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**Business Requirements Specification
for the
Nomination and Matching Procedures
In Gas Transmission Systems (NOM BRS)**

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Approved

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10 **Log of changes**

Change	Date of change	Issuer of change
References to NC BAL updated based on structure of Regulation after comitology	1 July 2014	ENTSOG
Addition of a table reflecting reference documents and status of these	1 July 2014	ENTSOG
Addition of authorisation process for single sided nominations	9 Feb. 2015	ENTSOG

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75 **1 Objective**

76 Commission Regulation (EU) No 312/2014 of 26 March 2014 establishing a Network Code
77 on Gas Balancing of Transmission Networks (hereinafter 'NC BAL') sets forth provisions in
78 respect to gas balancing regimes within the borders of the European Union with the aim to
79 facilitate gas trading across Balancing Zones toward greater market integration.

80 It defines gas balancing rules, including network-related rules on nominations procedure, on
81 imbalance charges and on operational balancing as required by Article 8(6)(j) of Regulation
82 (EC) No 715/2009.

83 Its aim is to harmonise gas balancing arrangements to support the completion and
84 functioning of the European internal gas market, the security of supply and appropriate
85 access to the relevant information, in order to facilitate trade, including cross-border trade,
86 to move forward towards greater market integration.

87 Commission Regulation (EU) No 984/2013 of 14 October 2013 establishing a Network Code
88 on Capacity Allocation Mechanisms in Gas Transmission Systems (hereinafter 'NC CAM')
89 defines how adjacent Transmission System Operators cooperate in order to facilitate
90 capacity sales, taking into consideration general commercial as well as technical rules related
91 to capacity allocation mechanisms. The Congestion Management Principles (CMP) guidelines
92 provide rules in respect to contractual congestion in gas transmission networks.

93 This document defines the business requirements that are necessary for a harmonised
94 software implementation of the information exchanges necessary to satisfy the processes
95 defined in the above mentioned Network Codes in addition to the future Network Code on
96 Interoperability and Data Exchange Rules (hereinafter 'NC INT').

97 **2 Scope**

98 This document outlines the external business requirements that are necessary in order to
99 ensure a harmonised transmission of information between parties participating in the
100 nomination and matching environment. It is intended for use by parties involved in such an
101 implementation. In particular, it forms a specification to enable EASEE-gas to produce
102 documentation that can be approved and published.

103 This Business Requirements Specification (BRS) covers only those requirements that are essential
104 for the harmonised implementation of nomination and matching process exchanges.

105 This Business Requirements Specification (BRS) is targeted towards business-to-business
106 application interfaces. However, it may be equally put into place in a more user-orientated
107 fashion through a web-based service.

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

110 The requirements set out in this document are subject to change if there is any change in the
111 obligations on transmission system operators.

112 The Business Requirements Specification does not describe the process for determining the
113 identification of which capacity is to be interrupted.

114 In the diagrams the notions of initiating and matching system operator appear, these roles may
115 be provided by an intermediary where there is agreement between the transmission system
116 operators.

117 This document, for readability purposes, uses the single sided nomination process as
118 systematically coming from the Initiating System Operator. However it should be clearly
119 understood that a single sided nomination can be received by one or the other Transmission
120 System Operators as bilaterally agreed by them. The receiver of the single sided nomination is
121 independent from the initiating or matching role being played. If the Transmission System
122 Operators agree then network users can decide themselves which Transmission System
123 Operator will receive a single-sided nomination.

124 Note: The information requirements specify that multiple connection points are possible within
125 an information flow. However it has been left to each Transmission System Operator to
126 determine whether or not in an information flow it will be permitted to provide only one
127 connection point or multiple connection points.

128 It should also be noted that all timings mentioned in the document are the maximum possible.
129 All actions, however, should be taken as soon as reasonably possible.

130 For the submission of singles-sided nominations, the transmission system operators active at a
131 respective connection point shall agree and make public to which of them single-sided
132 nominations shall be submitted.

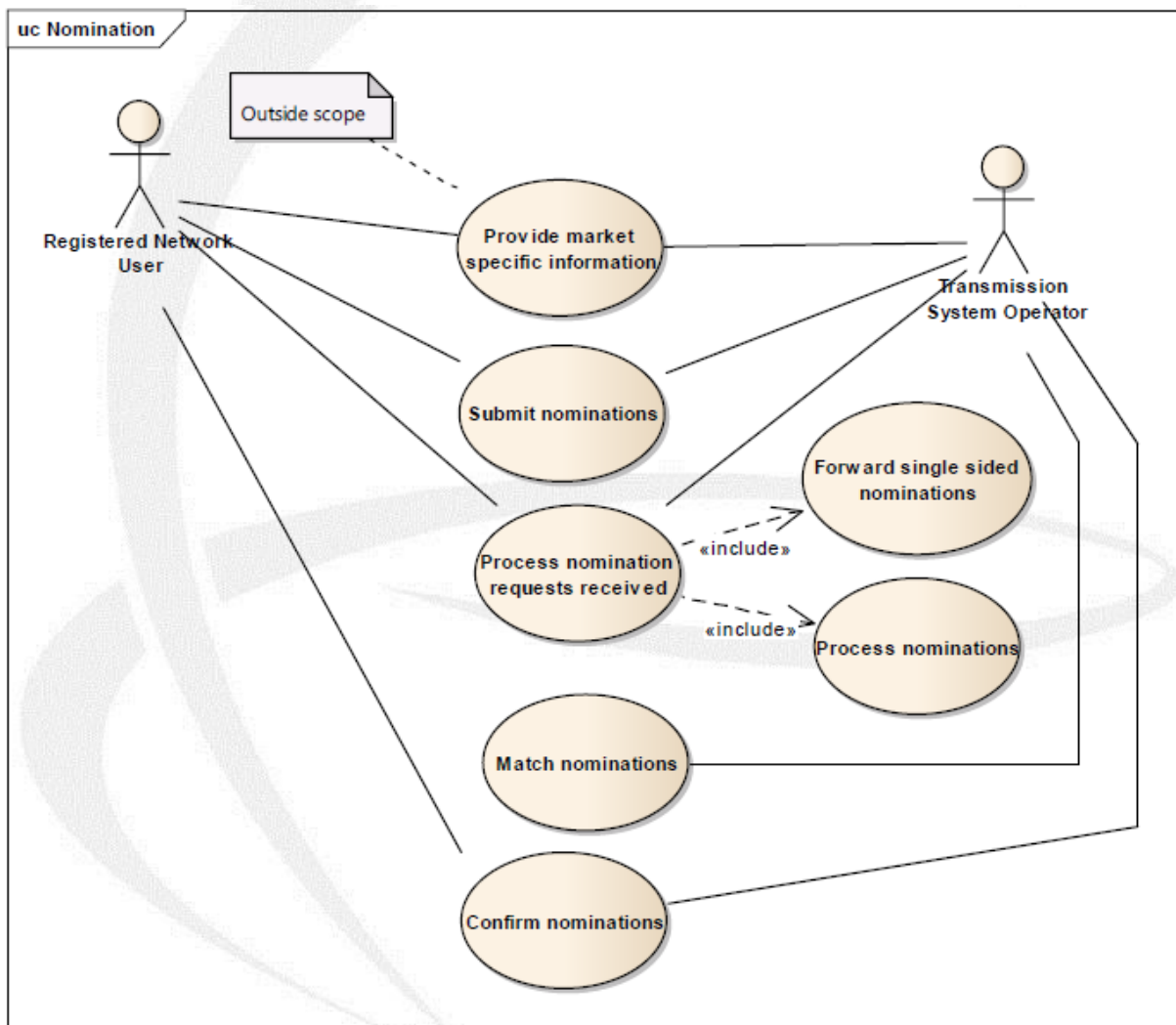
133 **3 Business requirements**

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

136 **3.1 Nomination requirements**

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

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Figure 1: overview of the Nomination process use case

143 **3.2 List of actors**

144 **3.2.1 Registered Network User**

145 A network user that has acceded to and is compliant with all applicable legal and contractual
146 requirements that enable him/her to book and use capacity on the relevant Transmission
147 System Operator's network under a capacity contract.

148 A Registered Network User in the context of this document has obtained a right to nominate
149 and is understood in NC BAL as a Network User.

150 **3.2.2 Transmission System Operator**

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

156 At each connection point a Transmission System Operator may have specific roles in
157 different contexts:

158 1. In the context of double-sided nominations in the interface with the Registered
159 Network User:

160 • That of a Transmission System Operator who receives all nominations submitted
161 by the Registered Network Users registered in the system operator's area.

162 2. In the context of single sided nominations in the interface with the Registered
163 Network User:

164 • That of the active Transmission System Operator who receives the single sided
165 nominations submitted by a Registered Network User on behalf of itself and on
166 behalf of the counter party Registered Network User of the adjacent
167 Transmission System Operator to whom the active Transmission System
168 Operator forwards the single sided nominations;

169 • That of the passive Transmission System Operator who is adjacent to the active
170 Transmission System Operator and receives the single sided nominations
171 forwarded by the active Transmission System Operator.

172 3. In the context of the matching process between Transmission System Operators

173 • That of an Initiating Transmission System Operator who is the Transmission
174 System Operator that initiates the matching process by sending all necessary
175 data to the Matching Transmission System Operator;

176 • That of a Matching Transmission System Operator who is the Transmission
177 System Operator that performs the matching process and who sends the results
178 to the Initiating Transmission System Operator.

179 **3.3 Use case detail**

180 **3.3.1 Provide market specific information**

181 This use case enables the provision of market specific information related to the Registered
182 Network User to the Transmission System Operator. It is outside the scope of this Business
183 Requirement Specification and is only provided for information.

184 This enables the establishment of the business rules and obligations for the use of single
185 sided nominations between the Transmission System Operator and the Registered Network
186 User.

187 **3.3.2 Submit nominations**

188 This use case enables a Registered Network User to provide nominations for processing to a
189 Transmission System Operator. A nomination may be submitted by only one Registered
190 Network User on behalf of both parties (known as a single sided nomination) or each
191 Registered Network User on each side of the connection point (known as a double sided
192 nomination).

