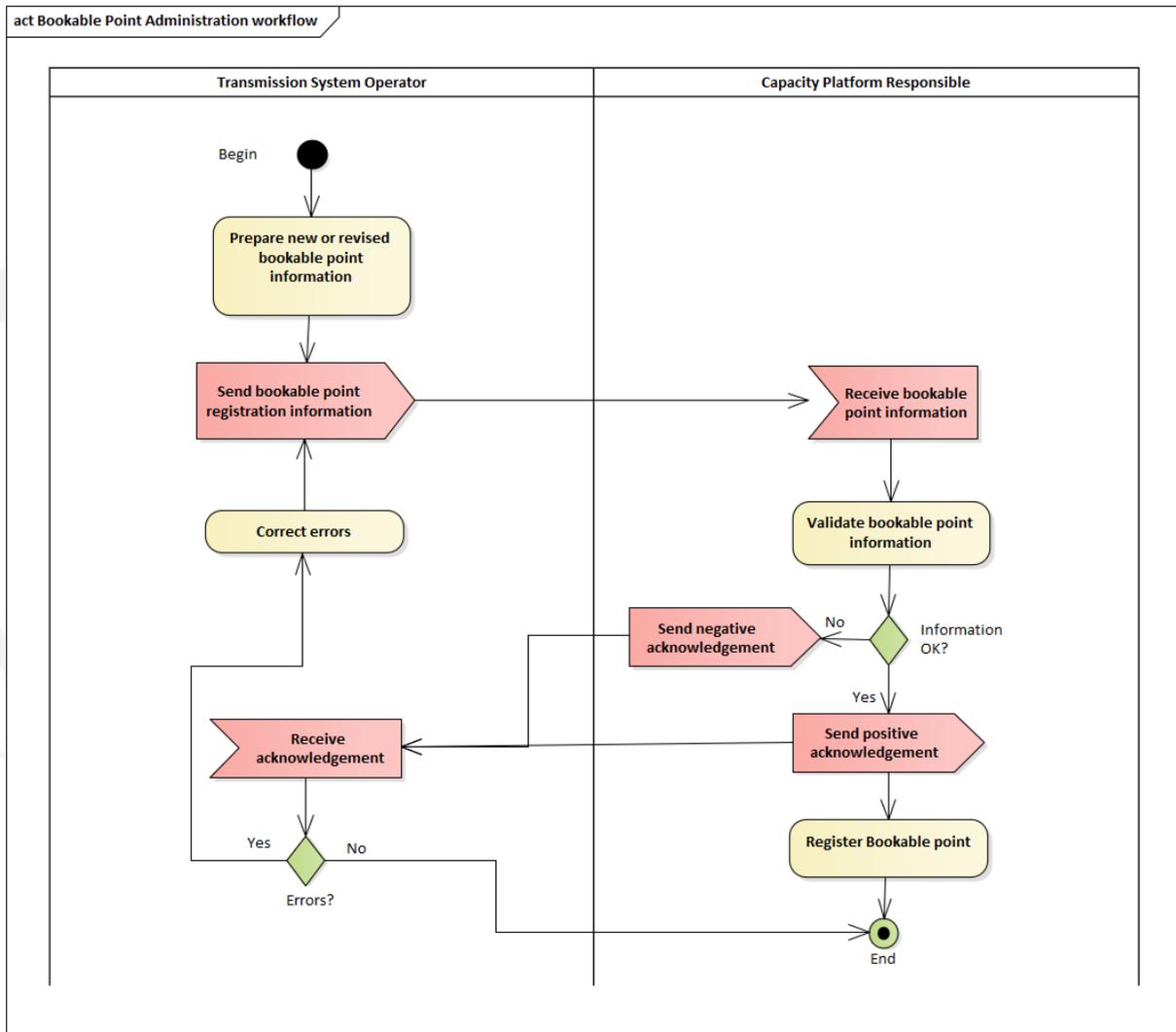
668 In the case of error the Capacity Responsible Partys are informed and take the necessary  
669 corrective action.

670 The common data exchange solution for this data exchange is shown below:  
671

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Secondary Market Sales	Transmission System Operator	Capacity Responsible Party (or Capacity Platform Responsible)	Private	Interactive. Optional – Interactive.

672 **3.3.3 CAM/CMP Workflow**

673 **3.3.3.1 Bookable Point Administration workflow**



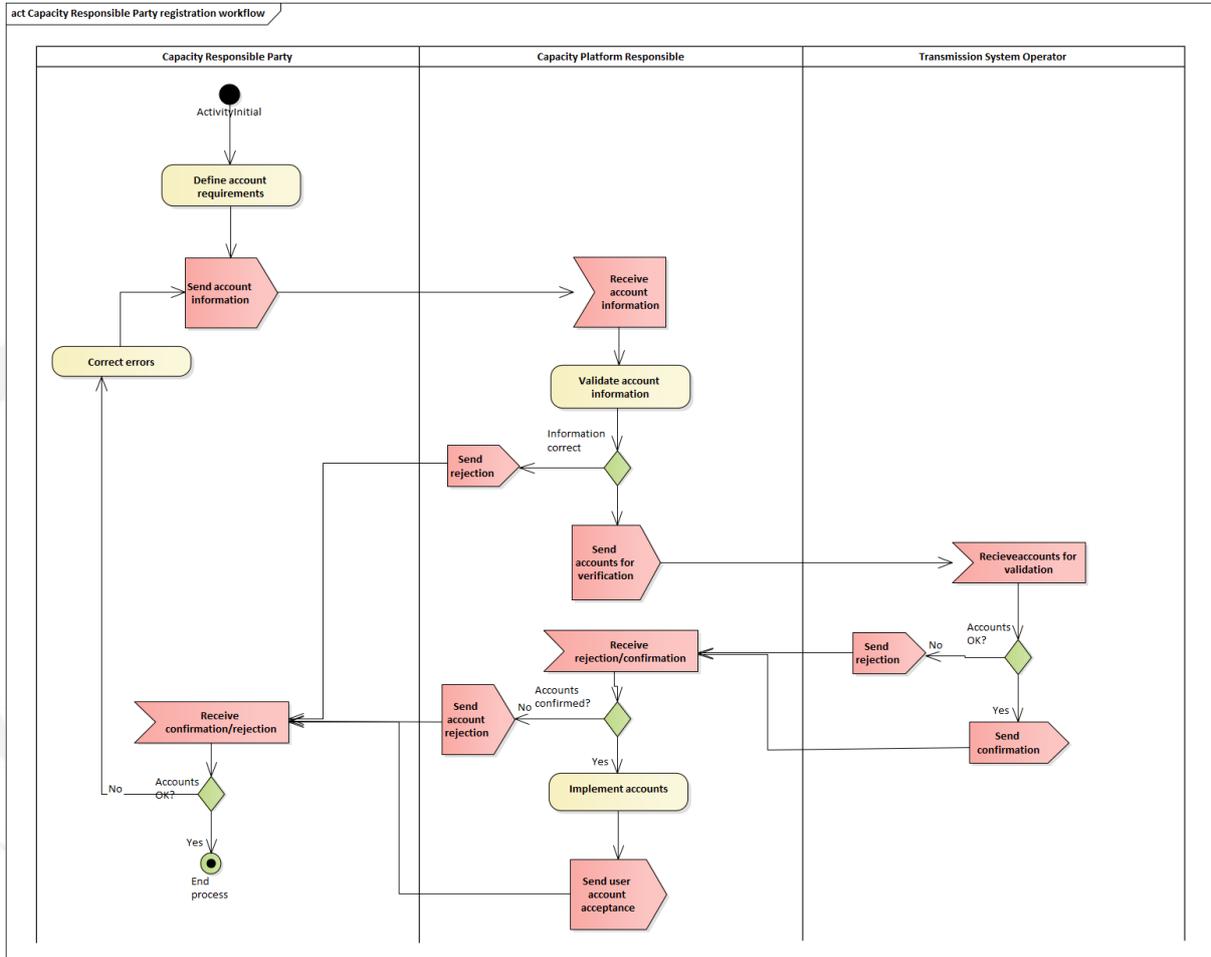
674

675

Figure 12: Bookable Point Administration workflow

676 For the publication of bookable points on the booking platform the Transmission System  
 677 Operator sends to the Capacity Platform Responsible the data for each bookable point, where  
 678 capacity is going to be sold. This includes the data for a new bookable point as well as data  
 679 updates for an existing and already published bookable point.

