

1
2
3
4

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

5
6
7
8

Version 0 Revision 14 – 2015-05-27

9 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 in point 3.3.3.3 Addition of optional time stamp to the forward nomination flow in point 3.5.3 Minor clarifications: <ul style="list-style-type: none"> ➤ Clarification on legal scope in lines 116-118 ➤ Clarification on content of nomination in lines 210-212 ➤ Clarification on submission of interruption notice in lines 480-482 	27 May 2015	ENTSOG

10

11	Table of contents		
12	1	Objective	6
13	2	Scope	6
14	3	Business requirements.....	8
15	3.1	Nomination requirements.....	8
16	3.2	List of actors	9
17	3.2.1	<i>Registered Network User</i>	9
18	3.2.2	<i>Transmission System Operator</i>	9
19	3.3	Use case detail.....	10
20	3.3.1	<i>Provide market specific information</i>	10
21	3.3.2	<i>Submit nominations</i>	10
22	3.3.3	<i>Process nomination requests received</i>	11
23	3.3.3.1	<i>Process single sided nominations</i>	11
24	3.3.3.2	<i>Process nominations</i>	11
25	3.3.3.3	<i>Authorisation process for single sided nominations</i>	12
26	3.3.4	<i>Match nominations</i>	13
27	3.3.5	<i>Confirm nominations</i>	13
28	3.4	Information flow definition.....	13
29	3.4.1	<i>Nomination Sequence flow</i>	13
30	3.4.2	<i>Nomination Workflow</i>	15
31	3.4.2.1	<i>Pre-nomination process workflow</i>	15
32	3.4.2.2	<i>Nomination process workflow</i>	16
33	3.4.3	<i>General Acknowledgement process</i>	19
34	3.4.3.1	<i>Business process definition</i>	19
35	3.4.3.2	<i>Technical acknowledgment</i>	20
36	3.4.3.3	<i>Application acknowledgment</i>	20
37	3.5	Information model requirements	22
38	3.5.1	<i>Nomination information flow</i>	22
39	3.5.2	<i>Interruption information flow</i>	23
40	3.5.3	<i>Forward nomination flow</i>	25
41	3.5.4	<i>Matching submission information flow</i>	26

42	3.5.5	<i>Matching results information model</i>	28
43	3.5.6	<i>Registered Network User confirmation information flow</i>	29
44	3.6	Definitions of the attributes used in all the models	31
45	3.7	Requirements per process	34
46	3.7.1	<i>Nomination process</i>	34
47	3.7.2	<i>Forward nomination process</i>	34
48	3.7.3	<i>Interruption process</i>	35
49	3.7.4	<i>Matching process</i>	35
50	3.7.5	<i>Matching Transmission System Operator confirmation process</i>	36
51	3.7.6	<i>Registered Network User confirmation process</i>	36
52	4	Reference documents	37
53			

54	Table of figures	
55	Figure 1: overview of the Nomination process use case	8
56	Figure 2: Information flow sequence	14
57	Figure 3: Pre-nomination workflow	15
58	Figure 4: Nomination workflow	16
59	Figure 5: Nomination process workflow	18
60	Figure 6: Acknowledgement process	20
61	Figure 7: Nomination information flow	22
62	Figure 8: Interruption information flow	23
63	Figure 9: Forward nomination flow.....	25
64	Figure 10: Matching information flow	27
65	Figure 11: Nomination confirmation information flow	28
66	Figure 12: Registered Network User nomination confirmation information flow	29
67	Figure 13: Nomination process information requirements	34
68	Figure 14: Forwarded nomination information requirements	34
69	Figure 15: Interruption process information requirements	35
70	Figure 16: Matching process information requirements	35
71	Figure 17: TSO confirmation process information requirements	36
72	Figure 18: Registered Network User confirmation information requirements	36
73		

74 **1 Objective**

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

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

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

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

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

96 **2 Scope**

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

102 This Business Requirements Specification (BRS) covers the requirements for the harmonised
103 implementation of nomination and matching process exchanges.

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

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

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

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

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

116 For the avoidance of doubt, this document provides no formal obligations on TSOs and relevant
117 NRAs with regards to how they are going to implement Art.19(7) of Commission Regulation (EU)
118 No 984/2013 in their national systems.

