1 **Business Requirements Specification**

2 **For the**

3 **Nomination (NOM)**

4 **Network Code**

5 **Draft Version 0 Revision 8 – 2013-05-22**

6 **Approved**

Table of contents

47

Table of figures

67

68

1   *Objective*

The Network Code on Gas Balancing (NC BAL) of transmission networks sets forth provisions in respect to gas balancing regimes within the borders of the European Union with the aim to facilitate gas trading across balancing zones toward greater market integration.

It defines gas balancing rules, including network-related rules on nominations procedure, on imbalance charges and on operational balancing as required by Article 8(6)(j) of the Regulation.

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

The Network Code on Capacity Allocation Mechanisms (NC CAM) defines how adjacent Transmission System Operators cooperate in order to facilitate capacity sales, taking into consideration general commercial as well as technical rules related to capacity allocation mechanisms. The Congestion Management Principles (CMP) guidelines provide rules in respect to contractual congestion in gas transmission networks.

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

2   *Scope*

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

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

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

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

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

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

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

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

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

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

123 ## 3 *Business requirements*

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

126 ## 3.1 *Nomination requirements*

127 This section outlines the overall business process behaviour of the system without going into
128 the detailed internal workings of each entity. It defines the external requirements of the
129 business process and the relationships between the entities concerned.

130
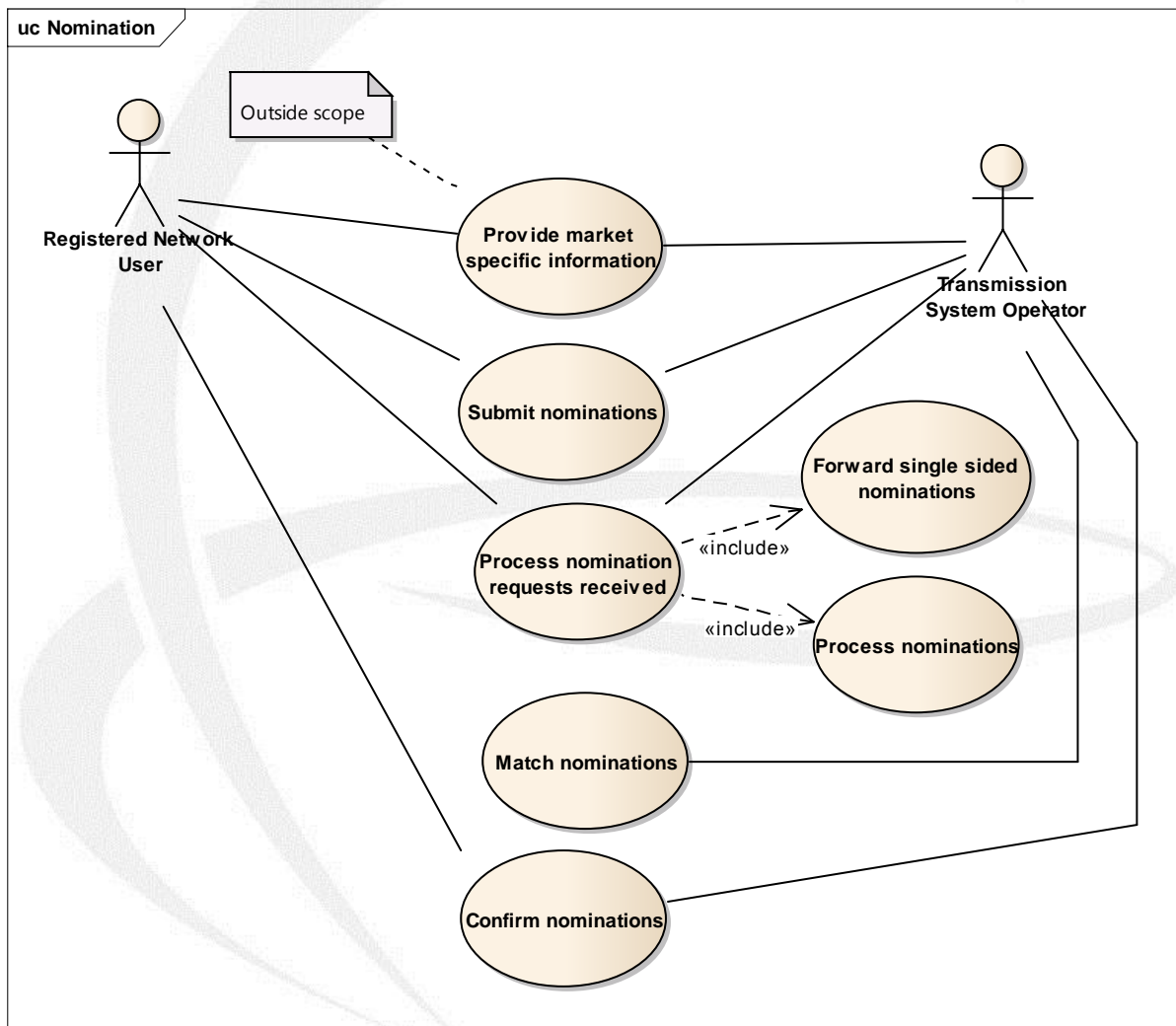
131

132 Figure 1: overview of the nomination process use case

3.2 List of actors

3.2.1 Registered Network User

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

138 A Registered Network User in the context of this document has obtained a right to nominate
139 and is understood in the Balancing Network Code as a Shipper.

3.2.2 Transmission System Operator

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

146 At each connection point a Transmission System Operator may have four specific roles in
147 two different contexts:

148   1. In the context of the interface with the Registered Network user:

149   • That of a Transmission System Operator who receives all nominations submitted
150   by the Network Users registered in the system operator's area;

151   • That of the adjacent Transmission System Operator who is the Transmission
152   System Operator that receives all nominations submitted by all the counter party
153   Network Users of this Network User.

154   2. In the context of the matching process between Transmission System Operators

155   • That of an Initiating Transmission System Operator who is the Transmission
156   System Operator that initiates the matching process by sending all necessary data
157   to the Matching Transmission System Operator.

158   • That of a Matching Transmission System Operator who is the Transmission
159   System Operator that performs the matching process and who sends the results
160   to the Initiating Transmission System Operator.

3.3 Use case detail

3.3.1 Provide market specific information

163 This use case enables the provision of market specific information related to the Registered
164 Network User to the Transmission System Operator. It is outside the scope of this Business
165 Requirements Specification and is only provided for information.

166 This enables the establishment of the business rules and obligations for the use of single
167 sided nominations between the Transmission System Operator and the Registered Network
168 User.

169 ### 3.3.2 Submit nominations

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

175 A single sided nomination means that there is no corresponding nomination transmitted by
176 the counter party Registered Network User to its Transmission System Operator. All single
177 sided nominations must only be submitted to the Transmission System Operator(s) that has
178 been designated by both Transmission System Operators which, for the purposes of this
179 document is shown as the Initiating Transmission System Operator.

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

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

185 There is no distinction made in the nomination requestbetween bundled and unbundled
186 capacity or between firm and interruptible capacity. The nomination request shall contain
187 uniquely the total nominated quantity.

188 ### 3.3.3   Process nomination requests received

189 This use case enables the Transmission System Operator receiving a nomination request to
190 validate its content. This process will be detailed in the use cases "process single sided
191 nominations" and "process nominations" described below.

192 The Transmission System Operator always acknowledges receipt of the nominations from
193 the Registered Network User and the forwarded nominations from the Transmission System
194 Operator that received a single sided nomination. The acknowledgement may be either
195 positive or negative.

196 ## 3.3.3.1 Process single sided nominations

197 For the purposes of clarity and ease of description in this document the recipient of a single
198 sided nomination shall always be deemed as the Initiating Transmission System Operator
199 and the recipient of the forwarded single sided nomination shall always be deemed as the
200 Matching Transmission System Operator.

201 All single sided nominations shall be passed by the Initiating Transmission System Operator
202 to the Matching Transmission System Operator for local processing within 15 minutesafter
203 the nomination deadline.