680 **3.3.3.2 Capacity Responsible Party Registration process**



681  
682

Figure 13: Capacity Responsible Party Registration workflow

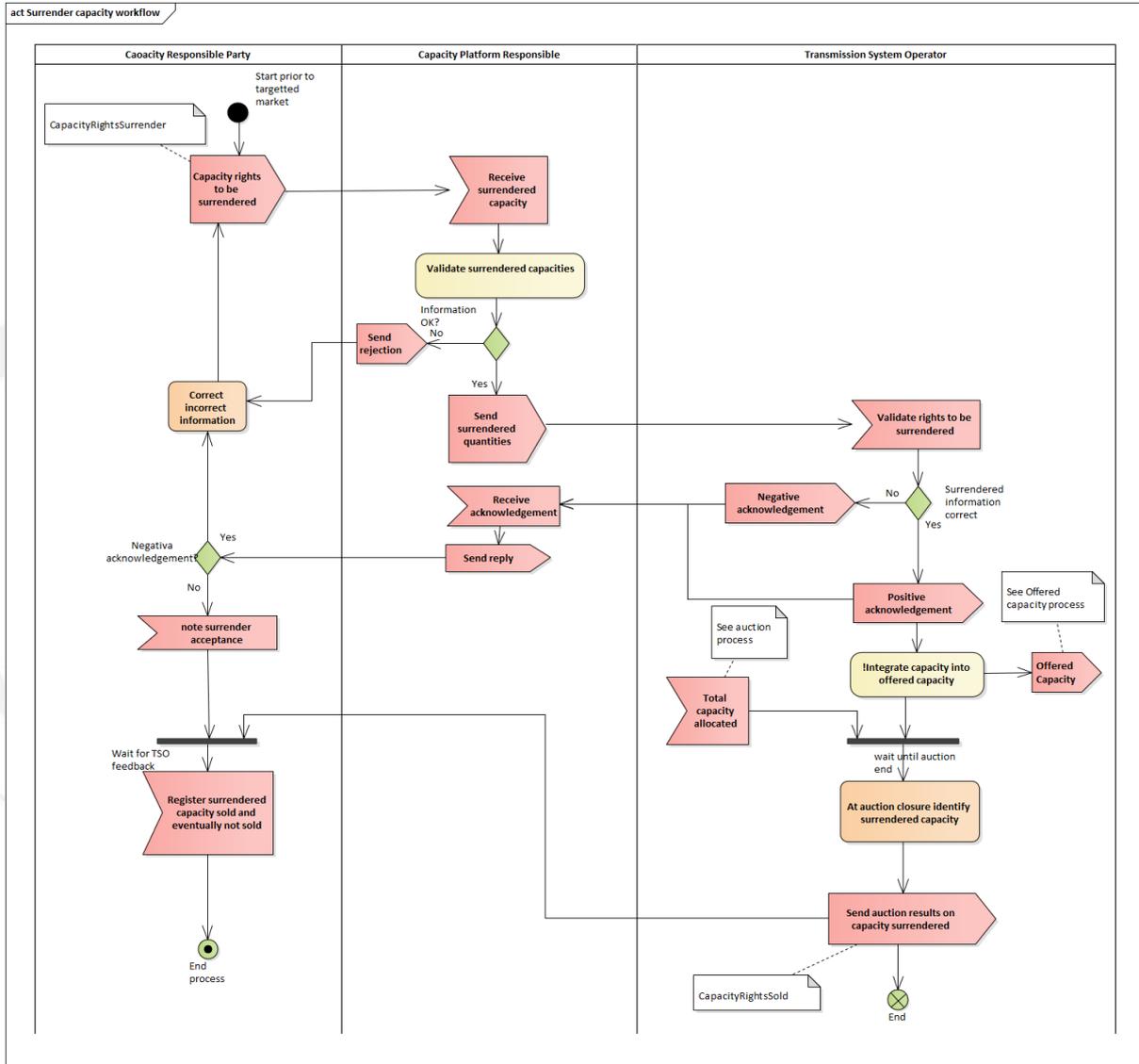
683 Two Capacity Responsible Party registrations are required for each Capacity Responsible  
684 Party. One for the registration to the Transmission System Operator network and one to the  
685 Capacity Platform Responsible.

686 The Capacity Platform Responsible registration request includes at least one authorised  
687 person and at least one Transmission System Operator identification.

688 Capacity Responsible Party accounts are provided by the Capacity Responsible Party or the  
689 Transmission System Operator on behalf of the Capacity Responsible Party to the Capacity  
690 Platform Responsible if required by the Transmission System Operator. The Capacity Platform  
691 Responsible validates the registration data and forwards the valid requests to the identified  
692 Transmission System Operator for approval. The Transmission System Operator  
693 confirms/rejects the approval request. Once confirmed, the registration information is then  
694 sent to the Capacity Responsible Party.



710 **3.3.3.4 Surrender capacity workflow**



711  
712

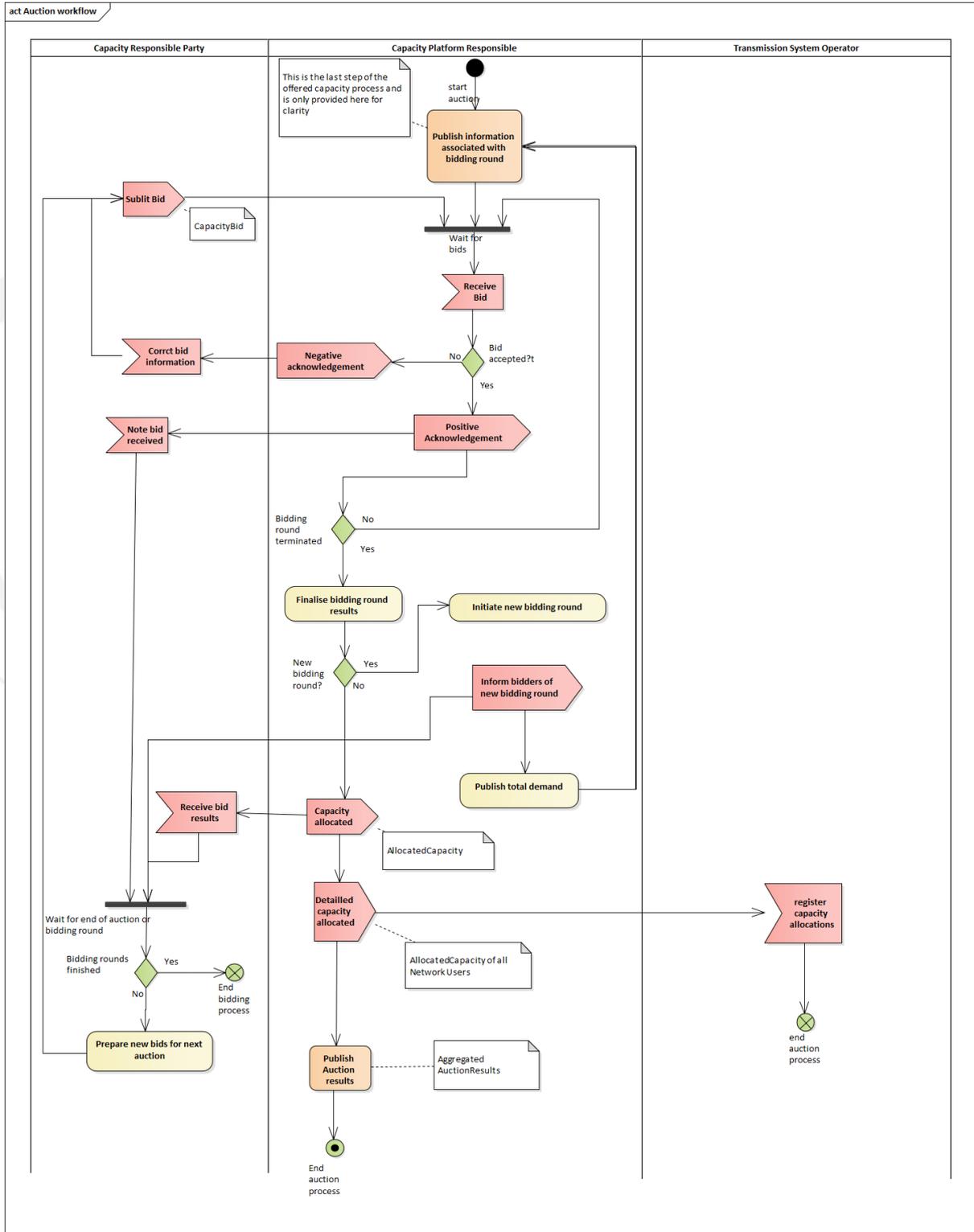
Figure 15: Surrender capacity workflow

713 If a Capacity Responsible Party has more capacity than needed, the excess may be  
714 surrendered to the Capacity Platform Responsible who sends the surrendered capacities to  
715 the relevant Transmission System Operators (depending on the bundling situation) for  
716 inclusion in the offered capacity.

717 The Transmission System Operator will ensure that the capacity that has been surrendered is  
718 correct (bundled capacity not split, capacity available, etc.). If everything is in order the  
719 capacity is integrated into the offered capacity.

720 When the auction is completed, the Transmission System Operator determines the part of  
721 the surrendered capacity that has been sold and informs the Capacity Responsible Party of  
722 the outcome.

723 **3.3.3.5 Auction workflow**



724  
725

Figure 16: Auction workflow

726 Transmission System Operators or the Capacity Platform Responsible on behalf of the  
727 Transmission System Operators shall provide Capacity Responsible Partys who bid in the day-  
728 ahead auctions with the option to have valid unsuccessful bids automatically entered into the  
729 subsequent within-day auction according to Article 15 (10) CAM NC.

730 The Capacity Platform Responsible validates each bid and informs the bid submitter of the  
731 outcome of the validation process. In the case of a rejection, the Capacity Responsible Party  
732 may correct the bid information and resubmit it to the Capacity Platform Responsible before  
733 the bidding round closure.

734 In the case of the bid being successfully validated the Capacity Responsible Party awaits the  
735 outcome of the auction. However, during the bidding round it is possible for the Capacity  
736 Responsible Party to submit additional bids in the case of uniform price auctions, to make  
737 modifications to existing bids or to cancel an existing bid.

738 The Capacity Platform Responsible manages the bids received and any changes provided until  
739 the bidding round closes.

740 Once the bidding round closes, the Capacity Platform Responsible determines the situation  
741 between the capacity requested and the capacity offered.

742 The opening of a new bidding round in case of an ascending clock auction is subject to Article  
743 17 CAM NC.

744 A Transmission System Operator can send to the Capacity Platform Responsible a request to  
745 cancel an ongoing auction due to a force majeure. The Capacity Platform Responsible cancels  
746 the auction and informs all involved Transmission System Operators and Capacity Responsible  
747 Partys about the auction cancellation.

748 Prior to beginning the new bidding round, the Capacity Responsible Partys that participated  
749 in the previous bidding round are informed that a new bidding round will take place with a  
750 new price step. In addition, information on the previous bidding round is published on the  
751 booking platform website.