193 A single sided nomination means that there is no corresponding nomination transmitted by
194 the counter party Registered Network User to its Transmission System Operator. The active
195 Transmission System Operator will forward the single sided nominations to the adjacent
196 passive Transmission System Operator.

197 Both Transmission System Operators will agree bilaterally on who will be the active
198 Transmission System Operator that receives the single sided nominations from his
199 Registered Network Users. In principle, the Transmission System Operator that requires the
200 nomination information more urgently due to market processes should be foreseen as active
201 Transmission System Operator. However, if the involved Transmission System Operators
202 agree, the concerned Registered Network Users can decide themselves which of the
203 Transmission System Operators will receive the single sided nominations.

204 A double sided nomination means that both Registered Network Users must submit
205 nominations independently to their respective Transmission System Operators on each side
206 of the connection point.

207 A nomination request made by a Registered Network User to the active Transmission System
208 Operator may contain a mix of both single sided and double sided nominations.

209 There is no distinction made in the nomination request between bundled and unbundled
210 capacity or between firm and interruptible capacity. The nomination request on a given
211 connection point shall contain uniquely the total nominated quantity, the flow direction and
212 the counterpart. The Transmission System Operators at a connection point may decide to
213 allow Registered Network Users to submit nomination requests on both directions of the gas
214 flow or to submit the net nomination request.

215 **3.3.3 Process nomination requests received**

216 This use case enables the Transmission System Operator receiving a nomination request to
217 validate its content. This process will be detailed in the use cases “process single sided
218 nominations” and “process nominations” described below.

219 The Transmission System Operator always acknowledges receipt of the nominations from
220 the Registered Network User and the forwarded nominations from the Transmission System
221 Operator that received a single sided nomination. The acknowledgement may be either
222 positive or negative.

223 **3.3.3.1 Process single sided nominations**

224 For the purposes of clarity and ease of description the process for single sided nominations
225 described in this document shows cases in which the active Transmission System Operator is
226 always the Initiating Transmission System Operator and the passive Transmission System
227 Operator is always the Matching Transmission System Operator. In practice, this
228 combination of roles of the Transmission System Operators at a connection point is not a
229 requirement. Depending on the agreement of the involved Transmission System Operators,
230 single sided nominations could be submitted to both, the Initiating Transmission System
231 Operator or the Matching Transmission System Operator.

232 All single sided nominations shall be passed by the active Transmission System Operator to
233 the passive Transmission System Operator for local processing. Unless agreed otherwise by
234 the involved Transmission System Operators, this shall be done as soon as technically
235 possible and feasible but no later than 15 minutes after the (re)-nomination deadline(s). If
236 required by the passive Transmission System Operator, the forwarded nomination message
237 shall additionally contain for each received single sided nomination the point of time at
238 which the original nomination message was technically received by the active Transmission
239 System Operator.

240 A single sided nomination shall only be forwarded to the passive Transmission System
241 Operator once the syntactical and semantic content of the submitted nomination is
242 coherent.

243 It should be noted that within this process, the passive Transmission System Operator has to
244 process all the single sided nominations that have been received from the active
245 Transmission System Operator as if it would be a nomination sent by his own Registered
246 Network User, to ensure that the validation rules are respected.

247 The forwarded nominations shall be transmitted on a per connection point basis.

248 **3.3.3.2 Process nominations**

249 All double sided and single sided nominations are handled together on a connection point,
250 account pair and on a flow direction basis.

251 Standard processing is then carried out on each nomination to ensure that it respects all
252 validation rules as well as ensuring that it remains within the nomination possibilities

253 allowed for the Registered Network User, taking into account the time required for the
254 forwarding of single sided nominations.

255 When necessary the Transmission System Operator provides interruption notifications to the
256 Registered Network User. Such notifications are for information and are only submitted once
257 per nomination period.

258 Once processing has been completed the Initiating Transmission System Operator transmits
259 to the Matching Transmission System Operator the nominations as processed as well as the
260 nominations as received if agreed bilaterally by the Transmission System Operators.

261 **3.3.3.3 Authorisation process for single sided nominations**

262 For the use of single sided nominations, the passive Transmission System Operator needs to
263 establish a process that enables the counter party Registered Network User to authorise the
264 Registered Network User in the system of the active Transmission System Operator to
265 submit single sided nominations on its behalf to the active Transmission System Operator.
266 Such an authorisation could e.g. be conducted via a website interface, an addendum to the
267 transport contract, an edig@s message, etc. The passive Transmission System Operator shall
268 check whether for all forwarded single sided nominations a valid authorisation from the
269 concerned counter party Registered Network User to the nominating Registered Network
270 User is in place.

271 The authorisation from the counter party Registered Network User to the passive
272 Transmission System Operator shall contain at least the following information:

- 273 • The account or portfolio code of the Registered Network User that is authorising
274 another Registered Network User to submit single sided nominations on its behalf;
- 275 • The account or portfolio code of the Registered Network User that is authorised to
276 submit single sided nominations on its behalf;
- 277 • The connection points for which the authorisation is valid;
- 278 • The validity period (start and end date) of the authorisation.

279 For cases in which a single sided nomination is submitted on behalf of one legal entity active
280 in both networks, the authorisation process may not be necessary, if the involved
281 Transmission System Operators conclude a bilateral agreement allowing them to check the
282 identities of nominating Registered Network Users. If in such a case the Registered Network
283 User that submitted a single sided nomination to the active Transmission System Operator is
284 also submitting a corresponding counter nomination to the passive Transmission System
285 Operator, the nominations shall be processed as double sided nominations, unless specified
286 otherwise by the Transmission System Operators.

287 If a passive Registered Network User submits a nomination to the passive Transmission
288 System Operator affecting an account or portfolio code of the active Registered Network
289 User for a period for which a valid authorisation between the two Registered Network Users
290 is in place, the nomination shall be processed as double sided and the respective

291 authorisation shall be deactivated for the respective gas day, unless specified otherwise by
292 the Transmission System Operators.

293 3.3.4 Match nominations

294 This use case enables the Matching Transmission System Operator to match the processed
295 results from both sides and to determine the quantities that are to be confirmed.

296 Once the matching has been finalised the confirmed nominations and the processed quantities
297 established by the Matching Transmission System Operator are transmitted to the Initiating
298 Transmission System Operator. If agreed between Transmission System Operators the double
299 sided original nominations received by the Matching Transmission System Operator may also be
300 transmitted.

301 3.3.5 Confirm nominations

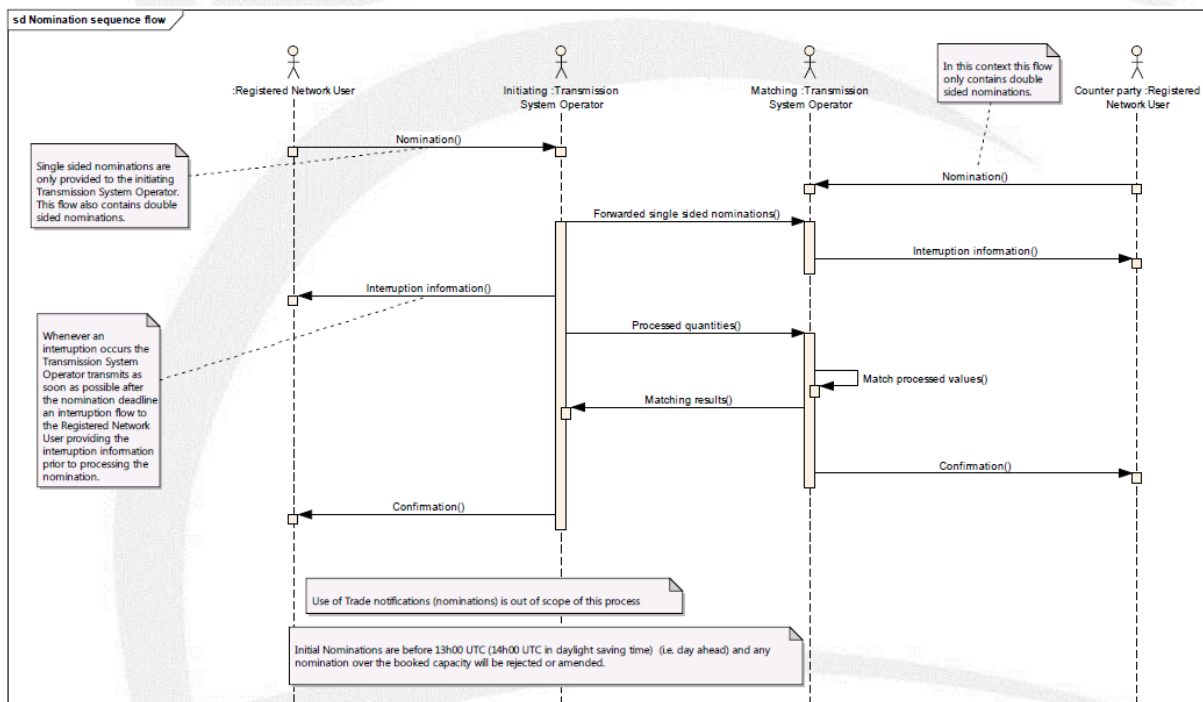
302 This use case enables a Transmission System Operator to confirm to the Registered Network
303 User the results of the submitted nomination requests.

304 In the case of single sided nominations as well as double sided nominations each Transmission
305 System Operator shall provide the confirmed nominations to their respective Registered
306 Network User.

307 The Registered Network User that submitted single sided nominations may also inform the
308 counterparty of the results.

309 3.4 Information flow definition

310 3.4.1 Nomination Sequence flow



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Figure 2: Information flow sequence

313 The operational sequence is broken down into 5 mandatory information flows and one
314 optional flow. A sixth flow simply identifies for clarification the point where matching takes
315 place.

