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Edig@s¹ Simplified Working Scenarios

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Target audience: IT implementors, Business analysts, management

4

¹ Edig@s = EASEE-Gas Message and Workflow design working group

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63 **1 Introduction**

64 *The Edig@s Version 5.1 protocol manages 10 gas business processes in all. Each process is*
65 *identified as follows:*

<i>Process number</i>	<i>Process name</i>
1	<i>Capacity Trading Process</i>
2	<i>Gas Trading Process</i>
3	<i>Nomination and Matching Process</i>
4	<i>Settlement Process</i>
5	<i>Balancing Process</i>
6	<i>Transparency Process</i>
7	<i>Facility Setting Process</i>
8	<i>General Services Process</i>
9	<i>REMIT Process</i>
10	<i>Market Balancing Process</i>

66 *In order to provide an overview of the use of the Edig@s protocol a number of classical scenarios*
67 *have been developed to facilitate a newcomer to apprehend how the Edig@s protocol is used.*
68 *The scenarios make use of the following six Edig@s business processes:*

- 69 – *Capacity Trading;*
- 70 – *Gas Trading;*
- 71 – *Nomination and Matching;*
- 72 – *Settlement;*
- 73 – *Balancing*
- 74 – *REMIT.*

75 Each scenario has been broken down into steps which refer to the Edig@s processes in a
76 simplified manner that are necessary to satisfy the scenario requirements.

77 **1.1 Simplified scenarios**

78 The scenarios are outlined in the following table. The scenario name provides a short explanation
 79 of what has to be resolved. In addition the brackets are identified the Edig@s processes that
 80 have to be brought into play in order to resolve the scenario.

N°	Scenario name
1	A market participant (Balance Responsible Party, Trader, Supplier or Final Customer) wants to buy gas from another market participant (Balance Responsible Party, Trader, Supplier or Final Customer) using OTC (<i>Involves the Gas Trading Process; Nomination and Matching Process</i>)
2	A Balance Responsible Party wants to buy gas from a counter party at a virtual trading point and transport it from area A to area B. (<i>Involves the Capacity Trading Process; Gas Trading Process; Nomination and Matching Process</i>)
3	A Balance Responsible Party wants to transport gas between two TSO areas to himself (<i>Involves the Nomination and Matching Process</i>)
4	A Balance Responsible Party wants to transport gas between two TSO areas to another Balance Responsible Party (<i>Involves the Nomination and Matching Process</i>)
5	A Balance Responsible Party wants to inject/withdraw gas with a storage facility (<i>Involves the Nomination and Matching Process</i>)
6	A Balance Responsible Party wants to verify his balancing situation (<i>Involves the Settlement Process</i>)
7	An Area Coordinator carries out a balancing action on the market (<i>Involves the Balancing Process</i>)
8	A Balance Responsible Party wants to buy gas at an energy trading platform in order to balance his position (<i>Involves the Nomination and Matching Process</i>)
9	A market participant (Capacity Responsible Party, Transmission System Operator) wants to report concluded transactions via the REMIT Process. (<i>involves the REMIT Process</i>)