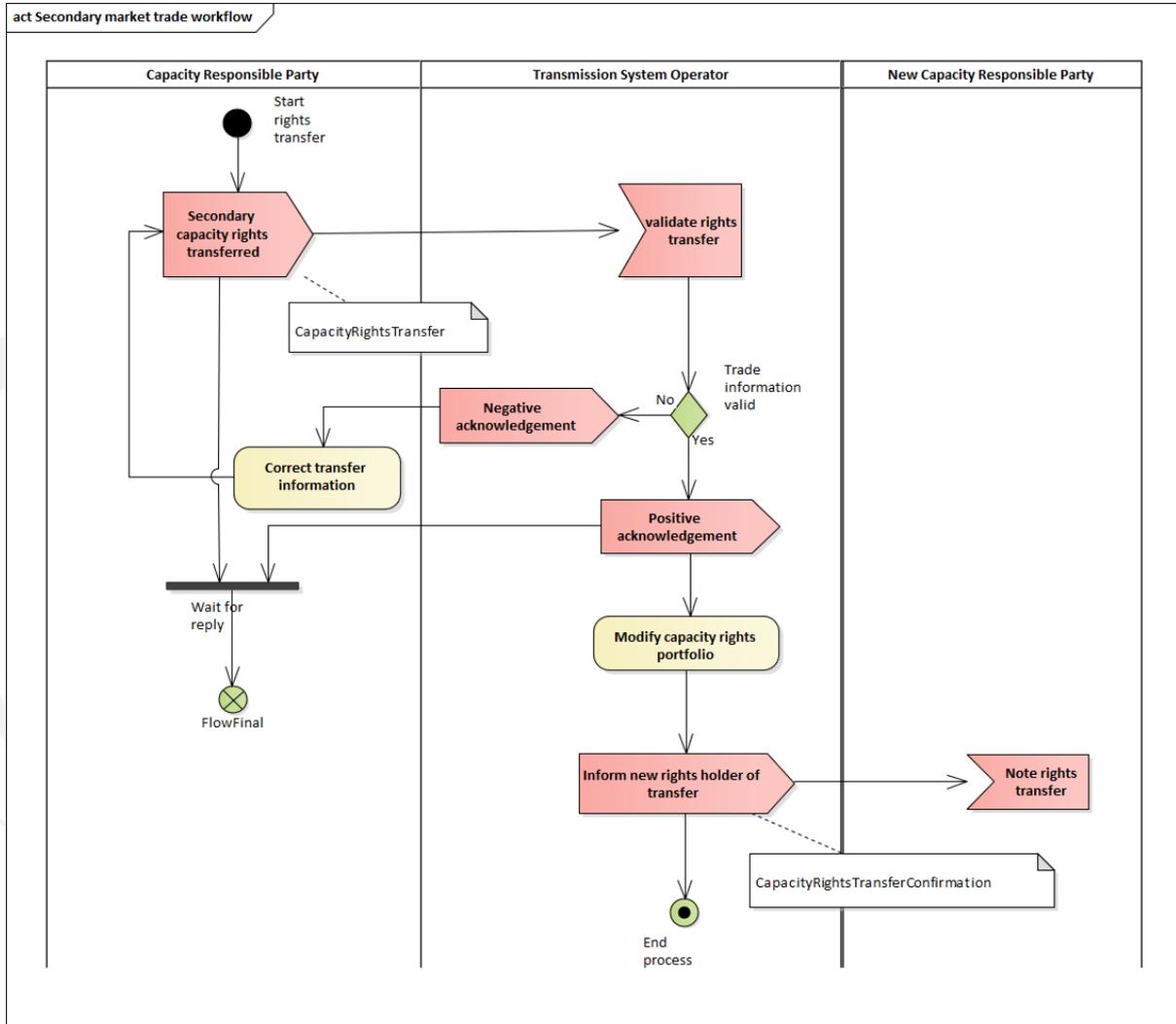
752 At the closure of the auction, the Capacity Platform Responsible allocates the capacity  
753 respecting market rules and informs each Capacity Responsible Party of the outcome of the  
754 auction. The Capacity Platform Responsible also provides the complete list of allocations to  
755 the Transmission System Operators.

756 In a final step the Capacity Platform Responsible publishes the results of the auction.

757 The bidding in the reverse auction takes place in a similar fashion as an ordinary auction.  
758 When the auction closes the Capacity Platform Responsible processes all the bids and then  
759 may provide the list of validated bids to the Transmission System Operator.

760 The Capacity Platform Responsible then informs the Capacity Responsible Partys of their  
761 successful bids.

762 **3.3.3.6 Secondary market trade workflow**



763  
764

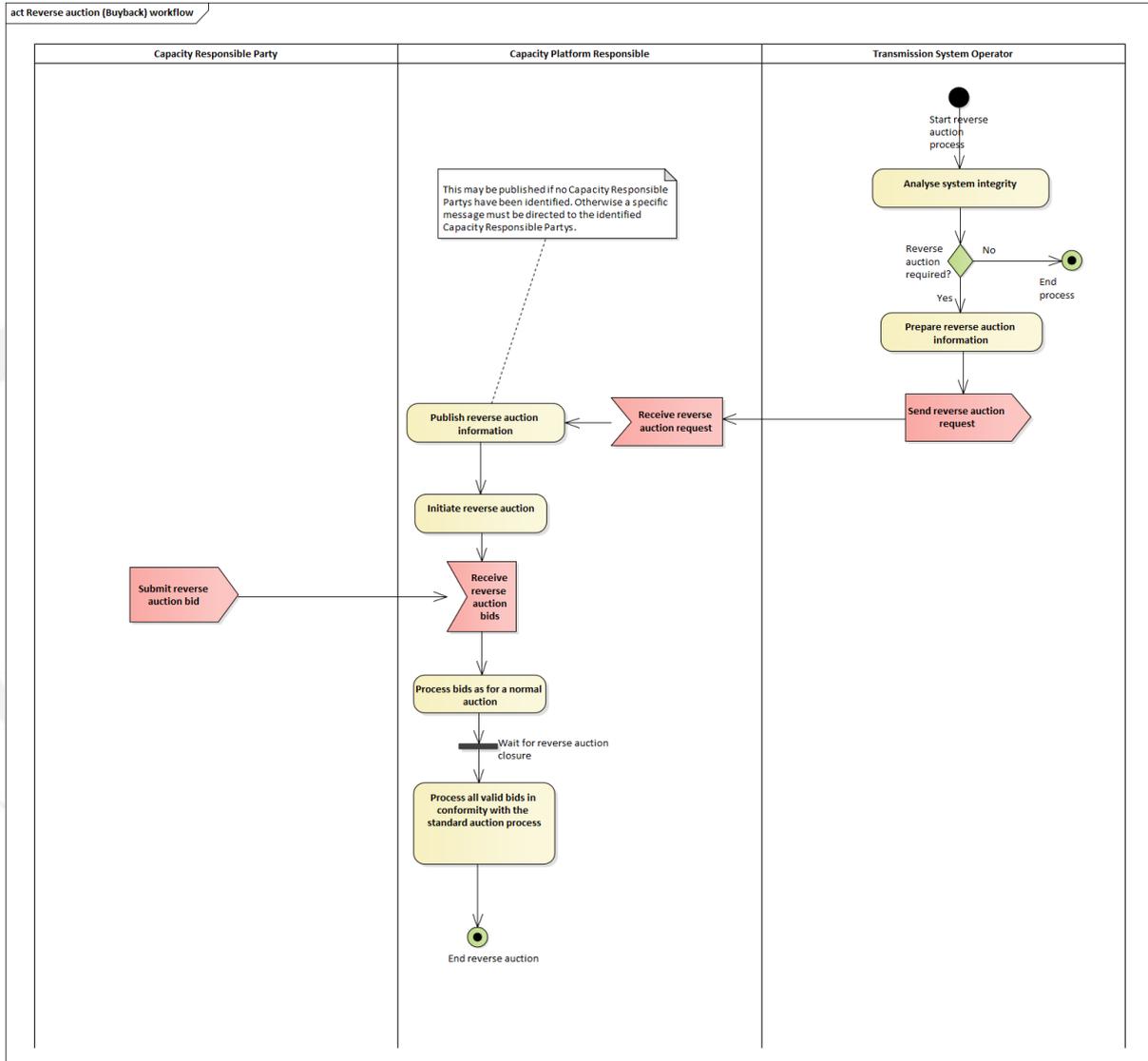
Figure 17: Secondary market trade workflow

765 A secondary market trade process may take place where Capacity Responsible Partys and  
766 eventually Transmission System Operators (in the case of reverse process), may trade the  
767 capacity that has been acquired.

768 The Transmission System Operator(s) must be informed of all trades by either the Capacity  
769 Responsible Partys or the Capacity Platform Responsible on their behalf.

770 The Transmission System Operator(s) validate(s) the trade and when successful inform(s)  
771 directly or through the Capacity Platform Responsible the concerned Capacity Responsible  
772 Partys of the capacity that has been transferred.

773 **3.3.3.7 Reverse auction workflow**



774

775

Figure 18: Reverse auction workflow

776 The Transmission System Operator analyses if there is sufficient technical capacity in the  
777 network to handle the nominations provided by the Capacity Responsible Parties.

778 In the case where there is insufficient technical capacity an oversubscription situation exists  
779 and the Transmission System Operator must initiate a reverse process in order to align the  
780 network requirements with the technical possibilities.

781 Once the amount of overcapacity is determined the Transmission System Operator informs  
782 the Capacity Platform Responsible of the amount to be bought back from the market.

783 The reverse auction process then takes place as defined within the auction process.

784 As alternative to a reverse auction the Transmission System Operator may buy back the  
785 capacity acting in the role of a Capacity Responsible Party on the secondary market.

786 **3.4 Information model requirements**

787 The following information requirements have been identified as the essential but not  
788 exhaustive business information that needs to be catered for in the relevant information  
789 exchanges.

790 **3.4.1 Definitions of the attributes used in all the models**

Name	Description
Account	An account assigned by a Transmission System Operator or by Area Coordinator to a Capacity Responsible Party used for capacity and balancing accounting. This is also known as a Balancing Group or Portfolio code.  This is identified with the InternalAccountIdentification (see definition).
AdditionalComments	Additional text may be provided by the Transmission System Operator or the Capacity Platform Responsible to provide additional non-processable information.
AllocationIdentification	The identification of the contractual reference under which the capacity was assigned by an Capacity Platform Responsible.
AllocationIdentificationTransferor	The identification of the contractual reference of a secondary market transferor under which the capacity was assigned by a Capacity Platform Responsible.
AuctionIdentification	The identification of the auction where the capacity rights were offered.
AuctionPeriod	The period during which an auction occurs.
AuctionSequence	The identification of the specific order for the auction of the capacity products as indicated by the Transmission System Operator.
AuctionType	The type of the auction algorithm, e.g. uniform price auction and ascending clock auction.