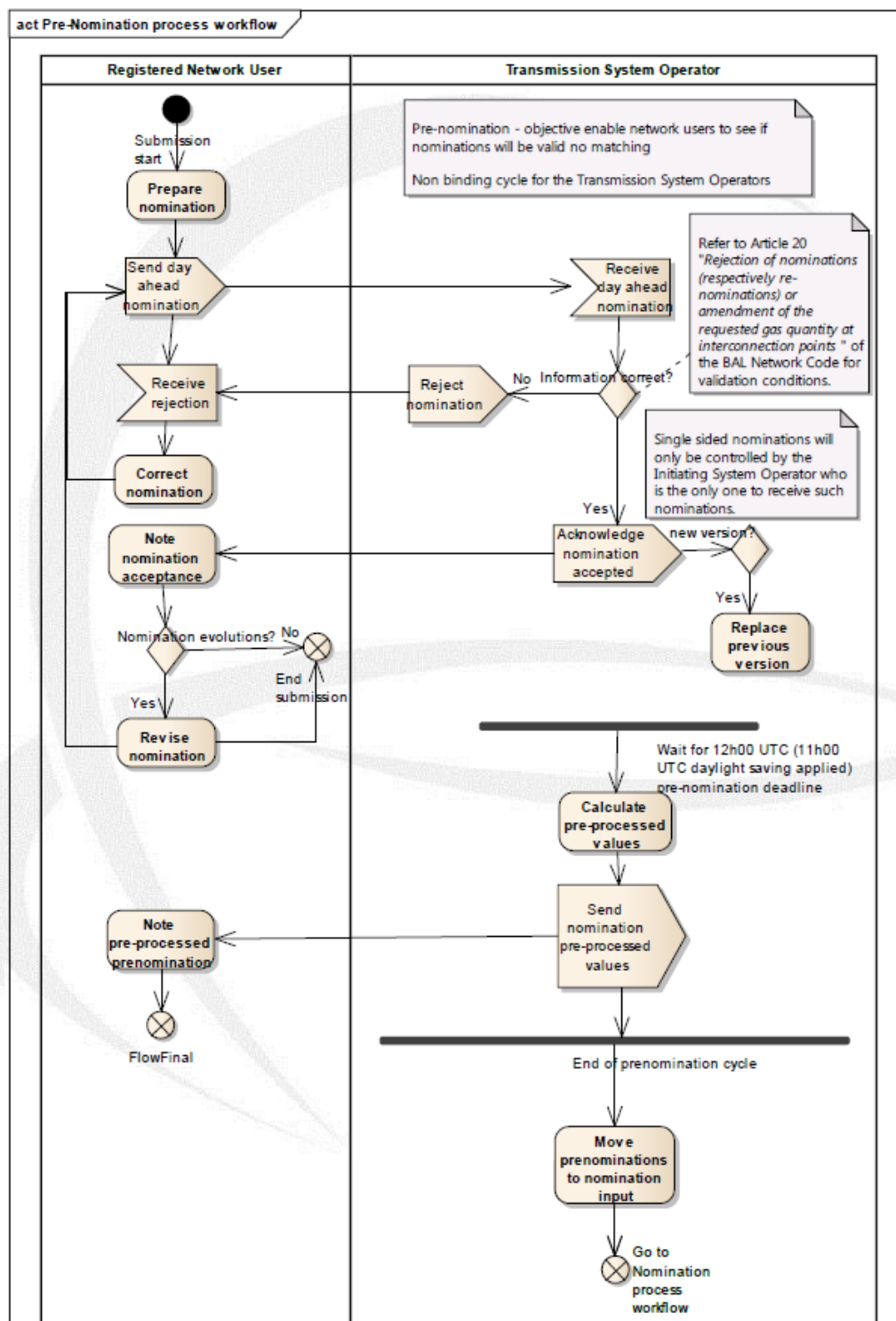
316 The five mandatory flows are:

- 317 1. The transmission of nomination information between the Registered Network User
318 and the Transmission System Operator. In case of double sided nominations, the
319 information shall be submitted to the Initiating Transmission System Operator and to
320 the Matching Transmission System Operator by the respective Registered Network
321 Users. In case of single sided nominations, the information shall be submitted to the
322 active Transmission System Operator (in this example being the Initiating
323 Transmission System Operator).
- 324 2. The transmission of single sided nomination information from the active
325 Transmission System Operator to the passive Transmission System Operator (in this
326 example from the Initiating Transmission System Operator to the Matching
327 Transmission System Operator) in accordance with point 3.3.3.1 all the single sided
328 nominations that have been received.
- 329 3. The transmission of matching information between the Initiating Transmission
330 System Operator and the Matching Transmission System Operator. This transmission
331 occurs within 45 minutes after the nomination deadline and contains all the
332 nominations processed by the Initiating Transmission System Operator and optionally
333 the nomination.
- 334 4. The transmission of the matching results between the Matching Transmission System
335 Operator and the Initiating Transmission System Operator. This transmission occurs
336 within 90 minutes after the nomination deadline and contains at least all the
337 nominations where the processed information has been matched and that are
338 confirmed. It also contains the processed results on the Matching Transmission
339 System Operator side and optionally the nomination.
- 340 5. The transmission of the confirmation between the Transmission System Operator
341 and the Registered Network Users. This transmission occurs within two hours after
342 the nomination deadline and contains the results of their nominations.

343 A sixth information flow, interruption information, only occurs in the case where a
344 Transmission System Operator has introduced an interruption to the Registered Network
345 User nomination. In this case the Transmission System Operator informs the Registered
346 Network User of the interruptions that have affected the nomination. This information is
347 basically provided for information since processing of the nomination may not yet be
348 completed. It must occur within the 45 minutes after the nomination deadline.

349 **3.4.2 Nomination Workflow**

350 **3.4.2.1 Pre-nomination process workflow**



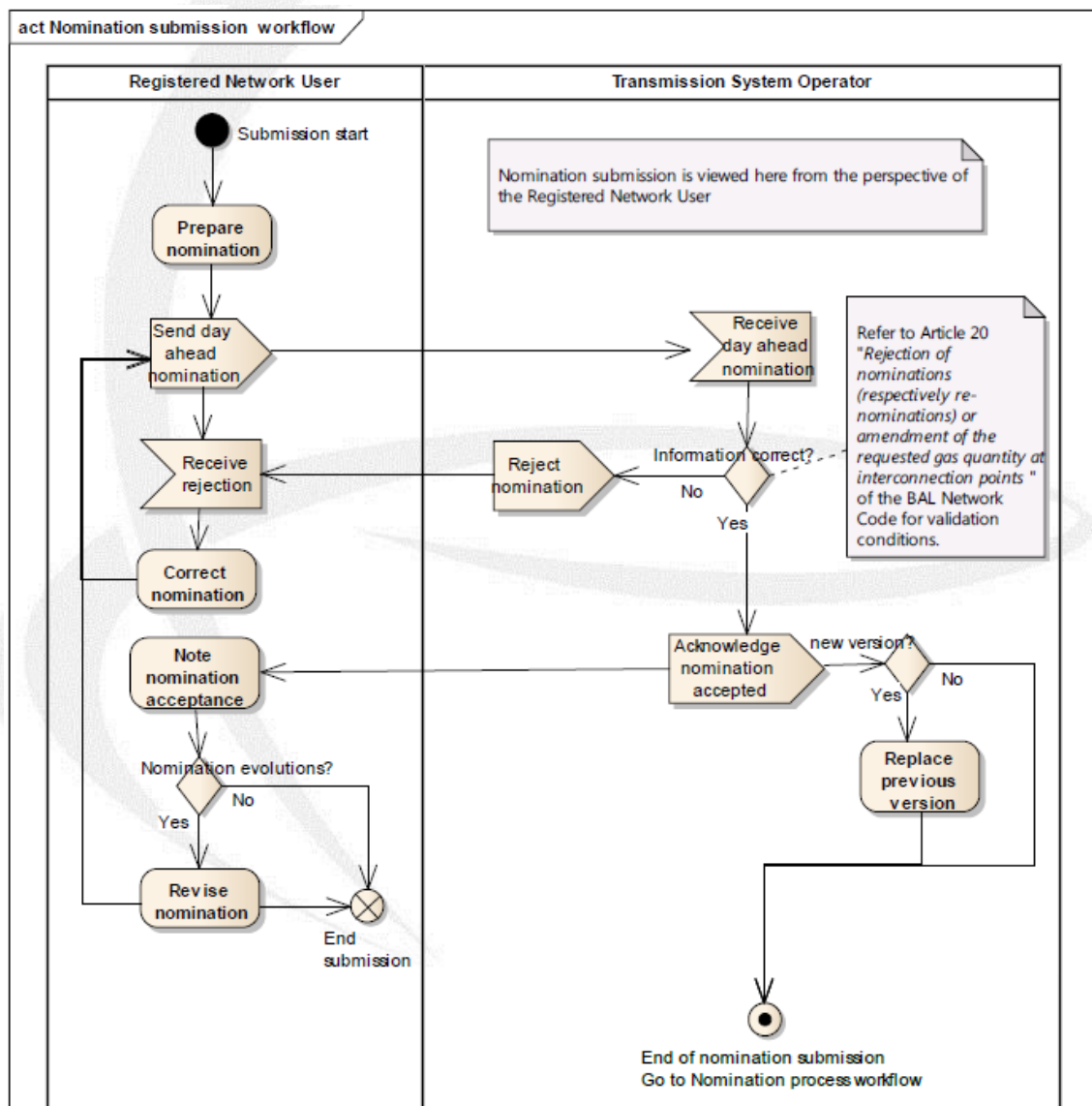
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Figure 3: Pre-nomination workflow

353 The pre-nomination process is to enable a Registered Network User to verify if the
354 nominations submitted are valid in the environment of the receiving Transmission System
355 Operator. The Registered Network User receives a response based on the pre-processed
356 values. There is no matching carried out nor is the information passed to the Matching
357 Transmission System Operator.

358 This step is not a binding possibility for a Transmission System Operator and may be not
359 permitted if not agreed by both Transmission System Operators. If the step is permitted then
360 the Registered Network User may decide to use it or not.