204 A single sided nomination shall only be forwarded to the Matching Transmission System
205 Operator once the syntactical and semantic content of the submitted nomination is
206 coherent.

207 It should be noted that within this process the Matching Transmission System Operator has
208 to process all the single sided nominations that have been received from the Initiating
209 Transmission System Operator to ensure that the validation rules are respected.

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

211 A Transmission System Operator can only carry out any capacity checks once all the single-
212 sided and the double-sided nominations have been received.

3.3.3.2 Process nominations

213

214 All double sided and single sided nominations are handled together on a connection point
215 and account pair basis.

216 Standard processing is then carried out on each nomination to ensure that it respects all
217 validation rules as well as ensuring that it remains within the nomination possibilities
218 allowed for the Registered Network User.

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

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

3.3.4   Match nominations

225

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

228 Once the matching has been finalised the confirmed nominations and the processed
229 quantities established by the Matching Transmission System Operator are transmitted to the
230 Initiating Transmission System Operator. If agreed between Transmission System Operators
231 the double sided original nominations received by the Matching Transmission System
232 Operator may also be transmitted.

### 3.3.5   Confirm nominations

233

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

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

239 The Registered Network User that submitted single sided nominations may also inform the
240 counter party of the results.

3.4 Information flow definition

3.4.1 Nomination Sequence flow
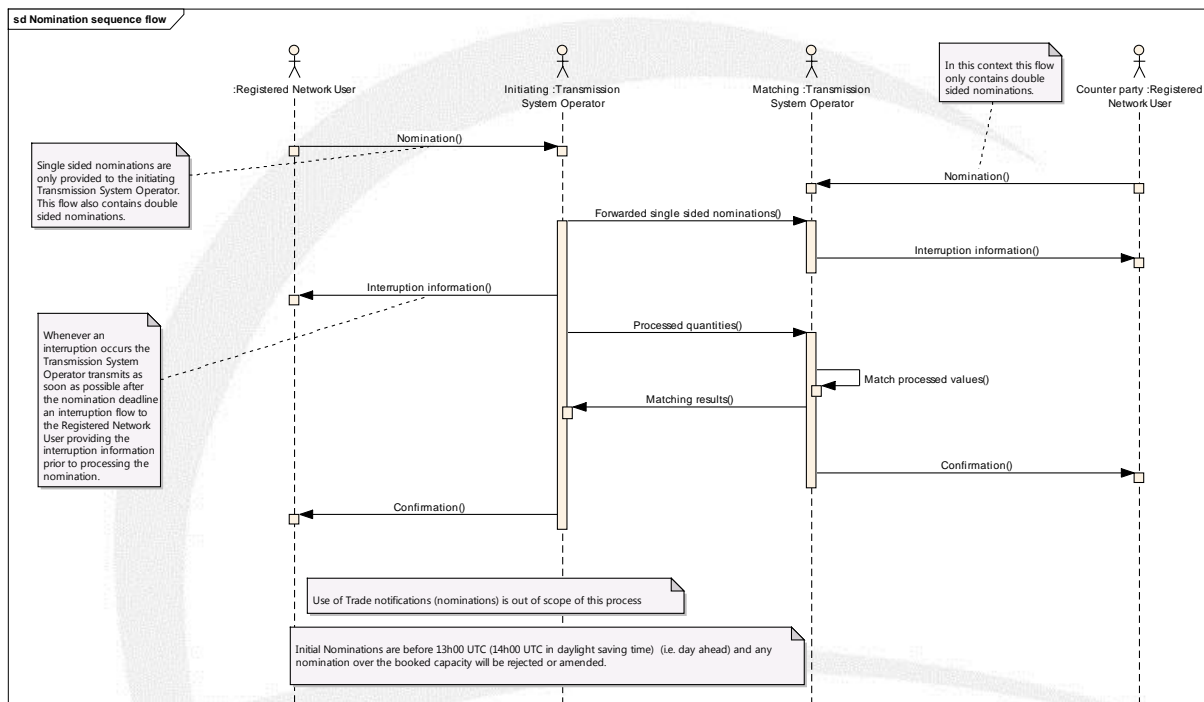
243
244 **Figure 2: Information flow sequence**

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

248 The five mandatory flows are:

249   1. The transmission of nomination information between the Registered Network User
250   and the Transmission System Operator. If the transmission is to the Initiating
251   Transmission System Operator the information may contain single sided and double
252   sided nomination information. If the transmission is to the Matching Transmission
253   System Operator the information may only contain double sided nomination
254   information.

255   2. The transmission of single sided nomination information between the Initiating
256   Transmission System Operator and the Matching Transmission System Operator. This
257   transmission occurs within 15 minutes after the nomination deadline and contains all
258   the single sided nominations that have been received.

259   3. The transmission of matching information between the Initiating Transmission
260   System Operator and the Matching Transmission System Operator. This transmission

261   occurs within 45 minutes after the nomination deadline and contains all the
262   nominations processed by the Initiating Transmission System Operator and optionally
263   the nomination.

264   4. The transmission of the matching results between the Matching Transmission System
265   Operator and the Initiating Transmission System Operator. This transmission occurs
266   within 90 minutes after the nomination deadline and contains all the nominations
267   where the processed information has been matched and that are confirmed. It also
268   contains the processed results on the Matching Transmission System Operator side
269   and optionally the nomination.

270   5. The transmission of the confirmation between the Transmission System Operator
271   and the Registered Network Users. This transmission occurs within two hours after
272   the nomination deadline and contains the results of their nominations.

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

279   ## 3.4.2 Nomination Workflow

280   ## 3.4.2.1 Pre-nomination process workflow
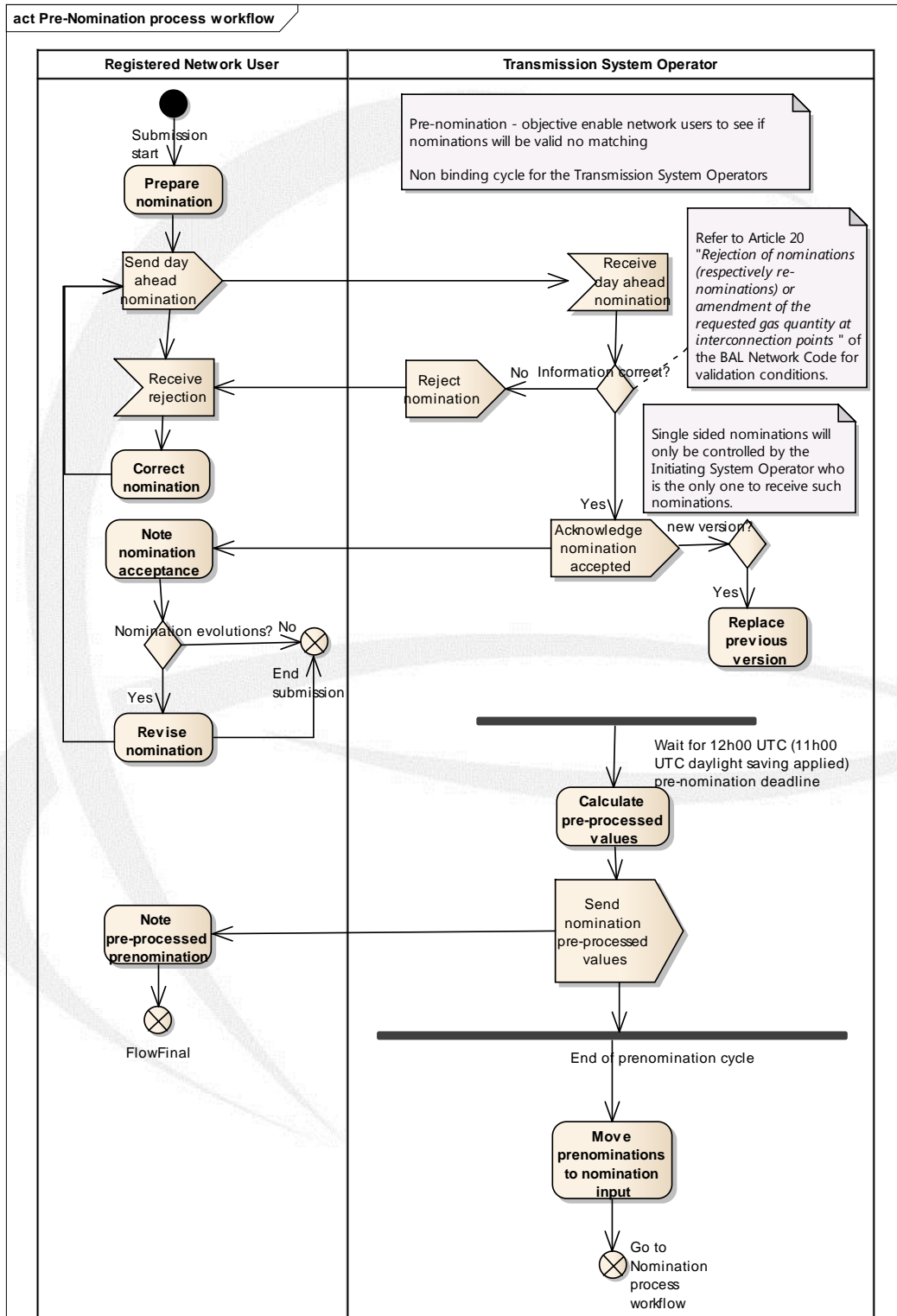
281
282   **Figure 3: Pre-nomination workflow**