Name	Description
AuthorisedPersonIdentification	The identification of a person authorised by a Capacity Responsible Party.
AvailabilityType	The identification of the type of availability of the capacity (e.g. firm or interruptible).
BIC	Bank Identifier Code.
BidAmount	The total quantity of the bid.
BiddingRound	<p>The identification of the auction round where the capacity rights were allocated in an ascending clock auction.</p> <p>A uniform price auction consists of a single bidding round.</p>
BiddingRoundPrice	The price that has been established for a given bidding round.
BidIdentification	The identification of the Capacity Responsible Party's bid provided by the Capacity Platform Responsible or the Capacity Responsible Party.
BidPrice	<p>The price bid on top of the starting price for the capacity requested.</p> <p>The price bid (premium/surcharge) is fixed. The regulated tariff might be a floating or fixed amount depending on the tariff arrangements in place.</p>
BidRollover	The indication to rollover non-allocated capacity bids from the Day Ahead auction to the first Within-Day auction.
BillingPostalAddress	The billing address (of a person or business) to which mail is delivered.
BookablePoint	A bookable point may be defined as the identification of a (inter)connection point (EIC), the flow direction, the “to TSO” and “from TSO” or in the case of one Transmission System Operator at both sides of the connection point

Name	Description
	the “to Market area” and the “from Market area”; in case of an unbundled point “to TSO” or “from TSO” is not required.
BookablePointName	The name of a bookable point as defined by the Transmission System Operator that can be displayed.
BookablePointIdentification	A sequential number distinguishing one entity from another, for example for distinguishing bookable points.
BookablePointType	The type of the bookable point such as LNG, storage, transmission, production, supply,...
BookedCapacity	Capacity already allocated to Capacity Responsible Partys at a ConnectionPoint.  This information may be transferred by the Transmission System Operator for the yearly auction according to Article 19 (5(a) & (b)) CAM NC.
BookingCosts	The costs associated with the capacity allocation.
BundledUnbundledIndicator	Identification of way in which the capacity rights have been packaged (i.e. bundled, unbundled).
CapacityAmount	The amount of capacity specified for the period.
CapacityAmountAllocated	The amount of capacity allocated to a bid.
CapacityAmountOffered	The amount of capacity offered for a given auction.
CapacityAmountSold	The amount of capacity rights that have been sold in an auction, aggregated across all Capacity Responsible Partys.
CapacityAmountSurrendered	The amount of capacity that have been surrendered by a Capacity Responsible Party to

Name	Description
	a Transmission System Operator to be presented for sale on an auction.
CapacityAmountUnsold	The amount of capacity that has not been sold.
CapacityAmountForAuction	The amount of capacity that is being requested in a reverse auction.
CapacityAmountTransferred	The amount of capacity that has been transferred between Capacity Responsible Partys on the secondary market.
CapacityBidAmount	The total quantity of a capacity bid.
CapacityOfferIdentification	Identification assigned by a Transmission System Operator to identify an offered capacity instance.
CapacityPriceAmount	The price of capacity that is offered in a reverse auction.
CapacityPriceSold	The price for the sale of capacity.
CapacityResponsibleParty	A party that employs the System Operator to transport the gas.
CapacityResponsiblePartyIdentification	The identification of a Capacity Responsible Party that has acceded to and is compliant with all applicable legal and contractual requirements that enable him/her to book and use capacity on the relevant Transmission System Operators' network under a Capacity Contract (origin: CAM NC).
CapacityResponsiblePartyName	The name of the legal entity acting as Capacity Responsible Party.
ClearingPrice	<p>The price that successful Capacity Responsible Partys shall pay at a specific auction to the concerned Transmission System Operator.</p> <p>It is determined as set out in Article 17 (19) (in an ascending clock auction) and Article 18 (11) (in a uniform price auction) CAM NC.</p>

Name	Description
CompetingProductSequence	The sequence number of a product that is to be placed in competition in an auction.
ConnectionPoint	The point where gas sale/purchase/trade/transfer may take place.
ConnectionPointIdentification	The identification of the ConnectionPoint.
ContactType	The type of a Capacity Responsible Party contact such as dispatching, capacity operation and invoicing.
ContractReference	The reference of a Transmission System Operator assigned contract.
Conversion	The quantity of unbundled capacity already booked that may be converted into bundled capacity in case of a successful firm capacity bid.
ConversionAmount	The unbundled conversion amount.
ConversionReference	The reference to unbundled booked capacity that is used to auction for bundled capacity.
CreditLimitAmount	The amount of a credit limit.
CreditLimitIdentification	The identification of a credit limit assignment to a Capacity Responsible Party.
CreditLimitUsedAmount	The amount of a credit limit used on a primary or secondary market by a Capacity Responsible Party.
Currency	The identification of a currency as defined in ISO 4217.
Email	An electronic mail address.
FamilyName	Family name of a person.
Fax	The telephone number of a fax machine.

Name	Description
FirstName	Part of a person's full nomenclature.
FlowDestination	The direction of the gas flow.
FromTso	The Transmission System Operator where the gas is exiting the network.
FromMarketArea	The Market area where the gas is exiting the network.
FrameworkIdentification	Identification code for the framework that represents a combination of products and multiplication factors for the calculation of a credit limit.
GasType	The type of gas which may be H-gas or L-gas.
IBAN	International Bank Account Number.
InterconnectionPoint	A physical or virtual point connecting adjacent entry-exit systems or connecting an entry-exit system with an interconnector, in so far as these points are subject to booking procedures by Capacity Responsible Partys.
InterconnectionPointIdentification	An energy identification code (EIC) distinguishing interconnection points.
InternalAccountIdentification	The identification of an account (balancing group or portfolio code) managed by a Transmission System Operator for a Capacity Responsible Party that is registered in the Transmission System Operator's area.
InternalAccountTransferee	The internal account of the transferee of secondary rights.
InternalAccountTransferor	The internal account of the transferor of secondary rights.
InterruptibleReference	The reference identifying interruptible capacity.
LargePriceStep	A fixed amount that is defined per auction.

Name	Description
MarketArea	<p>A market area represents the virtual merger of transmission systems and downstream distribution systems to form a single balancing zone. In this respect, market areas are comparable to trading zones.</p> <p>This is identified with the FromMarketArea and ToMarketArea (see definition).</p>
MaxBidPercentage	<p>This information defines the maximum quantity that a bidder may bid in the auction expressed as a percentage.</p>
MinimumCapacityAmount	<p>The Minimum Amount of Capacity for the respective Standard Capacity Product which the Capacity Responsible Party is willing to be assigned (origin: CAM NC).</p> <p>The MinimumCapacityAmount is only used in case of uniform price auctions, where it is mandatory.</p>
MobileTelephoneNumber	<p>The telephone number of a wireless handheld device that allows users to make calls and send text messages, among other features.</p>
MultiplicationFactor	<p>The factor that is used to multiply the value of a Capacity Responsible Party's transactions of a given type, in order to calculate the used value of the credit limit (depending on local market rules). This information is delivered by the Transmission System Operator to the Capacity Platform Responsible.</p>
NetworkUserIdentification	<p>The identification of a Capacity Responsible Party that has acceded to and is compliant with all applicable legal and contractual requirements that enable him/her to book and use capacity on the relevant Transmission System Operators' network under a Capacity Contract (origin: CAM NC).</p>

Name	Description
NetworkUserName	The name of the legal entity acting as Capacity Responsible Party.
OfficeTelephoneNumber	The telephone number of a standard telephone in an office that is wired to a telephone line.
Over-nomination	Over-nomination means the entitlement of Capacity Responsible Partys who fulfil minimum requirements for submitting nominations to request interruptible capacity at any time within-day by submitting a nomination which increases the total of their nominations to a level higher than their contracted capacity (Art. 3(25) CAM NC).
Period	The period covered for the capacity amount in question.
PremiumPrice	The premium price established by the capacity platform following an auction by identifying the highest bid price in the auction.
PreviousRoundDemandedQuantity	The amount of capacity that was requested in a previous bidding round.
ProductIdentification	The identification of a credit limit product that has a multiplication factor.
ProductIdentificationReference	The identification of the product referenced in an auction.
PublicationDateTime	The publication date and time of a reverse auction.
RegisteredPostalAddress	The address (of a person or business) to which mail is delivered, as distinct from the actual street address.
ReservePrice	The minimum eligible floor price in the auction, being equal to the Regulated Tariff.
ReverseAuctionType	The type of reverse auction that is used by the Transmission System Operator to solve a

Name	Description
	technical congestion in the transmission system (Buyback).
RolledOverIndication	An indication that capacity has been rolled over from a previous auction.
RolloverReference	The identification of the information necessary for a rollover.
ShareRate	A portion shared between Transmission System Operators of the auction premium.
SmallPriceStepAmount	The amount of each small price step.
SmallPriceStepNumber	The number of small price steps included in the LargePriceStep.
StandardCapacityProductType	The duration of the standard capacity product: yearly, quarterly, monthly, daily or within-day.
StartingPrice	The price defined by the Transmission System Operator which is the minimum price in an auction for a certain capacity product.
Status	The condition of an object (e.g. Auction, Capacity Responsible Party, bookable point), such as rejected, modified, cancelled, valid, active...
SubmittorIdentification	The identification of the submittor of a document.
SubmittorReference	The identification of the reference to a document sent by a submittor.
TermsAndConditionsAccepted	A flag to indicate that the Terms and Conditions have been accepted by the authorised user.
Timestamp	The date and time of the current credit limit situation.
Title	Prefix added to a person's name.

Name	Description
TotalCreditLimit	The total credit limit provided by the Transmission System Operator and assigned to the Capacity Responsible Party.
TotalOfferedCapacity	The total amount of capacity offered in the auction.
ToTso	The Transmission System Operator where the gas is entering the network.
ToMarketArea	The Market area where the gas is entering the network.
TradeNature	Only used in secondary trades - A classification of a secondary market trade proposal to be either an transfer of ownership (assignment) or a transfer of use.
TradingMarketType	Market in which the Capacity Responsible Party is allowed to trade (Primary or Secondary market).
TradingProcedure	Only used in secondary trades - A classification of the different types of secondary market transactions: Call for Orders (CFO), First Comitted First Served (FCFS) or Over the Counter (OTC).
TransfereIdentification	The identification of a Capacity Responsible Party that has bought transferred capacity rights on the secondary market.
TransferorIdentification	The identification of a Capacity Responsible Party that has transferred capacity rights on the secondary market.
TSOIdentification	The identification of a Transmission System Operator.
TSOReference	The identification of the reference of the TSO offered capacity.