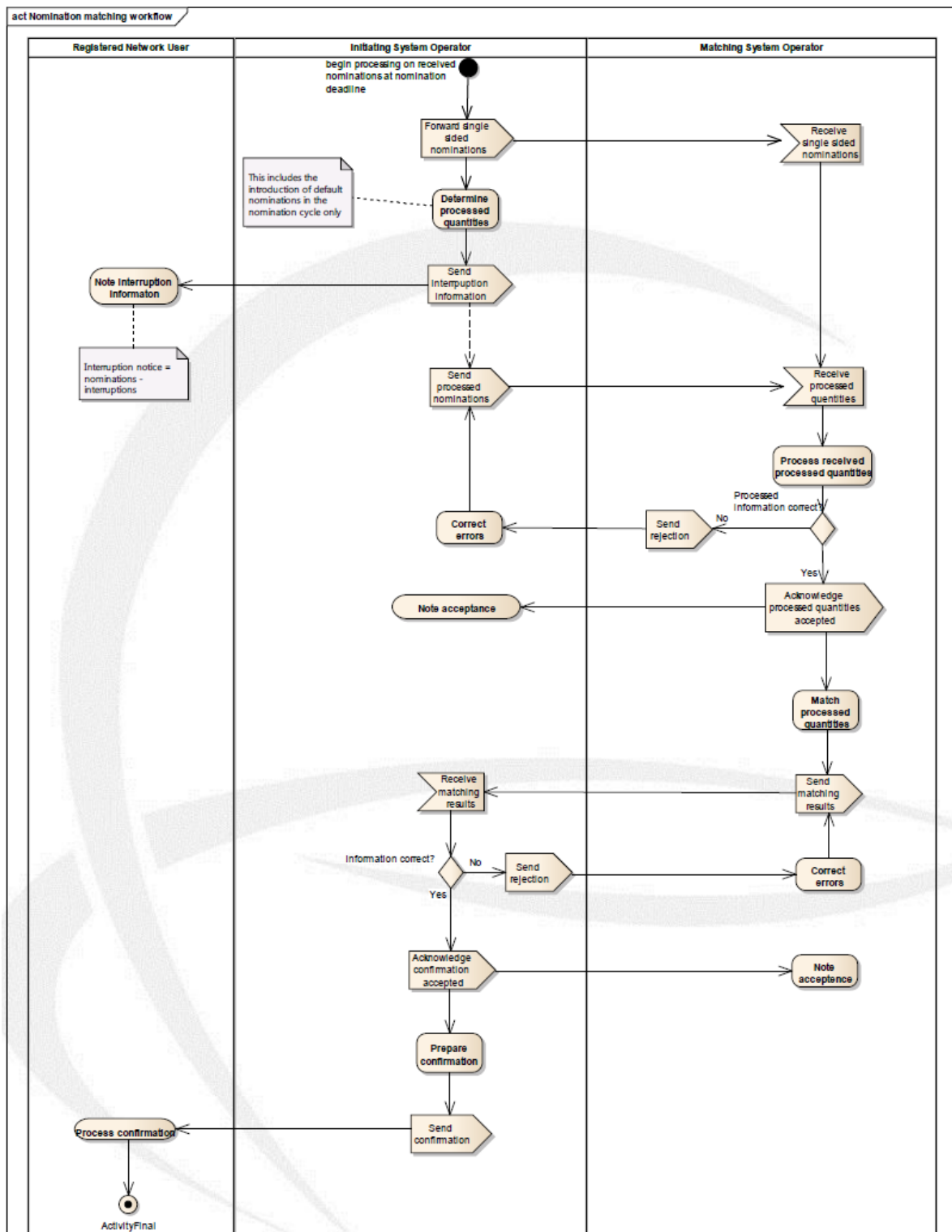
361 **3.4.2.2 Nomination process workflow**



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Figure 4: Nomination workflow

- 364 Nomination submissions are carried out as depicted in figure 4. The Registered Network
365 User submits all nominations to the local Transmission System Operator.
- 366 In the case of single sided nominations only the Registered Network User whose
367 Transmission System Operator acts as the active Transmission System Operator submits the
368 single sided nominations.
- 369 Once the nomination submission has terminated and the nomination deadline has been met
370 the matching process as depicted in figure 5 is carried out.



371
372

Figure 5: Nomination process workflow

373 The active Transmission System Operator then transmits all single sided nominations to the
374 passive Transmission System Operator within 15 minutes after the nomination deadline in
375 order to facilitate processing by the passive Transmission System Operator.

376 Once the nominations have been accepted, they are processed by the Transmission System
377 Operators in order to ensure that they comply with local market rules.

378 If either Transmission System Operator has to carry out an interruption this information is
379 provided to the Registered Network User for information.

380 Once all nominations have been processed, the Initiating Transmission System Operator
381 transmits the processed results and optionally the nominations to the Matching
382 Transmission System Operator.

383 All the processed quantities received from the Initiating Transmission System Operator are
384 matched with all the processed quantities established by the Matching Transmission System
385 Operator.

386 Any differences in the matching process have a basic rule applied (in general the lesser
387 values rule). The final confirmed quantities are then transmitted by the Matching
388 Transmission System Operator to the Initiating Transmission System Operator. This includes
389 the quantities processed by the Matching Transmission System Operator and optionally all
390 the nominations received.

391 The Initiating and Matching Transmission System Operators then confirm to their respective
392 Registered Network Users the results of the matching process.

393 **3.4.3 General Acknowledgement process**

394 **3.4.3.1 Business process definition**

395 The acknowledgment business process is generic and can be used in all the energy market
396 business processes at two levels:

- 397 • System level: To detect syntax errors (parsing errors, etc.);
- 398 • Application level: To detect semantic errors (invalid data, wrong process, etc.).

399 If there is a problem encountered at the first level, then a technical acknowledgement may
400 be sent to inform the originator of the problem.

401 If errors are encountered at the second level or if the application can successfully process
402 the information, then an application acknowledgement may be sent to inform the issuer of
403 the situation.

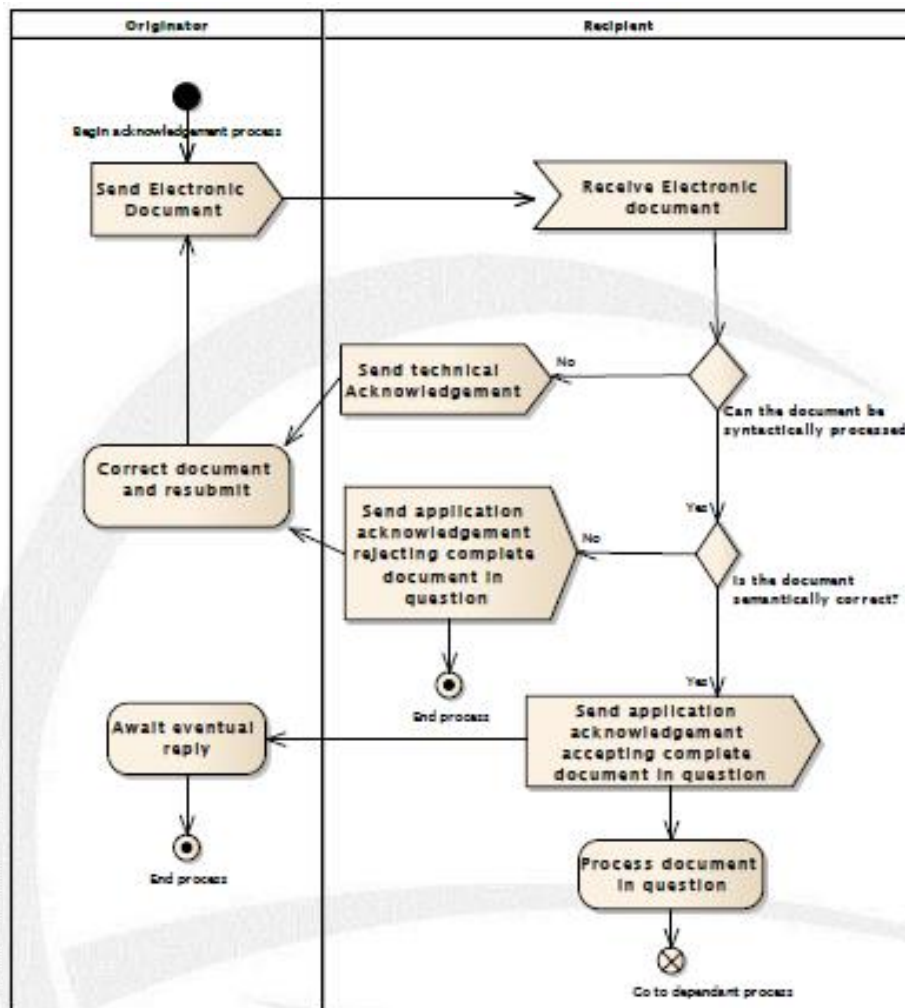


Figure 6: Acknowledgement process

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406 3.4.3.2 Technical acknowledgment

407 A technical acknowledgement occurs when an electronic document is received that cannot
408 be correctly processed for submission to the application. Such an error could occur for
409 example whenever the XML parser cannot correctly parse the incoming document. Other
410 instances could be the incapacity to correctly identify the issuer of the document in relation
411 to the process requested.

412 In such a case a technical acknowledgement can be sent to the document issuer providing
413 the information that the XML document in question cannot be correctly processed by the
414 system.

415 3.4.3.3 Application acknowledgment

416 Within each business process of the gas market, business rules are to be defined stating
417 whether or not an application acknowledgment is to be sent upon reception of an electronic
418 document.

419 In particular, where the originator is in the role of a Transmission System Operator and the
420 recipient is in a “market participant” type role, all electronic documents sent by entities in
421 the role of a Transmission System Operator shall be considered as received and correct, and
422 the acknowledgement process is not required unless an acknowledgment document is
423 required for a specific purpose.