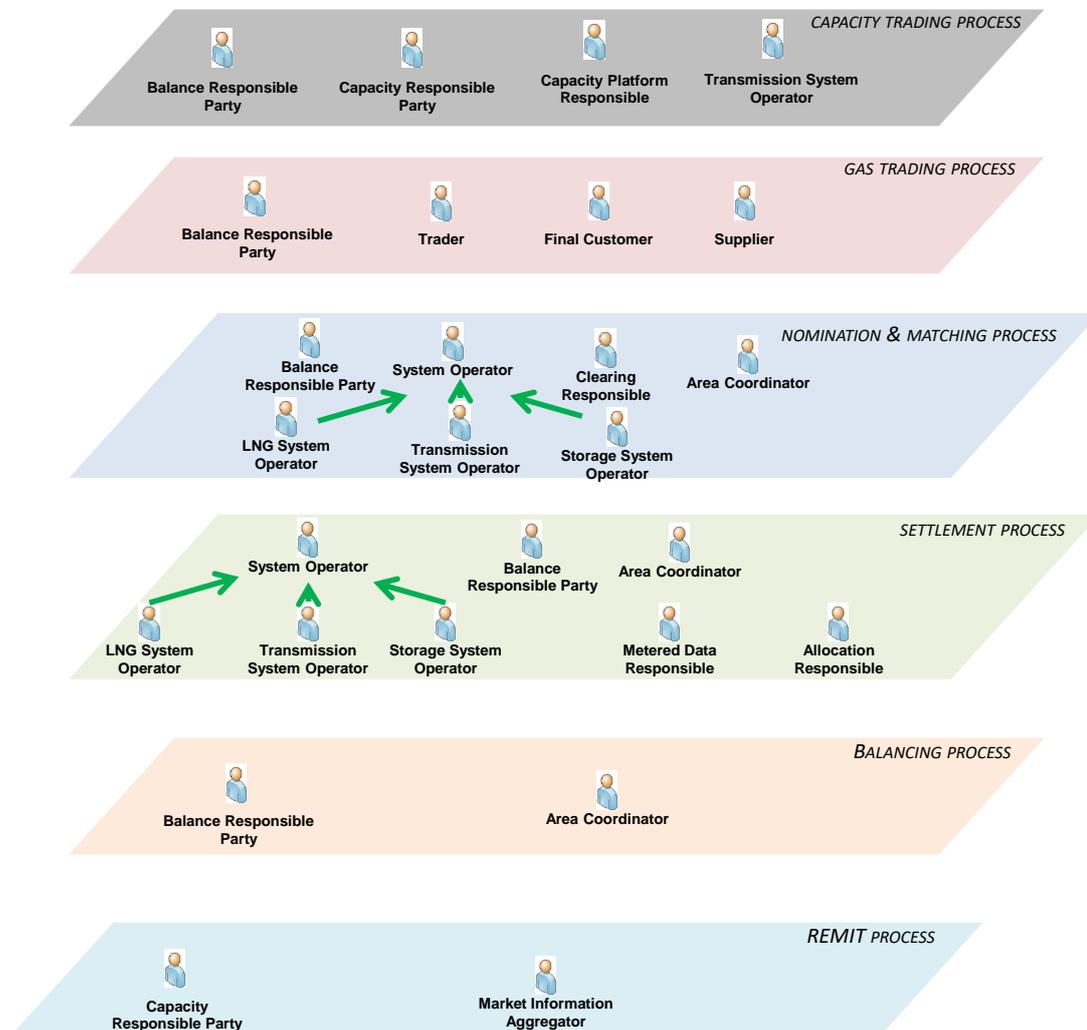
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82 **2 Roles used in the scenarios**

83 For the definition of the roles outlined below please refer to the EASEE-Gas Gas Harmonised Role
84 model.

Roles involved in the scenarios presented

For the definition of the roles please refer to the Gas Harmonised Role model



85

86

Figure 1: Roles used in the scenarios

87 **3 Scenarios**

88 **3.1 Scenario 1: A market participant wants to buy gas from another**
89 **market participant using OTC**

90 **3.1.1 Description**

91 **Description:** A market participant (Balance Responsible Party, Trader, Supplier or Final Customer)
92 wants to buy gas from another market participant (Balance Responsible Party, Trader, Supplier or
93 Final Customer) using OTC (Over The Counter transactions).

94 **Edig@s processes required:** The Gas Trading Process; Nomination and Matching Process

95 In order to buy gas from another market participant (Balance Responsible Party, Trader, Supplier
96 or Final Customer) the following action has to be carried out:

- 97
 - Purchase the gas from a market participant

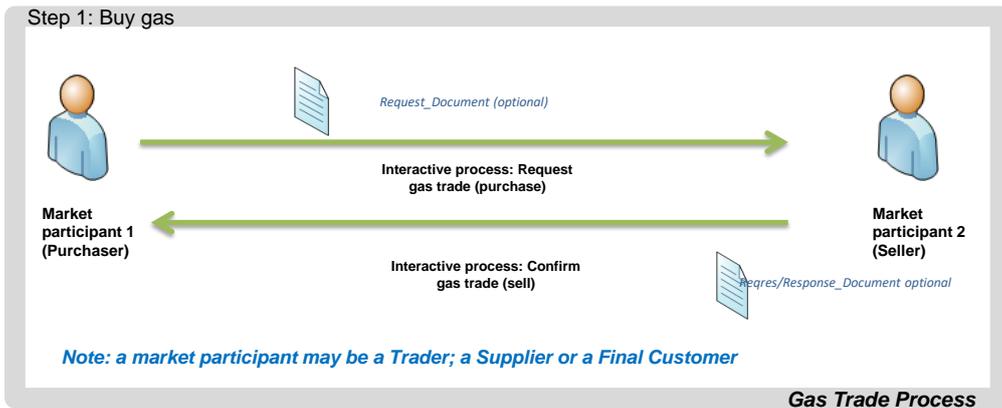
98 This involves the use of the following Edig@s process:

- 99
 1. The Gas Trading Process (over the counter trading)

100
 - 2A. Nomination and Matching Process at a VTP (or)

