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

8

**Version 13 – 2015-09-02**

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## 132 **1 Introduction**

133 The Regulation (EU) No. 984/2013 for Capacity Allocation Mechanism (CAM NC) and The  
134 Regulation (EU) No. 490/2012 for Congestion Management Procedures (CMP guidelines) set  
135 forth provisions regarding capacity allocation mechanisms and congestion management  
136 procedures. The CAM NC defines a standardised capacity allocation mechanism in the form  
137 of an auction procedure for relevant Interconnection Points within Europe, including the  
138 underlying Standard Capacity Products to be offered and the description of how cross-  
139 border capacity is to be allocated. The manner in which adjacent Transmission System  
140 Operators cooperate in order to facilitate capacity sales, taking into consideration general  
141 commercial as well as technical rules related to capacity allocation mechanisms are also  
142 outlined.

143 Additionally, the CMP guidelines defines how congestion management procedures are put  
144 into place in the event of contractual congestion.

## 145 **2 Scope**

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

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

- 157 - Co-ordination of maintenance information
- 158 - Nominations against capacity rights
- 159 - Cooperation between Auction Offices

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

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

167 This document does not define a governance process for attribute definitions or other  
168 requirements. Such a process will need to be determined and defined elsewhere.

169 The requirements set out in this document are subject to change if there is any change in the  
170 obligations on Transmission System Operators or any other party.





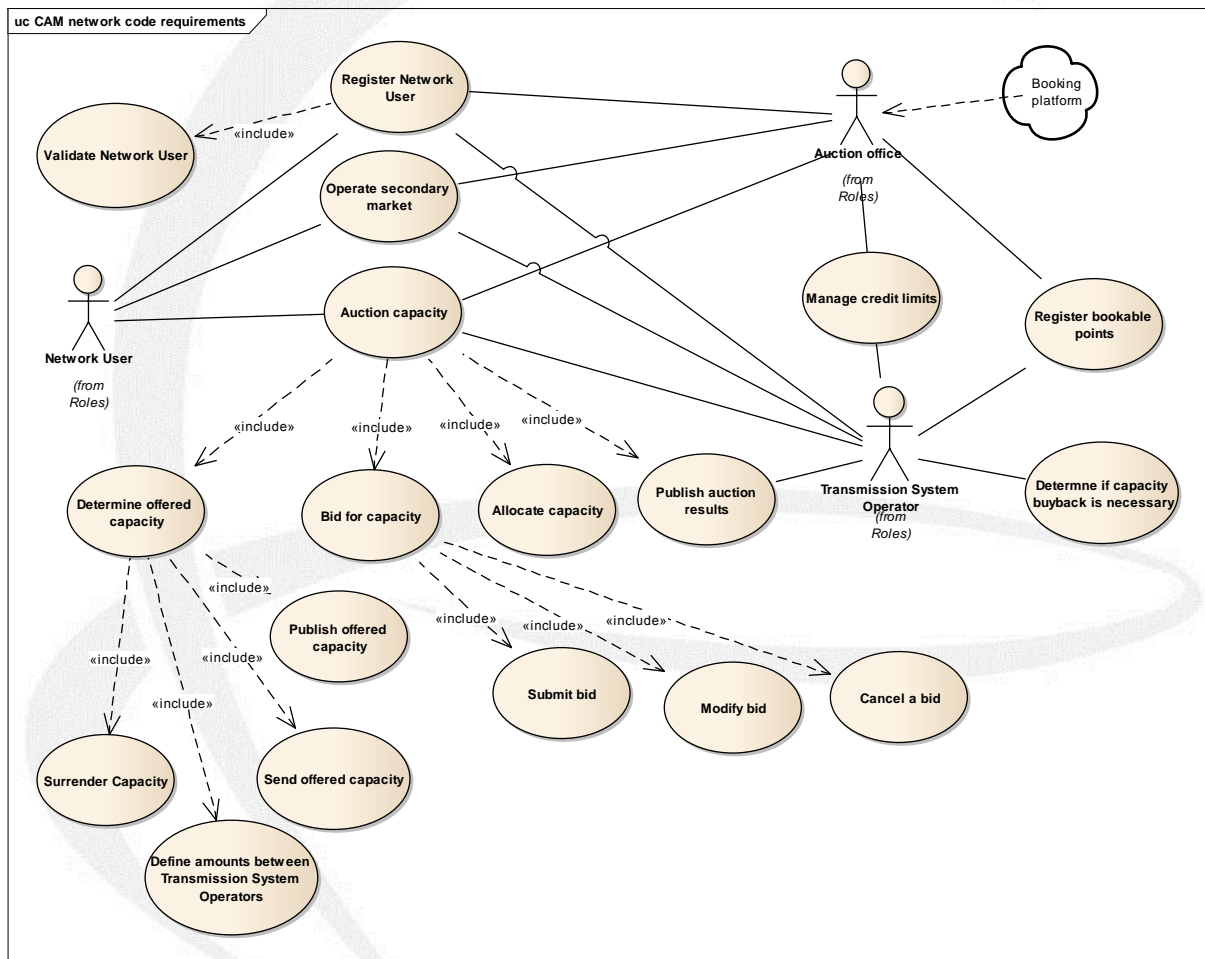
171 **3 Business Requirements**

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

174 **3.1 CAM/CMP requirements**

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

178



179

180

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

181 **3.1.1 List of actors**

182 **3.1.1.1 Auction Office**

183 The party that is responsible for the reception of bids and for the allocation of capacity as  
184 well as for the management of the booking platform, acting on behalf of Transmission  
185 System Operators.

186 **3.1.1.2 Network User**

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

191 **3.1.1.3 Transmission System Operator**

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

197 **3.1.1.4 Booking platform**

198 An application that implements the rules and processes for offering and allocation of all  
199 capacity and may permit Network Users to offer and obtain secondary capacity.

200 It is managed by an Auction Office.

## 201 **3.2 Use case detail**

202 Besides the aforementioned requirements for coordinated implementation, the further core  
203 processes need to be considered as preconditions to the implementation of other  
204 requirements arising from NC CAM. It is understood that the registration of the Transmission  
205 System Operators is always carried out within the relevant Auction Offices.

### 206 **3.2.1 Register Network User (not referenced in the CAM/CMP regulation)**

207 In order to participate in the CAM/CMP processes to obtain capacity, the Network User and  
208 the personnel authorized to use the booking platform (authorized personnel) need to be  
209 registered with the Auction Office and the Transmission System Operator(s). The registration  
210 process includes the submission of the individual Network User master data to the Auction  
211 Office and the Transmission System Operator(s).

212 The Network User also transmits to the Transmission System Operator(s) the data required  
213 by the Transmission System Operator(s), from whom the Network User would like to get  
214 capacity. If required the Network User transmits its registration data via the Auction Office  
215 to the Transmission System Operator(s).

216 The Network User transmits to the Auction Office the data required by the Auction Office for  
217 gaining access to the booking platform.

218 The new Network User must provide a unique identification, such as an EIC code, to the  
219 Auction Office and to the Transmission System Operator(s) in order to ensure a unique  
220 identifier of the company on the booking platform in place. The Network User also provides  
221 information concerning each of its authorized personnel.  
222 Network User accounts may be provided to the Auction Office where required by the  
223 Transmission System Operator.

224 The Auction Office after verification forwards the necessary data to the Transmission System  
225 Operator for validation.

#### 226 **3.2.1.1 Validate Network User registration**

227 The Transmission System Operator validates the information received.

228 The result of the validation is communicated to the Auction Office. The Auction Office  
229 informs the Network User of the approval/rejection of access to the booking platform. The  
230 approval/rejection information regarding the access to the Transmission System Operator(s)  
231 networks(s) is provided by the Transmission System Operator(s). In the case where the  
232 Network User registers via the Auction Office, it is provided by the Auction Office.

### 233 **3.2.2 Register Bookable Points**

234 Before any capacity can be offered to the market the bookable points need to be defined by  
235 the Transmission System Operators and submitted to the Auction Office for the publication  
236 on the booking platform. Necessary updates of bookable point data are also included in this  
237 process.

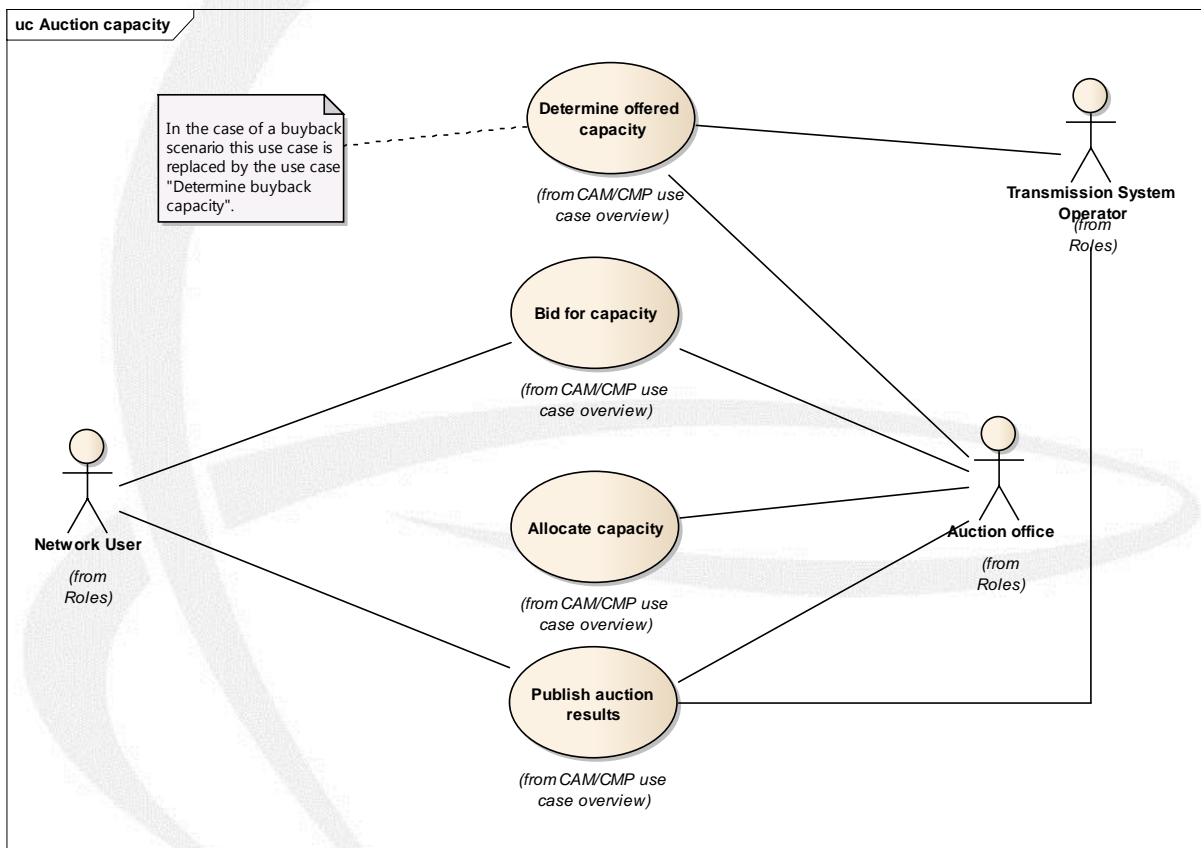
238 A bookable point is defined by several items (see definition in chapter 3.5).

239 The bookable point bundling process is managed by the Auction Office.

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

### 241 3.2.3 Auction capacity

242 This use case permits the auction and the allocation of capacity at an interconnection point  
243 using an "ascending clock" or "uniform price" auction mechanism, as described in Articles 17  
244 and Article 18 CAM NC, respectively. In the case the reverse process is carried out through  
245 an auction, the same auction process may be used with the exception that the use case  
246 "Determine offered capacity" is replaced by the use case "Determine reverse auction  
247 capacity" to cover the determination of reverse auction capacity.



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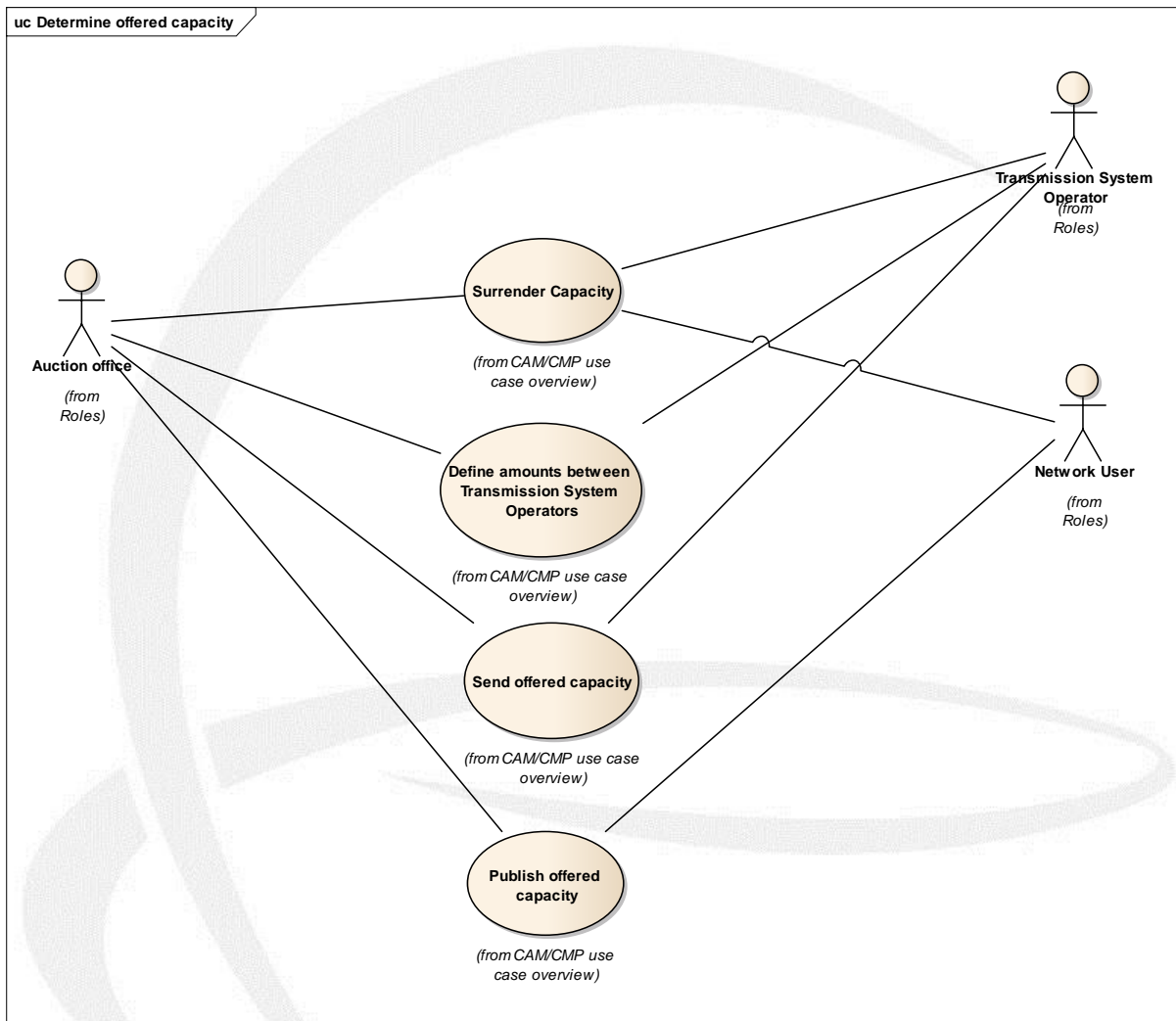
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Figure 2: the auction capacity use case