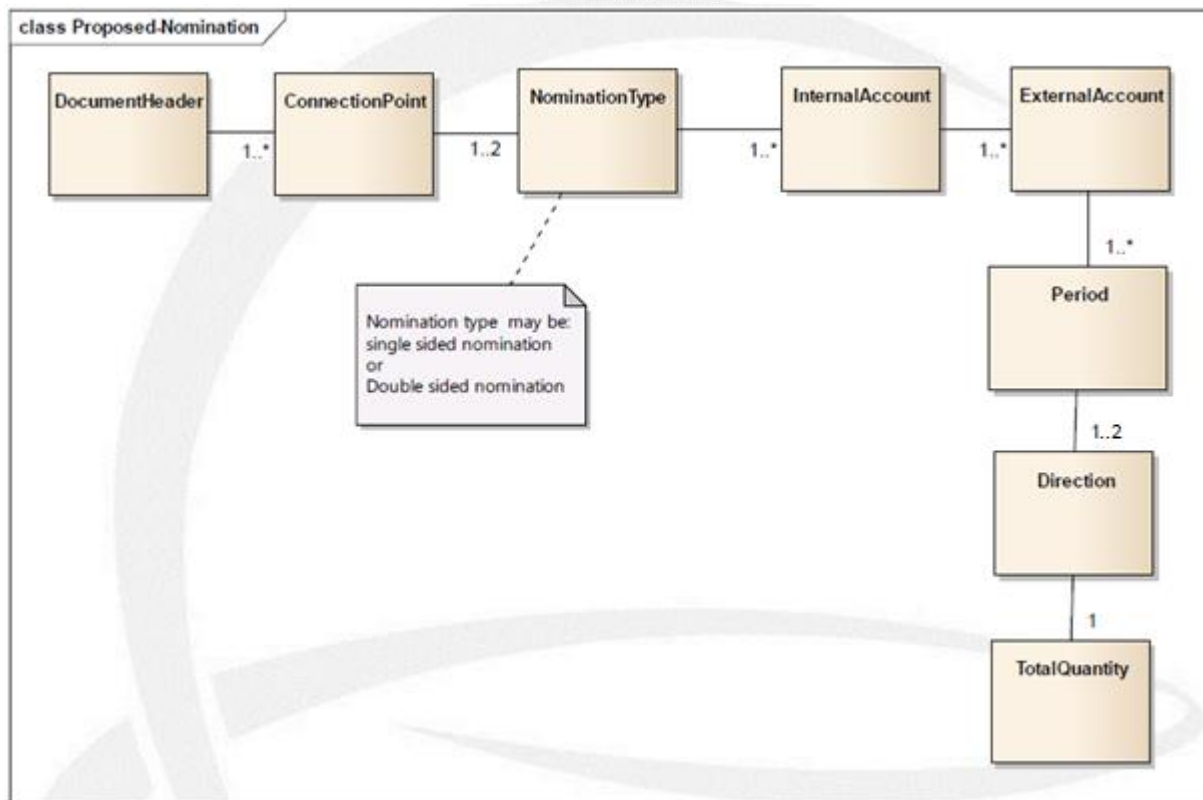
424 Otherwise, upon reception, checks are to be carried out at the application level to assess
425 that the received document can be correctly processed by the application. The issuer is
426 informed that:

- 427 • Its document, that is stated as valid after this verification, is ready to be processed by
428 the reception of an acknowledgement document accepting the complete document
429 in question;
- 430 • Its document is rejected for processing by the reception of an acknowledgement
431 document rejecting the complete document in question with details on the level of
432 errors.

433 **3.5 Information model requirements**

434 The following information requirements have been identified as the essential business
435 information that needs to be catered for in the relevant information exchanges. They are
436 outlined in the paragraphs below.

437 **3.5.1 Nomination information flow**



438

439

Figure 7: Nomination information flow

440 The nomination information flow is broken down into the following classes of information:

- 441 1. The header that provides all the information concerning the identification of the
442 nomination including the gas day.
- 443 2. The Connection Point that identifies the connection point identification. Multiple
444 connection points are permitted per nomination.
- 445 3. The Nomination Type indicating whether the nomination for the connection point is
446 single sided or double sided.
- 447 4. The Internal Account that identifies the account of the submitting Registered
448 Network User that is managed by the Transmission System Operator receiving the
449 nomination (Article 16.3 of BAL NC). There may be multiple internal accounts for a
450 given connection point. An internal account must have the identification of the
451 Transmission System Operator that provides the code.

- 452 5. The External Account that identifies the account of the counterpart Registered
 453 Network User that is managed by the counterpart System Operator (Article 13(4) of
 454 NC BAL). There may be many external accounts for a given internal account. An
 455 external account must have the identification of the Transmission System Operator
 456 that provides the code.
- 457 6. The Period that identifies the time period for which the information provided relates
 458 (Article 13(5) of NC BAL). A time period may only relate to a gas day in the case of
 459 standard nominations (Article 13(6) of NC BAL). The management of any other period
 460 is outside the scope of this specification. A time period may be expressed as a
 461 complete gas day or as a number of parts of the gas day (e.g 24 hours).
- 462 7. The Direction that identifies whether the nomination provided is an input or an
 463 output to the area of the Transmission System Operator.
- 464 8. The Total Quantity being nominated.

465 **Note: for a given connection point the value of the internal account combined with**
 466 **the value of the external account shall only appear once per flow direction. As**
 467 **defined in 3.3.2, the Transmission System Operators at a connection point may**
 468 **decide to allow Registered Network Users to submit nomination requests on both**
 469 **directions of the gas flow or to submit the net nomination requests.**

470 **3.5.2 Interruption information flow**

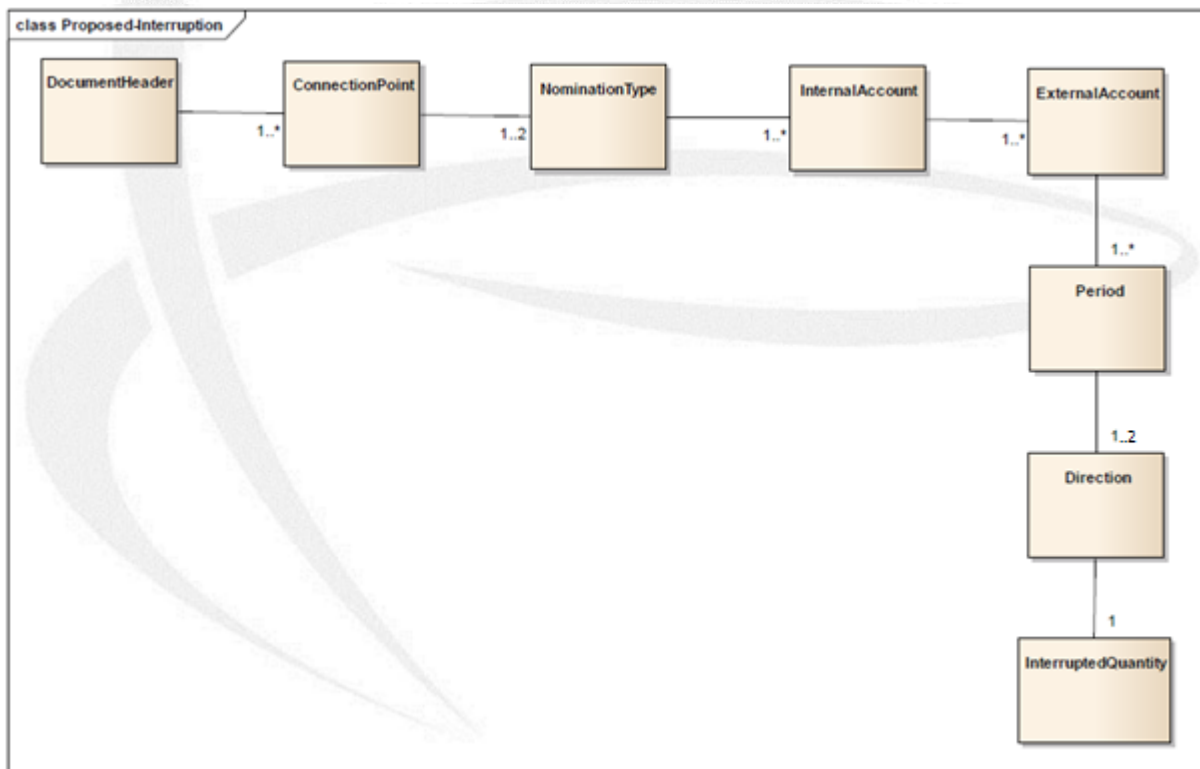


Figure 8: Interruption information flow

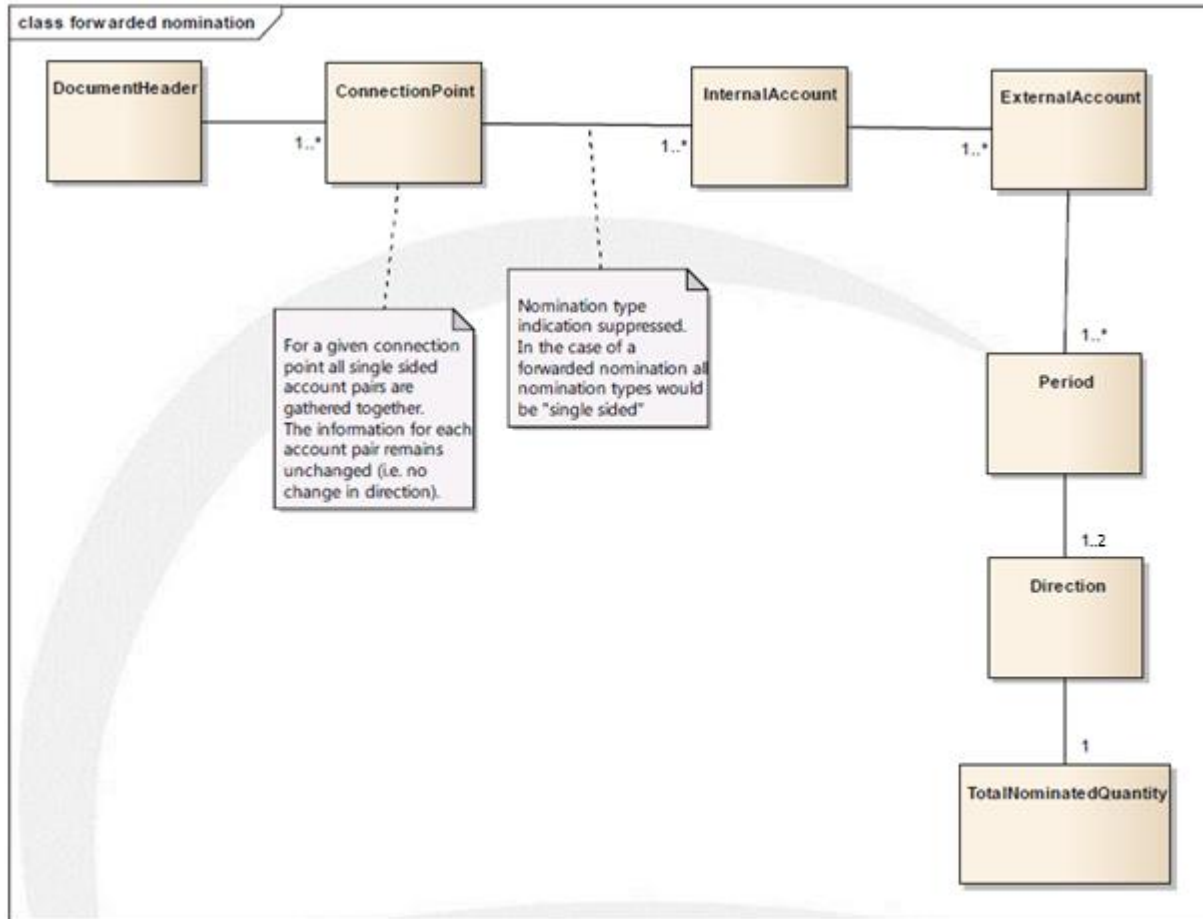
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473 The optional interruption information flow is only provided if an interruption occurs against
474 the Registered Network Users nomination. It is transmitted as soon as possible after the
475 interruption is identified. It is only transmitted once in the nomination cycle. It can occur
476 that it does not represent the final processed value that is submitted to a Matching
477 Transmission System Operator.