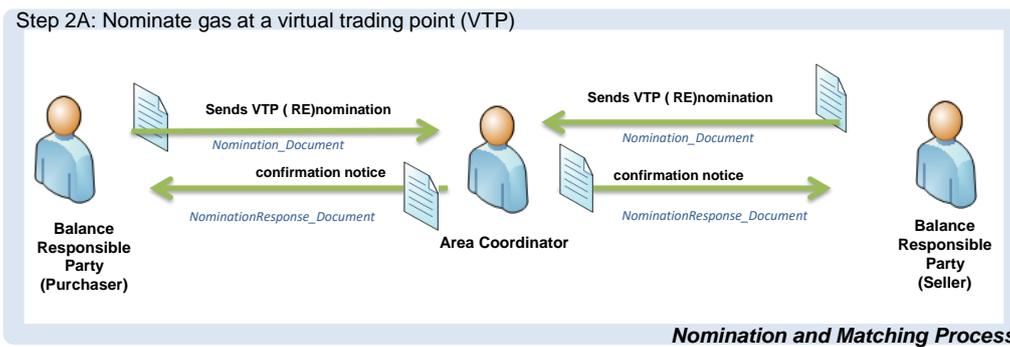
101
 - 2B. Nomination and Matching Process at an IP

102 3.1.2 Simplified flow diagrams



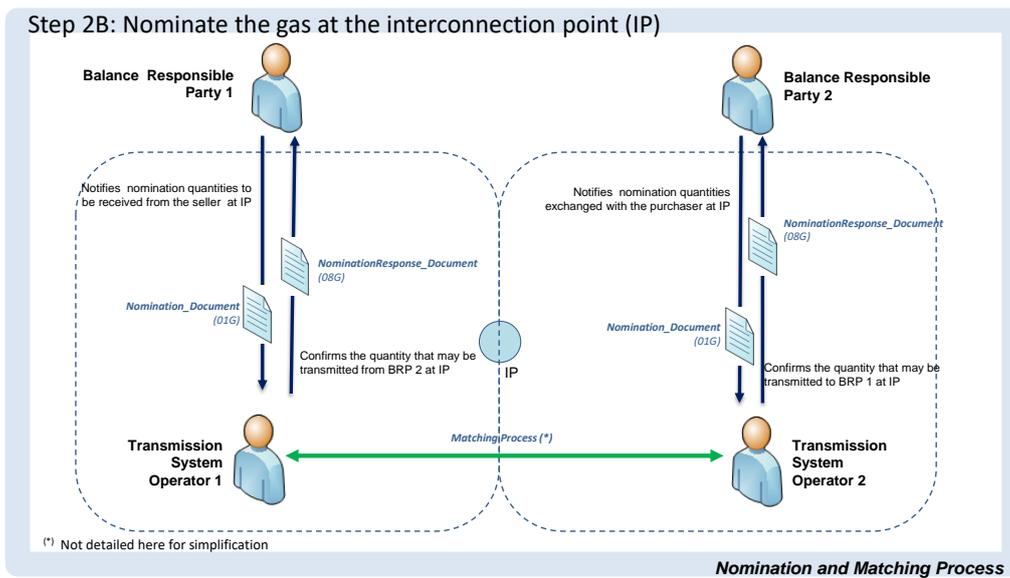
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Figure 2: Buy gas



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Figure 3: Nominate gas at a virtual trading point (VTP)



107
108

Figure 4: Nominate gas at an interconnection point (IP)

109 **3.2 Scenario 2: A Balance Responsible Party wants to buy gas from a**
110 **counter party at a virtual trading point and transport it from area A to**
111 **area B**

112 **3.2.1 Description**

113 **Description:** A Balance Responsible Party wants to buy gas from a counter party at a virtual
114 trading point and transport it from area A to area B.

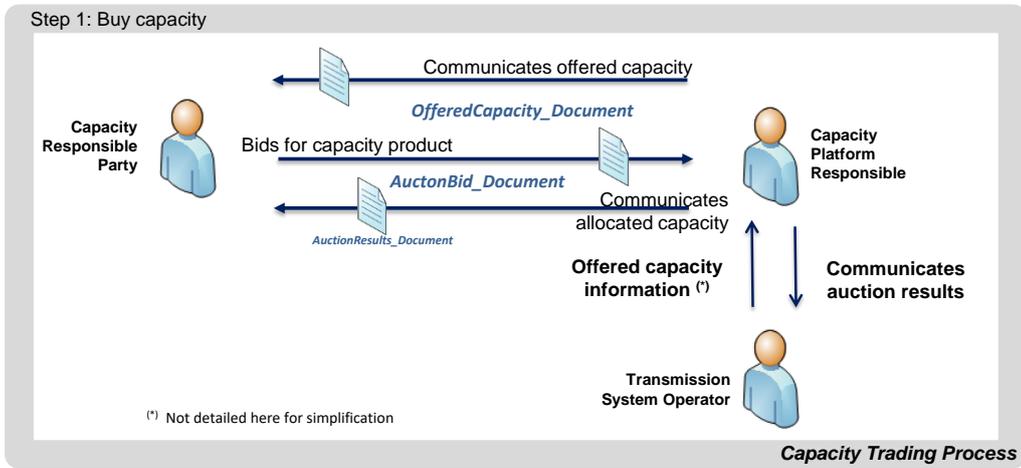
115 **Edig@s processes required:** Involves the Capacity Trading Process; Gas Trading Process;
116 Nomination and Matching Process.