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

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

291 3.4.2.2 Nomination process workflow
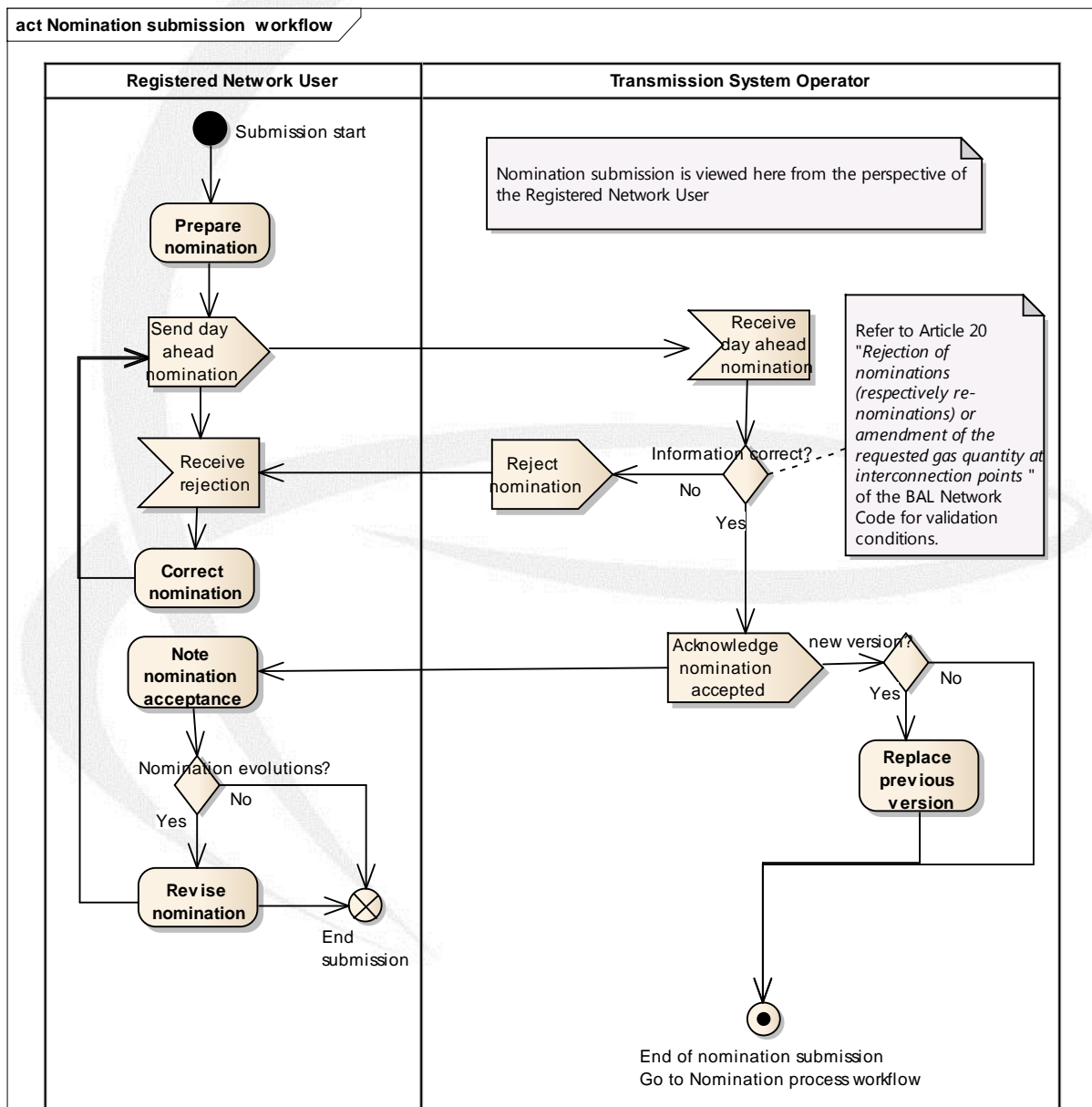
292

293 Figure 4: Nomination submission workflow

294   Nomination submissions are carried out as depicted in figure 4. The Registered Network
295   User submits all nominations to the local Transmission System Operator.

296   In the case of single sided nominations only the Registered Network User whose
297   Transmission System Operator acts also as the Initiating Transmission System Operator
298   submits the single sided nominations.

299   Once the nomination submission has terminated and the nomination deadline has been met
300   the matching process as depicted in figure 5 is carried out.
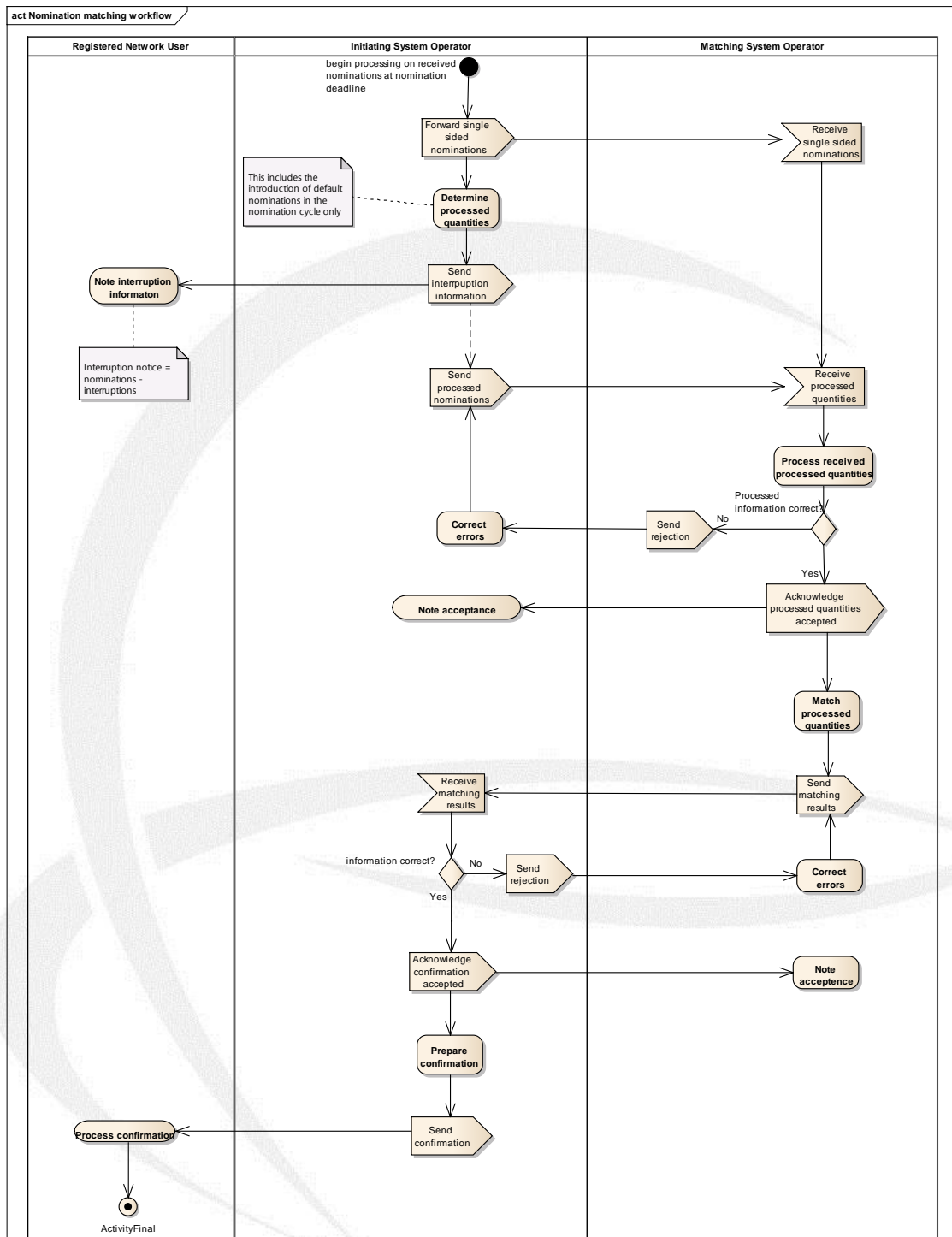
Figure 5: Nomination processing workflow