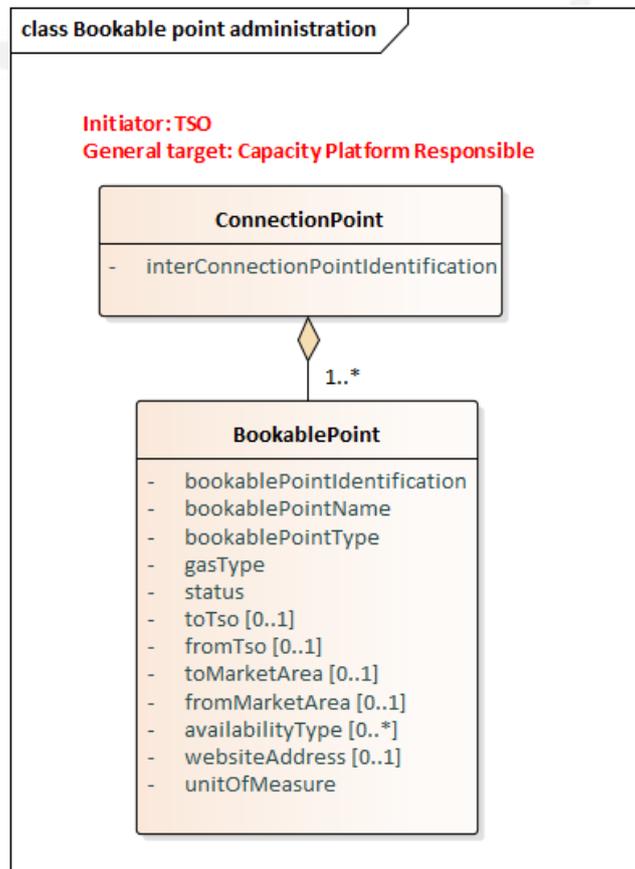
Name	Description
TsoPriceCap	The price limit that a Transmission System Operator is willing to pay for capacity in a reverse auction.
UnderlyingSurcharge	Only used in secondary trades - is the surcharge of the primary transaction underlying the secondary market deal.
UnderlyingTariff	Only used in secondary trades - is the regulated charge of the primary transaction underlying the secondary market deal.
UnitOfMeasure	The unit of measure in which the capacity amount is expressed.
UnitOfPrice	The unit of measure in which the price is expressed.
Upgrade	The quantity of interruptible capacity already booked that may be upgraded into firm capacity in case of a successful firm capacity bid.
UpgradeAmount	The interruptible to firm upgrade amount.
UpgradeReference	The reference to interruptible booked capacity that is used to auction for firm capacity.
ValidityPeriod	The period of validity of an object.
VatCode	The value added tax code assigned by a national organisation.
WebsiteAddress	URL of a TSO-Website, that contains all commercial terms and conditions.

791 **3.5 Requirements per process**

792 Note 1: Wherever the indication [0..1] appears against an attribute this signifies that the  
793 attribute in question is optional. For example, the attribute “PriceSteps [0..1]” is not used in  
794 the case of uniform price auctions.

795 Note 2: The information outlined in the class diagram does not represent any structural  
796 constraints. It only represents the basic information requirements for a given information  
797 flow, knowing that a given piece of information may be provided by an equivalent set of  
798 attributes. This BRS is targeted towards business-to-business application interfaces or in a  
799 more user-orientated fashion through a web-based service.

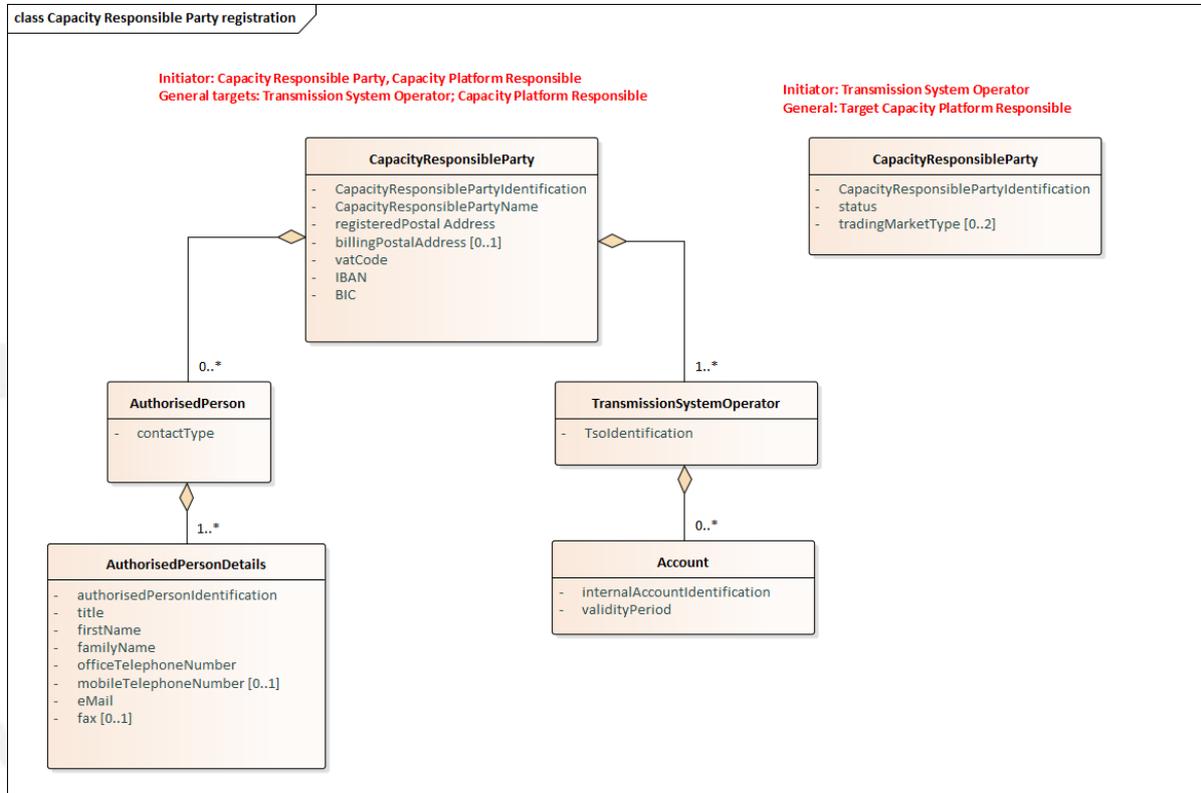
800 **3.5.1 Bookable point administration process**



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Figure 19: Bookable point administration requirements

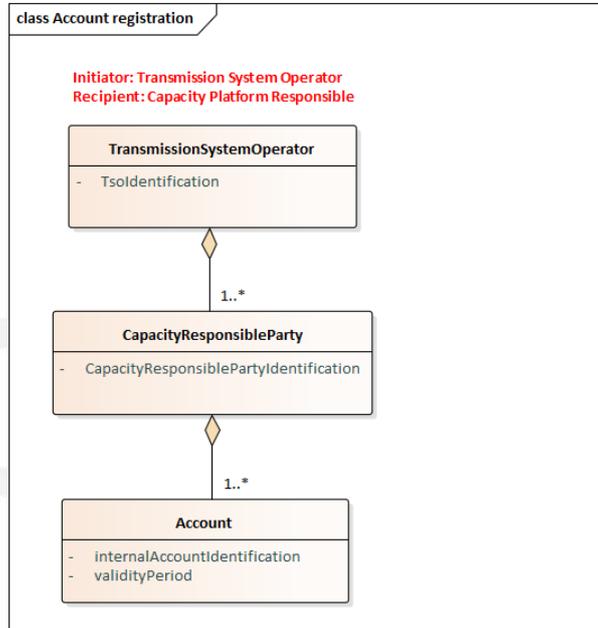
803 **3.5.2 Capacity Responsible Party Registration process**



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Figure 20: Capacity Responsible Party registration requirements

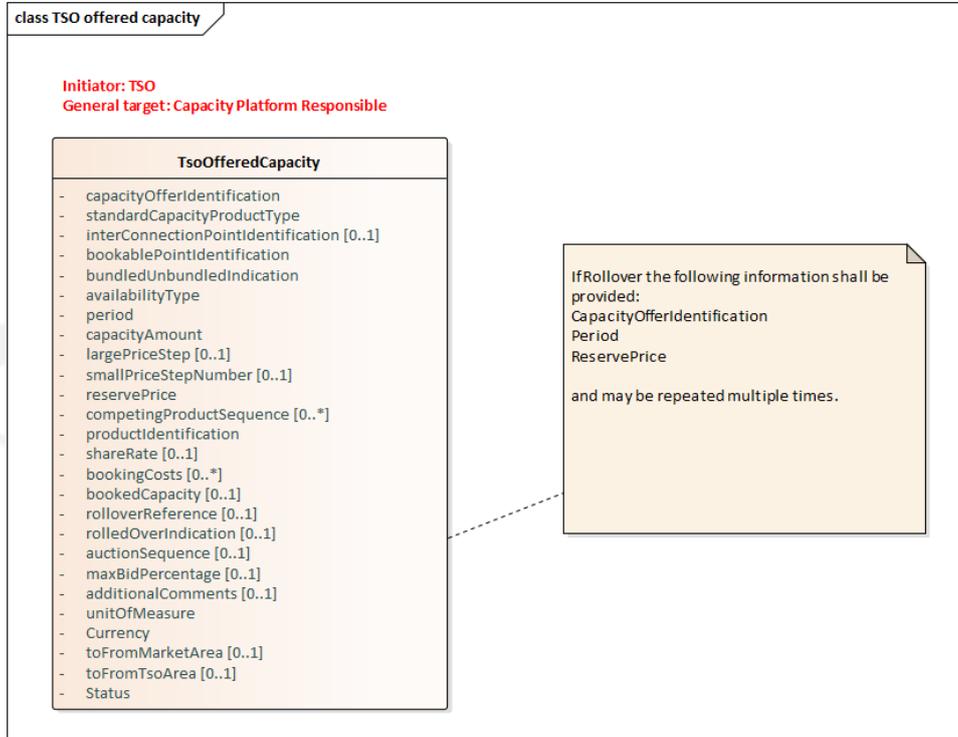
806 **3.5.3 Account Registration process**