478 The interruption information flow is broken down into the following classes of information:

- 479 1. The header that provides all the information concerning the identification of the
480 interruption including the gas day.
- 481 2. The Connection Point that identifies the connection point. Multiple connection points
482 are permitted per interruption.
- 483 3. The Nomination Type indicating whether the interruption for the connection point
484 affects a single sided or double sided nomination.
- 485 4. The Internal Account that identifies the account of the submitting Registered
486 Network User that is managed by the Transmission System Operator that has applied
487 the interruption. There may be multiple internal accounts for a given connection
488 point. An internal account must have the identification of the Transmission System
489 Operator that provides the code.
- 490 5. The External Account that identifies the account of the counterpart Registered
491 Network User that is managed by the counterpart Transmission System Operator.
492 There may be many external accounts for a given internal account. An external
493 account must have the identification of the Transmission System Operator that
494 provides the code.
- 495 6. The Period that identifies the time period that has been specified in the nomination.
- 496 7. The Direction that identifies whether the nomination provided is an input or an
497 output to the area of the Transmission System Operator.
- 498 8. The Quantity which reflects the value expressed in the nomination but reduced in
499 compliance with the interruption.
- 500 9. Interruption type (optional) providing optional information by the Transmission
501 System Operator on the type and the reasoning of an interruption.

502 **3.5.3 Forward nomination flow**



503
504

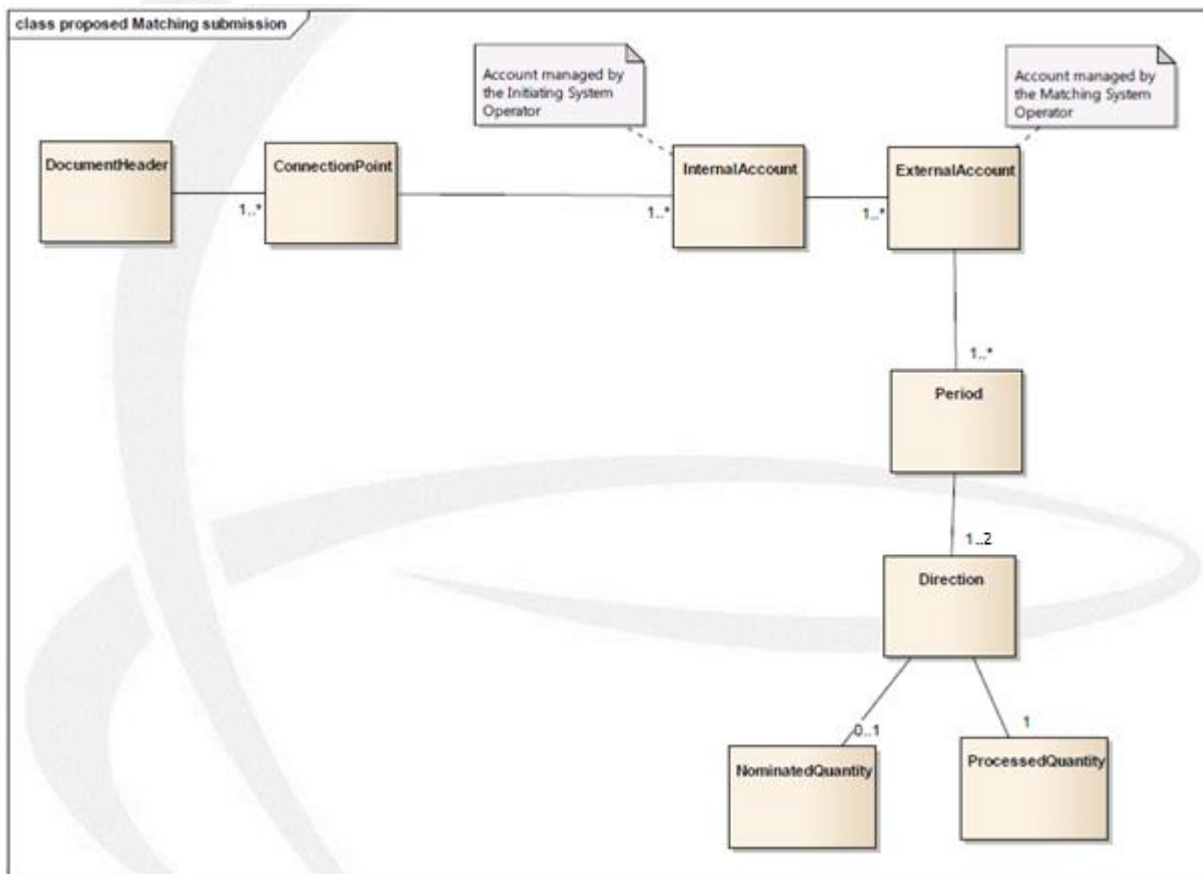
Figure 9: Forward nomination flow

505 In the case of a single sided nomination, it is necessary that this information is forwarded to
 506 the passive Transmission System Operator by the active Transmission System Operator, in
 507 order to enable the information to be processed. The information flow is broken down into
 508 the following classes of information:

- 509
- 510 1. The Header that provides all the information concerning the identification of the
 511 single sided nomination including the gas day.
 - 512 2. The Connection Point that identifies the connection point identification. If agreed by
 513 the involved Transmission System Operators, multiple connection points are
 514 permitted per nomination request.
 - 515 3. The Internal Account that identifies the account of the submitting Registered
 516 Network User that is managed by the forwarding Transmission System Operator.
 517 There may be multiple internal accounts for a given connection point. An internal
 518 account must have the identification of the Transmission System Operator that
 provides the code.

- 519 4. The External Account that identifies the account of the counterpart Registered
520 Network User that is managed by the counterpart System Operator. There may be
521 many external accounts for a given internal account. An external account must have
522 the identification of the Transmission System Operator that provides the code.
- 523 5. The Period that identifies the time period for which the information provided relates.
524 A time period may only relate to a gas day in the case of standard nominations. The
525 management of any other period is outside the scope of this specification. A time
526 period may be expressed as a complete gas day or as a number of parts of the gas
527 day (e.g 24 hours).
- 528 6. The Direction that identifies whether the nomination provided is an input or an
529 output to the area of the Transmission System Operator forwarding the nomination.
- 530 7. The Total nominated Quantity being nominated.

531 **3.5.4 Matching submission information flow**



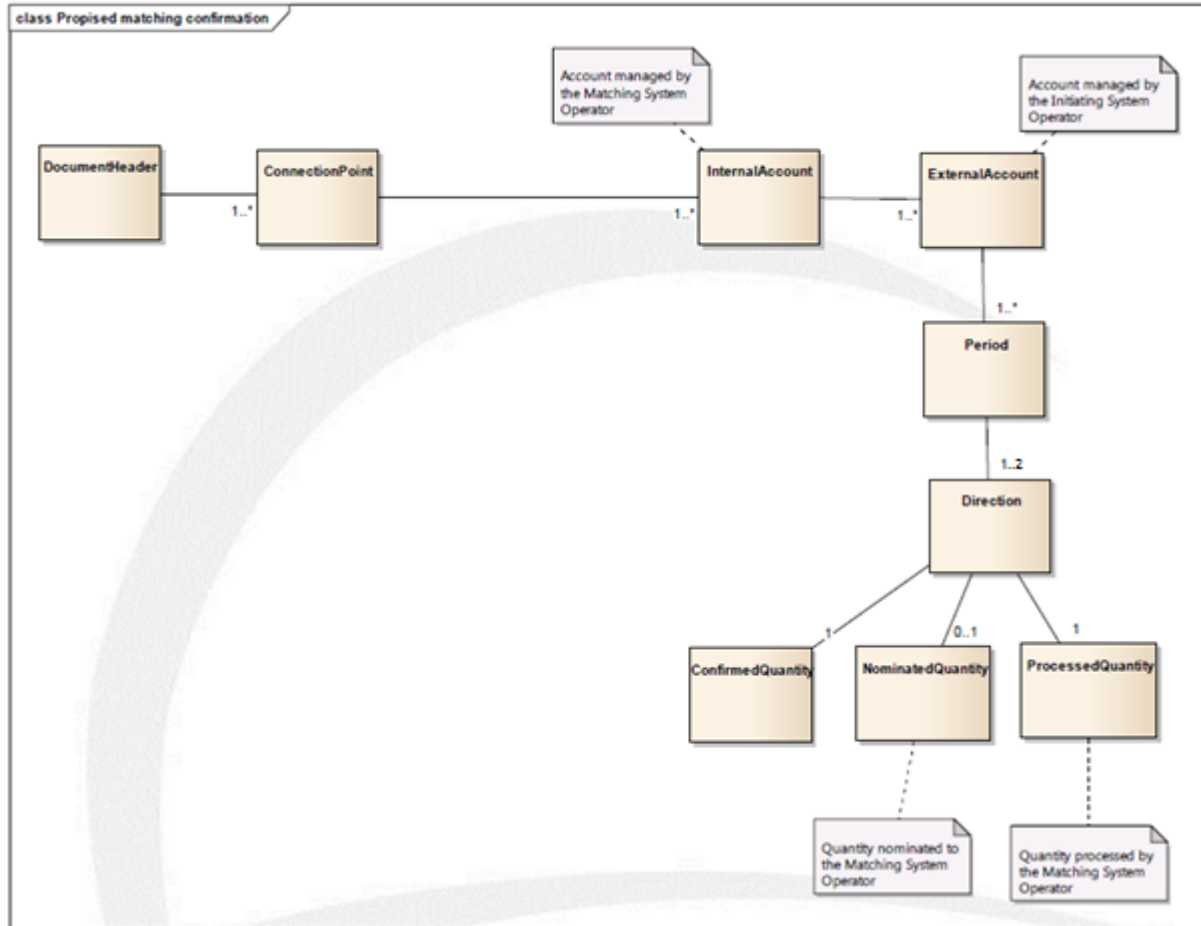
532
533

Figure 10: Matching information flow

534 A matching information flow contains the processed values of nominations received by the
535 Initiating Transmission System Operator. It may contain the quantity nominated by the
536 Registered Network User.