301
302

303 The Initiating Transmission System Operator then transmits all single sided nominations to
304 the Matching Transmission System Operator within 15 minutes after the nomination
305 deadline in order to facilitate processing by the Matching Transmission System Operator.

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

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

310 Once all nominations have been processed, the Initiating Transmission System Operator
311 transmits the processed results and optionally the nominations to the Matching
312 Transmission System Operator.

313 The Matching Transmission System Operator verifies that the information is correct. All the
314 processed quantities received from the Initiating Transmission System Operator are matched
315 with all the processed quantities established by the Matching Transmission System
316 Operator.

317 Any differences in the matching process have a basic rule applied (in general the lesser
318 values rule). The final confirmed quantities are then transmitted by the Matching
319 Transmission System Operator to the Initiating Transmission System Operator. This includes
320 the quantities processed by the Matching Transmission System Operator and optionally all
321 the nominations received.

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

324 ### 3.4.3 General Acknowledgement process

325 ### 3.4.3.1 Business process definition

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

328 • System level: To detect syntax errors (parsing errors, etc.);

329 • Application level: To detect semantic errors (invalid data, wrong process, etc.).

330 If there is a problem encountered at the first level, then a technical acknowledgement may
331 be sent to inform the issuer of the problem.

332 If errors are encountered at the second level or if the application can successfully process
333 the information, then an application acknowledgement may be sent to inform the issuer of
334 the situation.
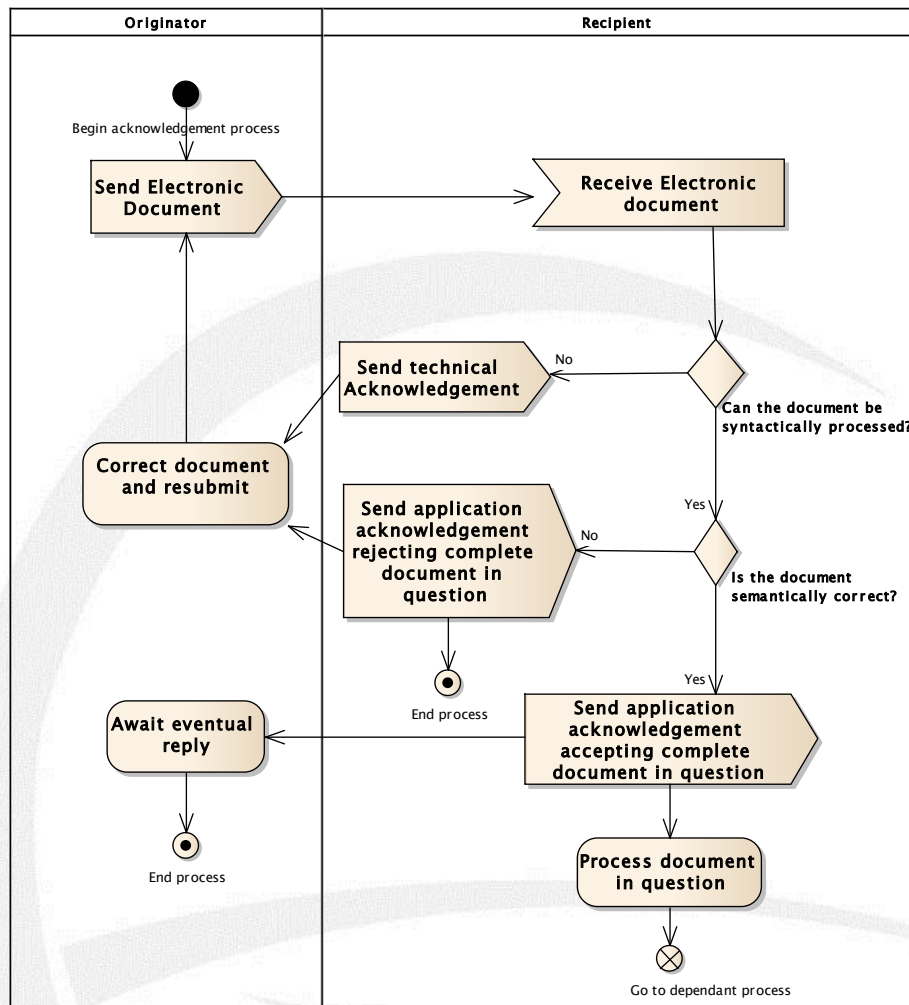
Figure 6: Acknowledgement process

3.4.3.2 Technical acknowledgment

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

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

3.4.3.3 Application acknowledgment

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

350   In particular, when the issuer is in the role of a Transmission System Operator and the
351   recipient is in a "market participant" type of role, all electronic documents sent by entities in
352   the role of a Transmission System Operator shall be considered as received and correct, and
353   the acknowledgement process is not required unless an acknowledgment document is
354   required for a specific purpose.

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

358   • Its document, that is stated as valid after this verification, is ready to be processed by
359   the reception of an acknowledgement document accepting the complete document
360   in question;

361   • Its document is rejected for processing by the reception of an acknowledgement
362   document rejecting the complete document in question with details on the level of
363   errors.