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

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

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

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

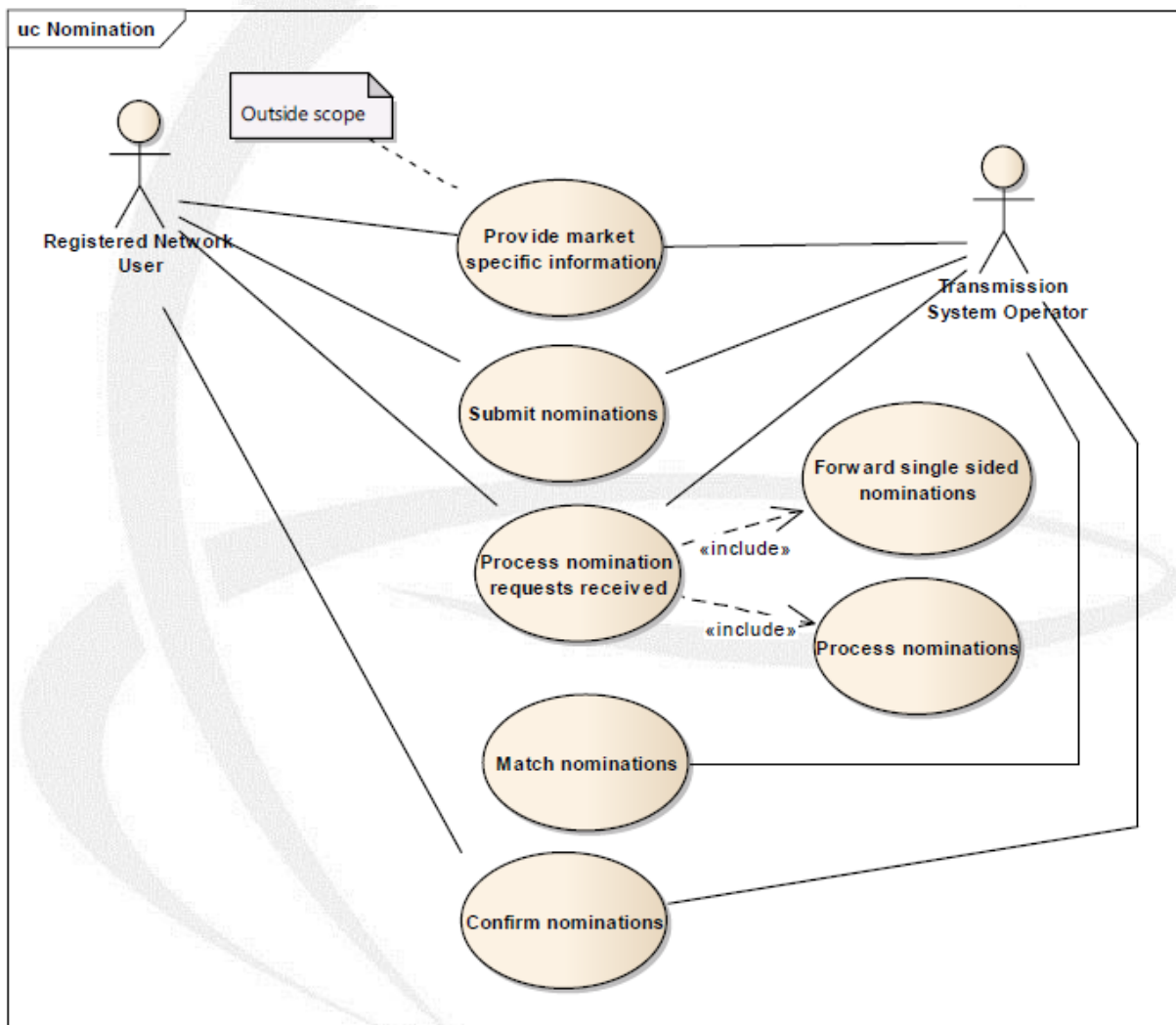
135 **3 Business requirements**

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

138 **3.1 Nomination requirements**

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

142



143

144

Figure 1: overview of the Nomination process use case

145 **3.2 List of actors**

146 **3.2.1 Registered Network User**

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

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

152 **3.2.2 Transmission System Operator**

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

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

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

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

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

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

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

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

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

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

181 **3.3 Use case detail**

182 **3.3.1 Provide market specific information**

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

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

189 **3.3.2 Submit nominations**

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

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

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

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

209 A nomination request made by a Registered Network User to the active Transmission System
210 Operator may contain a mix of both single sided and double sided nominations. Each
211 individual nomination within a nomination request refers to a specific account pair, a specific
212 connection point and a flow direction.

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

219 **3.3.3 Process nomination requests received**

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

223 The Transmission System Operator always acknowledges receipt of the nominations from
224 the Registered Network User and the forwarded nominations from the Transmission System
225 Operator that received a single sided nomination. The acknowledgement may be either
226 positive or negative.

227 **3.3.3.1 Process single sided nominations**

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

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

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

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

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

252 **3.3.3.2 Process nominations**

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

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

257 allowed for the Registered Network User, taking into account the time required for the
258 forwarding in case of single sided nominations.

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

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

265 **3.3.3.3 Authorisation process for single sided nominations**

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

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

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

283 The above-described authorisation process is not obligatory for cases in which a single sided
284 nomination is submitted on behalf of one legal entity active in both networks, if the involved
285 Transmission System Operators conclude a bilateral agreement allowing them to check the
286 identities of nominating Registered Network Users. In such a case, the involved transmission
287 system operator can decide not to require an authorisation from the network user in order
288 to process single sided nominations. If in such a case the Registered Network User that
289 submitted a single sided nomination to the active Transmission System Operator is also
290 submitting a corresponding counter nomination to the passive Transmission System
291 Operator, the nominations shall be processed as double sided nominations, unless specified
292 otherwise by the Transmission System Operators.

293 If a passive Registered Network User submits a nomination to the passive Transmission
294 System Operator affecting an account or portfolio code of the active Registered Network

295 User for a period for which a valid authorisation between the two Registered Network Users
296 is in place, the nomination shall be processed as double sided and the respective
297 authorisation shall be deactivated for the respective gas day, unless specified otherwise by
298 the Transmission System Operators.

299 3.3.4 Match nominations

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

302 Once the matching has been finalised the confirmed nominations and the processed quantities
303 established by the Matching Transmission System Operator are transmitted to the Initiating
304 Transmission System Operator. If agreed between Transmission System Operators the double
305 sided original nominations received by the Matching Transmission System Operator may also be
306 transmitted.

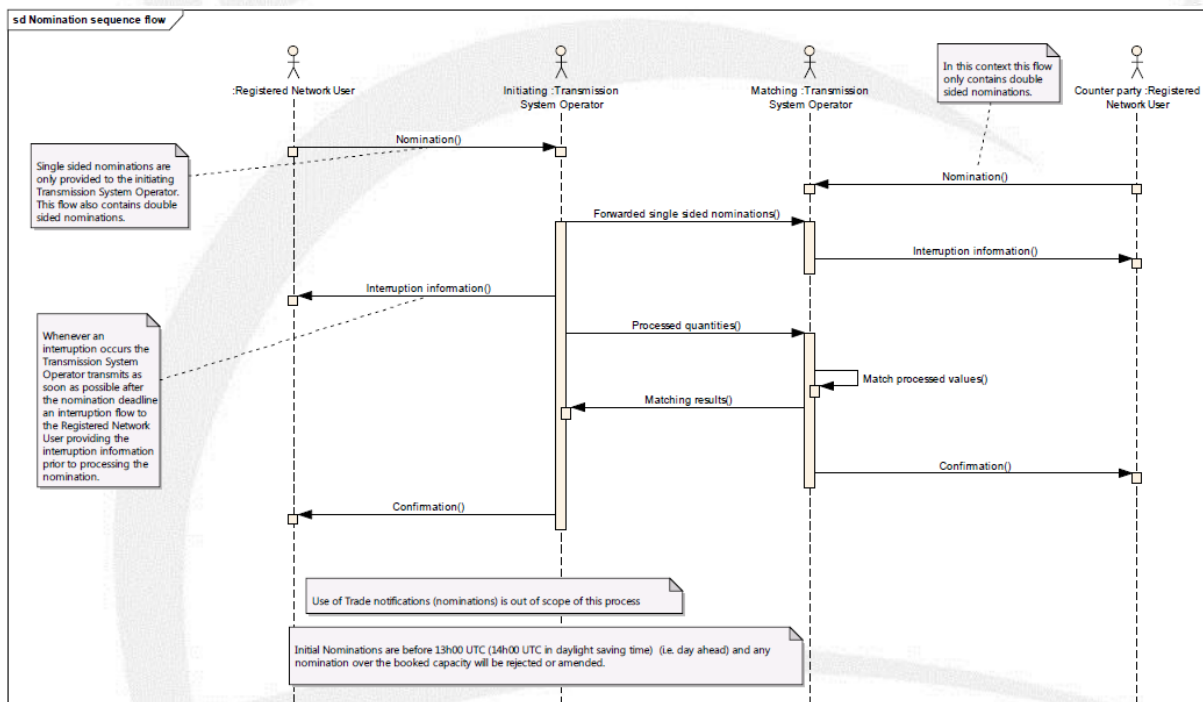
307 3.3.5 Confirm nominations

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

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

313 3.4 Where the registered Network User submits single sided, he may also inform the 314 counterparty of the results. Information flow definition