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

251 **3.2.3.1 Determine offered capacity**

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

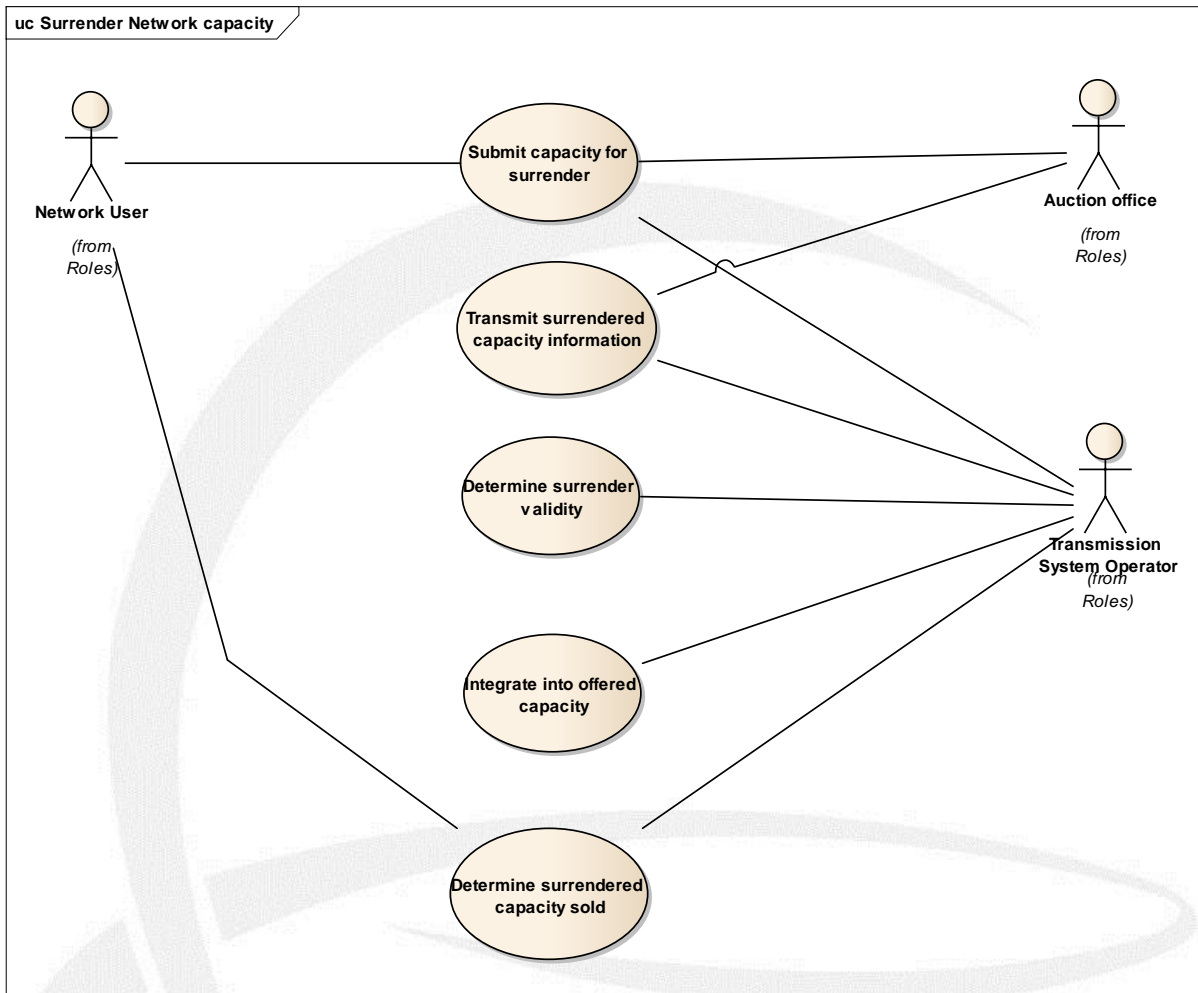


255  
256

Figure 3: Determine offered capacity use case

257 Once the Transmission System Operator has defined the Offered Capacity it is transmitted to  
258 the Auction Office.

259 **3.2.3.1.1 Surrender capacity**



260  
261

Figure 4: CMP surrender network capacity use case

262 **3.2.3.1.1.1 Submit capacity for surrender**

263 If the surrender process is supported by the Transmission System Operator(s), the Network  
264 User may surrender capacity to either the Auction Office or directly to the Transmission  
265 System Operator(s) for resale at any time. In the case where the request is submitted  
266 directly to the Transmission System Operator(s), it should be forwarded to the Auction  
267 Office for processing.

268 The surrendered capacity must be identified as bundled or unbundled and concerns at least  
269 capacity products with a duration longer than a day (subject to the NRA decision).

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



274 **3.2.3.1.1.2 Transmit surrendered capacity information**

275 The Auction Office transmits the surrendered capacity received to the Transmission System  
276 Operator(s) after internal validation by the Auction Office.

277 The Transmission System Operator forwards its positive/negative validation response of the  
278 surrender request to the Auction Office. The Auction Office informs the Network User about  
279 the confirmation/rejection by the Transmission System Operator.

280 Extra steps for surrender may be implemented by the Auction Office.

281 **3.2.3.1.1.3 Determine surrender validity**

282 The Transmission System Operator ensures the validity of all Network Users submission.

283 **3.2.3.1.1.4 Modify a surrender**

284 As long as lead times constraints are respected, the Network User may cancel all or part or a  
285 surrender request by submitting a recall surrender request which, as long as lead time  
286 constraints for capacity publication are respected, will be taken into account by the  
287 Transmission System Operator.

288 **3.2.3.1.1.5 Integrate into Offered Capacity**

289 Once the surrendered capacity is validated, the Transmission System Operator integrates  
290 the information into the offered capacity.

291 **3.2.3.1.1.6 Determine surrendered capacity sold**

292 The Transmission System Operator allocates the surrendered capacity sold to the Network  
293 Users depending on local market rules and informs them of their capacity that has been  
294 sold.

295 **3.2.3.1.2 Define amount between Transmission System Operators**

296 The Transmission System Operator calculates the capacity to be offered within the booking  
297 platform. A Transmission System Operator may inform the Auction Office about any  
298 competition between several connection points, capacity types and any relevant information  
299 related to Article 19 (5(a) and (b) CAM NC.

300 In case of a competing situation involving more than one Transmission System Operator, the  
301 competition algorithm is managed by the Auction Office.

302 1<sup>st</sup> option:

303 As default rule, the Transmission System Operators shall decide to let the Auction  
304 Office determine the bundled and unbundled capacity that makes up the established  
305 offered capacity. Each Transmission System Operator at each side of the IP shall  
306 inform the Auction Office of the offered capacity. The Auction Office shall apply the  
307 lesser rule in order to determine the bundled capacity.



308 Any differences between the lesser value calculated by the Auction Office and the  
309 capacity previously sent by Transmission System Operators can be considered as  
310 unbundled capacity and may be auctioned separately.

311 Such unbundled capacity will be clearly identified by the Auction Office to the  
312 Network Users at the time when the capacity is offered.

313 2<sup>nd</sup> option:

314 The use case “Define amounts between Transmission System Operators” is used in  
315 this case by the Transmission System Operators to define the bundled and unbundled  
316 capacity that will make up the offered capacity. The final result is then sent by both  
317 Transmission System Operators to the Auction Office for publication. In case of  
318 mismatch then both quantities are rejected.

#### 319 **3.2.3.1.3 Send offered capacity**

320 The offered capacity is sent to the Auction Office (booking platform) by the Transmission  
321 System Operator.

322 **3.2.3.1.4 Publish offered capacity**

323 The Auction Office then publishes the part of the offered capacity that will be auctioned as  
324 bundled capacity and the part of the offered capacity that will be auctioned as unbundled  
325 capacity.

326 The Network Users are also informed in the publication of any starting price and, in the case  
327 of ascending clock auctions, the value of the large price step and the small price step for the  
328 bidding rounds.

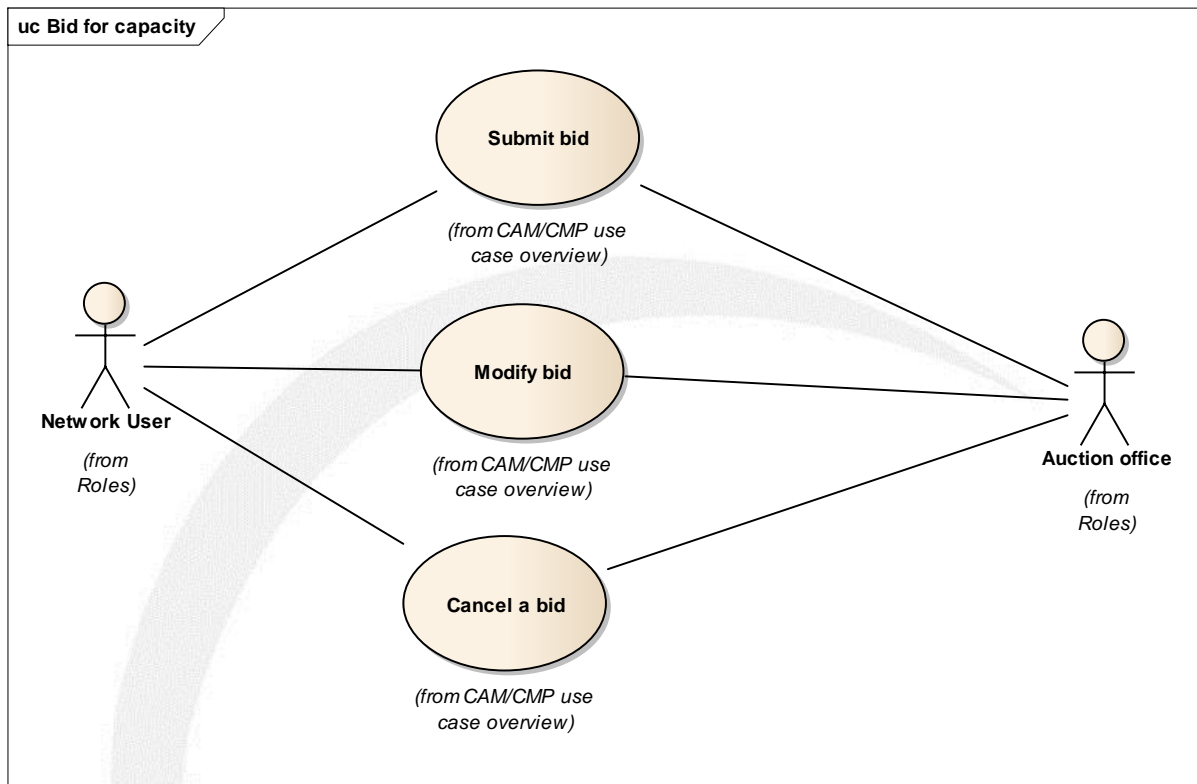
329 **3.2.3.2 Bid for capacity**

330 For a given auction (in which one capacity product covering a specific period is offered)  
331 Network Users submit bids with the amount of capacity required (for the price step  
332 announced in the concerned bidding round in the case of an ascending clock auction) and, in  
333 the case of uniform price auctions, the price they are willing to pay on top of the starting  
334 price and they shall also indicate the minimum capacity that is acceptable in the case of a  
335 reduced allocation.

336 In the case of an ascending clock auction, the Network User may submit only one valid bid  
337 per bidding round. This bid may be modified or withdrawn during the course of bidding  
338 round. The rules that apply during a bidding round shall be compliant with Article 17 CAM  
339 NC.

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

341



342

343

Figure 5: bid for capacity use case

### 344 3.2.3.2.1 Submit bid

345 The Network User submits bids for an amount of capacity for the price step announced in  
 346 the concerned bidding round, in the case of an ascending clock auction, or an amount of  
 347 capacity (requested and minimum) and price, in the case of a uniform price auction. Each bid  
 348 shall refer to a given product within a given auction. In an ascending clock auction, such bids  
 349 shall respect the rules on bid quantities set out in Article 17(5, (8 and (16) CAM NC.

### 350 3.2.3.2.2 Modify bid

351 As long as the bidding round is open, a Network User may modify the bid according to the  
 352 requirements stated in Article 17 CAM NC and Article 18 CAM NC.

### 353 3.2.3.2.3 Cancel a bid

354 The Network User may at any time before the closure of a bidding round cancel a bid placed  
 355 earlier in that round according to the requirements stated in Article 17 CAM NC and Article  
 356 18 CAM NC.

357 Exceptional cases in which a Network User cannot cancel a bid are bidding rounds with small  
 358 price steps in ascending clock auctions according to the requirements stated in Article 17.

359 **3.2.3.3 Allocate capacity**

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

362 **3.2.3.4 Publish auction results**

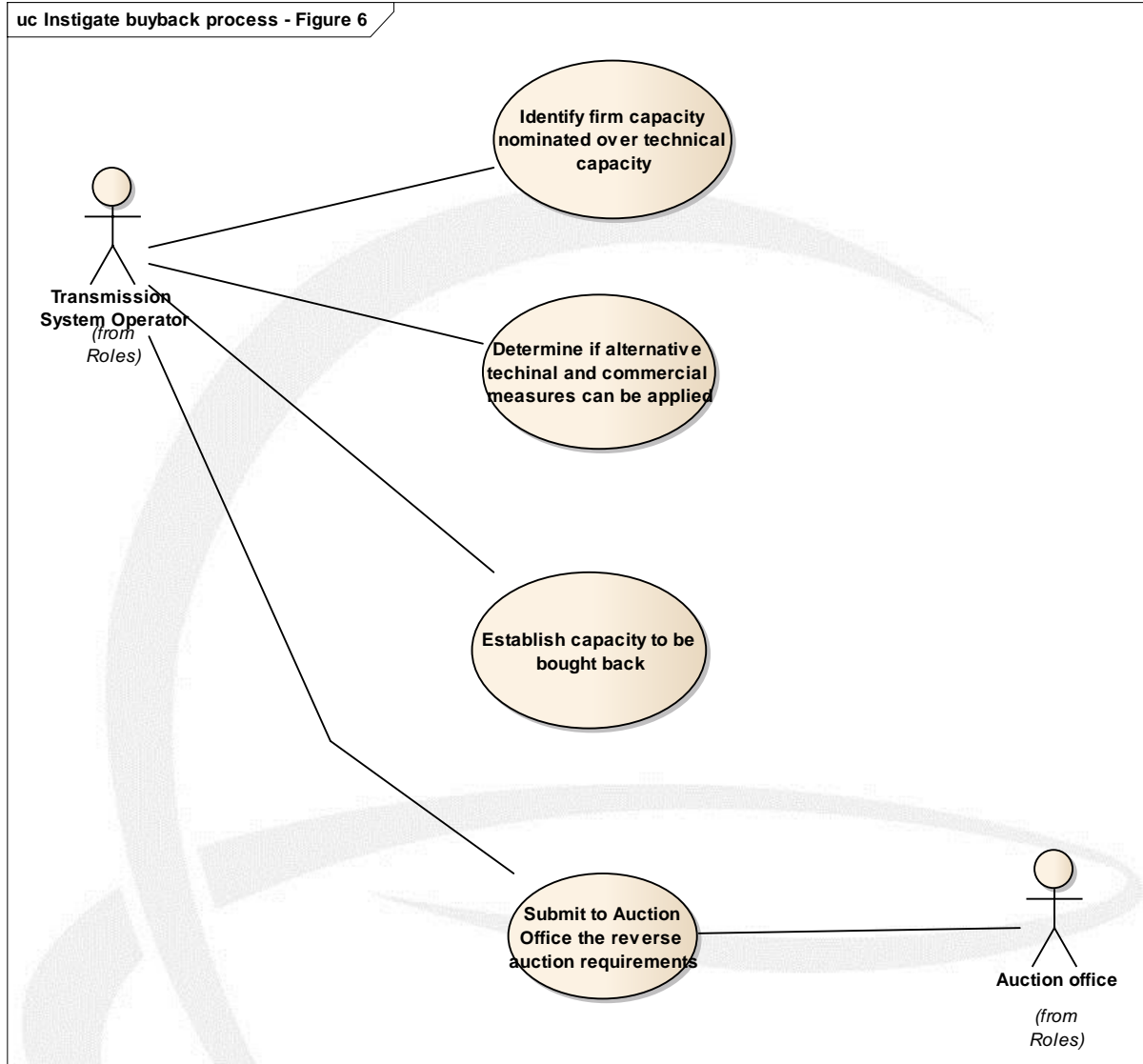
363 Network Users are informed by the Auction Office of the results of the bids that they have  
364 submitted.