3.5 Information model requirements

364

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

3.5.1 Nomination information flow

368
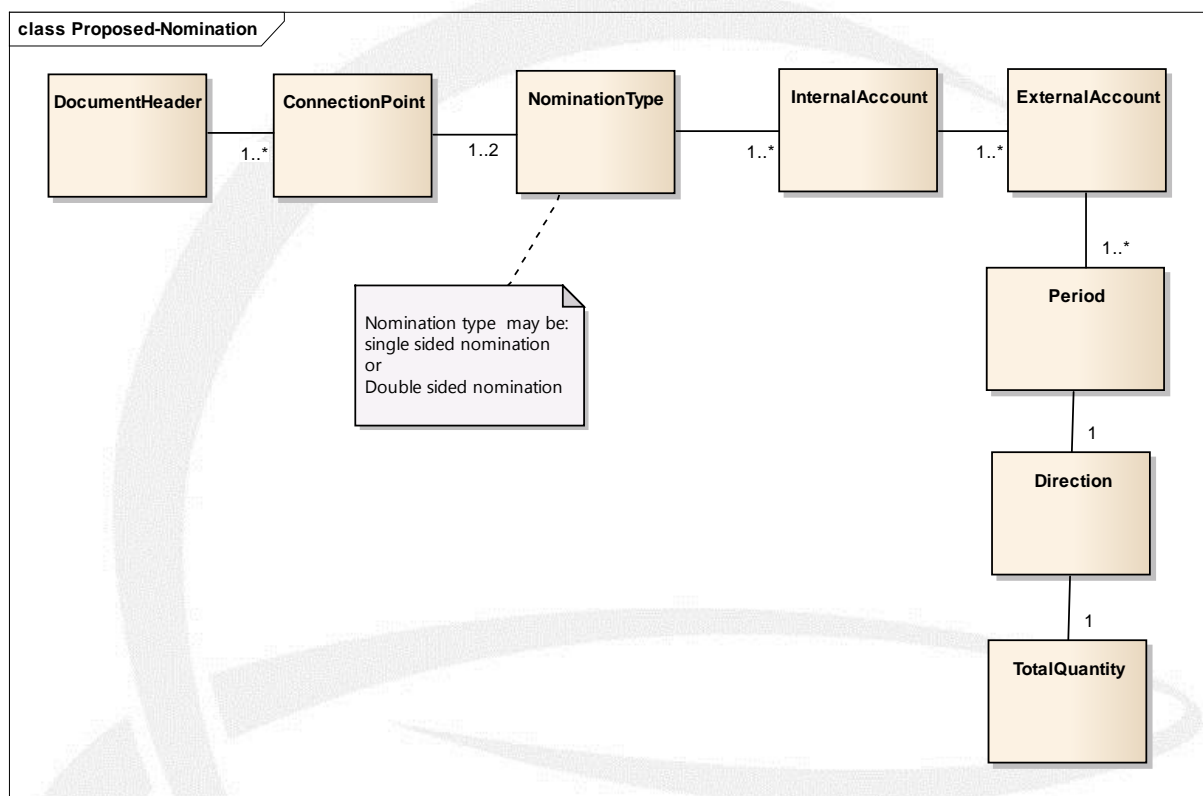
369

370 Figure 7: Nomination information flow

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

372 1. The Header that provides all the information concerning the identification of the
373 nomination including the gas day.

374 2. The Connection Point that identifies the connection point identification. Multiple
375 connection points are permitted per nomination request.

376 3. The Nomination Type indicating whether the nomination for the connection point is
377 single sided or double sided.

378 4. The Internal Account that identifies the account of the submitting Registered
379 Network User that is managed by the Transmission System Operator receiving the
380 nomination (Article 16.3 of BAL NC). There may be multiple internal accounts for a
381 given connection point. An internal account must have the identification of the
382 Transmission System Operator that provides the code.

5. The External Account that identifies the account of the counter part Registered
   Network User that is managed by the counter part System Operator (Article 16.4 of
   BAL NC). There may be many external accounts for a given internal account. An
   external account must have the identification of the Transmission System Operator
   that provides the code.

6. The Period that identifies the time period for which the information provided relates
   (Article 16.5 of BAL NC). A time period may only relate to a gas day in the case of
   standard nominations (Article 16.6 of BAL NC). The management of any other period
   is outside the scope of this specification. A time period may be expressed as a
   complete gas day or as a number of parts of the gas day (e.g 24 hours).

7. The Direction that identifies whether the nomination provided is an input or an
   output to the area of the Transmission System Operator.

8. The Total Quantity being nominated.

*Note: for a given connection point the value of the internal account combined with the
value of the external account shall only appear once.*

3.5.2 Interruption information flow

Figure 8: Interruption information flow

The optional interruption information flow is only provided if an interruption occurs against
the Registered Network Users nomination. It is transmitted as soon as possible after the
interruption is identified. It is only transmitted once in the nomination cycle. It can occur

404 that it does not represent the final processed value that is submitted to a Matching
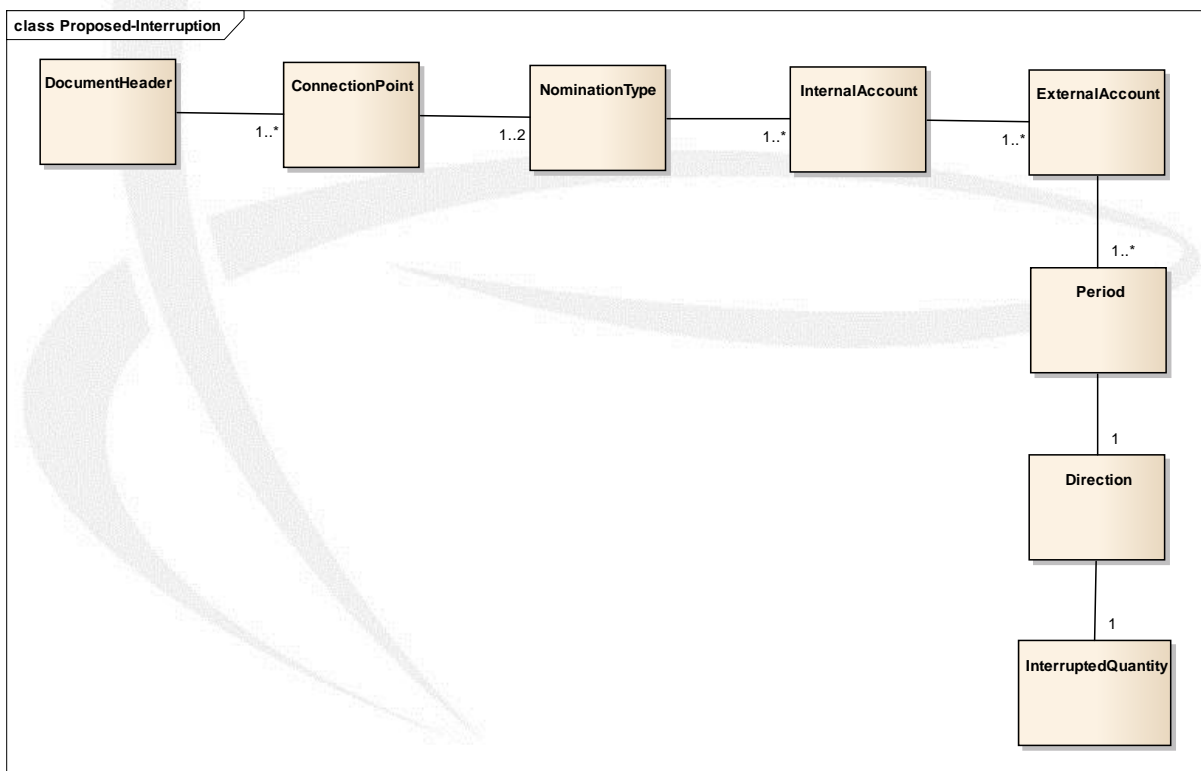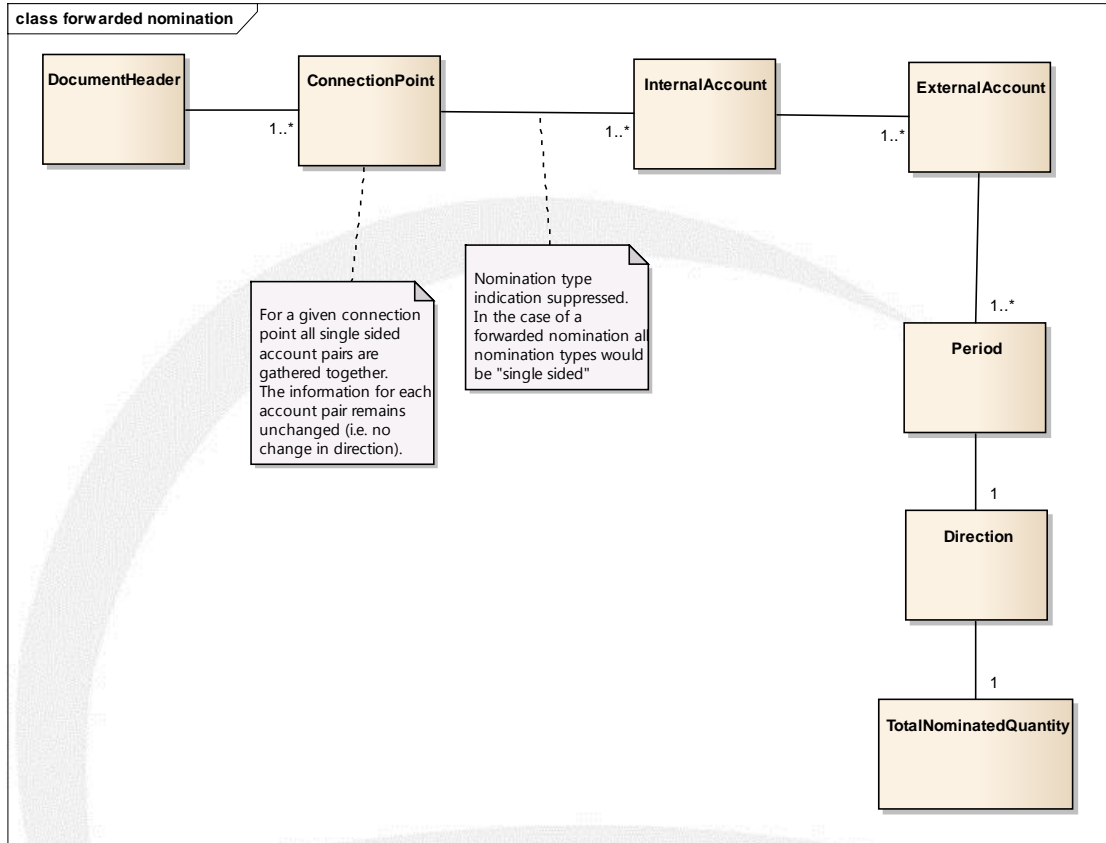405 Transmission System Operator.