315 3.4.1 Nomination Sequence flow



316

317

Figure 2: Information flow sequence

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

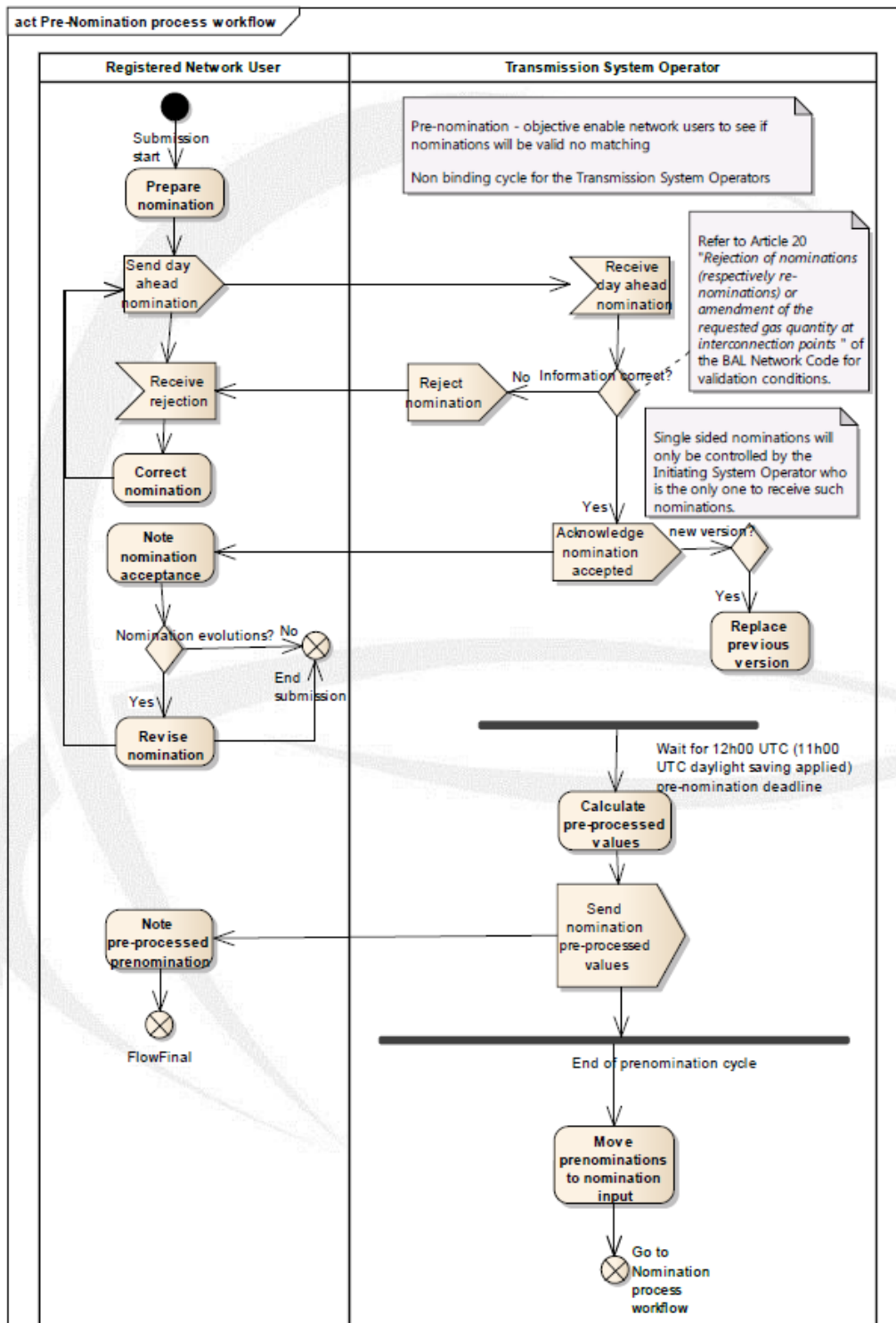
321 The five mandatory flows are:

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

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

354 **3.4.2 Nomination Workflow**

355 **3.4.2.1 Pre-nomination process workflow**



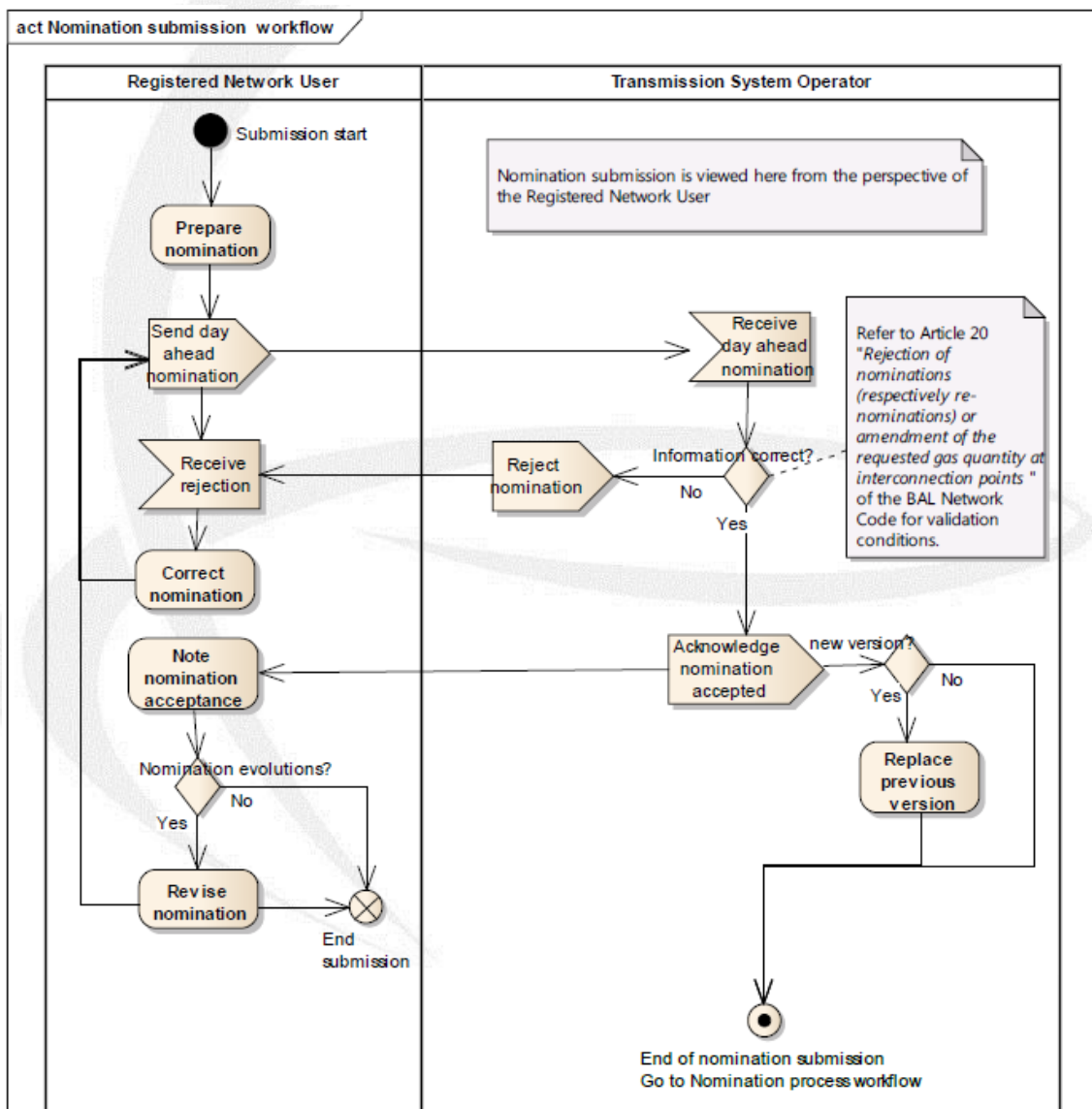
356
357

Figure 3: Pre-nomination workflow

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

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

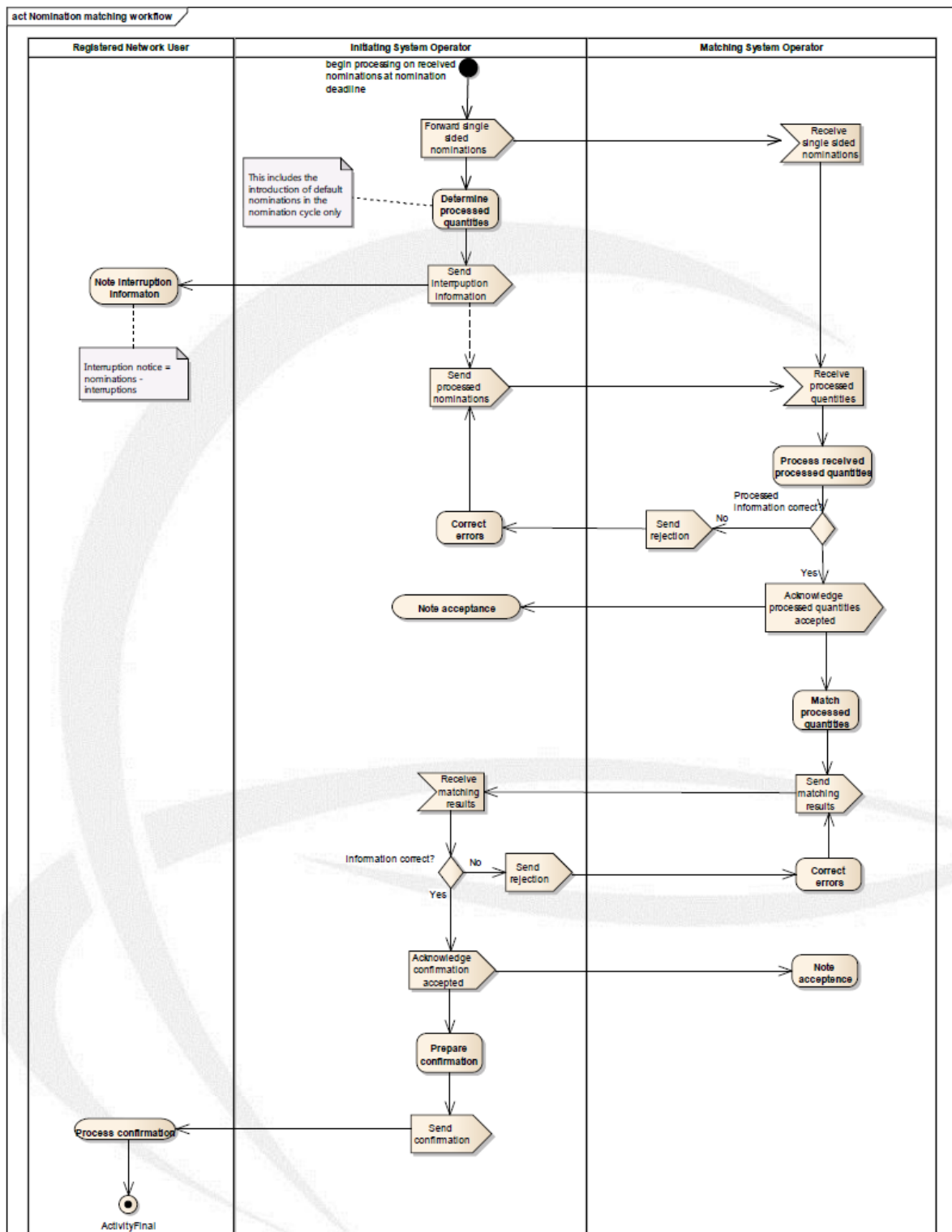
366 **3.4.2.2 Nomination process workflow**



367
368

Figure 4: Nomination workflow

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



376
377

Figure 5: Nomination process workflow

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

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

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

385 Once all nominations have been processed, the Initiating Transmission System Operator
386 transmits the processed results and optionally the nominations to the Matching
387 Transmission System Operator.

388 All the processed quantities received from the Initiating Transmission System Operator are
389 matched with all the processed quantities established by the Matching Transmission System
390 Operator.

391 Any differences in the matching process have a basic rule applied (in general the lesser
392 values rule). The final confirmed quantities are then transmitted by the Matching
393 Transmission System Operator to the Initiating Transmission System Operator. This includes
394 the quantities processed by the Matching Transmission System Operator and optionally all
395 the nominations received.