117 In order to buy gas the following actions have to be carried out:

- 118 1. Purchase capacity at the interconnection point between the areas A and B in order to
119 reserve the space for the gas to be carried.
- 120 2. Purchase the gas to be carried at the virtual point of area A
- 121 3. Nominate at the VTP
- 122 4. Nominate the gas transport at the interconnection point to areas A and B.

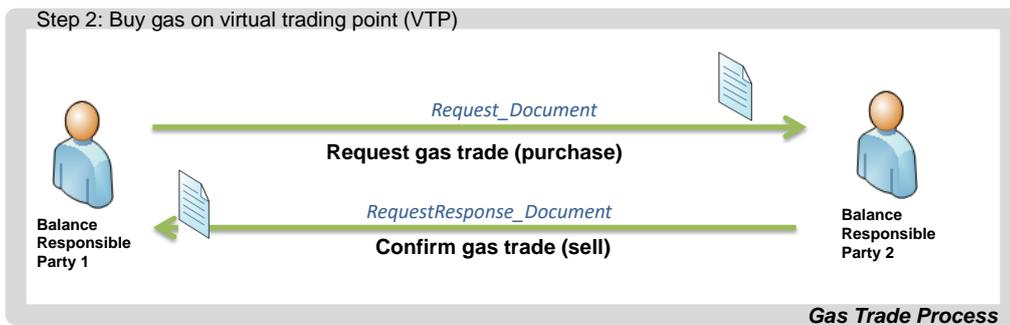
123 This involves the use of the following Edig@s processes.

- 124 1. The Capacity Trading Process (gas auction).
- 125 2. The Gas Trading Process (to identify where the gas is coming from over the counter
126 trading at a VTP).
- 127 3. The Nomination and Matching Process (VTP and IP).



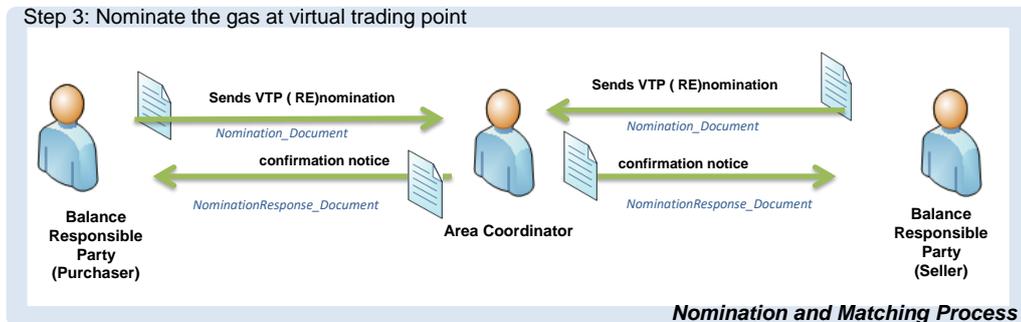
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Figure 5: Buy capacity



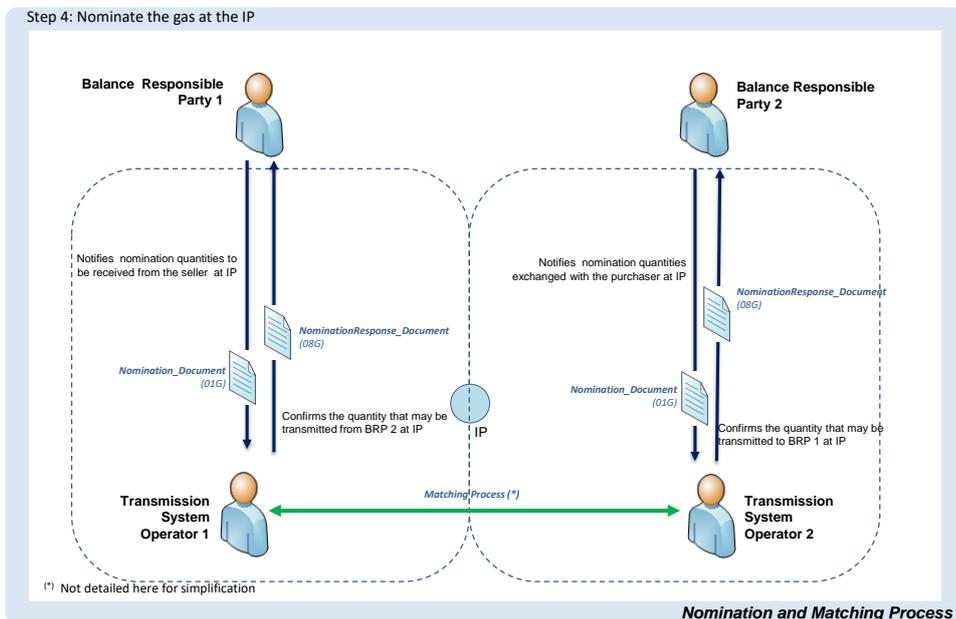
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Figure 6: Buy gas on virtual trading point