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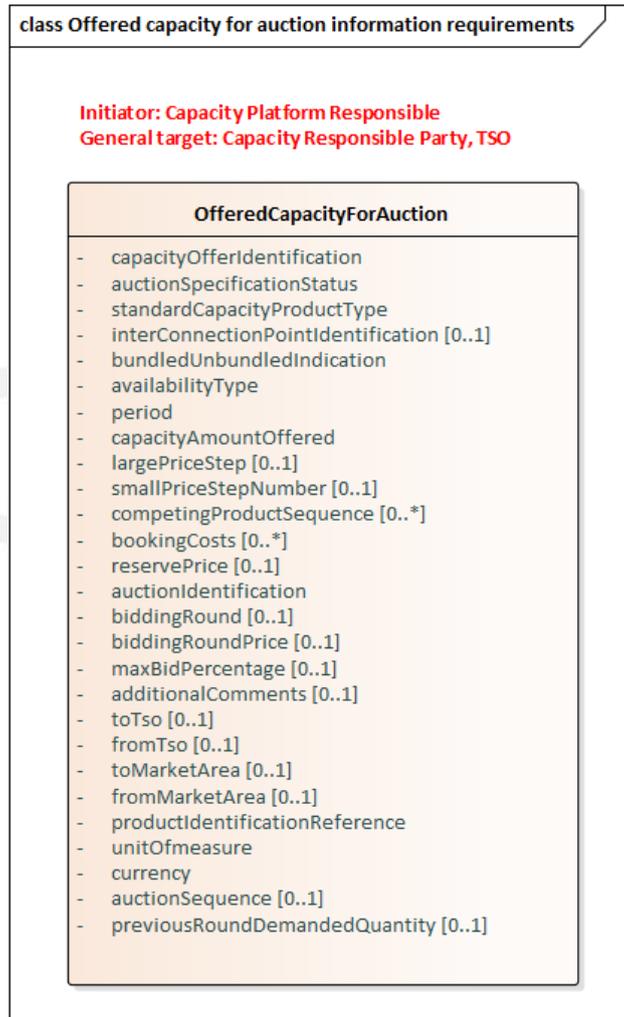
Figure 21: Account registration requirements

809 **3.5.4 Offered capacity process**



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**Figure 22: Transmission System Operator Offered capacity information requirements**

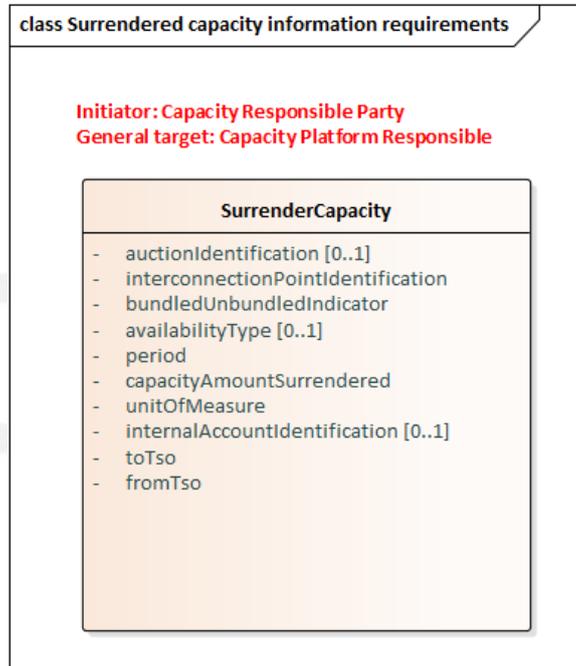


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Figure 23: Offered capacity information requirements

817 **3.5.5 Surrender capacity process**

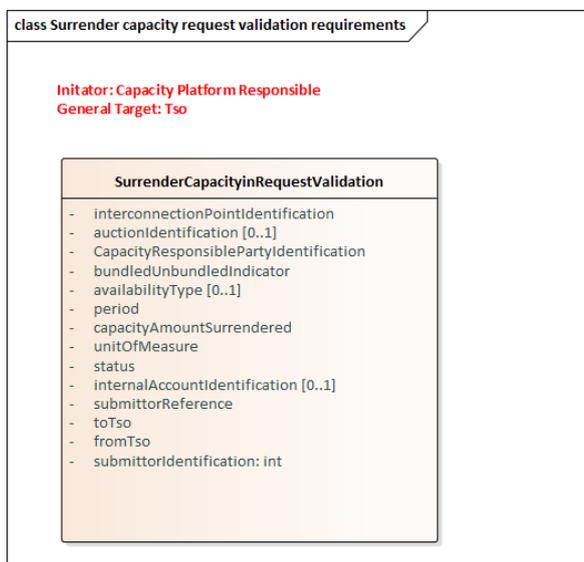
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Figure 24: Surrendered capacity information requirements

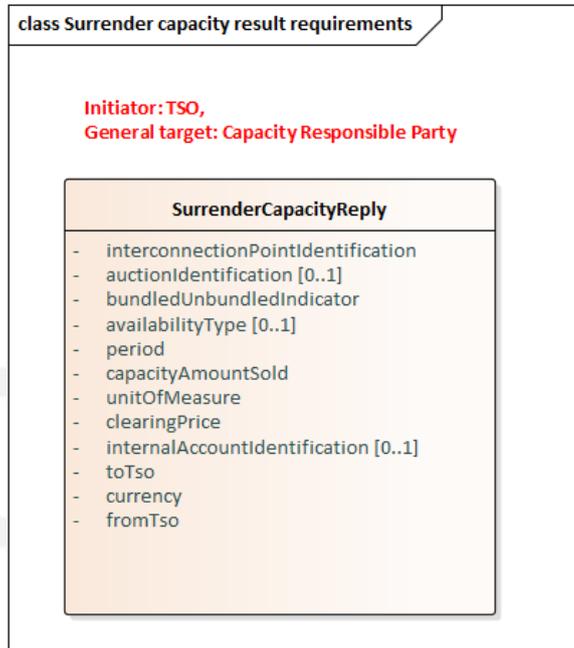


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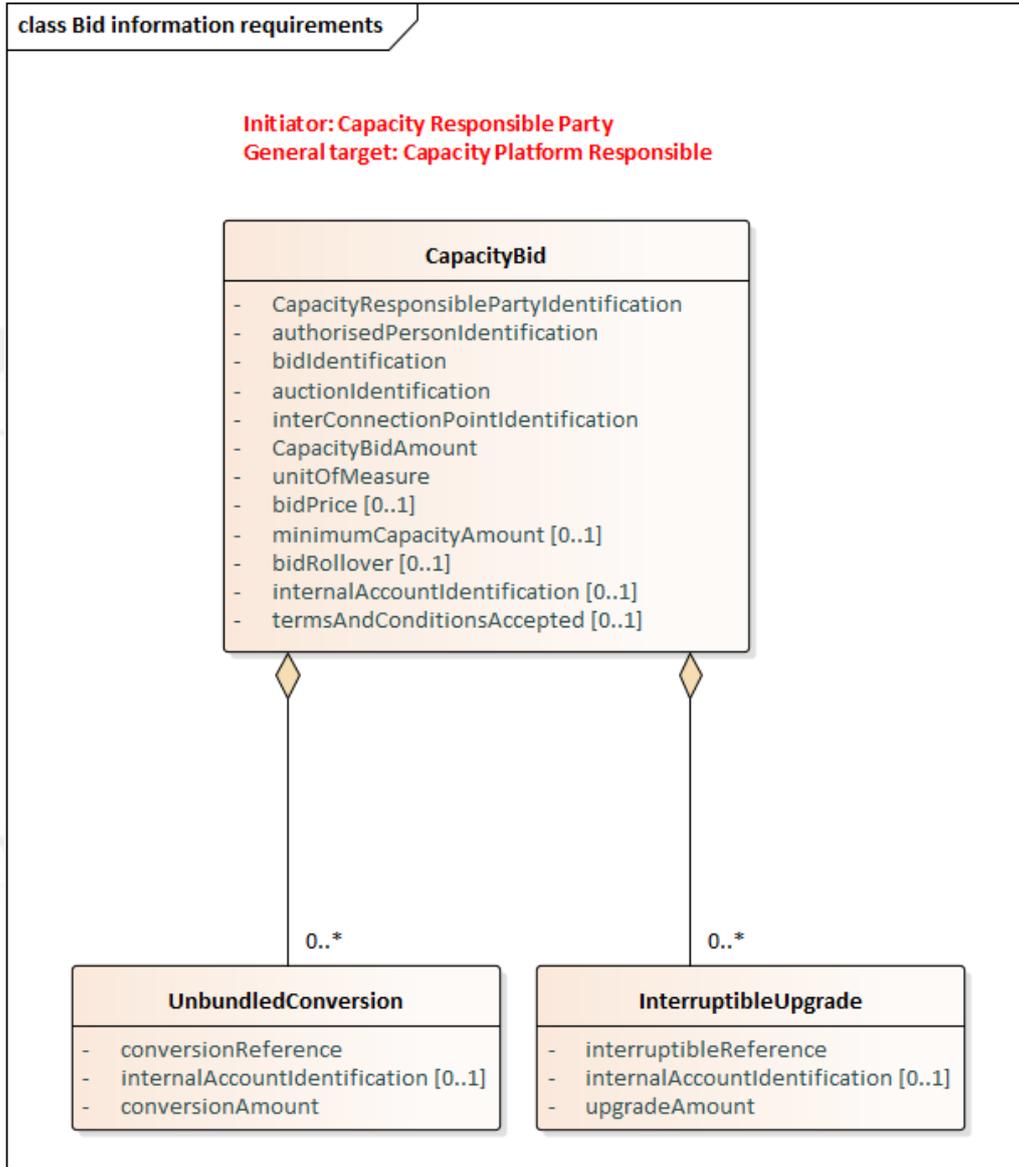
Figure 25: Surrender capacity request validation requirements