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

407   1. The header that provides all the information concerning the identification of the
408   interruption including the gas day.

409   2. The Connection Point that identifies the connection point identification. Multiple
410   connection points are permitted per interruption.

411   3. The Nomination Type indicating whether the interruption for the connection point
412   affects a single sided or double sided nomination.

413   4. The Internal Account that identifies the account of the submitting Registered
414   Network User that is managed by the Transmission System Operator that has applied
415   the interruption. There may be multiple internal accounts for a given connection
416   point. An internal account must have the identification of the Transmission System
417   Operator that provides the code.

418   5. The External Account that identifies the account of the counter part Registered
419   Network User that is managed by the counter part Transmission System Operator.
420   There may be many external accounts for a given internal account. An external
421   account must have the identification of the Transmission System Operator that
422   provides the code.

423   6. The Period that identifies the time period that has been specified in the nomination.

424   7. The Direction that identifies whether the nomination provided is an input or an
425   output to the area of the Transmission System Operator.

426   8. The Quantity which reflects the value expressed in the nomination but reduced in
427   compliance with the interruption.

428   ### 3.5.3 Forward nomination flow

429

430
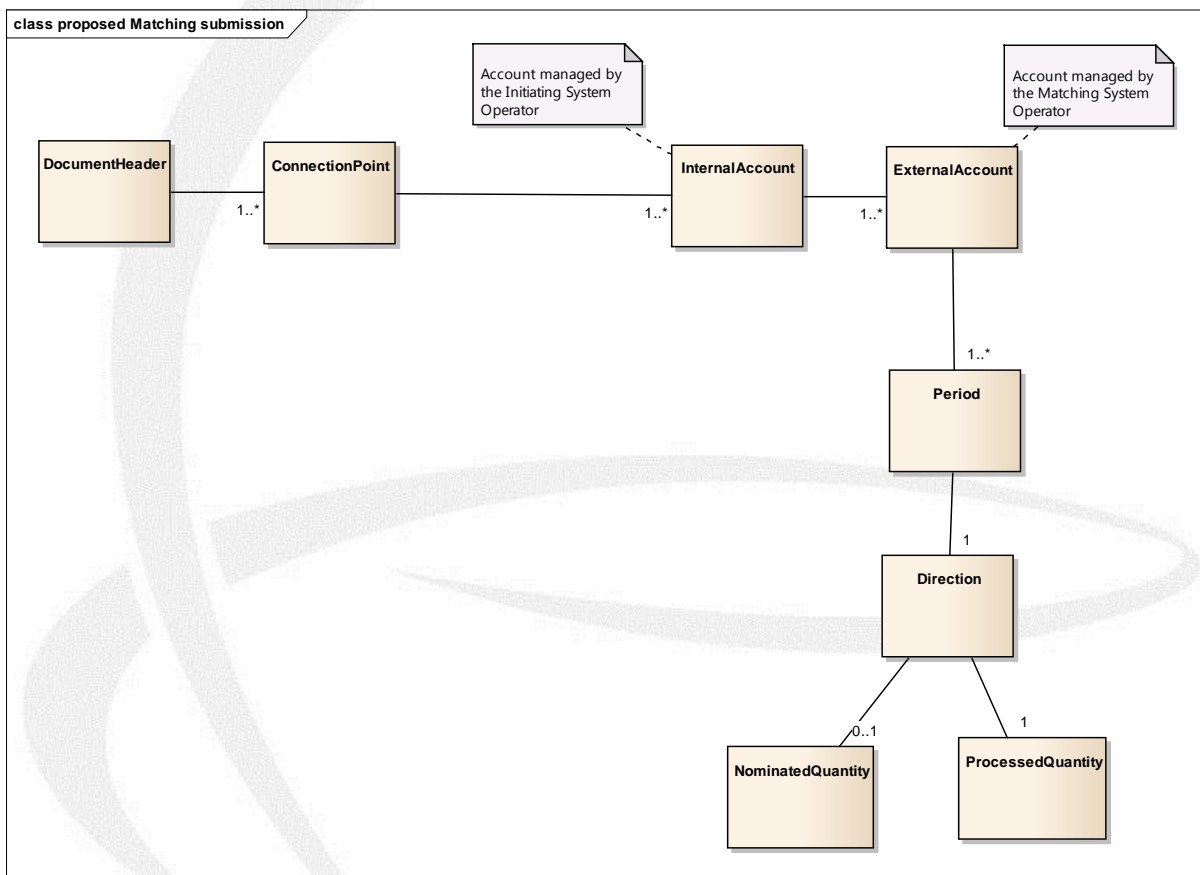<div align="center">**Figure 9: Forward nomination information flow**</div>

431   In the case of a single sided nomination, it is necessary that this information is forwarded to
432   the Matching System Operator in order to enable the information to be processed locally.
433   The information flow is broken down into the following classes of information:

434   1. The Header that provides all the information concerning the identification of the
435   single sided nomination including the gas day.

436   2. The Connection Point that identifies the connection point identification. Multiple
437   connection points are permitted per nomination request.

438   3. The Internal Account that identifies the account of the submitting Registered
439   Network User that is managed by the forwarding Transmission System Operator.
440   There may be multiple internal accounts for a given connection point. An internal
441   account must have the identification of the Transmission System Operator that
442   provides the code.

443   4. The External Account that identifies the account of the counter part Registered
444   Network User that is managed by the counter part System Operator. There may be
445   many external accounts for a given internal account. An external account must have
446   the identification of the Transmission System Operator that provides the code.

447 5. The Period that identifies the time period for which the information provided relates.
448   A time period may only relate to a gas day in the case of standard nominations. The
449   management of any other period is outside the scope of this specification. A time
450   period may be expressed as a complete gas day or as a number of parts of the gas
451   day (e.g 24 hours).

452 6. The Direction that identifies whether the nomination provided is an input or an
453   output to the area of the Transmission System Operator forwarding the nomination.

454 7. The Total nominated Quantity being nominated.