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134

Figure 7: Nominate the gas at virtual trading point



135
136

Figure 8: Nominate the gas at the interconnection point

137 **3.3 Scenario 3: A Balance Responsible Party wants to transport gas**
 138 **between two TSO areas to himself**

139 **3.3.1 Description**

140 **Description:** A Balance Responsible Party wants to transport gas between two TSO areas to
 141 himself.

142 **Edig@s processes required:** Involves the Nomination and Matching Process.

143 In order to transport gas between 2 market areas the following action has to be carried out:

- 144 1. Nominate the gas to be carried to each TSO (through 2 independent nominations or
 145 a single sided nomination)

146 This involves the use of the following Edig@s process.

- 147 1. The Nomination and Matching Process.

148 Note: The Balance Responsible Party already possesses the capacity.

149 **3.3.2 Simplified flow diagram**

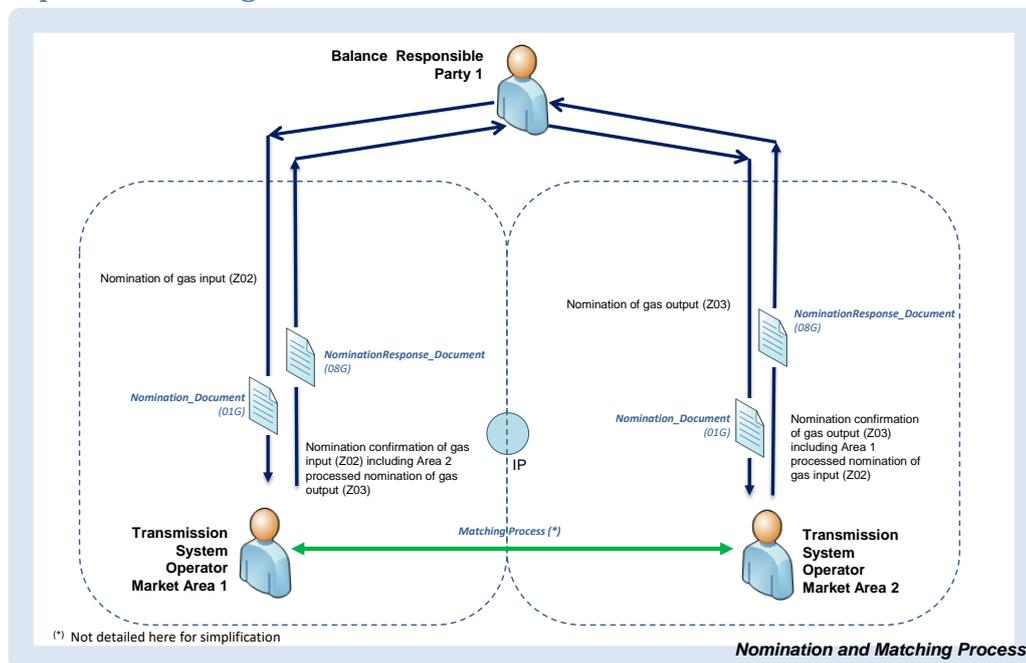


Figure 9: Nominate gas to himself

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152 **3.4 Scenario 4: A Balance Responsible Party wants to transport gas**
153 **between two TSO areas to another Balance Responsible Party**

154 **3.4.1 Description**

155 A Balance Responsible Party wants to transport gas between two TSO areas to another Balance
156 Responsible Party.

157 **Edig@s processes required:** Involves the Nomination and Matching Process.