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

398 **3.4.3 General Acknowledgement process**

399 **3.4.3.1 Business process definition**

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

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

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

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

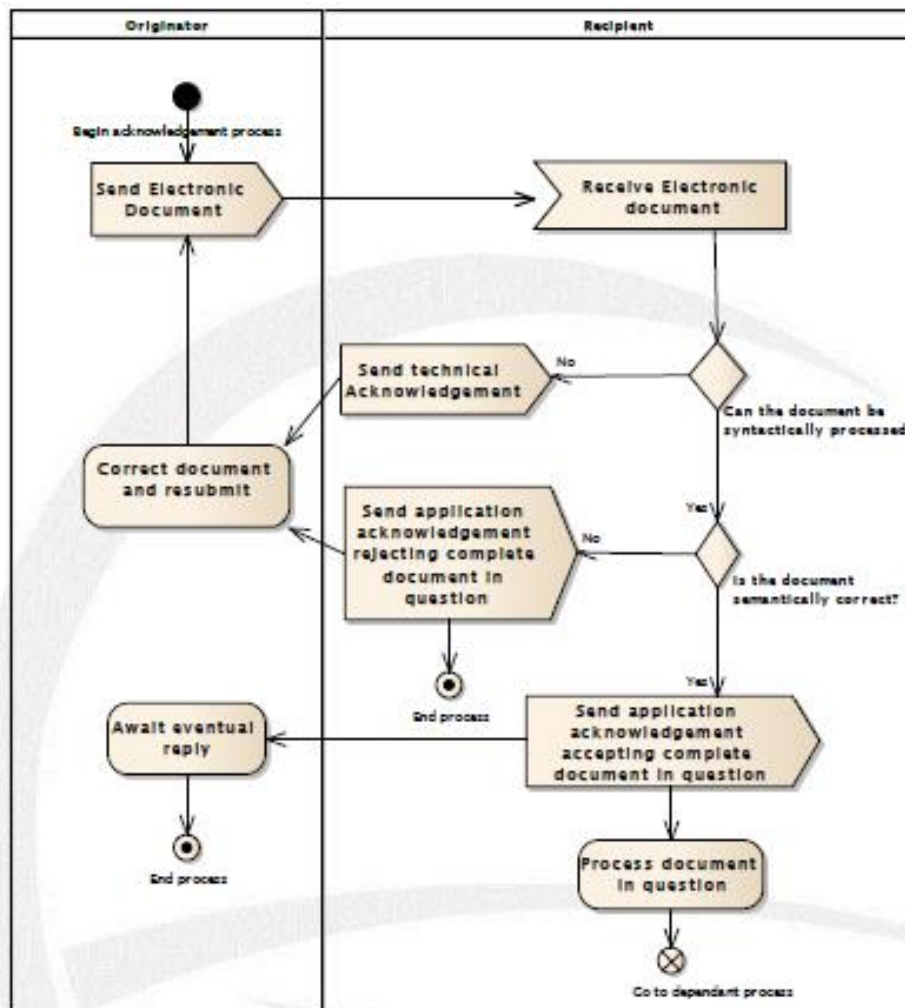


Figure 6: Acknowledgement process

409
410

411 3.4.3.2 Technical acknowledgment

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

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

420 3.4.3.3 Application acknowledgment

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

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

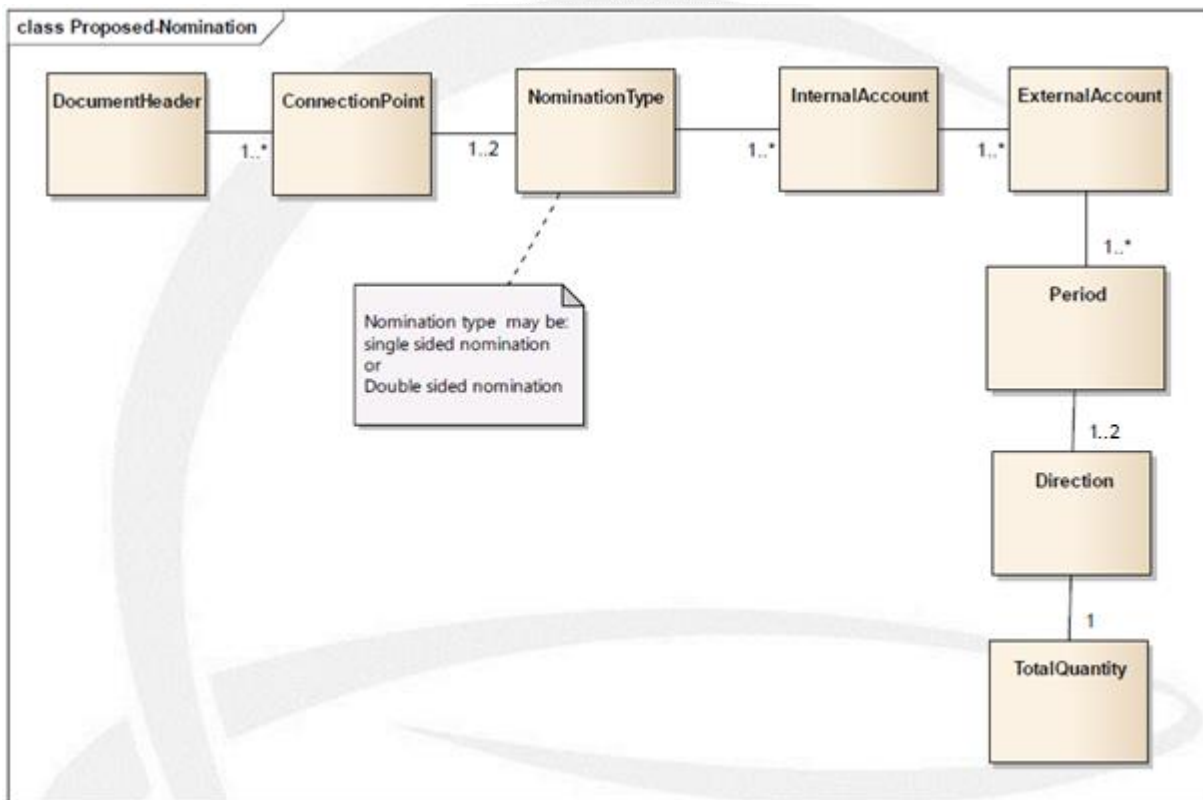
429 Otherwise, upon reception, checks are to be carried out at the application level to assess
430 that the received document can be correctly processed by the application. The issuer is
431 informed that:

- 432 • Its document, that is stated as valid after this verification, is ready to be processed by
433 the reception of an acknowledgement document accepting the complete document
434 in question;
- 435 • Its document is rejected for processing by the reception of an acknowledgement
436 document rejecting the complete document in question with details on the level of
437 errors.

438 **3.5 Information model requirements**

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

442 **3.5.1 Nomination information flow**



443
444 **Figure 7: Nomination information flow**

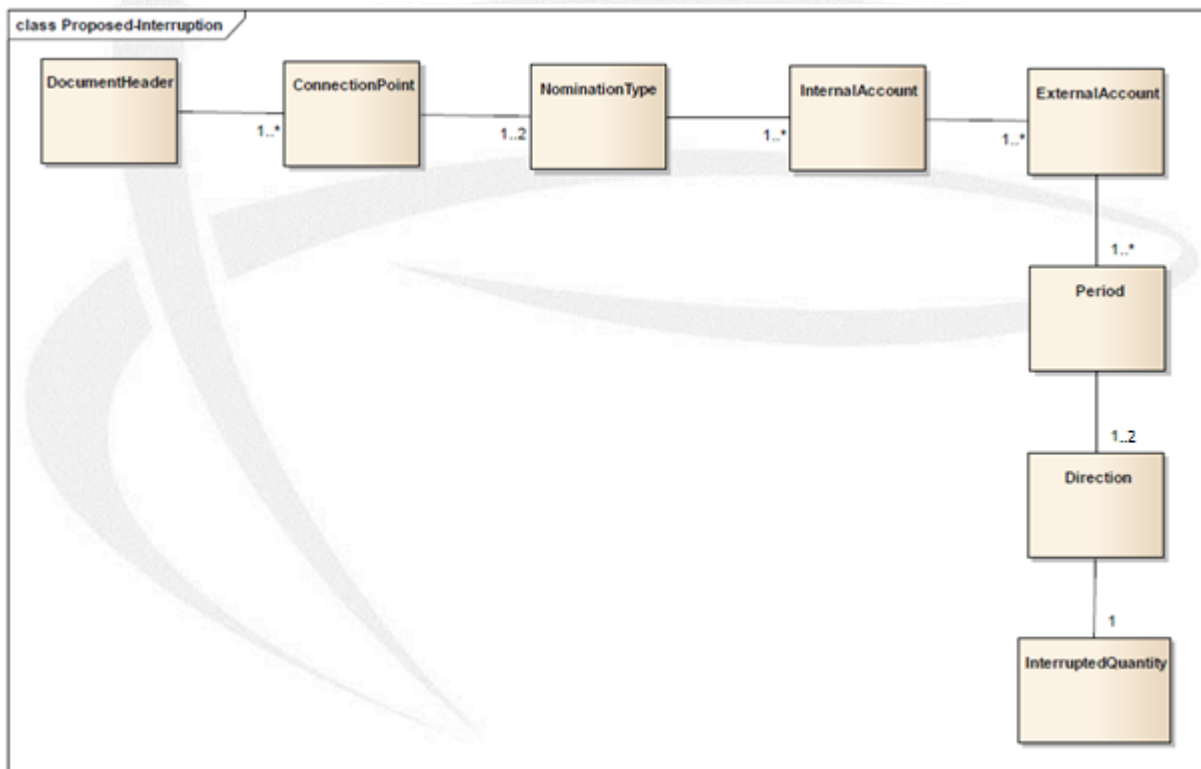
445 The nomination information flow is broken down into the following classes of information:

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

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

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

475 **3.5.2 Interruption information flow**



476
477

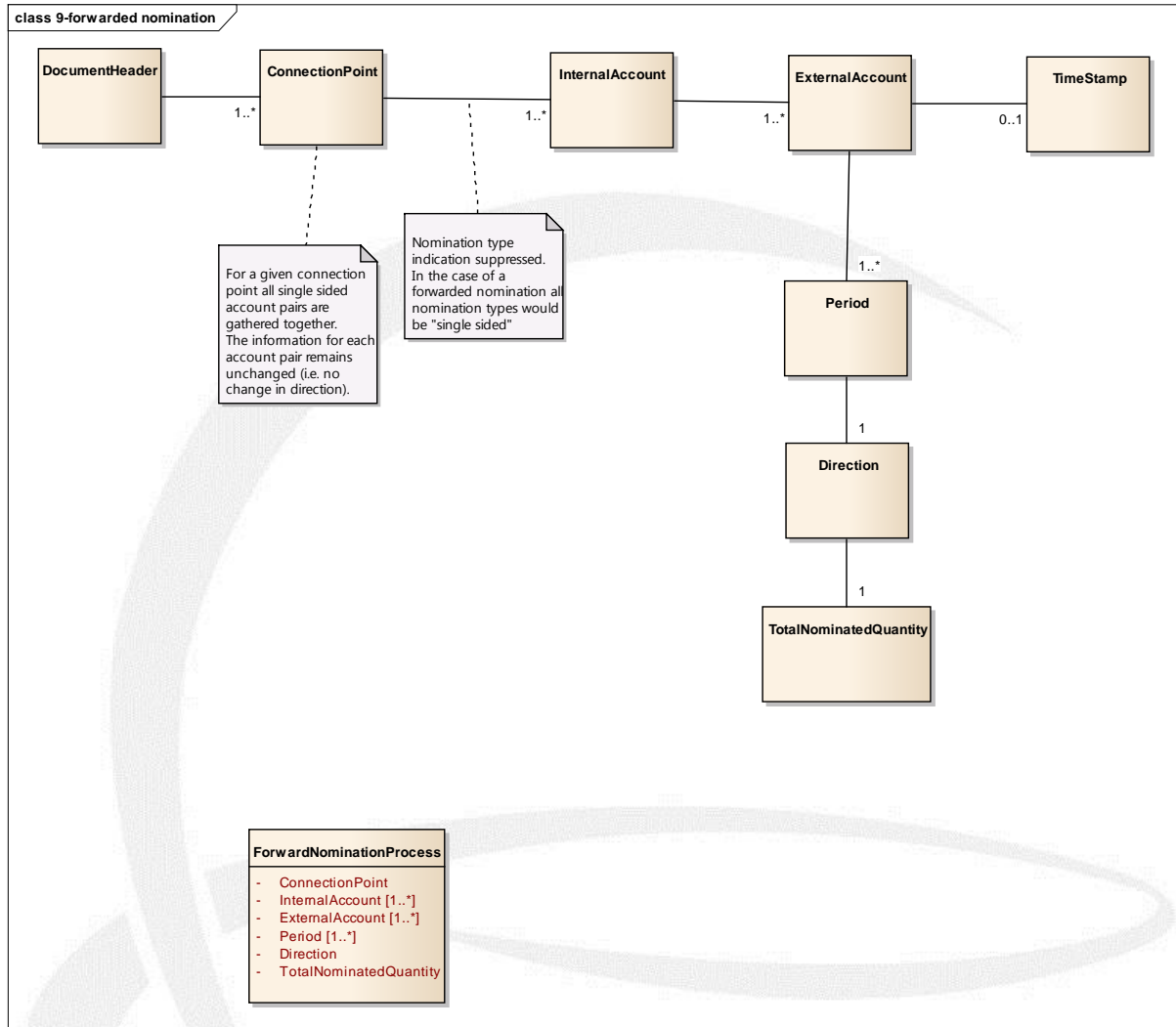
Figure 8: Interruption information flow

478 The optional interruption information flow is only provided if an interruption occurs against
479 the Registered Network Users nomination. It is transmitted as soon as possible after the
480 interruption is identified by the interrupting transmission system operator to its respective
481 registered network user, irrespective of whether a single sided or double sided nomination
482 was initially submitted. It is only transmitted once in the nomination cycle. It can occur that
483 it does not represent the final processed value that is submitted to a Matching Transmission
484 System Operator.

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

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

509 **3.5.3 Forward nomination flow**



510
511

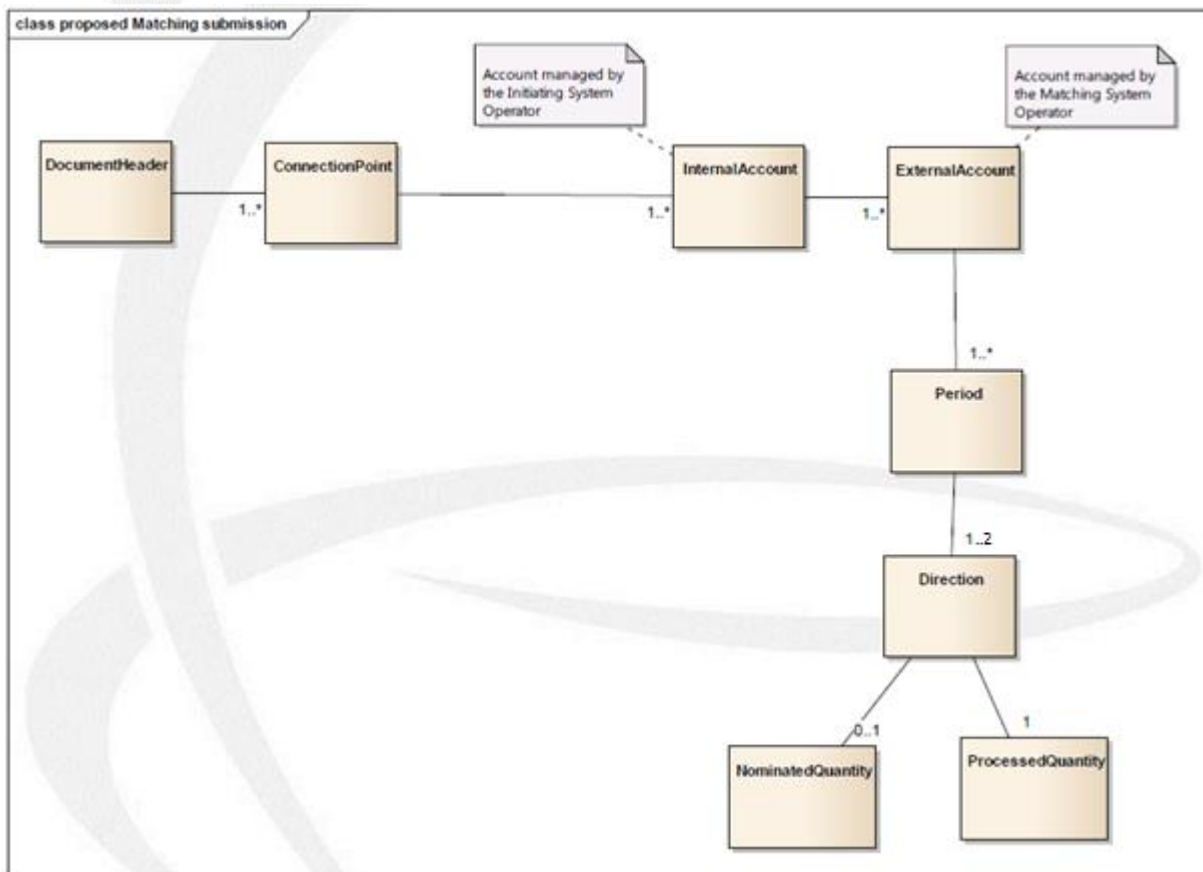
Figure 9: Forward nomination flow

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

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

- 524 account must have the identification of the Transmission System Operator that
525 provides the code.
- 526 4. The External Account that identifies the account of the counterpart Registered
527 Network User that is managed by the counterpart System Operator. There may be
528 many external accounts for a given internal account. An external account must have
529 the identification of the Transmission System Operator that provides the code.
- 530 5. If applicable, the time stamp that identifies the point of time at which the initial
531 single sided nomination was received by the active transmission system operator.
- 532 6. The Period that identifies the time period for which the information provided relates.
533 A time period may only relate to a gas day in the case of standard nominations. The
534 management of any other period is outside the scope of this specification. A time
535 period may be expressed as a complete gas day or as a number of parts of the gas
536 day (e.g 24 hours).
- 537 7. The Direction that identifies whether the nomination provided is an input or an
538 output to the area of the Transmission System Operator forwarding the nomination.
- 539 8. The Total nominated Quantity being nominated.