365 The Auction Office informs the market of the final aggregated auction information.

366 The Auction Office provides the Transmission System Operators with the detailed auction  
367 results.

368 In ascending clock auctions intermediate results may be provided to the Transmission  
369 System Operators by the Auction Office.

370 **3.2.4 Determine if capacity buyback is necessary**



371  
372

Figure 6: Reverse auction use case

373 **3.2.4.1 Identify firm capacity nominated over technical capacity**

374 The Transmission System Operator shall identify firm capacity nominated over technical  
375 capacity.

376 **3.2.4.2 Determine if alternative technical and commercial measures can be**  
377 **applied**

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

### 380 **3.2.4.3 Establish capacity to be bought back**

381 The Transmission System Operator determines the amount of capacity that will have to be  
382 bought back to re-establish the situation, without taking into consideration whether the  
383 capacity is bundled or not.

384 For the Transmission System Operator this information is irrelevant as it seeks to achieve a  
385 flow reduction. For the Network User the bundling status is irrelevant as it states the  
386 financial compensation desired for not flowing gas.

387 There are two types of buy back;

- 388 • buying back capacity in the congested direction
- 389 • selling capacity with a nomination commitment in the counter-direction.

390 As an alternative to the reverse auction the Transmission System Operator may also buy  
391 back the capacity by playing the role of a Network User on the secondary market.

### 392 **3.2.4.4 Submit to Auction Office the reverse auction requirements**

393 The Transmission System Operator shall send capacity to be purchased to the Auction Office  
394 so that a reverse auction can be put into place. The Transmission System Operator may  
395 include some restrictions, for example:

- 396 • the maximum price the Transmission System Operator is willing to pay for buying  
397 back the capacity
- 398 • the list of Network Users that are allowed to participate in the buy-back procedure

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

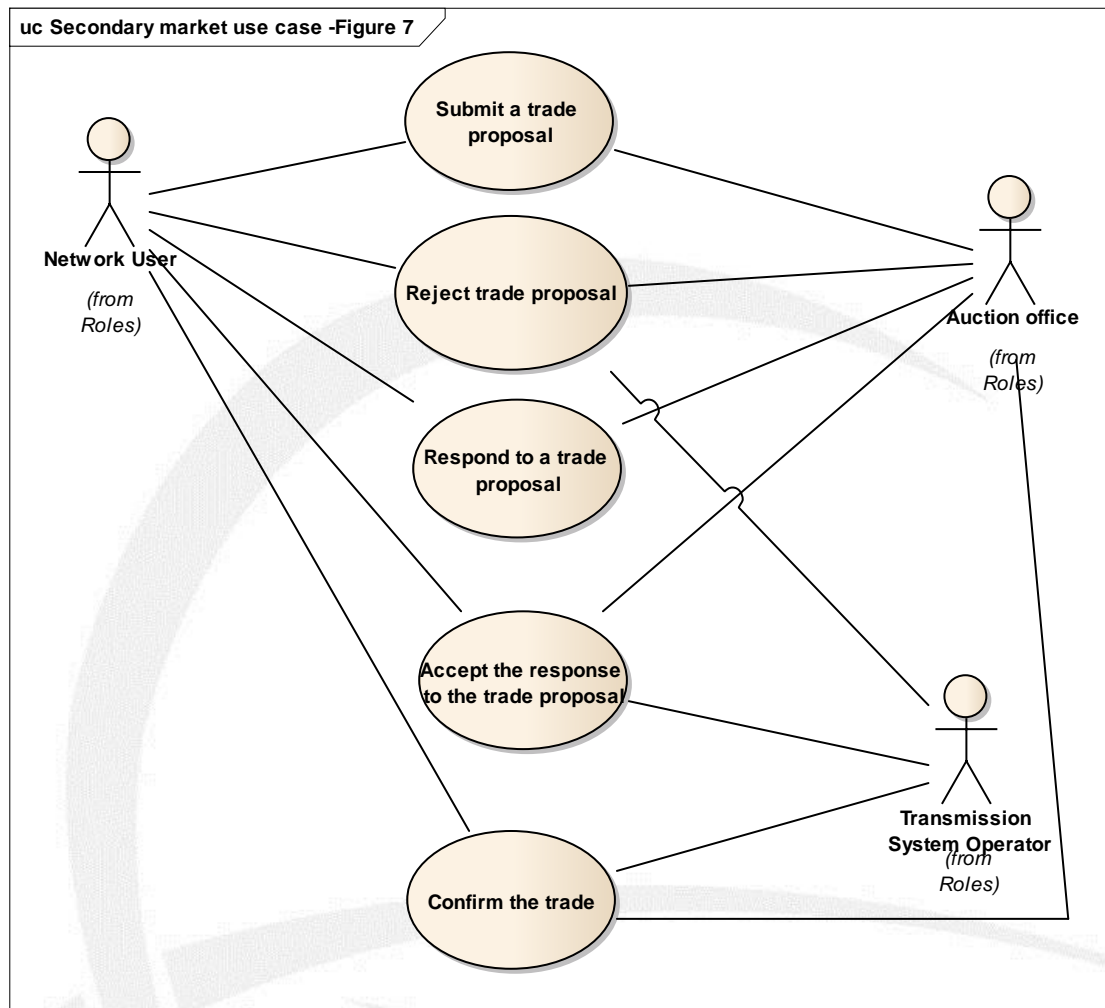
### 403 **3.2.5 Operate secondary market (not referenced in the CAM/CMP 404 regulation)**

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

407 In the text no differentiation between assignment and transfer of use is made, however this  
408 differentiation should be included in the relevant messages.

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

412



413

414

Figure 7: Secondary market capacity

### 415 3.2.5.1 Submit a Trade Proposal

416 A Network User has the possibility to sell or buy capacity to other Network Users.

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

420 Consequently a Network User can submit a trade proposal to the secondary market to sell or  
421 buy capacity concerning a connection point. The proposal shall include information about  
422 the bookable point, capacity, period, availability type of capacity, bundled/unbundled,  
423 nature of transfer(full or partial transfer of rights), price and in case it is a proposal to sell  
424 capacity the identification of the related capacity contract incl. issuer of the contract, the  
425 duration over which the trade is valid. The trade proposal can be updated/withdrawn by the  
426 submitter.



### 427 **3.2.5.2 Reject a Trade Proposal**

428 If a trade proposal is submitted to an Auction Office, the Auction Office shall forward the  
429 trade proposal to the Transmission System Operator(s) at their request. The Transmission  
430 System Operator has the possibility to reject the trade proposal. The rejection is  
431 communicated to the Auction Office, who will forward the information to the concerned  
432 Network User(s) and Transmission System Operator(s).

### 433 **3.2.5.3 Respond to a Trade Proposal**

434 After the publication of a trade proposal Network Users can respond to it by conceding the  
435 offer at a given price or by proposing capacity at a requested price.

### 436 **3.2.5.4 Accept the response to a Trade Proposal (conditional to Transmission 437 System Operator approval)**

438 If an appropriate response to a trade proposal is received from a Network User, the  
439 submitter of the trade proposal can close the trade by accepting the response. Once the  
440 response to the trade proposal is accepted, it is sent to the relevant Transmission System  
441 Operator(s) for confirmation.

### 442 **3.2.5.5 Confirm a Trade**

443 The Transmission System Operator(s) must be informed about the trade by the involved  
444 Network Users or by the Auction Office on their behalf. The Transmission System  
445 Operator(s) confirms or rejects the transfer after carrying out the necessary validity checks.

446 The information about the confirmation or rejection of a transfer is sent to the involved  
447 Network Users.

### 448 **3.2.6 Manage credit limits (not referenced in the CAM/CMP regulation)**

449 In order to ensure that a Network User is permitted to purchase a given quantity of capacity  
450 during the auction process or a secondary market transaction a Transmission System  
451 Operator may inform the Auction Office of the permitted financial limits for a Network User  
452 if required.

453 The Transmission System Operator identifies each product (auction and trades) subjected to  
454 credit limit verification and the multiplication factor(s) to be applied to a Network User's bid  
455 (starting price + surcharge) associated to a specific product and to trades, considering the  
456 duration of the trades. This defines the framework. The Transmission System Operator  
457 transfers to the Auction Office information concerning the Network User validity period(s) of  
458 the limits and associated credit value(s).

459 The Transmission System Operator informs the Auction Office of the Network User credit  
460 limits every time these evolve.

461 Network Users may be able to consult their credit limit information on the booking platform  
462 if such a right is accorded by the Transmission System Operator. The financial value for a

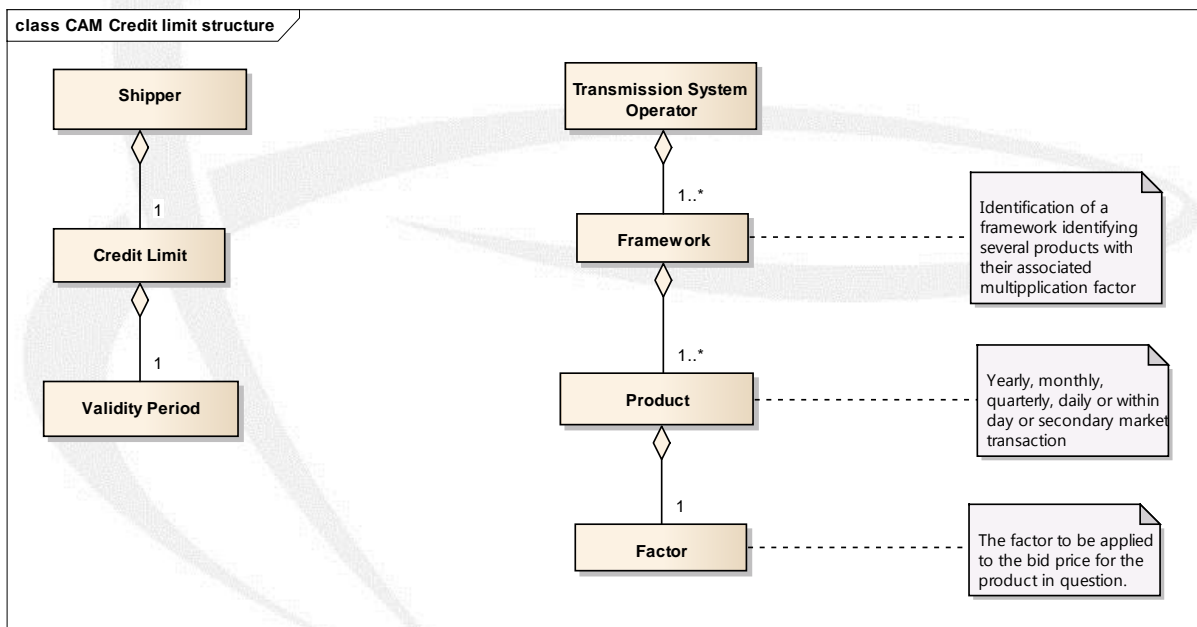
463 given Network User’s bid associated to a specific product is determined by the multiplication  
464 of the unitary price (starting price + surcharge), the period associated with the product and  
465 the multiplication factor of the product. Before the acceptance of a Network User’s bid, the  
466 Auction Office verifies if the Network User’s credit limit is equal to or greater than the  
467 financial value of the bid. If this is the case, the Auction Office accepts the bid and adjusts  
468 the remaining credit value after each bid submission and capacity allocation. The Auction  
469 Office may provide the used credit value upon request of the Transmission System Operator.

470 A Network User may have a credit limit and an associated validity period. The credit limit  
471 covers all the guarantees that the Network User may hold.

472 The Transmission System Operator may define several frameworks. Each framework  
473 includes the following information: name of the framework; product type; credit factors  
474 which apply to the products.