- 537 The matching information flow is broken down into the following classes of information:
- 538 1. The Header that provides all the information concerning the identification of the
539 matching flow including the gas day.
 - 540 2. The Connection Point that identifies the connection point. Multiple connection points
541 are permitted per matching information flow.
 - 542 3. The Internal Account that identifies the account of the submitting Registered
543 Network User that is managed by the Initiating Transmission System Operator. There
544 may be multiple internal accounts for a given connection point. An internal account
545 must have the identification of the Transmission System Operator that provides the
546 code.
 - 547 4. The External Account that identifies the account of the counterpart Registered
548 Network User that is managed by the Matching Transmission System Operator. There
549 may be many external accounts for a given internal account. An external account
550 must have the identification of the Transmission System Operator that provides the
551 code.
 - 552 5. The Period that identifies the time period as identified in the nomination flow.
 - 553 6. The Direction that identifies whether the nomination provided is an input or an
554 output to the area of the Initiating Transmission System Operator.
 - 555 7. The Nominated Quantity represents the quantity nominated by the Registered
556 Network User and may optionally be provided.
 - 557 8. The Processed Quantity which represents the quantity as processed by the Initiating
558 Transmission System Operator.

559 **3.5.5 Matching results information model**



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Figure 11: Nomination confirmation information flow

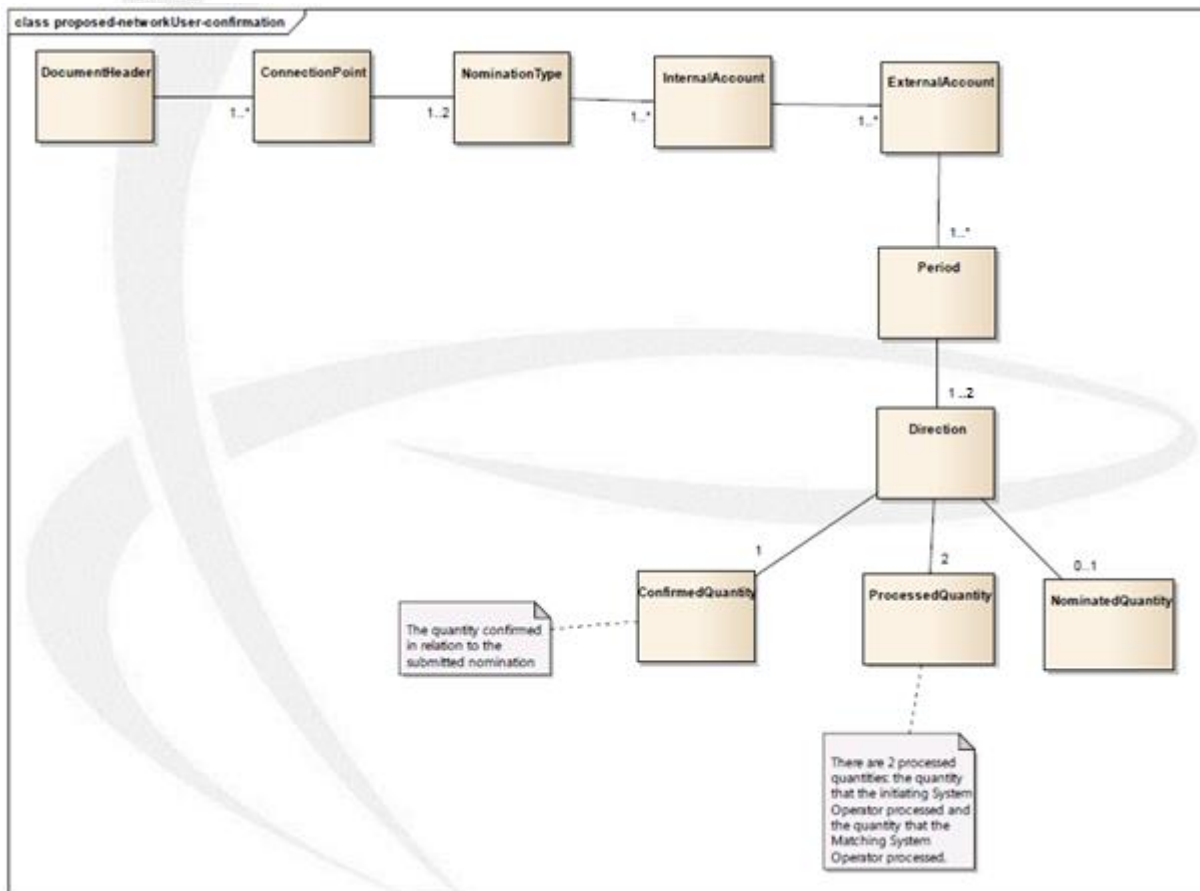
562 When the Matching Transmission System Operator terminates the matching process the
563 matching results are transmitted to the Initiating Transmission System Operator.

564 The matching results information flow is broken down into the following classes of
565 information:

- 566 1. The Header that provides all the information concerning the identification of the
567 matching results flow including the gas day.
- 568 2. The Connection Point that identifies the connection point. Multiple connection points
569 are permitted per matching results information flow.
- 570 3. The Internal Account that identifies the account of the submitting Registered
571 Network User that is managed by the Matching Transmission System Operator. There
572 may be multiple internal accounts for a given connection point. An internal account
573 must have the identification of the Transmission System Operator that provides the
574 code.

- 575 4. The External Account that identifies the account of the counterpart Registered
576 Network User that is managed by the Initiating Transmission System Operator. There
577 may be many external accounts for a given internal account. An external account
578 must have the identification of the Transmission System Operator that provides the
579 code.
- 580 5. The Period that identifies the time period as identified in the nomination flow.
- 581 6. The Direction that identifies whether the nomination provided is an input or an
582 output to the area of the Matching Transmission System Operator.
- 583 7. The Confirmed Quantity for the nomination.
- 584 8. The Nominated Quantity that has been received by the Matching Transmission
585 System Operator may optionally be provided.
- 586 9. The Processed Quantity that has been carried out by the Matching Transmission
587 System Operator.

588 **3.5.6 Registered Network User confirmation information flow**



589
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Figure 12: Registered Network User nomination confirmation information flow

591 This information flow is provided by the Transmission System Operators to the Registered
592 Network Users to confirm the quantities that will be taken into consideration in the
593 Registered Network User nominations.

594 The nomination confirmation information flow is broken down into the following classes of
595 information:

- 596 1. The Header that provides all the information concerning the identification of the
597 nomination confirmation flow and relates it to the nomination including the gas day.
- 598 2. The Connection Point that identifies the connection point. Multiple connection points
599 are permitted per nomination confirmation information flow.
- 600 3. The Nomination Type indicating whether the information concerns a single sided or
601 double sided nomination
- 602 4. The Internal Account that identifies the account of the Registered Network User to
603 whom the confirmation is being sent that is managed by the Transmission System
604 Operator transmitting the nomination confirmation. There may be multiple internal
605 accounts for a given connection point. An internal account must have the
606 identification of the Transmission System Operator that provides the code.
- 607 5. The External Account that identifies the account of the counterpart Registered
608 Network User that is managed by the counterpart Transmission System Operator.
609 There may be many external accounts for a given internal account. An external
610 account must have the identification of the Transmission System Operator that
611 provides the code.
- 612 6. The Period that identifies the time period as identified in the nomination flow.
- 613 7. The Direction that identifies whether the nomination provided is an input to the
614 System Operator area or whether it is an output.
- 615 8. The Confirmed Quantity in relation to the quantity nominated. Each Transmission
616 System Operator shall provide the confirmed nominations to its submitting
617 Registered Network User. The Registered Network User that submitted single sided
618 nominations may also inform the counter party of the results.
- 619 9. The Processed Quantities that have been calculated by both Transmission System
620 Operators.
- 621 10. The Nominated Quantity that had been submitted by the counter party Registered
622 Network User. This information is optionally provided if it has been provided by the
623 relevant Transmission System Operator. If the Registered Network User had
624 submitted a single sided nomination this information is not provided.

625 **3.6 Definitions of the attributes used in all the models**

626 Definitions originating from the NC CAM, NC BAL and NC INT will be reviewed as soon as the
627 document has been finalized.