540 **3.5.4 Matching submission information flow**



541

542

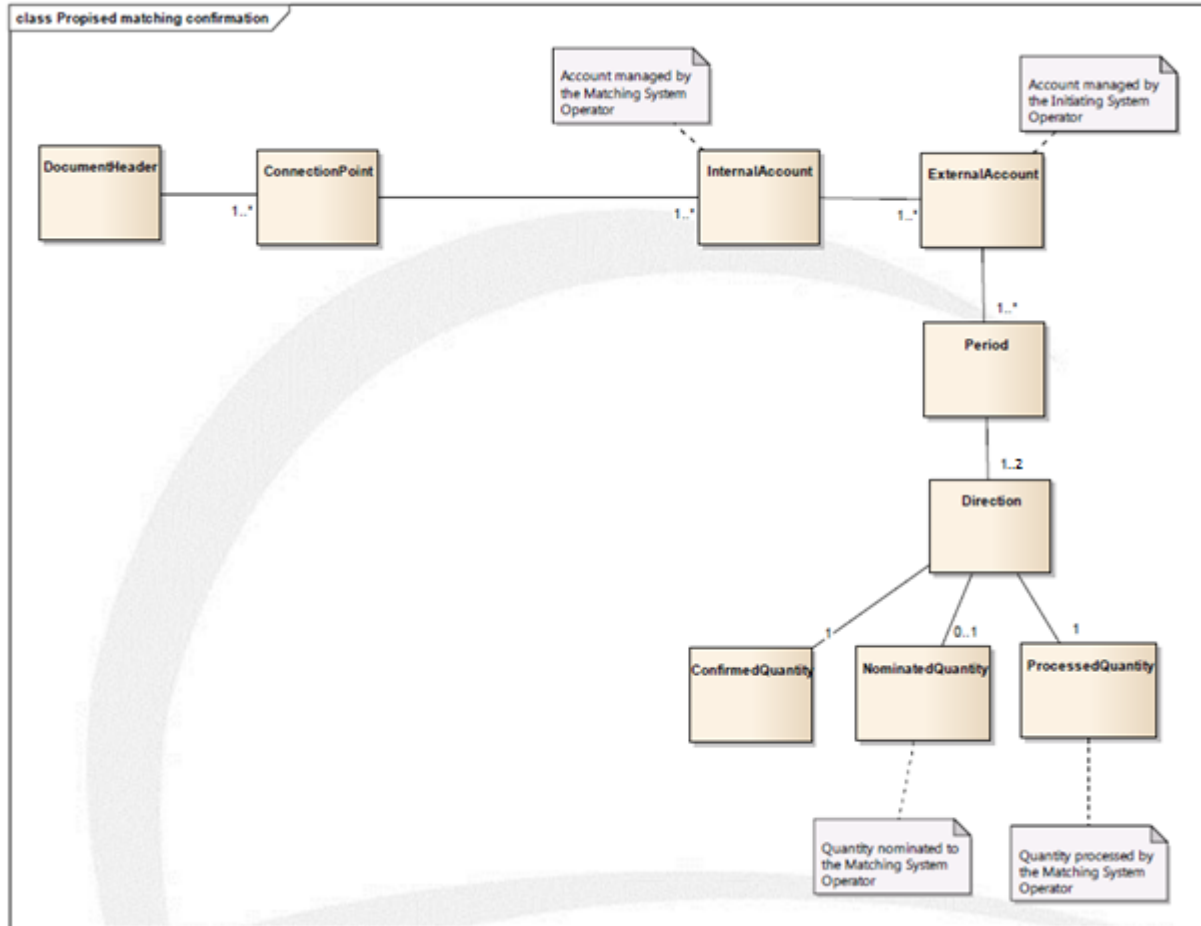
Figure 10: Matching information flow

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

546 The matching information flow is broken down into the following classes of information:

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

568 **3.5.5 Matching results information model**



569
570

Figure 11: Nomination confirmation information flow

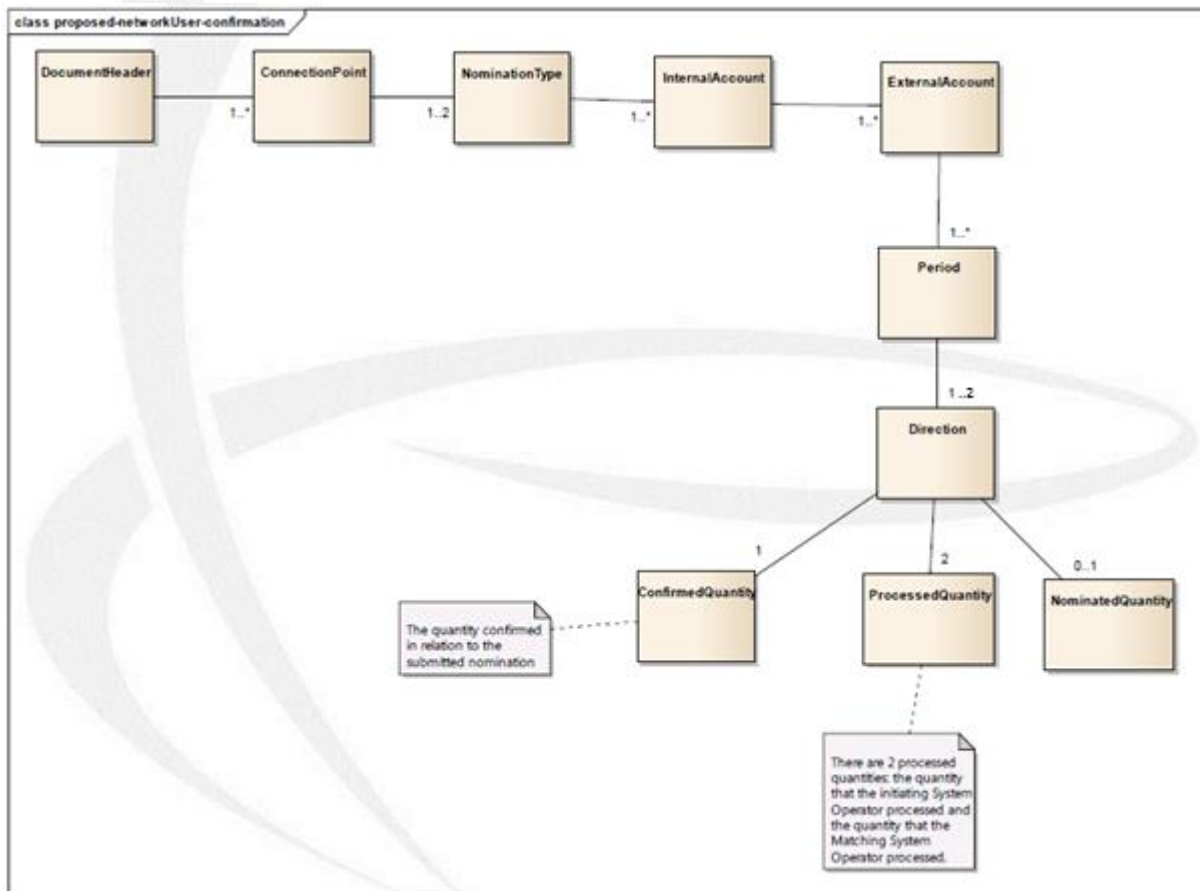
571 When the Matching Transmission System Operator terminates the matching process the
572 matching results are transmitted to the Initiating Transmission System Operator.

573 The matching results information flow is broken down into the following classes of
574 information:

- 575 1. The Header that provides all the information concerning the identification of the
576 matching results flow including the gas day.
- 577 2. The Connection Point that identifies the connection point. Multiple connection points
578 are permitted per matching results information flow.
- 579 3. The Internal Account that identifies the account of the submitting Registered
580 Network User that is managed by the Matching Transmission System Operator. There
581 may be multiple internal accounts for a given connection point. An internal account
582 must have the identification of the Transmission System Operator that provides the
583 code.