158 In order to transport gas between 2 Balance Responsible Parties in different Market Areas the
159 following action has to be carried out:

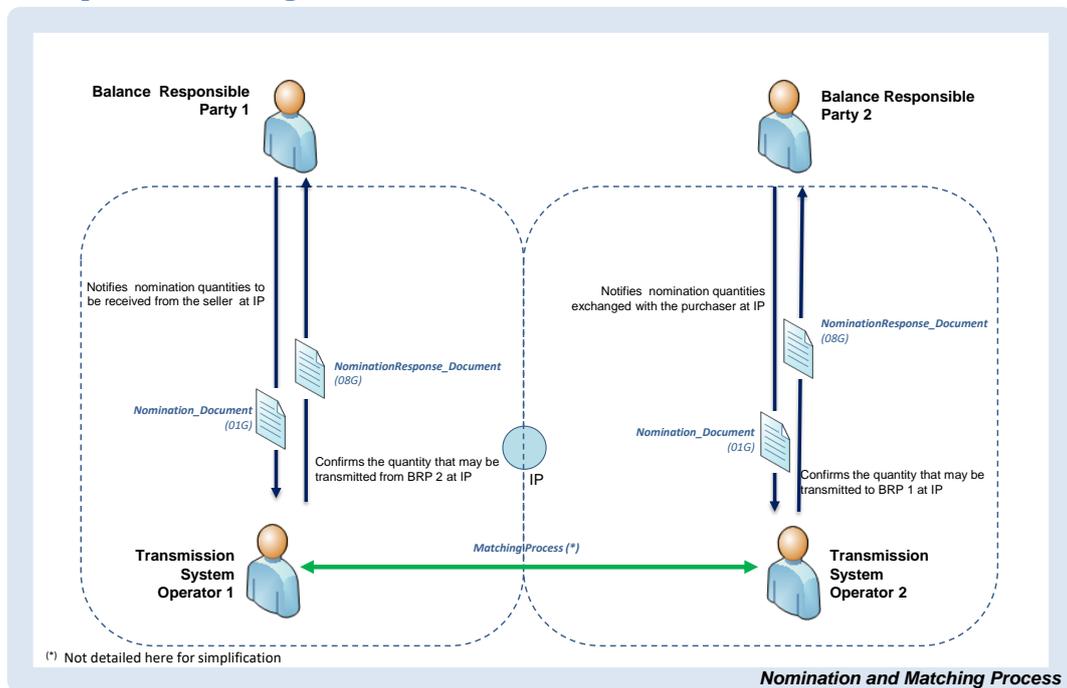
- 160 1. Each Balance Responsible Party has to nominate the gas to be carried to TSO of the
161 Market Area.

162 This involves the use of the following Edig@s process:

- 163 1. The Nomination and Matching Process.

164 Note: The Balance Responsible Parties already possess the capacity.

165 **3.4.2 Simplified flow diagram**



166
167

Figure 10: Nominate gas between different parties

168 **3.5 Scenario 5: A Balance Responsible Party wants to inject/withdraw gas**
169 **with a storage facility**

170 **3.5.1 Description**

171 **Description:** Balance Responsible Party wants to inject/withdraw gas with a storage facility

172 **Edig@s processes required:** Involves the Nomination and Matching Process.

173 In order to inject or withdraw gas to or from a storage facility the following action has to be
174 carried out:

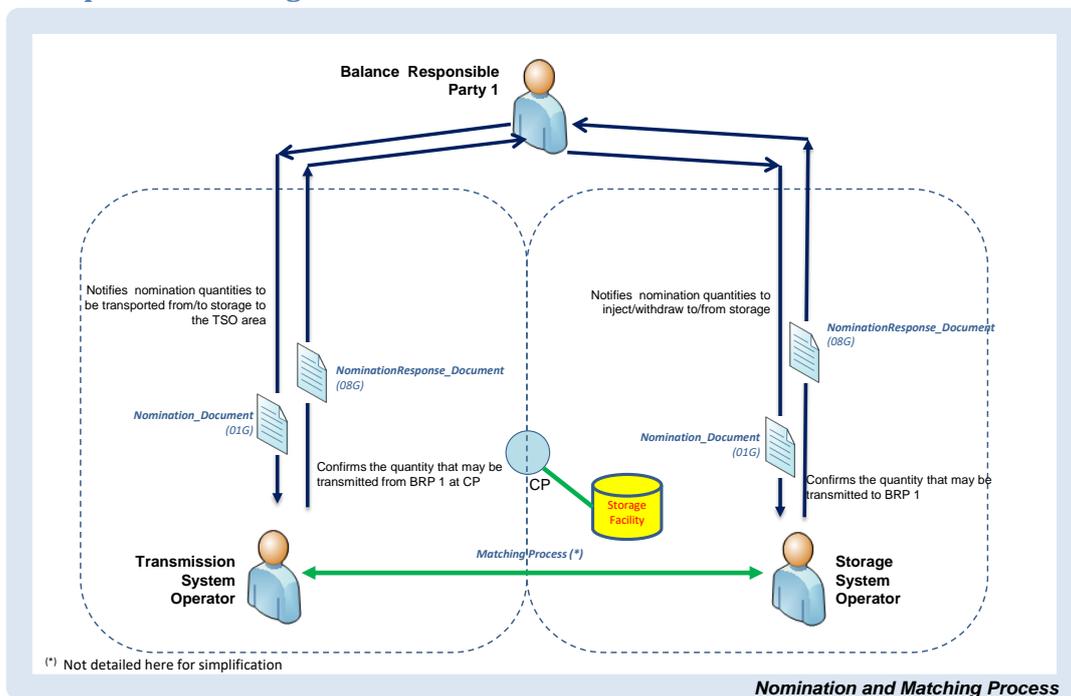
- 175 1. Nominate the gas to be carried on a storage facility connection point to the TSO
176 responsible for the connection point and to the Storage System Operator.