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

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

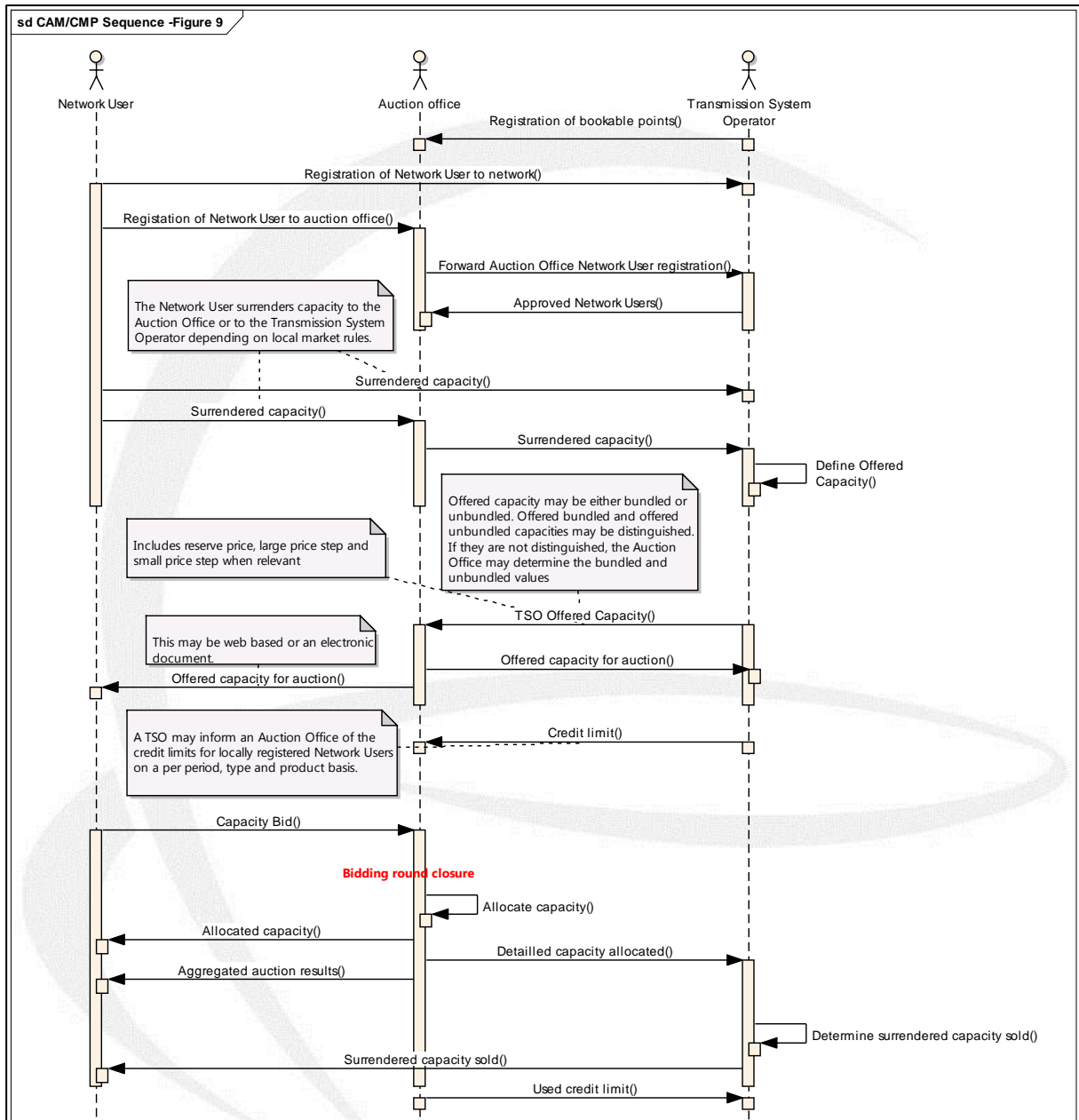


481  
482

Figure 8: Credit limit requirements

483 **3.3 Information flow definition**

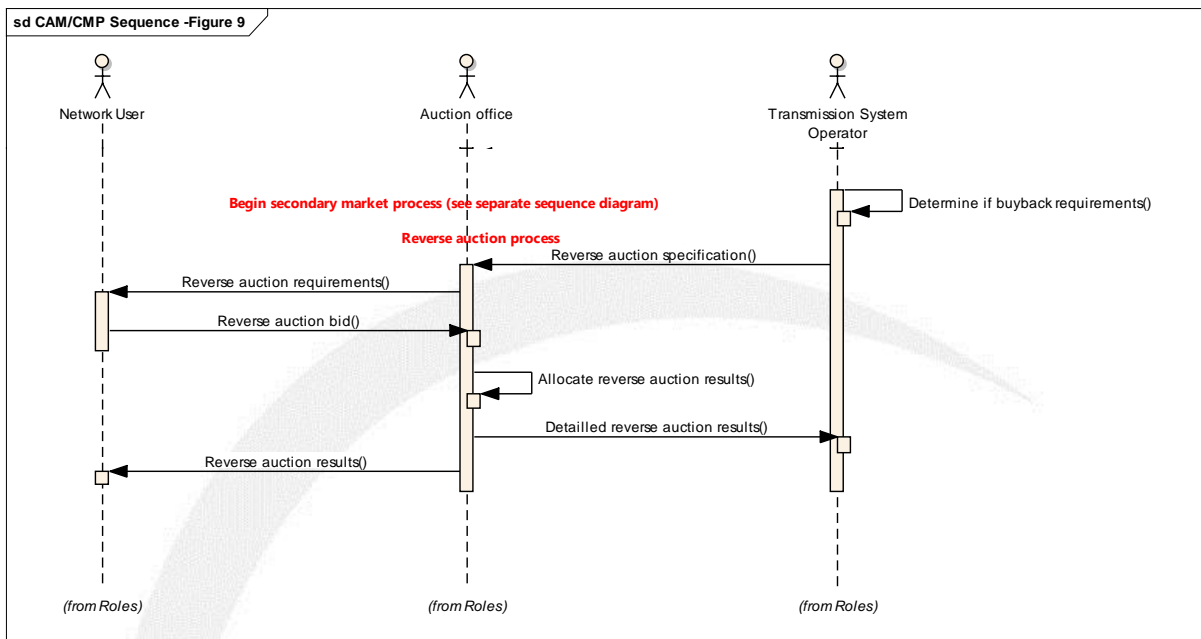
484 **3.3.1 CAM/CMP Sequence flow**



485

486

Figure 9A: Information flow sequence



487  
488

Figure 9B: Information flow sequence

### 489 3.3.1.1 Bookable point registration

490 The Transmission System Operator provides the Auction Office with the information of all  
491 the connection points where capacity can be booked.

### 492 3.3.1.2 Network User registration to network

493 Prior to operating on the market a Network User must register with the Transmission system  
494 Operator .

### 495 3.3.1.3 Network User registration to Auction Office

496 Prior to operating on the market a Network User must register with the Auction Office if the  
497 Network User wishes to participate in CAM/CMP processes.

### 498 3.3.1.4 Approved Network Users

499 The Transmission System Operator will validate and approve the Network User's  
500 participation. The Transmission System Operator informs the Auction Office of the Network  
501 Users that are permitted to participate in CAM/CMP processes.

### 502 3.3.1.5 Surrender capacity rights

503 Prior to a given auction period a Network User may surrender capacity rights that he holds  
504 for the intended period of the auction. The capacity to be surrendered is sent either to the  
505 Auction Office for transmission to all involved Transmission System Operators or to the  
506 Transmission System Operator(s). Once verified the capacity will be incorporated into the  
507 total offered capacity for the next auction product.

### 508 **3.3.1.6 Offered capacity**

509 The capacity on offer shall be sent by each Transmission System Operator to the Auction  
510 Office in compliance with the business case defined in section 3.2.3.1.2.

511 The Auction Office assigns an auction identification to the offered capacity provided by the  
512 Transmission System Operators.

513 The Auction Office informs the Transmission System Operators of the products that will be  
514 auctioned and publishes the information for use by the market along with any price step  
515 information if the auction concerns an ascending clock auction.

### 516 **3.3.1.7 Credit limit**

517 The Transmission System Operator may inform the Auction Office of credit restrictions that  
518 have been placed on Network Users in the context of a contract. The Auction Office ensures  
519 that the cumulative purchase of auction products and trades does not exceed the Network  
520 Users credit limit. (refer to section 3.2.6)

521 The credit limit information may be sent to the Auction Office at any time to enable more  
522 conclusive verifications be carried out within the auctioning system. This information may  
523 include the creation, modification or suppression of a credit limit.

524 The Auction Office may provide used credit value of all relevant Network Users to the  
525 Transmission System Operator upon request.

### 526 **3.3.1.8 Capacity bid**

527 Network Users submit bids in accordance with the type of auction being run. Before a  
528 uniform price auction or an ascending clock bidding round closes they may submit  
529 modifications to their bids or cancel the bid completely if the auction process allows it. (refer  
530 to section 3.2.3.2)

### 531 **3.3.1.9 Allocated capacity**

532 The Auction Office allocates offered capacity to a Network User's bid and informs the  
533 Network User of the quantity and price allocated according to the given auction process.  
534 (refer to section 3.2.3.3)

### 535 **3.3.1.10 Detailed capacity allocated**

536 Once the capacity allocation has terminated the Auction Office transmits all the Network  
537 User allocations to the Transmission System Operator. (refer to section 3.2.3.4)

### 538 **3.3.1.11 Aggregated auction results**

539 This represents the total aggregated values for the auction (at least the clearing price and  
540 total capacity sold) and is intended for use by any market participant. (refer to section  
541 3.2.3.4)

542 **3.3.1.12 Surrendered capacity sold**

543 When the Transmission System Operator receives the detailed results of the auction it  
544 determines if the capacity sold is greater than the Transmission System Operator's available  
545 technical capacity. If this is the case the Transmission System Operator allocates the  
546 remaining sold capacity to the Network Users that have surrendered capacity. (refer to  
547 section 3.2.3.1.1.6)

548 **3.3.1.13 Reverse auction requirements**

549 In the case where it is necessary to buy back capacity via an auction, the Transmission  
550 System Operator determines how much capacity should be bought back and a cap price for  
551 any purchases. (refer to section 4)

552 **3.3.1.14 Reverse auction bid**

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

555 **3.3.1.15 Allocate reverse auction results**

556 Once the reverse auction closes the Auction Office evaluates the bids received and allocates  
557 the capacity to the Network Users. The Auction Office distributes the finalised results.

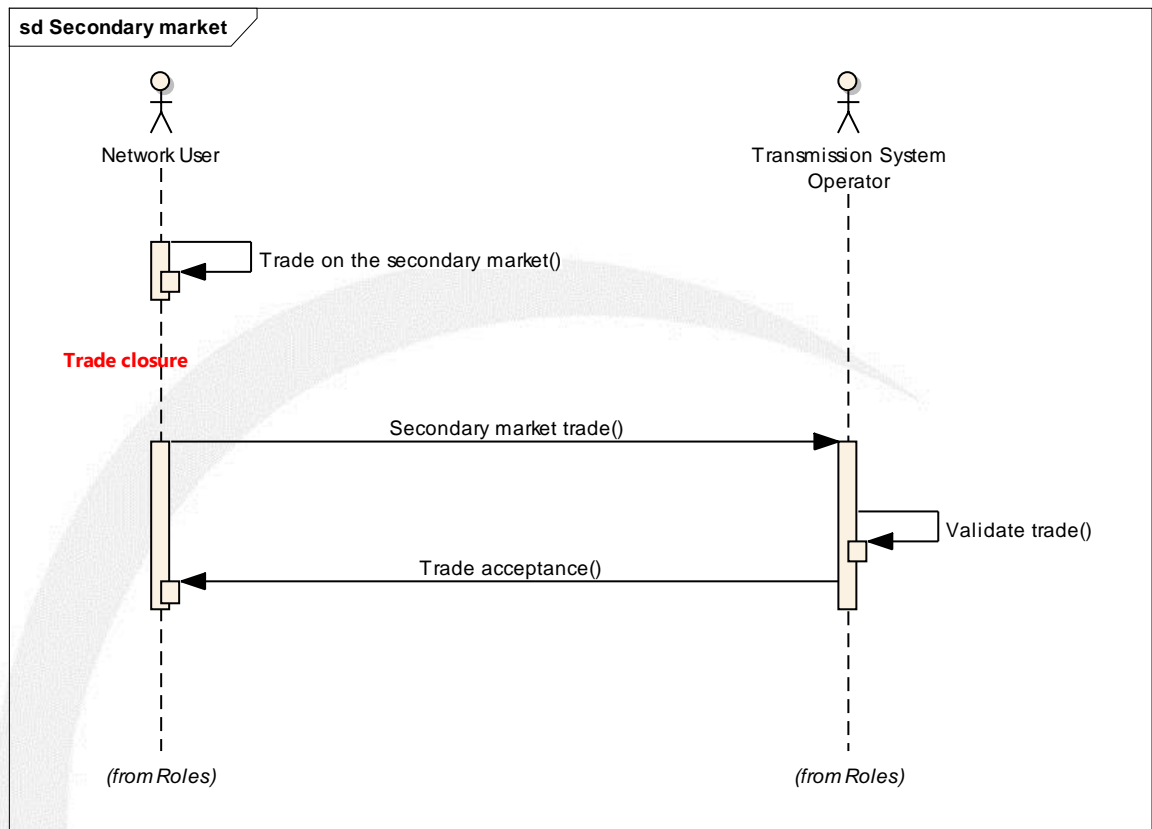
558 In the case where bundled capacity has been sold back the adjacent Transmission System  
559 Operator is informed of the sale.

560 **3.3.2 Secondary market sales**

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

564 In the text no differentiation between assignment and transfer of use is made, however this  
565 differentiation should be included in the relevant messages. Besides, no differentiation  
566 between over the counter, call for orders and first committed first served is made, however  
567 this differentiation should be included in the relevant messages.





568  
569

Figure 10: Secondary market sequence

570 If capacity is offered on the secondary market the Network User that traded the capacity  
571 or the Auction Office (on behalf of the Network Users) must inform the Transmission  
572 System Operator of the trade.

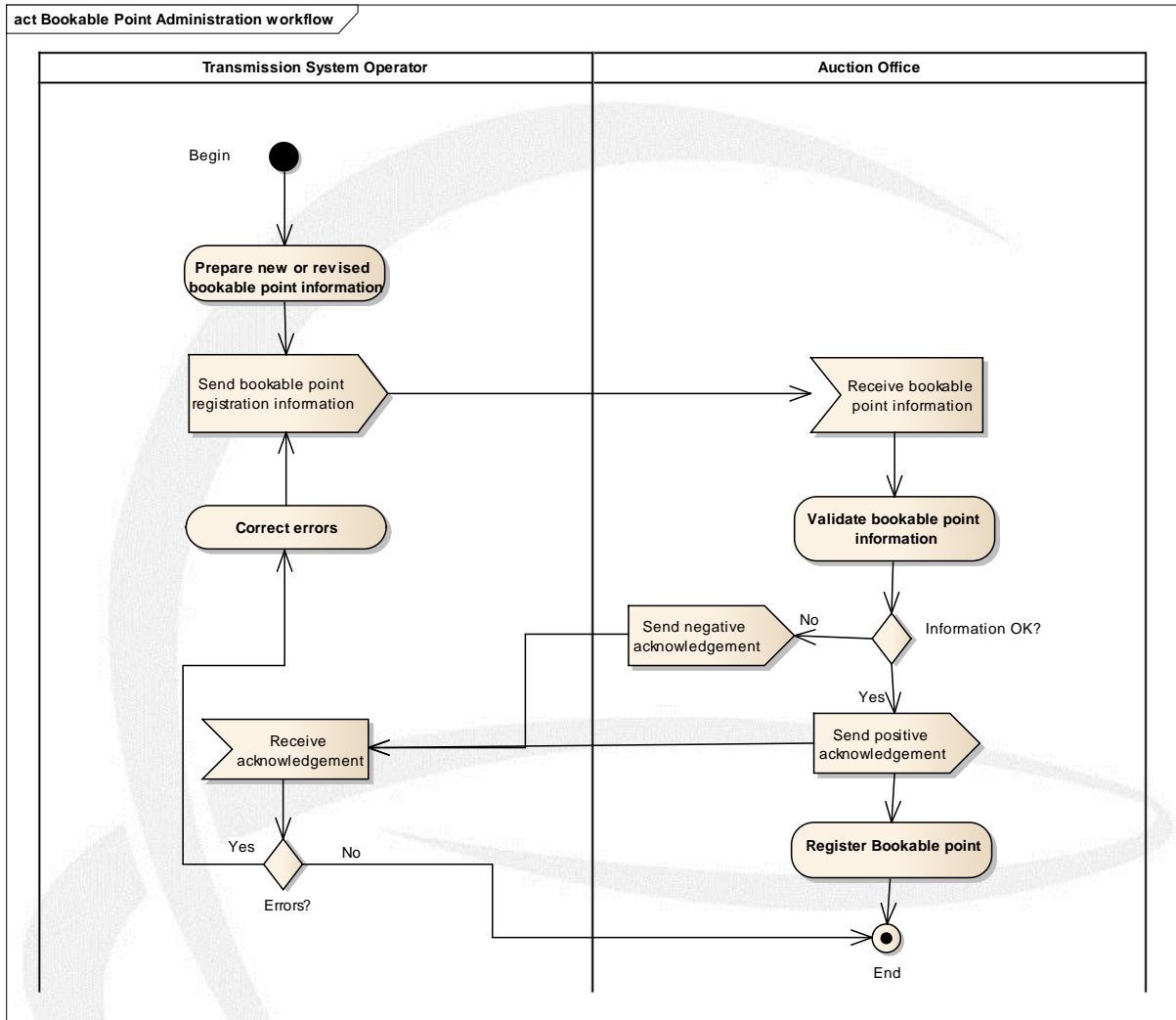
573 The Transmission System Operator validates the trade information. Once the trade  
574 submission is deemed valid, the Transmission System Operator confirms the trade. The  
575 Transmission System Operator informs the Network Users or the Auction Office, who is  
576 acting on behalf of the Network Users, about the confirmation.