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

597 **3.5.6 Registered Network User confirmation information flow**



598
599

Figure 12: Registered Network User nomination confirmation information flow

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

603 The nomination confirmation information flow is broken down into the following classes of
604 information:

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

634 **3.6 Definitions of the attributes used in all the models**

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

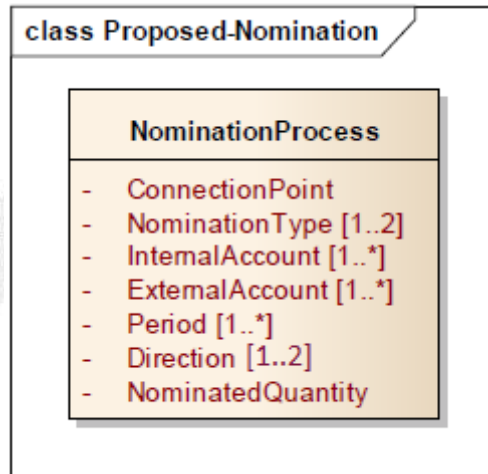
Name	Description
Nomination request	refers to a set of nominations submitted by a Registered Network User.
Interconnection point (also termed Connection Point)	means a physical or virtual point connecting adjacent entry-exit systems or connecting an entry-exit system with an interconnector, in so far 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.

638 **3.7 Requirements per process**

639 **3.7.1 Nomination process**



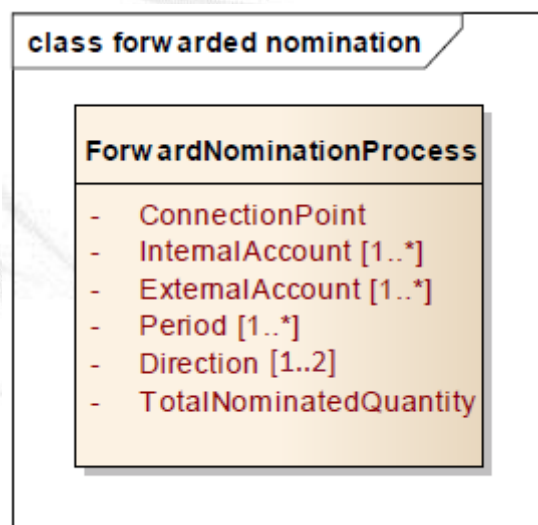
640
641

Figure 13: Nomination process information requirements

642 Note 1: wherever the indication [0..*] appears against an attribute this signifies that the
643 attribute in question is optional. For example, the attribute “InternalAccount [0..*]” is not
644 used in the case of ultimate users. The indication [1..*] means that at least one occurrence
645 of the information must be present.

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

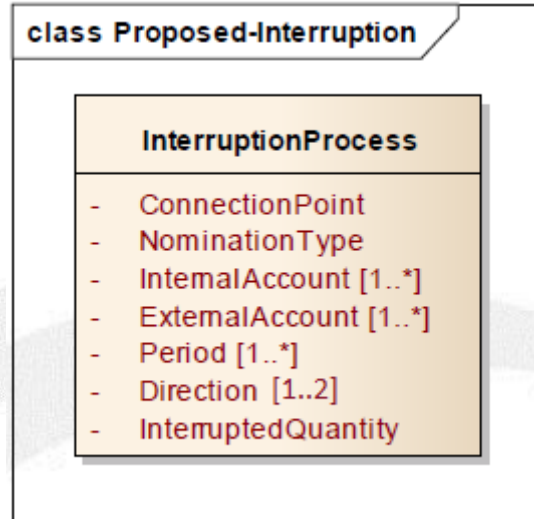
648 **3.7.2 Forward nomination process**



649
650

Figure 14: Forwarded nomination information requirements

651 **3.7.3 Interruption process**

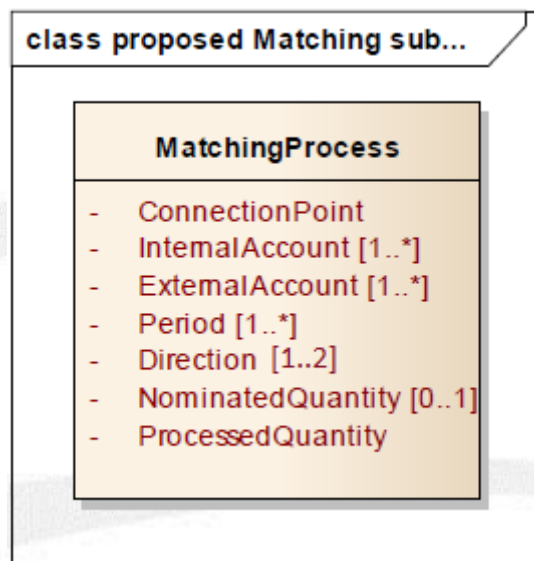


652

653

Figure 15: Interruption process information requirements

654 **3.7.4 Matching process**

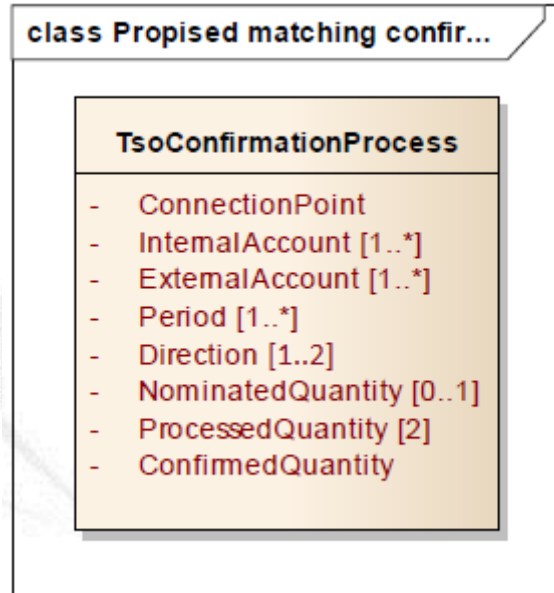


655

656

Figure 16: Matching process information requirements

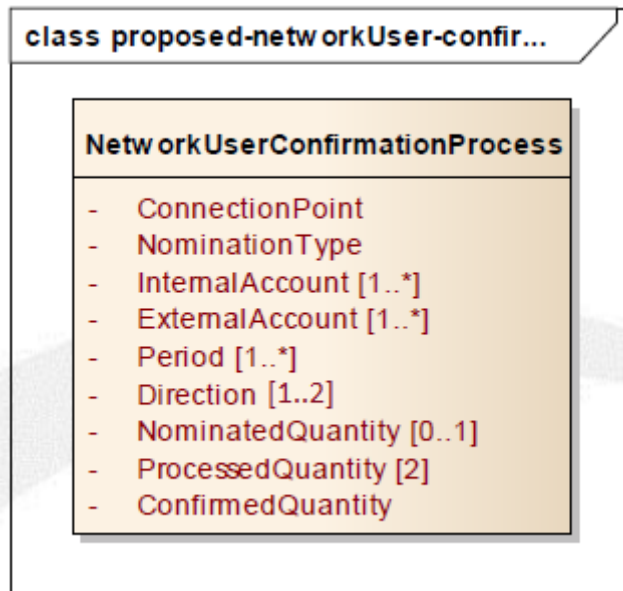
657 **3.7.5 Matching Transmission System Operator confirmation process**



658
659

Figure 17: TSO confirmation process information requirements

660 **3.7.6 Registered Network User confirmation process**



661
662
663

Figure 18: Registered Network User confirmation information requirements

664 **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

665