177 This involves the use of the following Edig@s process.

- 178 1. The Nomination and Matching Process.

179 Note: The Balance Responsible Party already possesses the capacity.

180 **3.5.2 Simplified flow diagram**



181
182

Figure 11: Nominate gas to or from a storage facility

183 **3.6 Scenario 6: A Balance Responsible Party wants to verify his balancing**
184 **situation**

185 **3.6.1 Description**

186 **Description:** A Balance Responsible Party wants to verify his balancing situation.

187 **Edig@s processes required:** Involves the Settlement Process.

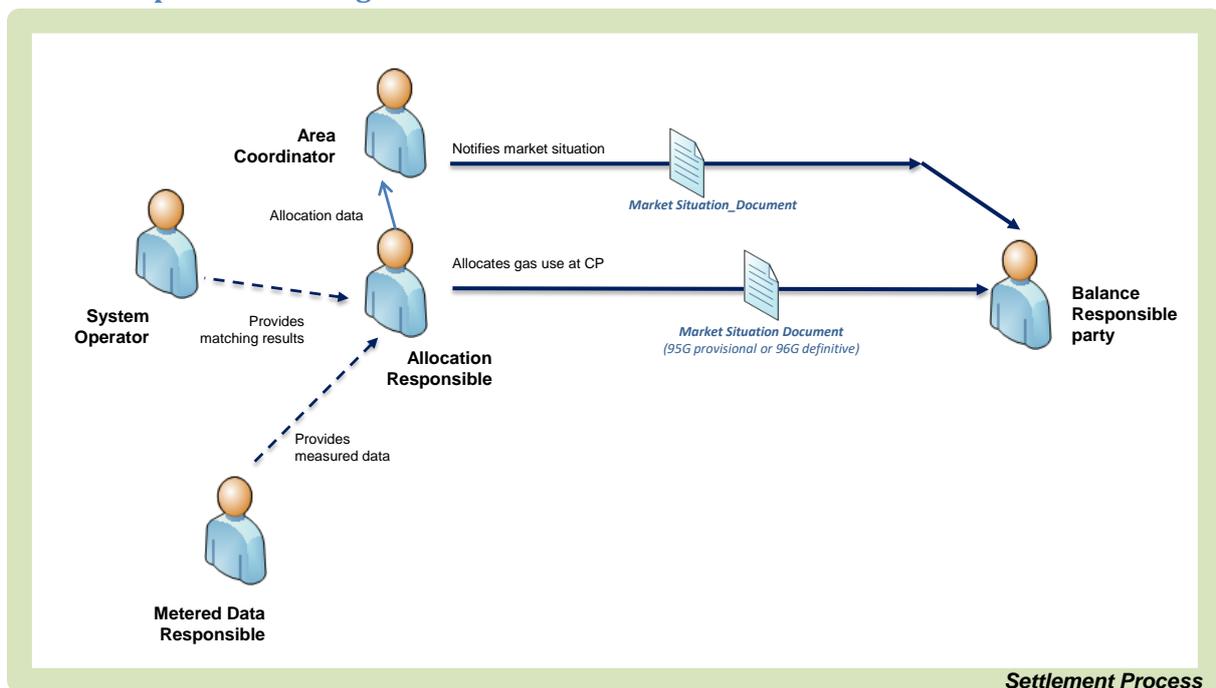
188 In order to verify a balancing situation the following actions have to be carried out:

- 189 1. The Allocation Responsible has to receive the metered data from the Metered Data
190 Responsible and the matching data from the System Operators in order to calculate
191 the allocation data.
192 2. The Area Coordinator has to receive the allocated data and determine the market
193 situation for Balance Responsible Parties.
194 3. The Balance Responsible Party has to receive the various market situation
195 documents from the Area Coordinator

196 This involves the use of the following Edig@s process.

- 197 1. The Settlement Process

198 **3.6.2 Simplified flow diagram**



199
200

Figure 12: Settlement

201 **3.7 Scenario 7: An Area Coordinator carries out a balancing action on the**
202 **market**

203 **3.7.1 Description**

204 **Description:** An Area Coordinator carries out a balancing action on the market.