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Figure 26: Surrender capacity result requirements

826 **3.5.6 Auction process**

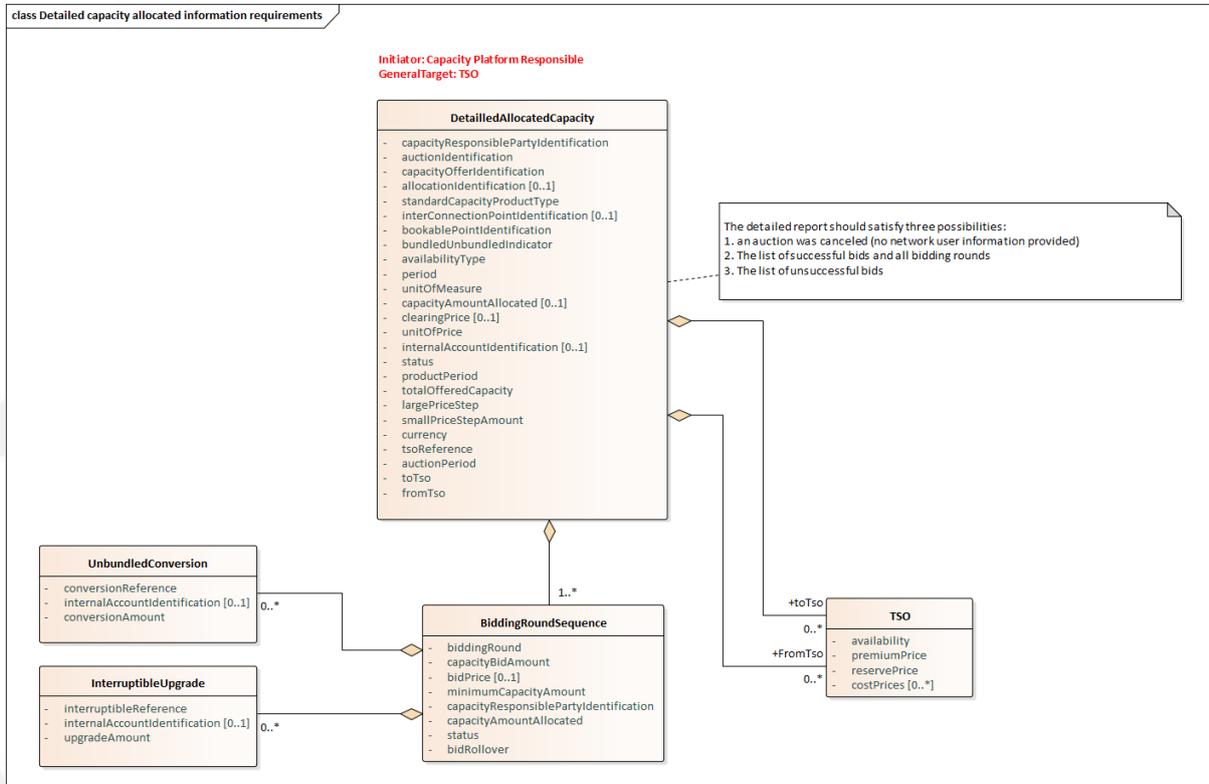


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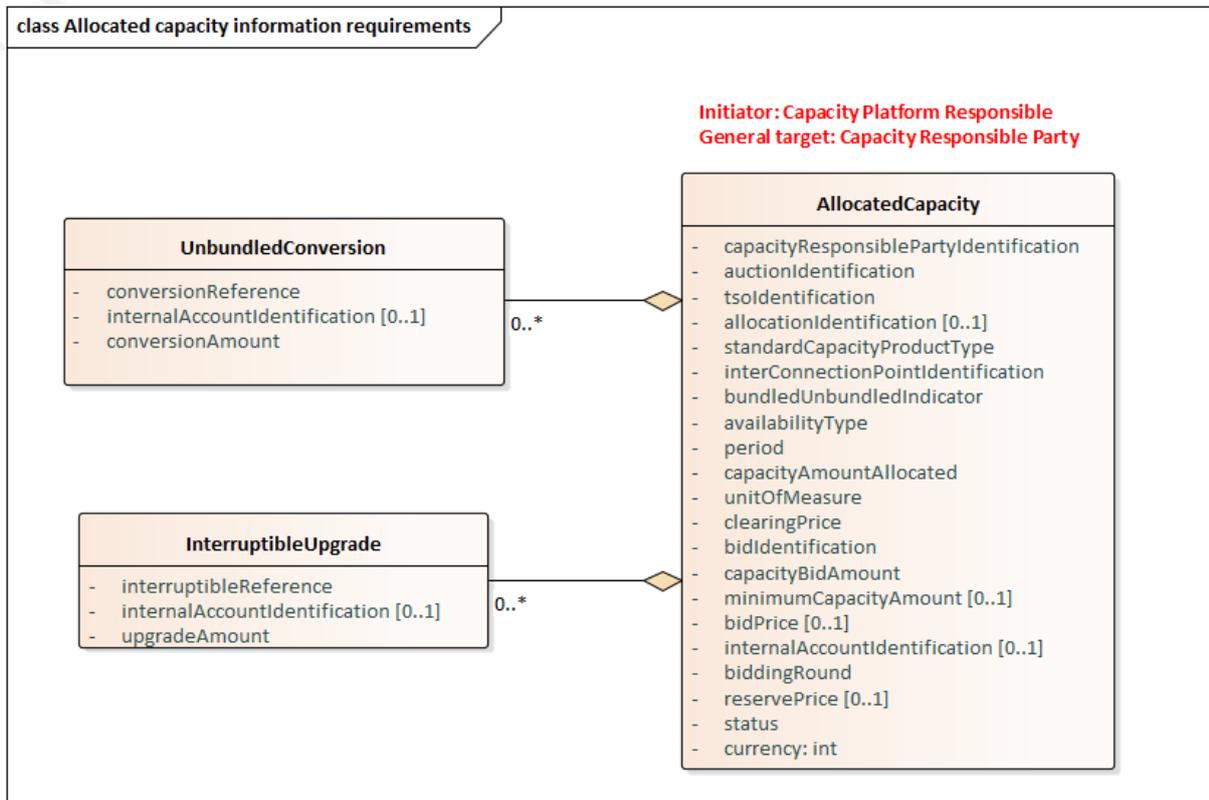
Figure 27: Bid information requirements



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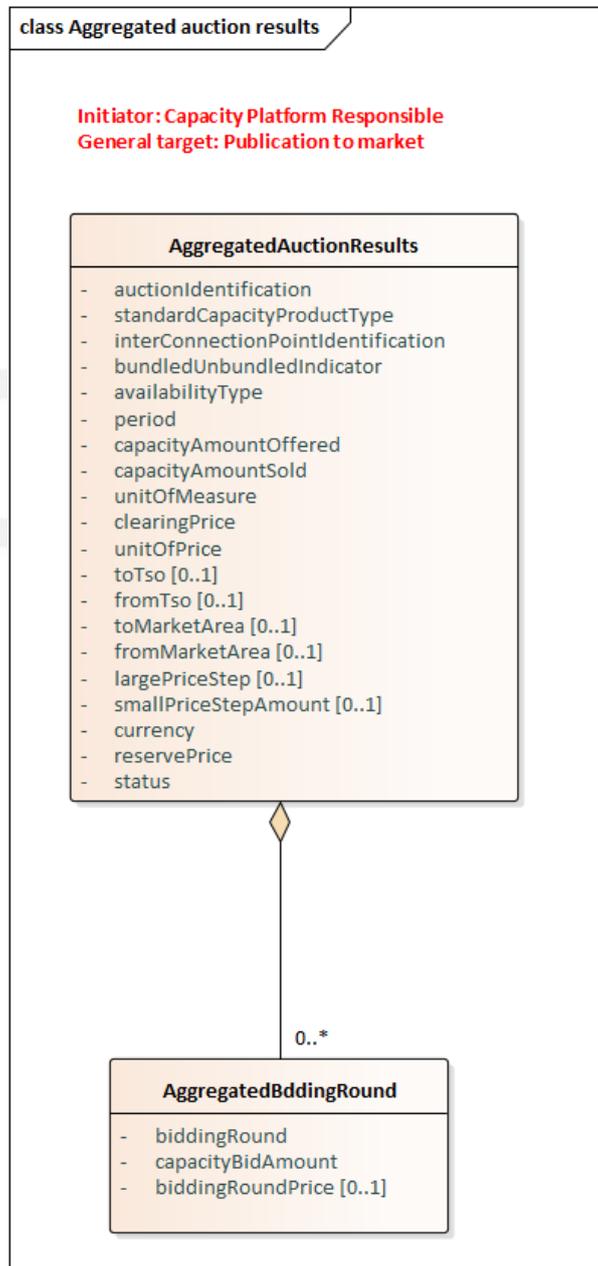
Figure 28: Detailed capacity allocated information requirements



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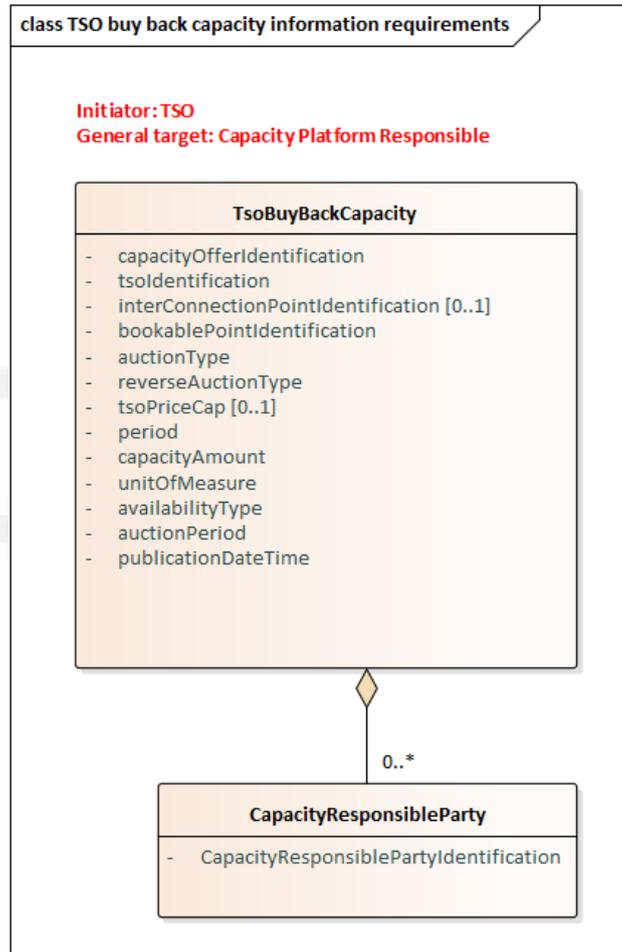
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Figure 29: Allocated capacity information requirements