577 In the case of error the Network Users are informed and take the necessary corrective  
578 action.



579 **3.3.3 CAM/CMP Workflow**

580 **3.3.3.1 Bookable point Administration process**



581  
582

Figure 11: Bookable point Administration workflow

583 For the publication of bookable points on the booking platform the Transmission System  
584 Operator sends to the Auction Office the data for each bookable point, where capacity is  
585 going to be sold. This includes the data for a new bookable point as well as data updates for  
586 an existing and already published bookable point.

587 **3.3.3.2 Network User Registration process**

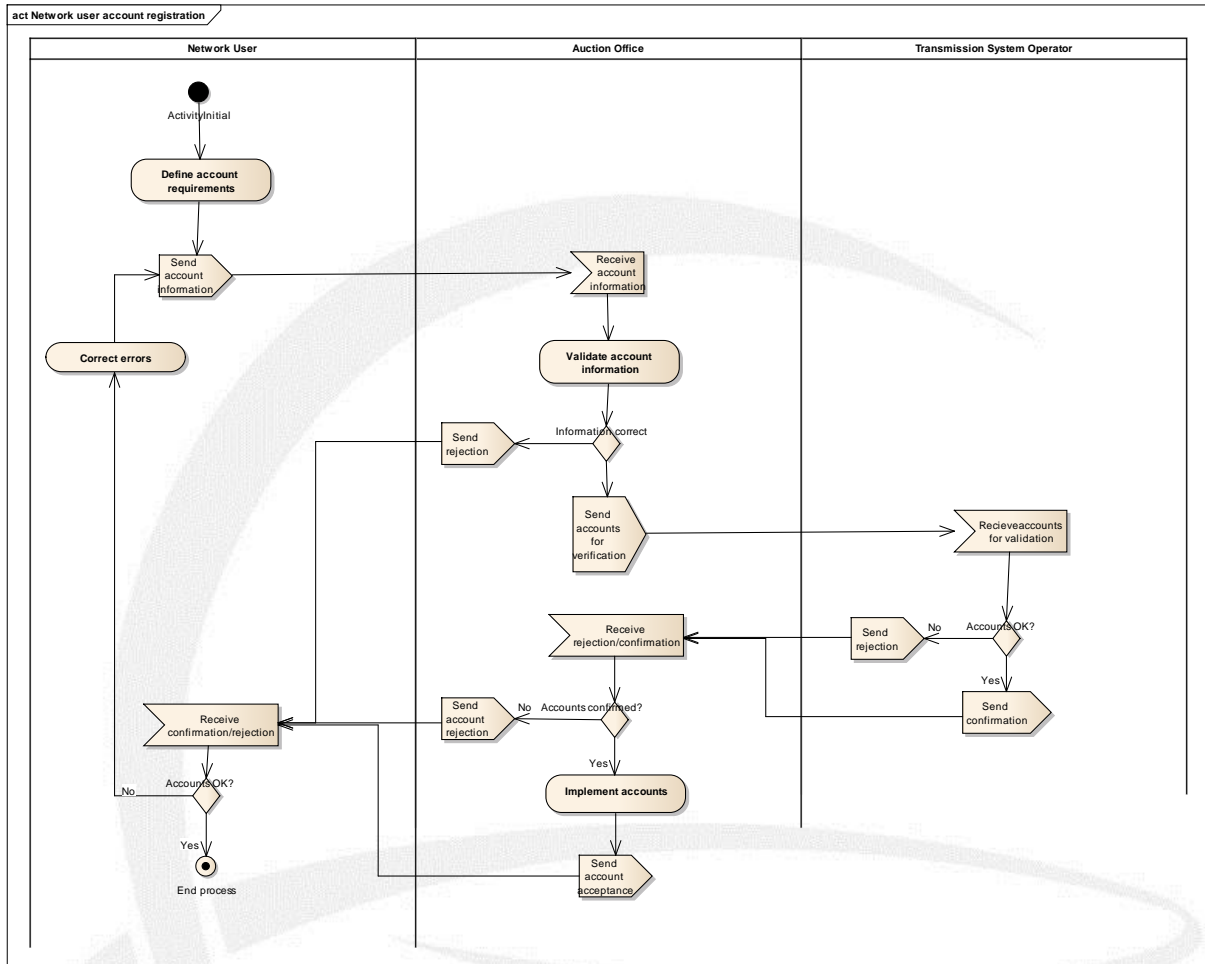


Figure 12: Network User Registration workflow

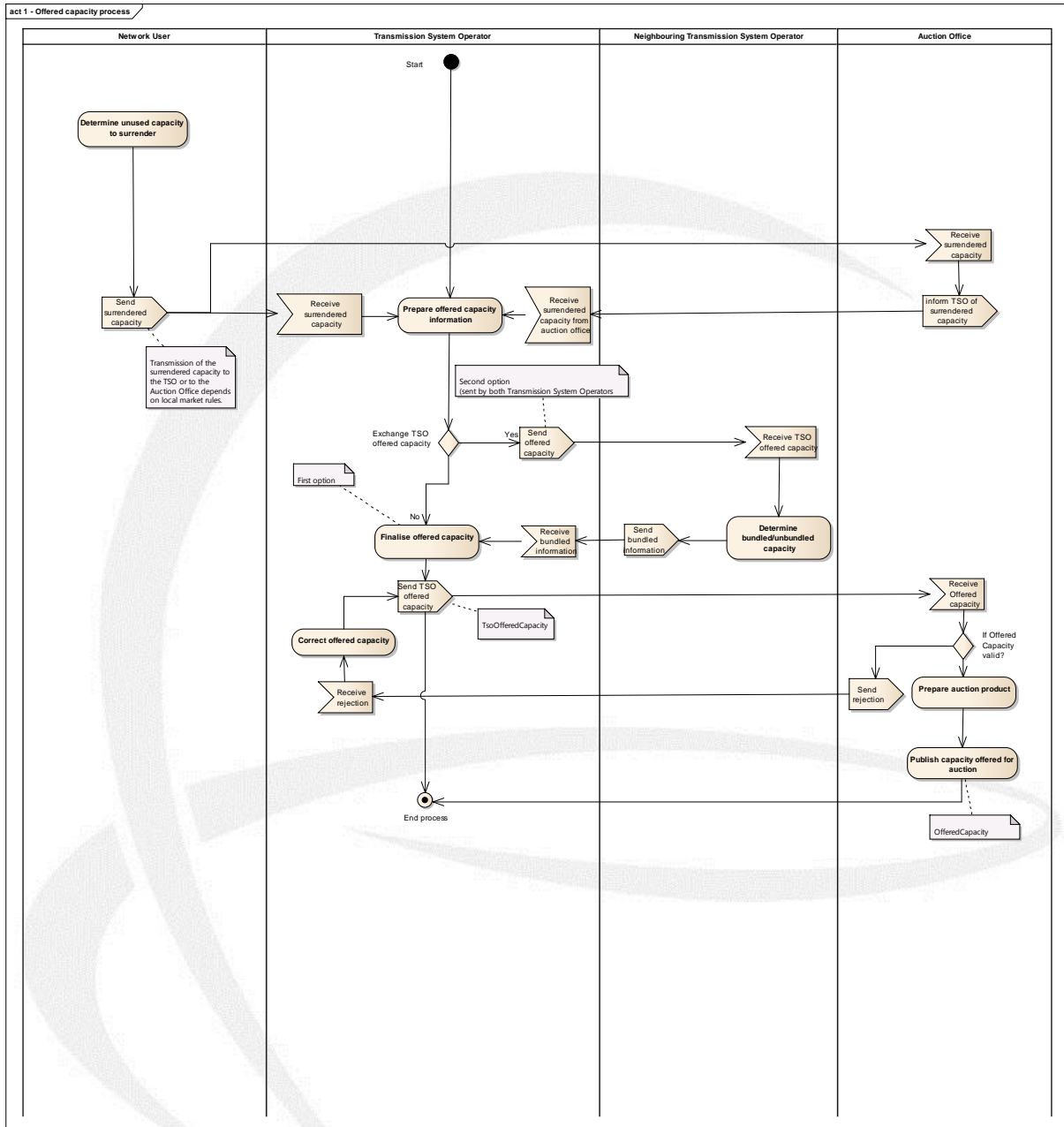
588  
589  
590 Two Network User registrations are required for each Network User. One for the registration  
591 to the Transmission System Operator network and one to the Auction Office.

592 The Auction Office registration request includes at least one authorized person and at least  
593 one one Transmission System Operator identification.

594 Network User accounts are provided by the Network User or the Transmission System  
595 Operator on behalf of the Network User to the Auction Office if required by the  
596 Transmission System Operator. The Auction Office validates the registration data and  
597 forwards the valid requests to the identified Transmission System Operator for approval.

598 The Transmission System Operator confirms/rejects the approval request. Once confirmed,  
599 the registration information is then sent to the Network User.

600 **3.3.3.3 Offered capacity process**



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602

Figure 13: Offered capacity workflow

603 The determination of offered capacity begins on a cyclic basis depending on the standard  
604 capacity product.

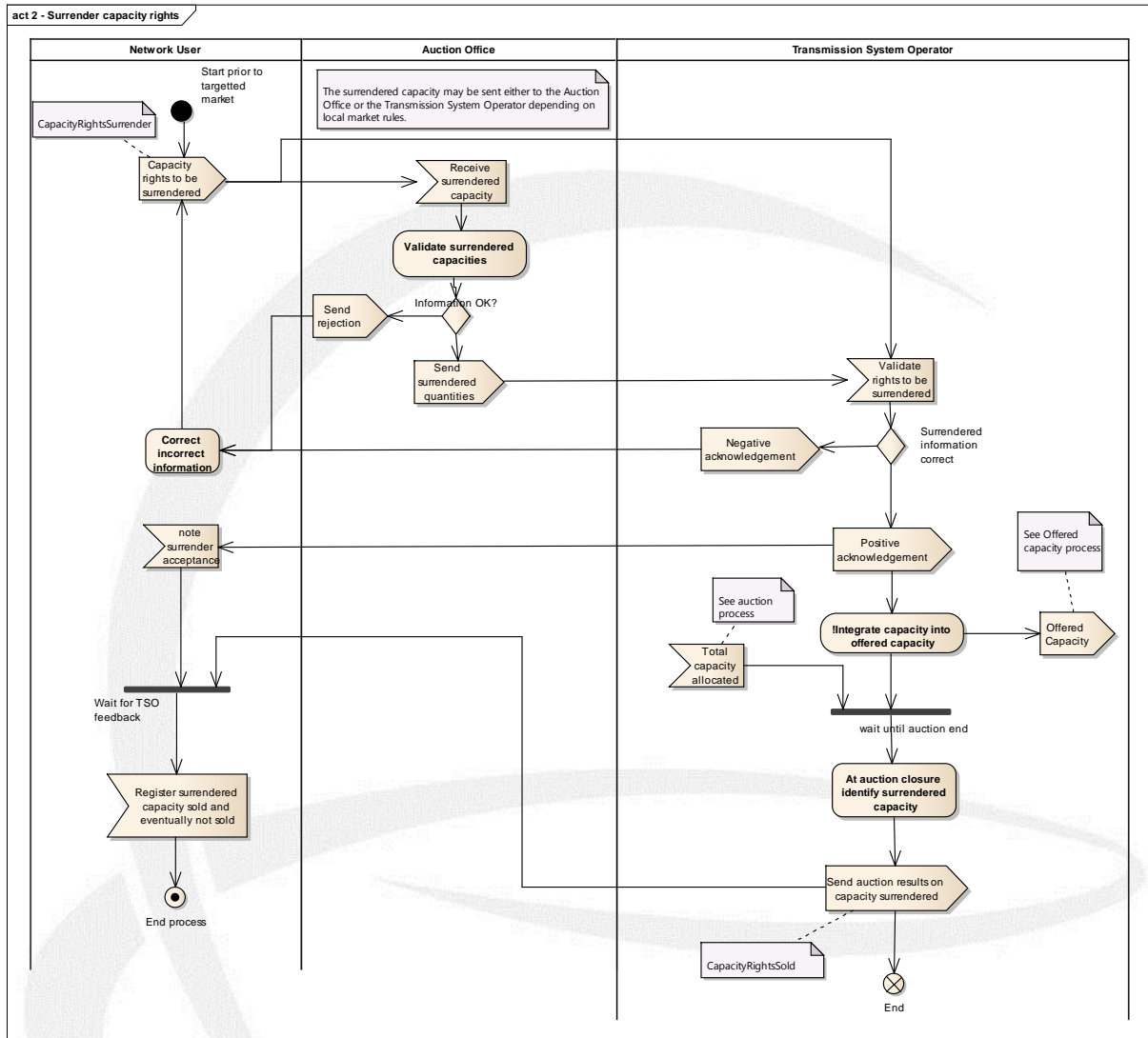
605 The Transmission System Operator(s) send(s) the offered capacity to the Auction Office  
606 according to the options described in point 3.2.3.1.2.

607 For a given market situation a Transmission System Operator may provide the Auction Office  
608 with credit limitations of the Network Users for the products to be auctioned or for  
609 secondary transactions between Network Users. This information will be used by the

- 610 Auction Office to ensure the legitimacy of the bids and the secondary trades (only in the case  
611 of Network Users that buy capacity).
- 612 The Auction Office then makes this offered capacity information available to the market in  
613 the appropriate manner (web publication, download capability, etc..).