455 ### 3.5.4 Matching submission information flow

456

457 Figure 10: Matching information flow

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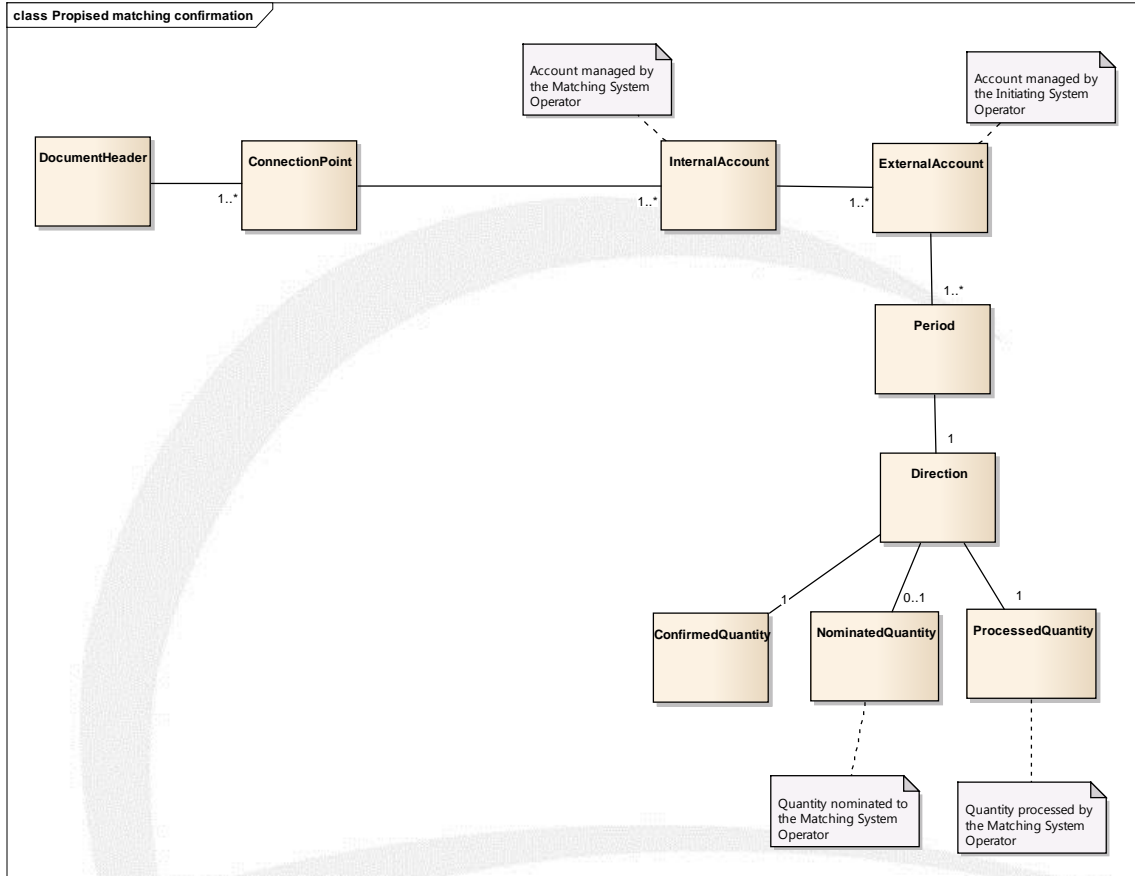460 Registered Network User.

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

462 1. The Header that provides all the information concerning the identification of the
463   matching flow including the gas day.

464   2. The Connection Point that identifies the connection point. Multiple connection points
465   are permitted per matching information flow.

466   3. The Internal Account that identifies the account of the submitting Registered
467   Network User that is managed by the Initiating Transmission System Operator. There
468   may be multiple internal accounts for a given connection point. An internal account
469   must have the identification of the Transmission System Operator that provides the
470   code.

471   4. The External Account that identifies the account of the counter part Registered
472   Network User that is managed by the Matching Transmission System Operator. There
473   may be many external accounts for a given internal account. An external account
474   must have the identification of the Transmission System Operator that provides the
475   code.

476   5. The Period that identifies the time period as identified in the nomination flow.

477   6. The Direction that identifies whether the nomination provided is an input or an
478   output to the area of the Initiating Transmission System Operator.

479   7. The Nominated Quantity represents the quantity nominated by the Registered
480   Network User and may optionally be provided.

481   8. The Processed Quantity which represents the quantity as processed by the Initiating
482   Transmission System Operator.

483 ## 3.5.5 Matching results information flow

484
485
<p style="text-align:center">Figure 11: Matching results information flow</p>

486 When the Matching Transmission System Operator terminates the matching process the
487 matching results are transmitted to the Initiating Transmission System Operator.

488 The matching results information flow is broken down into the following classes of
489 information:

490   1. The Header that provides all the information concerning the identification of the
491   matching results flow including the gas day.

492   2. The Connection Point that identifies the connection point. Multiple connection points
493   are permitted per matching results information flow.

494   3. The Internal Account that identifies the account of the submitting Registered
495   Network User that is managed by the Matching Transmission System Operator. There
496   may be multiple internal accounts for a given connection point. An internal account
497   must have the identification of the Transmission System Operator that provides the
498   code.

499   4. The External Account that identifies the account of the counter part Registered
500   Network User that is managed by the Initiating Transmission System Operator. There
501   may be many external accounts for a given internal account. An external account

502 must have the identification of the Transmission System Operator that provides the
503 code.

504   5. The Period that identifies the time period as identified in the nomination flow.

505   6. The Direction that identifies whether the nomination provided is an input or an
506   output to the area of the Matching Transmission System Operator.

507   7. The Confirmed Quantity for the nomination.

508   8. The Nominated Quantity that has been received by the Matching Transmission
509   System Operator may optionally be provided.

510   9. The Processed Quantity that has been carried out by the Matching Transmission
511   System Operator.

3.5.6 Registered Network User confirmation information flow

512
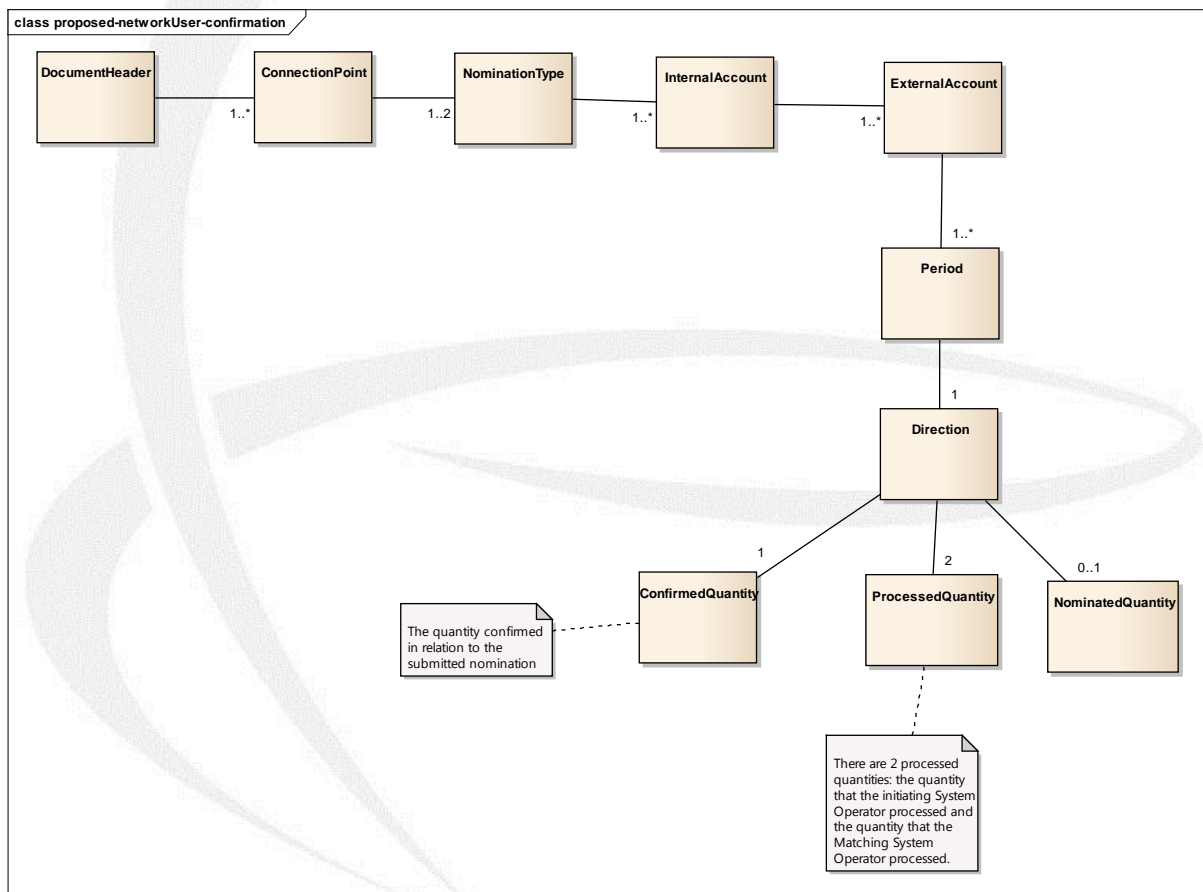
513
514 **Figure 12: Registered Network User nomination confirmation information flow**

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

518   The nomination confirmation information flow is broken down into the following classes of
519   information:

1. The Header that provides all the information concerning the identification of the
   nomination confirmation flow and relates it to the nomination including the gas day.