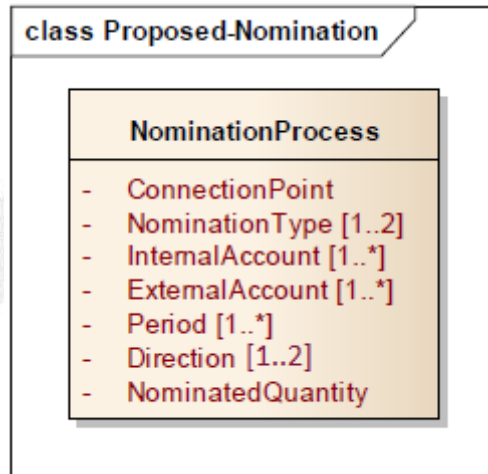
Name	Description
Nomination request	refers to a set of nominations submitted by a Registered Network User.
Interconnection point (also termed Connection Point)	means a physical or virtual point connecting adjacent entry-exit systems or connecting an entry-exit system with an interconnector, in so far as these points are subject to booking procedures by network users (origin: NC CAM)
Period	Start time and end time of the gas flow for which the nomination or re-nomination is submitted. (A period concerns one gas day according to Article 13(5) of NC BAL).
Transmission System Operator	Also termed "TSO" and is defined in Article 2(4) of the Directive or the entity responsible for keeping the transmission network in balance in accordance with and to the extent defined under the applicable National Rules.
Processed quantity	Means the quantity of gas that the TSO is scheduling for flow, which takes into account the Network User's nomination (respectively re-nomination), contractual conditions and the capacity as defined under the relevant transport contract
Network User's Counterparty	means the Network User who delivers gas to or receives gas from a Network User at an Interconnection Point.
Gas Day	means the period from 5:00 to 5:00 UTC or, when daylight saving time is applied, from 4:00 to 4:00 UTC (origin: NC CAM).
Internal Account	Network user identification or, if applicable, its balancing portfolio

	identification(Article 13(3) of NC BAL).
External Account	Network user's counterparty identification or, if applicable, its balancing portfolio identification; (Article 13(4) of NC BAL).
Direction	<p>The indication of whether a gas flow is an input or an output in respect to the Transmission System Operator area where the information is being submitted.</p> <p>In all messages exchanged between Transmission System Operators, each Transmission System Operator declares Input and Output in relation to their system (for instance: Input quantities sent from TSO1 to TSO2 will become Output quantities in the corresponding ICT system of TSO 2 and vice versa).</p>
Nomination Type	An indication whether a nomination is single sided or double sided.
Single sided nomination	<p>A nomination that is submitted by a Registered Network user on behalf of both involved parties to only one Transmission System Operator.</p> <p>A single sided nomination can be received by one or the other Transmission System Operators as bilaterally agreed by them. The receiver of the single-sided nomination is referred to as 'active' Transmission System Operator while the adjacent party is referred to as 'passive' Transmission System Operator. Whether a Transmission System Operator is active or passive in the process of handling single-sided nominations is independent from the initiating or matching role being played. If the Transmission System Operators agree then network users can decide themselves which Transmission System Operator will receive a single-sided nomination</p>

Double sided nomination	A nomination that is submitted by both Registered Network Users to their respective Transmission System Operators.
Initiating Transmission System Operator	means the transmission system operator initiating the matching process by sending necessary data to the Matching Transmission System Operator.
Matching Transmission System Operator	means the Transmission System Operator performing the matching process and sending the result to the Initiating Transmission System Operator.
Nominated quantity	means a quantity of gas nominated by a network user for exchange on an interconnection point with a network user for a gas day D.
Confirmed quantity	means the quantity of gas confirmed by a TSO to be scheduled or rescheduled to flow on Gas Day D. At an Interconnection Point, the Confirmed Quantity(-ies) will take into account Processed Quantity(-ies) and the matching process used for comparing and aligning the requested gas quantity to be transported by Network Users at both sides of an Interconnection Point.

629 **3.7 Requirements per process**

630 **3.7.1 Nomination process**



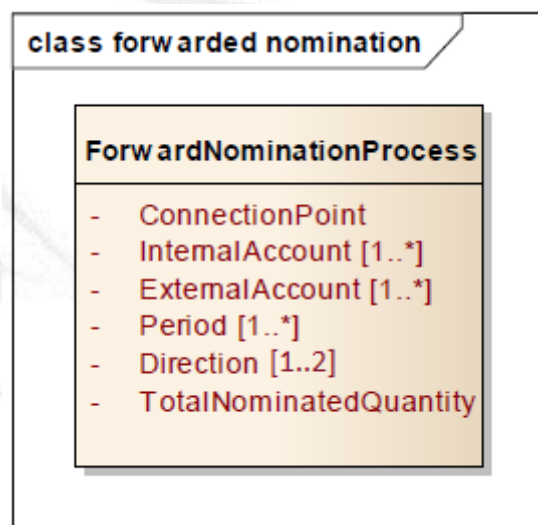
631
632

Figure 13: Nomination process information requirements

633 Note 1: wherever the indication [0..*] appears against an attribute this signifies that the
634 attribute in question is optional. For example, the attribute "InternalAccount [0..*]" is not
635 used in the case of ultimate users. The indication [1..*] means that at least one occurrence
636 of the information must be present.

637 Note 2: The information outlined in the class diagram does not represent any structural
638 constraints. It only represents the information requirements for a given information flow.

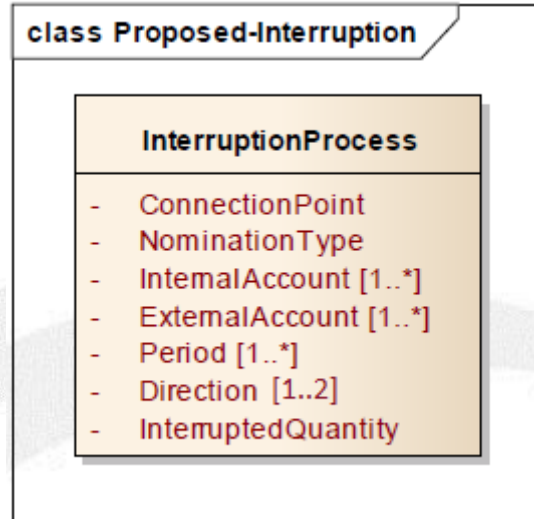
639 **3.7.2 Forward nomination process**



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Figure 14: Forwarded nomination information requirements

642 **3.7.3 Interruption process**

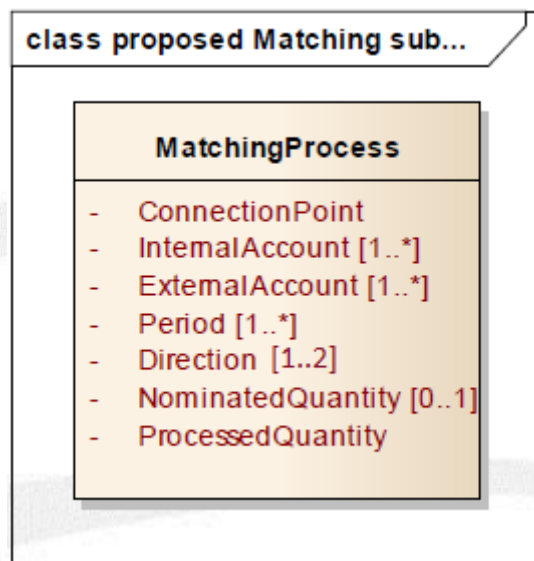


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Figure 15: Interruption process information requirements

645 **3.7.4 Matching process**

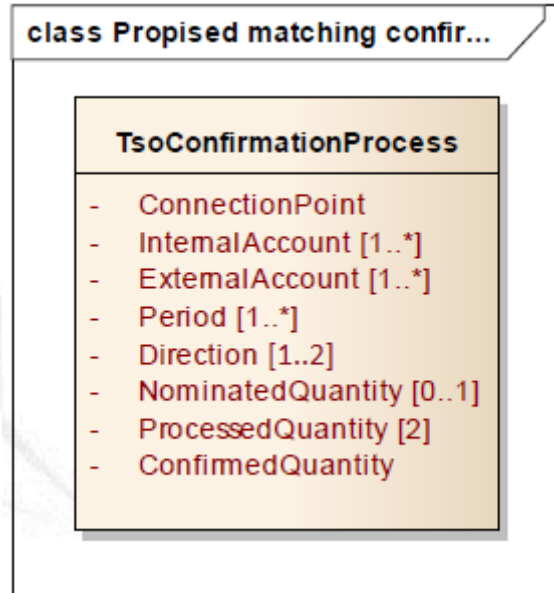


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Figure 16: Matching process information requirements

648 **3.7.5 Matching Transmission System Operator confirmation process**

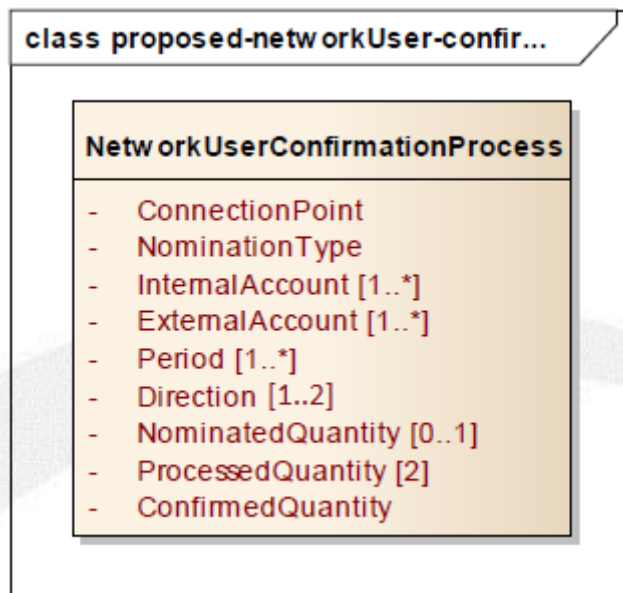


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Figure 17: TSO confirmation process information requirements

651 **3.7.6 Registered Network User confirmation process**



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Figure 18: Registered Network User confirmation information requirements

654

655 **4 Reference documents**

Document	Status	Date of last status change	Link
Commission Regulation (EU) No 984/2013 establishing a Network Code on Capacity Allocation Mechanisms in Gas Transmission Systems	In force	14 October 2013	Link
Commission regulation (EU) 312/2014 establishing a Network Code on Gas Balancing of Transmission Networks	In force	26 March 2014	Link
Network Code on Interoperability and Data Exchange	Publication in official Journal pending		Link

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