614 **3.3.3.4 Surrender capacity process**



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616

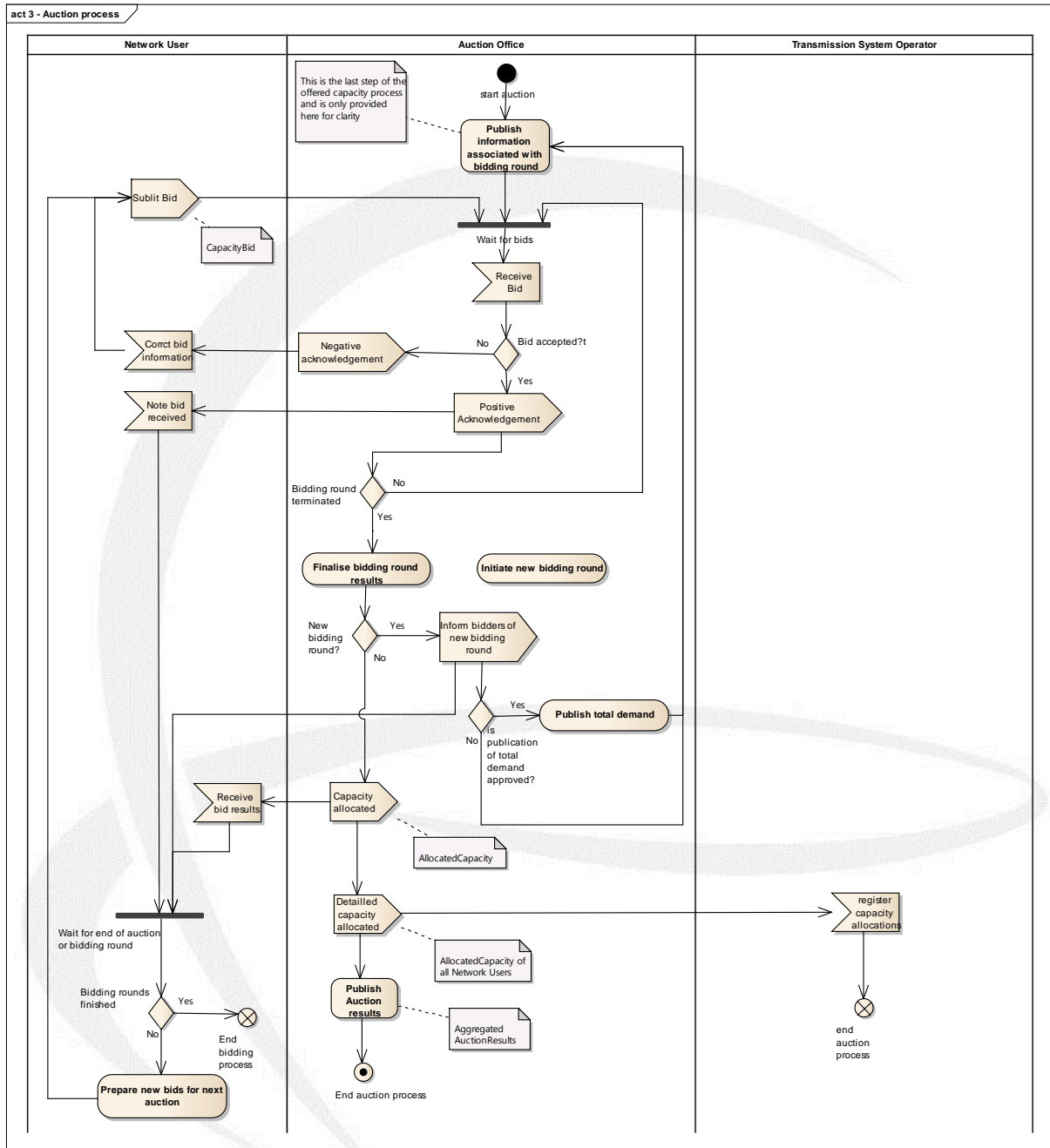
Figure 14: Surrender capacity process

617 If a Network User has more capacity than needed, the excess may be surrendered to the  
618 Transmission System Operators or to the Auction Office who sends the surrendered  
619 capacities to the relevant Transmission System Operators (depending on the bundling  
620 situation) for inclusion in the offered capacity.

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

624 When the auction is completed, the Transmission System Operator determines the part of  
625 the surrendered capacity that has been sold and informs the Network User of the outcome.

626 **3.3.3.5 Auction process**



627  
628

Figure 15: Auction workflow

629 Transmission System Operators or the Auction Office on behalf of the Transmission System  
630 Operators shall provide Network Users who bid in the day-ahead auctions with the option to  
631 have valid unsuccessful bids automatically entered into the subsequent within-day auction  
632 according to Article 15 (10) CAM NC.

633 The Auction Office validates each bid and informs the bid submitter of the outcome of the  
634 validation process. In the case of a rejection, the Network User may correct the bid  
635 information and resubmit it to the Auction Office before the bidding round closure.

636 In the case of the bid being successfully validated the Network User awaits the outcome of  
637 the auction. However, during the bidding round it is possible for the Network User to submit  
638 additional bids in the case of uniform price auctions, to make modifications to existing bids  
639 or to cancel an existing bid.

640 The Auction Office manages the bids received and any changes provided until the bidding  
641 round closes.

642 Once the bidding round closes, the Auction Office determines the situation between the  
643 capacity requested and the capacity offered.

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

646 A Transmission System Operator can send to the Auction Office a request to cancel an  
647 ongoing auction due to a force majeure. The Auction Office cancels the auction and inform  
648 all involved Transmission System Operators and Network Users about the auction  
649 cancellation.

650 Prior to beginning the new bidding round, the Network Users that participated in the  
651 previous bidding round are informed that a new bidding round will take place with a new  
652 price step. In addition information on the previous bidding round may be published if this is  
653 authorised by the Transmission System Operators.

654 At the closure of the auction, the Auction Office allocates the capacity respecting market  
655 rules and informs each Network User of the outcome of the auction. The Auction Office also  
656 provides the complete list of allocations to the Transmission System Operators.

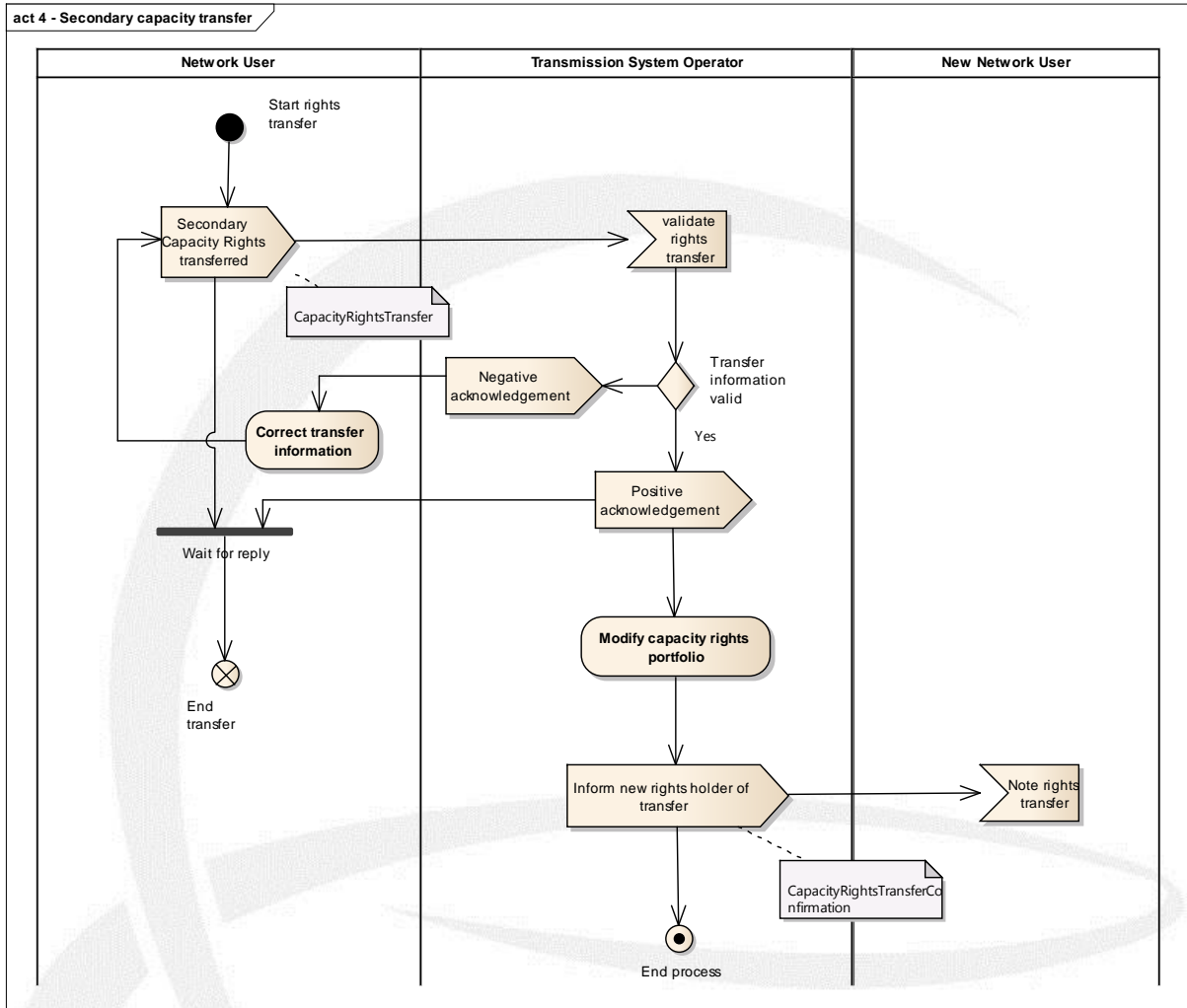
657 In a final step the Auction Office publishes the results of the auction.

658 The bidding in the reverse auction takes place in a similar fashion as an ordinary auction.  
659 When the auction closes the Auction Office processes all the bids and then may provide the  
660 list of validated bids to the Transmission System Operator. In this case the Transmission  
661 System Operator verifies the bids received and provides to the Auction Office the list of  
662 successful bids.

663 The Auction Office then informs the Network Users of their successful bids.



664 **3.3.3.6 Secondary market trade process**



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666

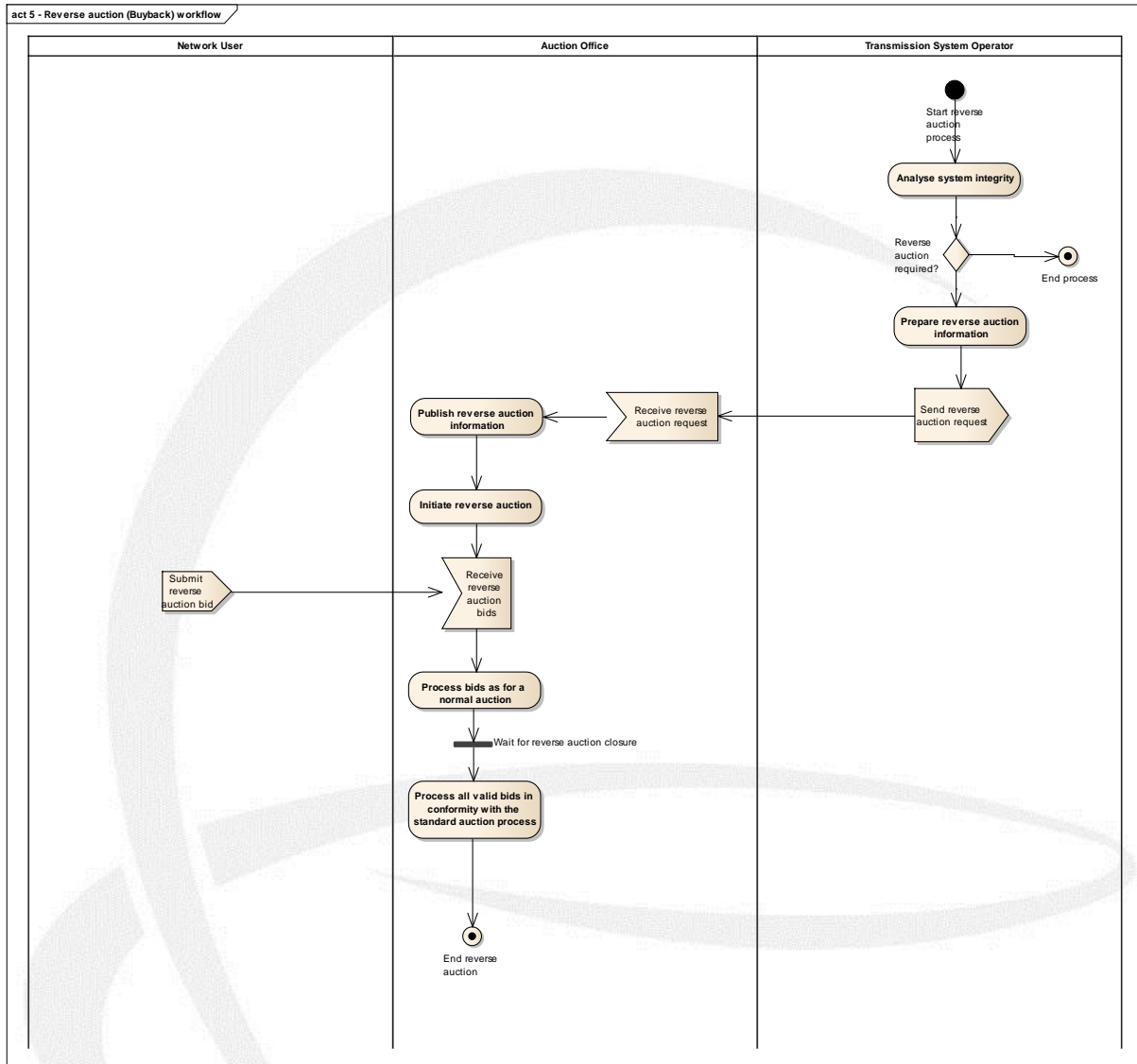
Figure 16: Secondary market transfer process

667 A secondary market trade process may take place where Network Users and eventually  
668 Transmission System Operators (in the case of reverse process), may trade the capacity that  
669 has been acquired.

670 The Transmission System Operator(s) must be informed of all trades by either the Network  
671 Users or the Auction Office on their behalf.

672 The Transmission System Operator(s) validate(s) the trade and when successful inform(s)  
673 directly or through the Auction Office the concerned Network Users of the capacity that has  
674 been transferred.

675 **3.3.3.7 Reverse auction process**



676  
677

Figure 17: Reverse auction workflow

678 The Transmission System Operator analyses if there is sufficient technical capacity in the  
679 network to handle the nominations provided by the Network Users.

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

683 Once the amount of overcapacity is determined the Transmission System Operator informs  
684 the Auction Office of the amount to be bought back from the market.

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

686 As an alternative to a reverse auction the Transmission System Operator may buy back the  
687 capacity acting in the role of a Network User on the secondary market.