2. The Connection Point that identifies the connection point. Multiple connection points
   are permitted per nomination confirmation information flow.

3. The Nomination Type indicating whether the information concerns a single sided or
   double sided nomination

4. The Internal Account that identifies the account of the Registered Network User to
   whom the confirmation is being sent that is managed by the Transmission System
   Operator transmitting the nomination confirmation. There may be multiple internal
   accounts for a given connection point. An internal account must have the
   identification of the Transmission System Operator that provides the code.

5. The External Account that identifies the account of the counter part Registered
   Network User that is managed by the counter part Transmission System Operator.
   There may be many external accounts for a given internal account. An external
   account must have the identification of the Transmission System Operator that
   provides the code.

6. The Period that identifies the time period as identified in the nomination flow.

7. The Direction that identifies whether the nomination provided is an input to the
   System Operator area or whether it is an output.

8. The Confirmed Quantity in relation to the quantity nominated. Each Transmission
   System Operator shall provide the confirmed nominations to its submitting
   Registered Network User. The Registered Network User that submitted single sided
   nominations may also inform the counter party of the results.

9. The Processed Quantities that have been calculated by both Transmission System
   Operators.

10. The Nominated Quantity that had been submitted by the counter party Registered
    Network User. This information is only provided if it has been provided by the
    relevant Transmission System Operator. If the Registered Network User had
    submitted a single sided nomination this information is not provided.

549 *3.6 Definitions of the attributes used in all the models*

550 Definitions originating from the CAM, Balancing and Interoperability Network Codes will be
551 reviewed as soon as the 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: CAM NC)
Period	Start time and end time of gas flow for which the document is submitted.. A period concerns one gas day (Article 16.5 of BAL NC).
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 (Article 16.6 of BAL NC).
Internal Account	A Registered Network User account within the Transmission System Operators environment where the Registered Network User normally submits nominations (Article 16.3 of BAL NC).
External Account	A Registered Network User account of a Networks User's counterparty within the counterparty Transmission System Operators environment (Article 16.4 of BAL NC).

Direction	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.
	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).
Nomination Type	An indication whether a nomination is single sided or double sided.
Single sided nomination	A nomination that is submitted by a Registered Network user on behalf of both involved parties to only one Transmission System Operator.
	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 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
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.

552

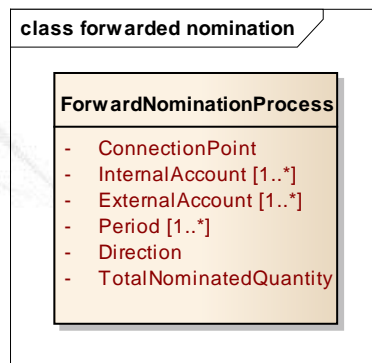## *3.7 Requirements per process*

3.7.1 Nomination process
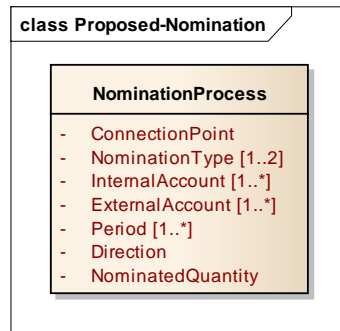
Figure 13: Nomination process information requirements

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

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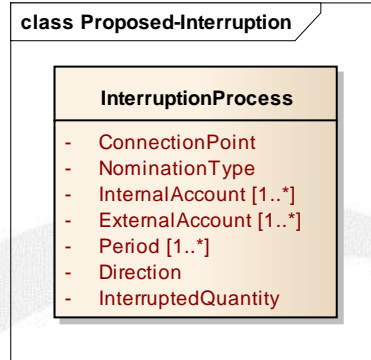
3.7.2 Forward nomination process

Figure 14: Forwarded nomination information requirements
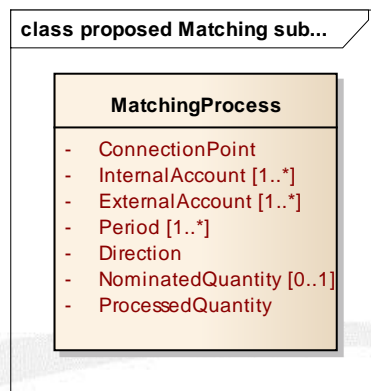
566 ### 3.7.3 Interruption process

class Proposed-Interruption

InterruptionProcess

- ConnectionPoint
- NominationType
- InternalAccount [1..*]
- ExternalAccount [1..*]
- Period [1..*]
- Direction
- InterruptedQuantity

567
568 **Figure 15: Interruption process information requirements**

569 ### 3.7.4 Matching process

class proposed Matching sub...

MatchingProcess

- ConnectionPoint
- InternalAccount [1..*]
- ExternalAccount [1..*]
- Period [1..*]
- Direction
- NominatedQuantity [0..1]
- ProcessedQuantity
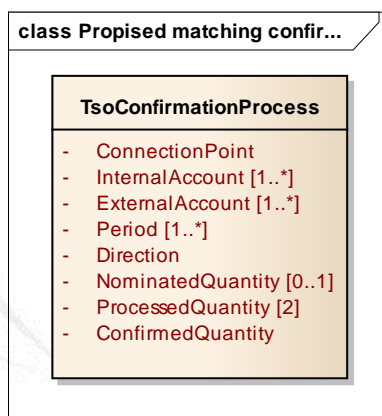
570
571 **Figure 16: Matching process information requirements**

572 ### 3.7.5 Matching Transmission System Operator confirmation process

class Propised matching confir...

TsoConfirmationProcess

- ConnectionPoint
- InternalAccount [1..*]
- ExternalAccount [1..*]
- Period [1..*]
- Direction
- NominatedQuantity [0..1]
- ProcessedQuantity [2]
- ConfirmedQuantity
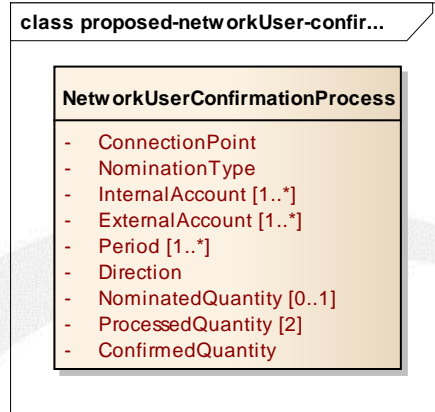
573
574 **Figure 17: TSO confirmation process information requirements**

575   ## 3.7.6 Registered Network User confirmation process

class proposed-networkUser-confir...

NetworkUserConfirmationProcess

- ConnectionPoint
- NominationType
- InternalAccount [1..*]
- ExternalAccount [1..*]
- Period [1..*]
- Direction
- NominatedQuantity [0..1]
- ProcessedQuantity [2]
- ConfirmedQuantity

576
577   **Figure 18: Registered Network User confirmation information requirements**