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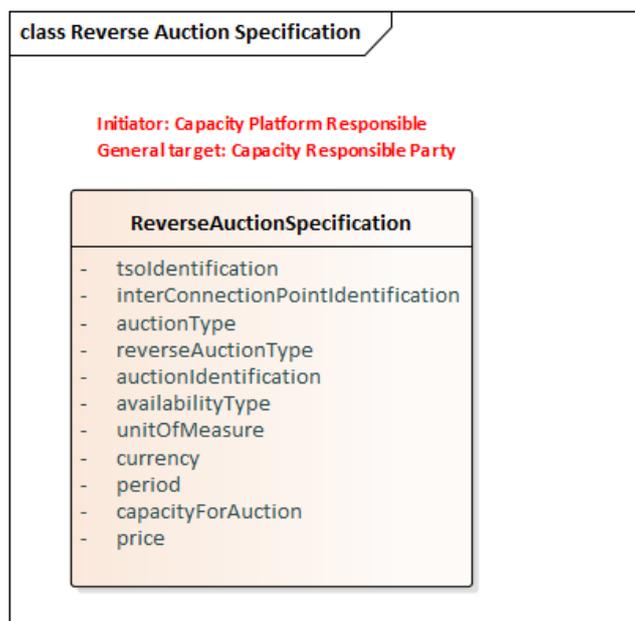
Figure 30: Aggregated auction results



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Figure 31: Transmission System Operator Buy back capacity information requirements

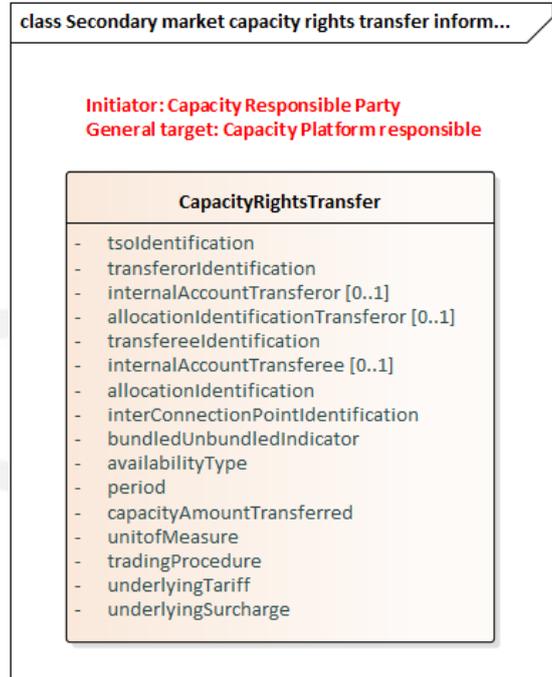


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Figure 32: Reverse auction information requirements

840 **3.5.7 Secondary market transfer process**



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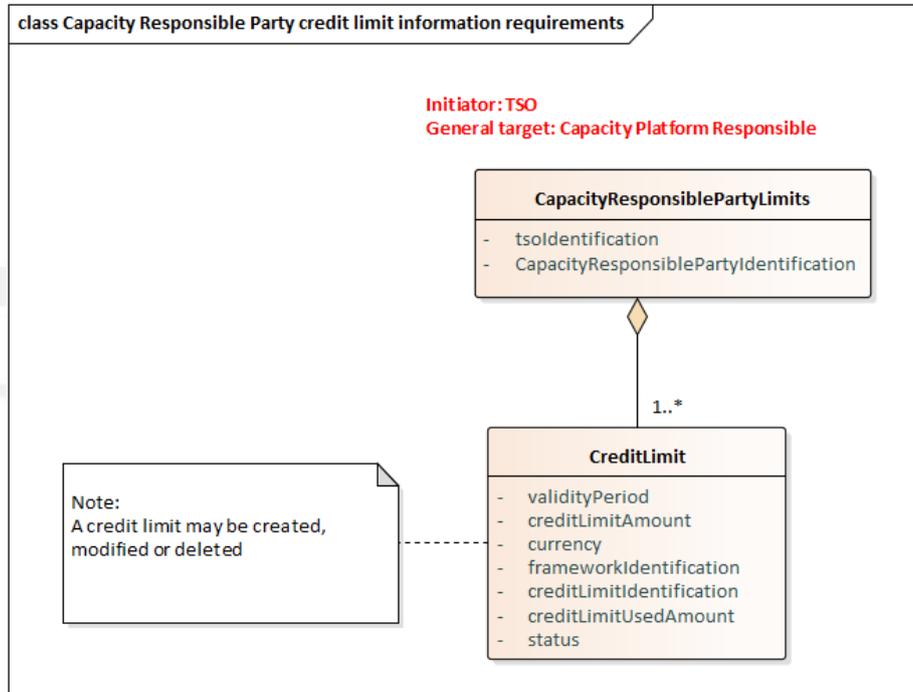
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Figure 33: Secondary market capacity rights transfer information requirements

844 **3.5.8 Credit limit process**

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Figure 34: Capacity Responsible Party credit limit information requirements

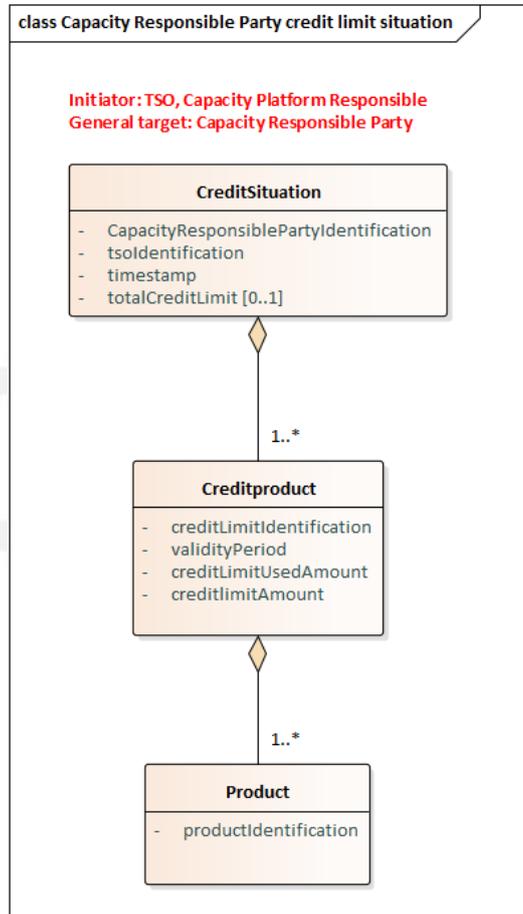


Figure 35: Capacity Responsible Party credit situation requirements

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852 **4 Common Data Exchange Solution Table**

Information Flow	From Party Role Value	To Party Role Value	Confidentiality Level	Common Data Exchange Solution
Bookable Point Registration	Transmission System Operator	Capacity Platform Responsible	<b>Private</b>	Recommended- Interactive
Network User Registration	Registered Network User	Transmission System Operator	<b>Private</b>	Recommended - Interactive
Network User Registration to Capacity Platform Responsible	Registered Network User	Capacity Platform Responsible	<b>Private</b>	Recommended - Interactive
Approved Network Users	Capacity Platform Responsible	Registered Network User	<b>Private</b>	Recommended - Interactive
Approved Network Users	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Approved Network Users	Transmission System Operator	Capacity Platform Responsible	<b>Private</b>	Recommended - Interactive
Surrender Capacity Rights	Registered Network User	Capacity Platform Responsible	<b>Private</b>	Interactive Optional – Document Based
Surrender Capacity Rights	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Offered Capacity	Transmission System Operator	Capacity Platform Responsible	<b>Private</b>	Recommended – Document Based
Offered Capacity	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Offered Capacity	Capacity Platform Responsible	Registered Network User	<b>Public</b>	Document Based Optional - Interactive
Credit Limit	Transmission System Operator	Capacity Platform Responsible	<b>Private</b>	Recommended – Document Based
Credit Limit	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Capacity Bid	Registered Network User	Capacity Platform Responsible	<b>Private</b>	Document Based Optional - Interactive

Allocated Capacity	Capacity Platform Responsible	Registered Network User	<b>Private</b>	Document Based Optional - Interactive
Detailed Capacity Allocated	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Aggregated Auction Results	Capacity Platform Responsible	All but Registered Network User	<b>Public</b>	Interactive Optional - Document
Aggregated Auction Results	Capacity Platform Responsible	Registered Network User	<b>Public</b>	Document Based Optional - Interactive
Surrendered Capacity Sold	Transmission System Operator	Registered Network User	<b>Private</b>	Document based Optional - Interactive
Reverse Auction Requirements	Transmission System Operator	Capacity Platform Responsible	<b>Private</b>	Recommended – Document Based
Reverse Auction Bid	Registered Network User	Capacity Platform Responsible	<b>Private</b>	Interactive Optional – Document Based
Allocate Reverse Auction Results	Capacity Platform Responsible	Transmission System Operator	<b>Private</b>	Recommended – Document Based
Allocate Reverse Auction Results	Capacity Platform Responsible	Registered Network User	<b>Private</b>	Interactive Optional – Document Based
Secondary Market Sales	Registered Network User	Transmission System Operator	<b>Private</b>	Interactive Optional – Document Based
Secondary Market Sales	Transmission System Operator	Registered Network User	<b>Private</b>	Interactive Optional – Document Based

853 **The common solutions are not subject to the regulation covered by the Network Code for Interoperability and Data Exchange Rules and are provided for guidance.**