688 **3.4 Information model requirements**

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



692 **3.5 Definitions of the attributes used in all the models**

Name	Description
Account	<p>An account assigned by a Transmission System Operator or by Market area coordinator to a Network User used for capacity and balancing accounting. This is also known as a Balancing Group or Portfolio code</p> <p>This is identified with the InternalAccountIdentification (see definition).</p>
AllocationIdentification	<p>The identification of the contractual reference under which the capacity was assigned by an Auction Office</p>
AuctionIdentification	<p>The identification of the auction where the capacity rights were offered</p>
AuctionPeriod	<p>The period during which an auction occurs</p>
AuctionType	<p>The type of the auction algorithm, e.g. uniform price auction and ascending clock auction</p>
AuthorisedUserIdentification	<p>The identification of a user authorised by a Network User</p>
AvailabilityType	<p>The identification of the type of availability of the capacity (e.g. firm or interruptible)</p>
BIC	<p>Bank Identifier Code</p>
BidAmount	<p>The total quantity of the bid</p>
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	<p>The price that has been established for a given bidding round</p>
BidIdentification	<p>The identification of the Network User's bid provided by the Auction Office or the Network</p>

Name	Description
	User
BidPrice	<p>The price bid on top of the starting price for the capacity requested</p> <p>The price bid may be either a fixed or a floating 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 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	<p>Capacity already allocated to Network Users at a ConnectionPoint</p> <p>This information may be transferred by the Transmission System Operator for the yearly auction according to Article 19 (5(a) &amp; (b)) CAM NC.</p>



Name	Description
BookingCosts	The costs associated with the capacity allocation
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 Network Users
CapacityAmountSurrendered	The amount of capacity that have been surrendered by a Network User to a Transmission System Operator to be presented for sale on an auction.
CapacityAmountTransferred	The amount of capacity that has been transferred between Network Users on the secondary market
CapacityOfferIdentification	Identification assigned by a Transmission System Operator to identify an offered capacity instance
CapacityType	Identification of way in which the capacity rights have been packaged (i.e. Bundled, unbundled).
ClearingPrice	<p>The price that successful Network Users 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>
CompetingProductCharacteristic	The characteristic 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

Name	Description
ConnectionPointIdentification	The identification of the ConnectionPoint
ContactType	The type of a Network User contact such as dispatching, capacity operation and invoicing
ContractReference	The reference of a Transmission System Operator assigned contract
ConversionAmount	The interruptible conversion amount
CreditLimitAmount	The amount of a credit limit
CreditLimitIdentification	The identification of a credit limit assignment to a Network User
CreditLimitUsed	The amount of a credit limit used on a primary or secondary market by a Network User
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
FirstName	Part of a person's full nomenclature
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
FrameworkName	The name of a credit limit framework
GasType	The type of gas which may be H-gas or L-gas

Name	Description
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 Network Users
InternalAccountIdentification	The identification of an account (balancing group or portfolio code) managed by a Transmission System Operator for a Network User that is registered in the Transmission System Operator's area
InterruptibleConversion	The quantity of interruptible capacity already booked that may be converted into firm capacity in case of a successful firm capacity bid
InterruptibleReference	The reference to interruptible booked capacity that is used to auction for firm capacity
LargePriceStep	A fixed or variable amount that is defined per Interconnection Point and Standard Capacity Product
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>
MinimumCapacityAmount	<p>The Minimum Amount of Capacity for the respective Standard Capacity Product which the Network User 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>

Name	Description
MobileTelephoneNumber	The telephone number of a wireless handheld device that allows users to make calls and send text messages, among other features
MultiplicationFactor	The factor that is used to multiply the value of a Network User credit limit to establish the credit limit for a given product type
NetworkUserIdentification	The identification of a Network User 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)
NetworkUserName	The name of the legal entity acting as Network User
OfficeTelephoneNumber	The telephone number of a standard telephone in an office that is wired to a telephone line
Period	The period covered for the capacity amount in question
ProductIdentification	The identification of a credit limit product that has a multiplication factor
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 technical congestion in the transmission system (Buyback or flow commitment)

Name	Description
RollOver	An indicator to inform the Auction Office that any unsold capacity shall be rolled over to the next defined period
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, Network User, bookable point), such as rejected, modified, canceled, valid, active...
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
TotalCreditLimit	The total credit limit provided by the Transmission System Operator and assigned to the Network User
ToTso	The Transmission System Operator where the gas is entering the network
ToMarketArea	The Market area where the gas is entering the network
TradingMarketType	Market in which the Network User is allowed to trade (Primary or Secondary market)

Name	Description
TransfereIdentification	The identification of a Network User that has bought transferred capacity rights on the secondary market
TransferorIdentification	The identification of a Network User that has transferred capacity rights on the secondary market
TSOIdentification	The identification of a Transmission System Operator
TsoPriceCap	The price limit that a Transmission System Operator is willing to pay for capacity in a reverse auction
UnitOfMeasure	The unit of measure in which the capacity amount is expressed
UnitOfPrice	The unit of measure in which the price is expressed
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

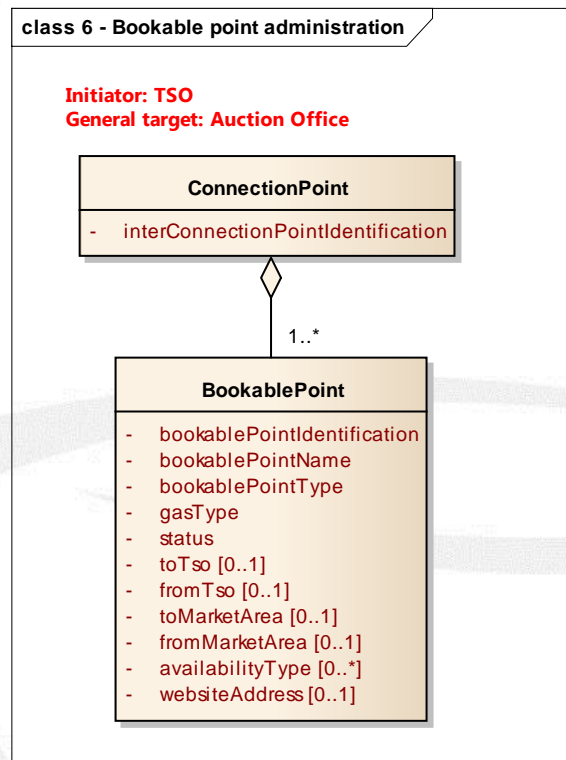


693 **3.6 Requirements per process**

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

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

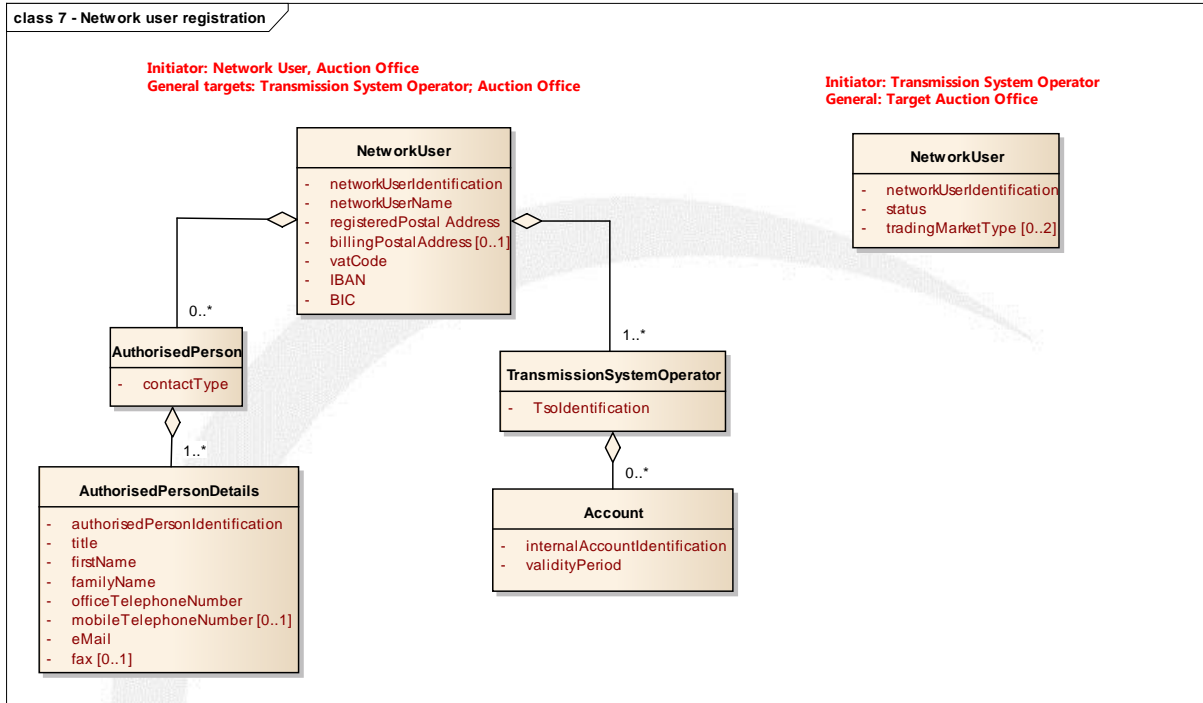
702 **3.6.1 Bookable point administration process**



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Figure 18: Bookable point administration requirements

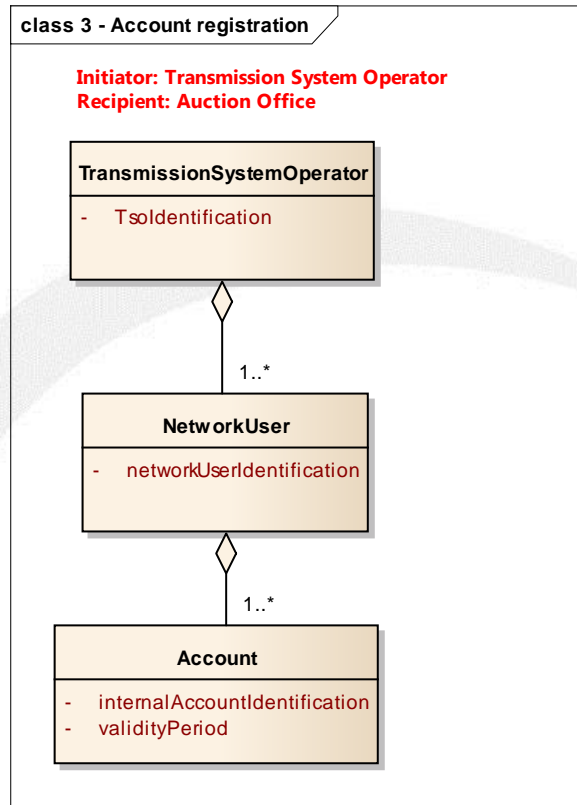
705 **3.6.2 Network User Registration process**



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Figure 19: Network User registration requirements

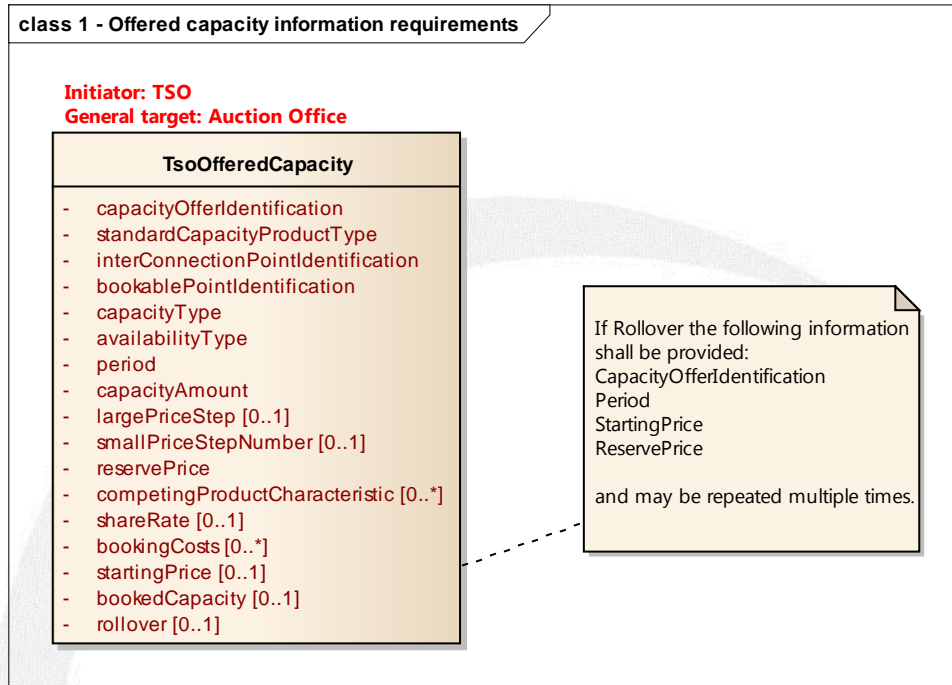
710 **3.6.3 Account Registration process**



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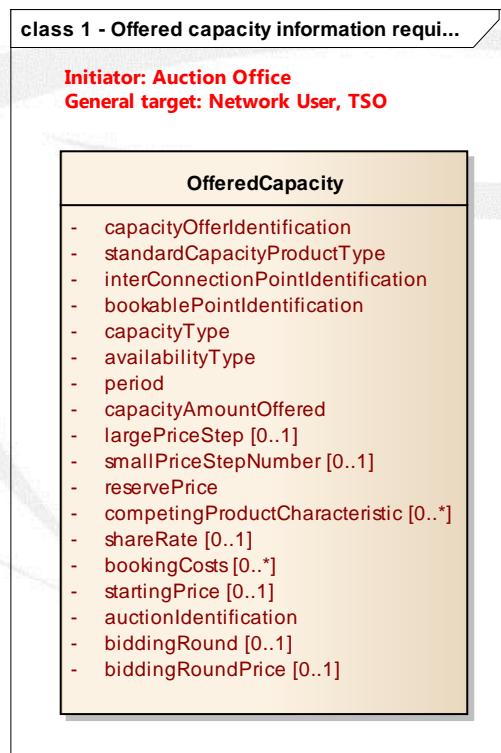
Figure 20: Account registration requirements

713 **3.6.4 Offered capacity process**



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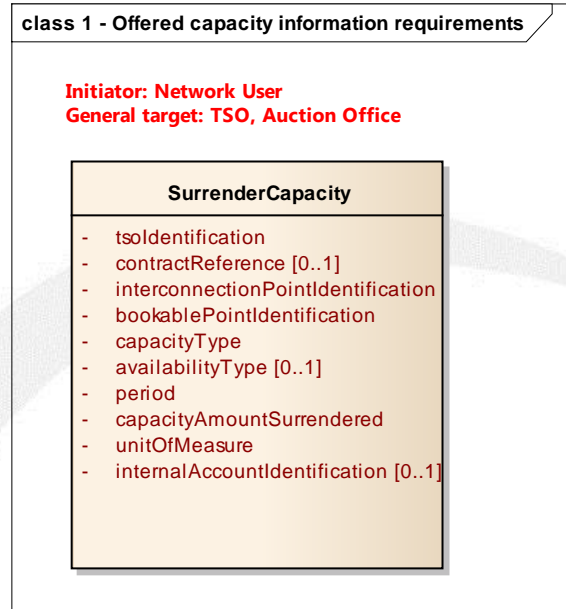
Figure 21: Transmission System Operator Offered capacity information requirements



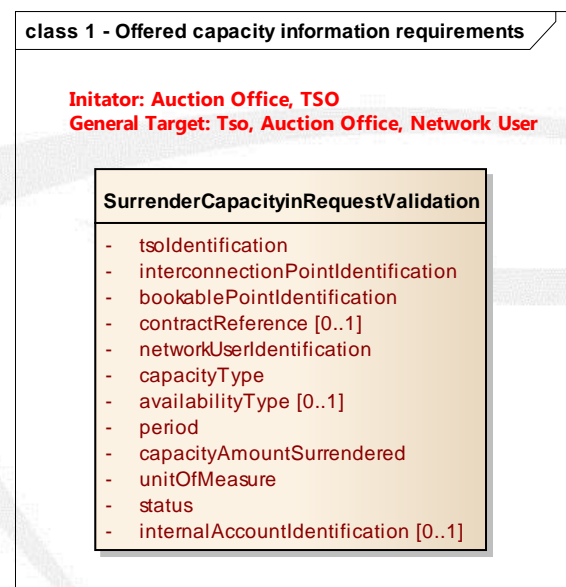
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Figure 22: Offered capacity information requirements

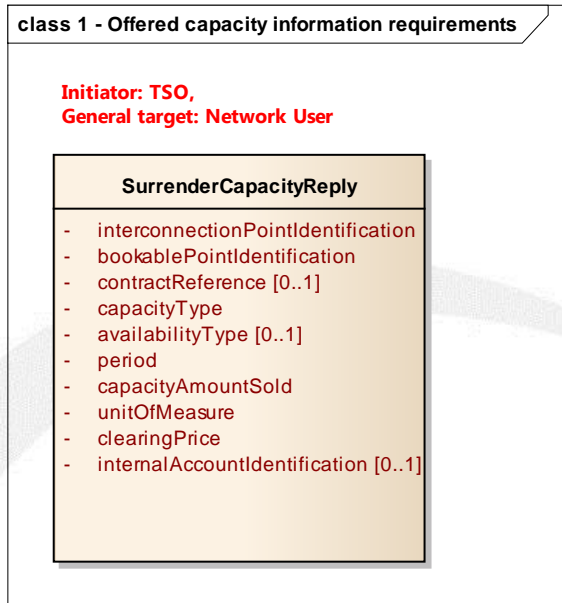
719 **3.6.5 Surrender capacity process**



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Figure 23: Surrendered capacity information requirements



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Figure 24: Surrender capacity request validation requirements

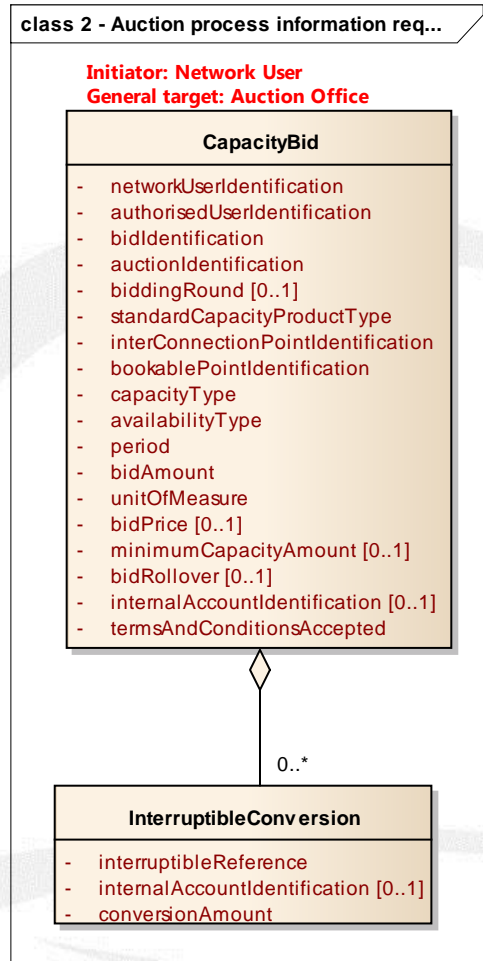


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Figure 25: Surrender capacity result requirements

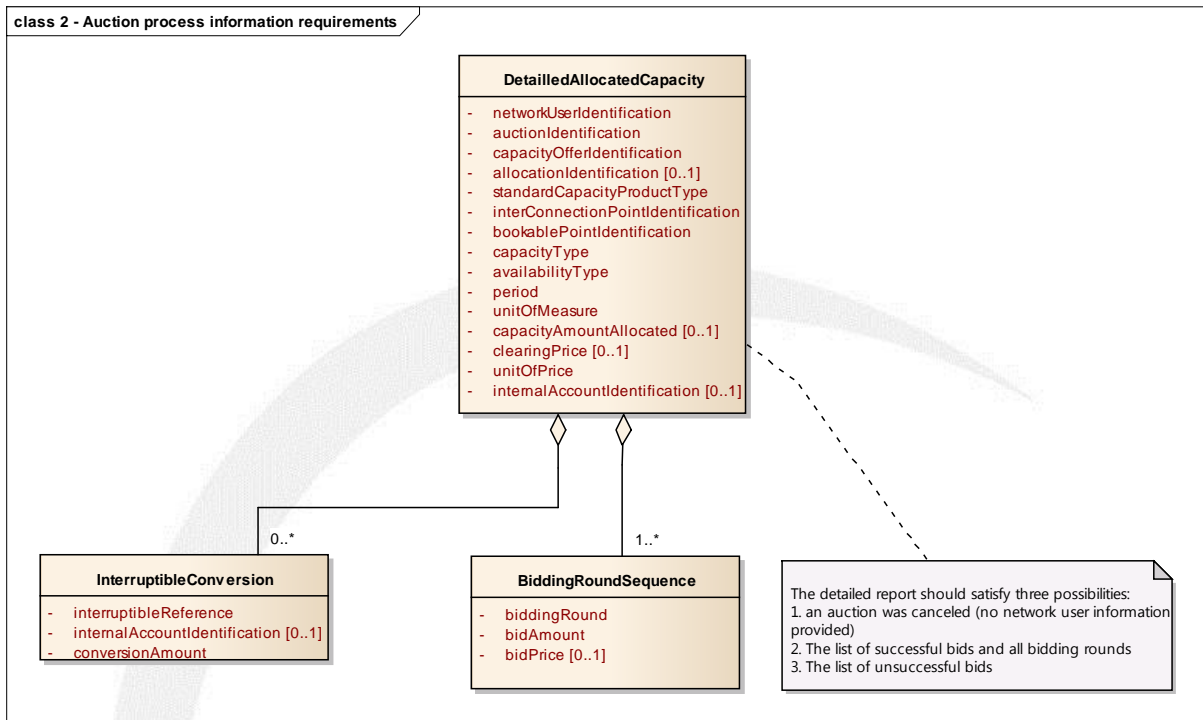


727 **3.6.6 Auction process**



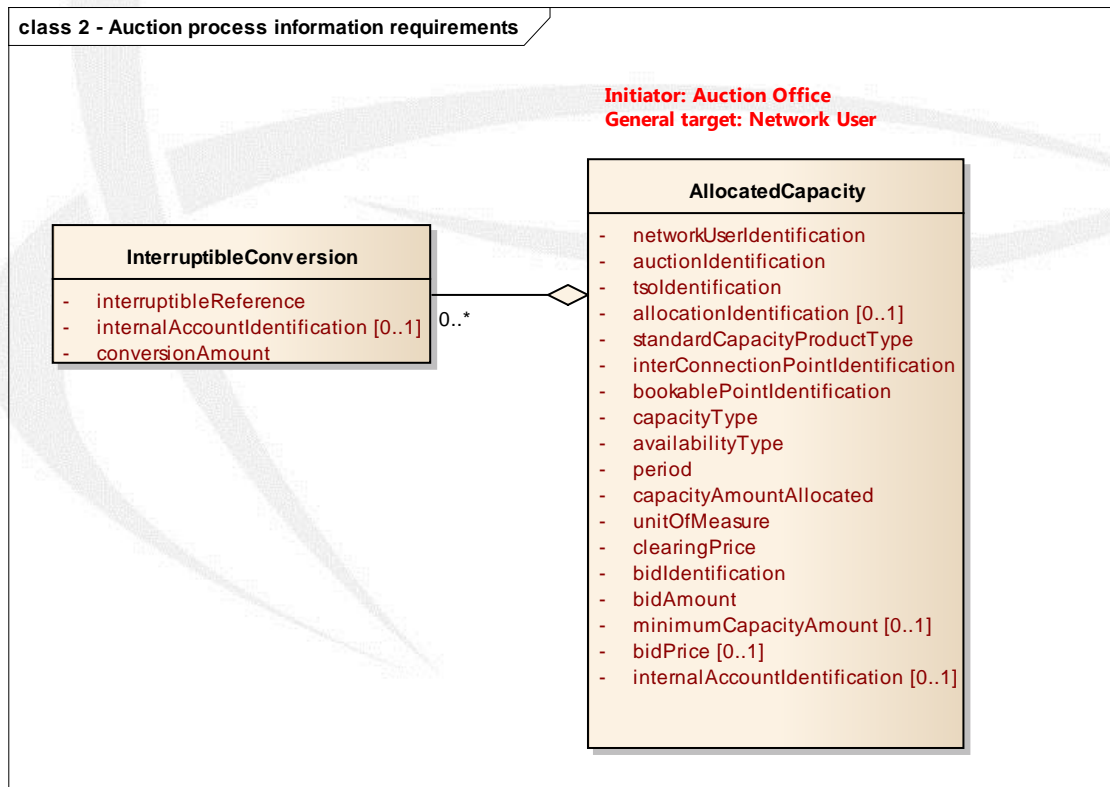
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Figure 26: Bid information requirements



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Figure 27: Detailed capacity allocated information requirements



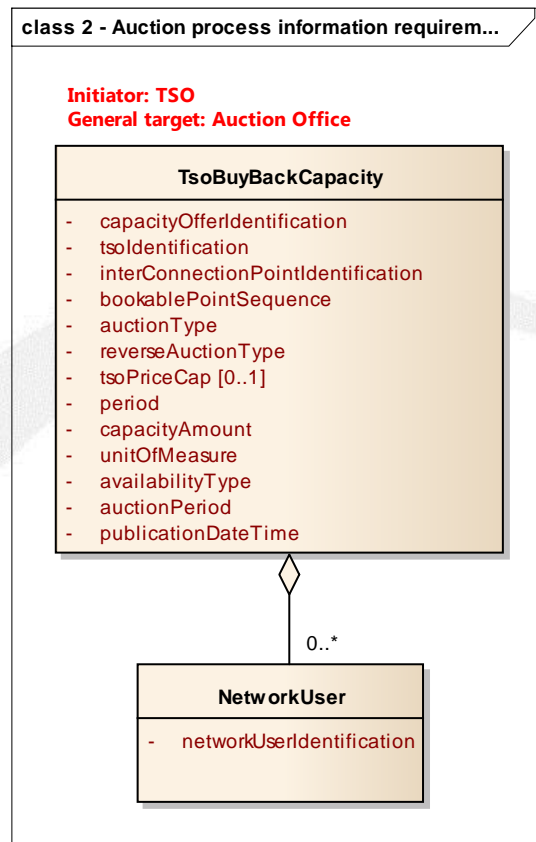
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Figure 28: Allocated capacity information requirements



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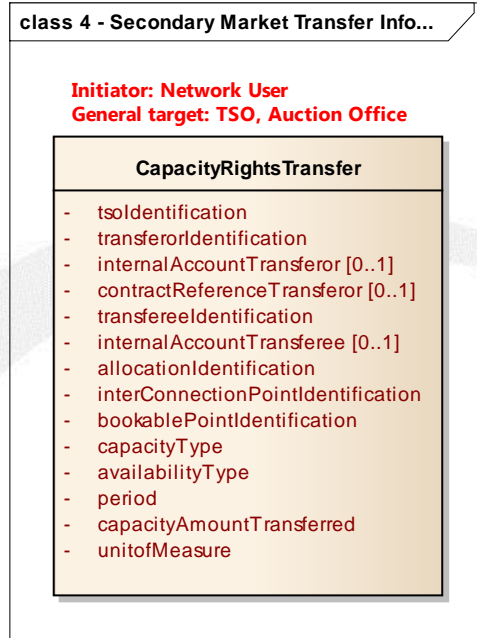
Figure 29: Aggregated auction results



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Figure 30: Transmission System Operator Buy back capacity information requirements

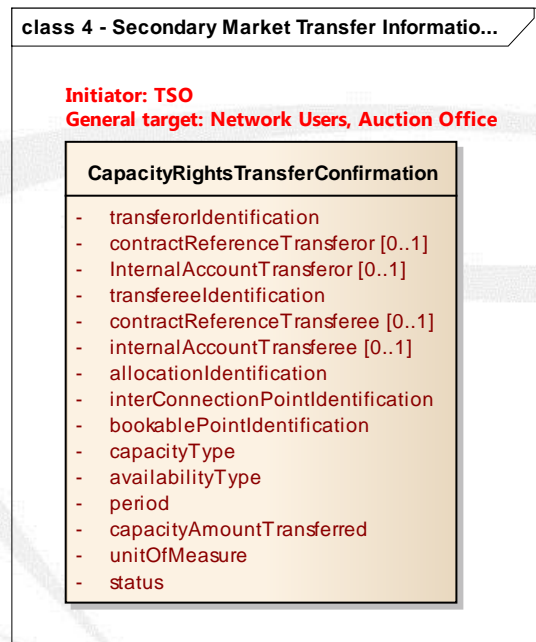
738 **3.6.7 Secondary market transfer process**



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Figure 31: Secondary market capacity rights transfer information requirements

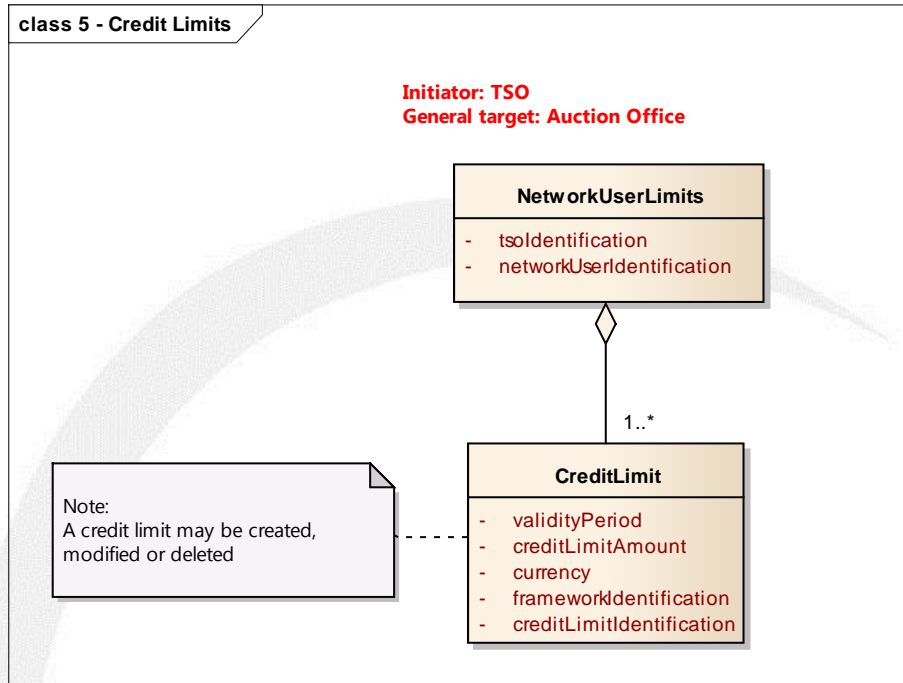


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Figure 32: Secondary market capacity rights transfer confirmation information requirements

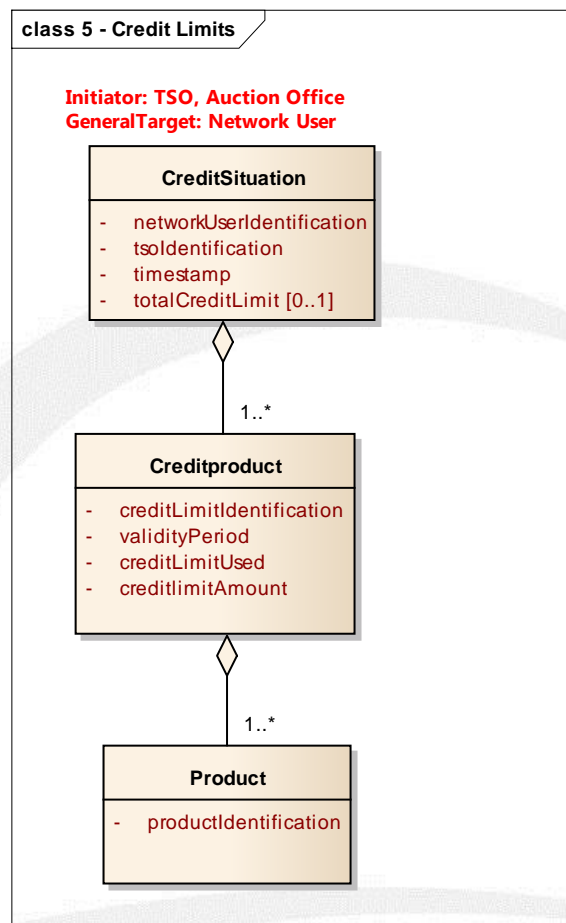
743 **3.6.8 Credit limit process**



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**Figure 33: Network User credit limit information requirements**





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Figure 34: Network User credit situation requirements