205 **Edig@s processes required:** Involves the Balancing Process.

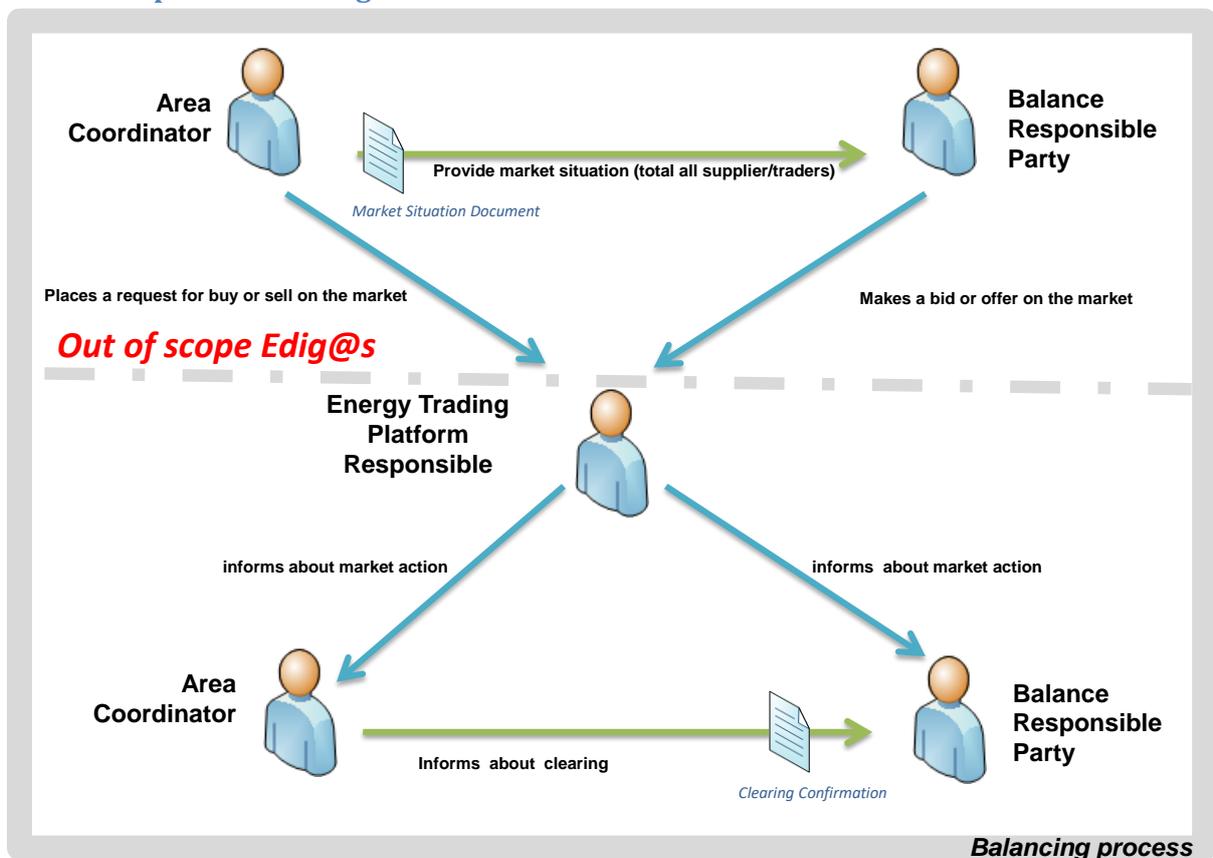
206 In order for an Area Coordinator to carry out a balancing action the following actions have to be
207 carried out:

- 208 1. The Area Coordinator makes a request to buy or sell on the market through an
- 209 energy trading platform.
- 210 2. Balance Responsible Parties make offers or bids on the market.
- 211 3. Trades are agreed between parties.
- 212 4. The energy trading platform informs the involved actors of the results of their
- 213 actions.

214 This involves the use of the following Edig@s process.

- 215 1. The Balancing Process

216 **3.7.2 Simplified flow diagram**



217
218

Figure 13: Balancing

219 **3.8 Scenario 8: A Balance Responsible Party wants to buy gas at an energy**
 220 **trading platform in order to balance his position**

221 **3.8.1 Description**

222 **Description:** A Balance Responsible Party wants to buy gas at an energy trading platform in order to
 223 balance his position.

224 **Edig@s processes required:** Involves the Nomination and Matching Process.

225 In order to buy gas the following action has to be carried out:

- 226 1. Task a Trader to purchase the gas from an energy trading platform

227 This involves the use of the following Edig@s process:

- 228 1. The Nomination and Matching Process

229 **3.8.2 Simplified flow diagram**

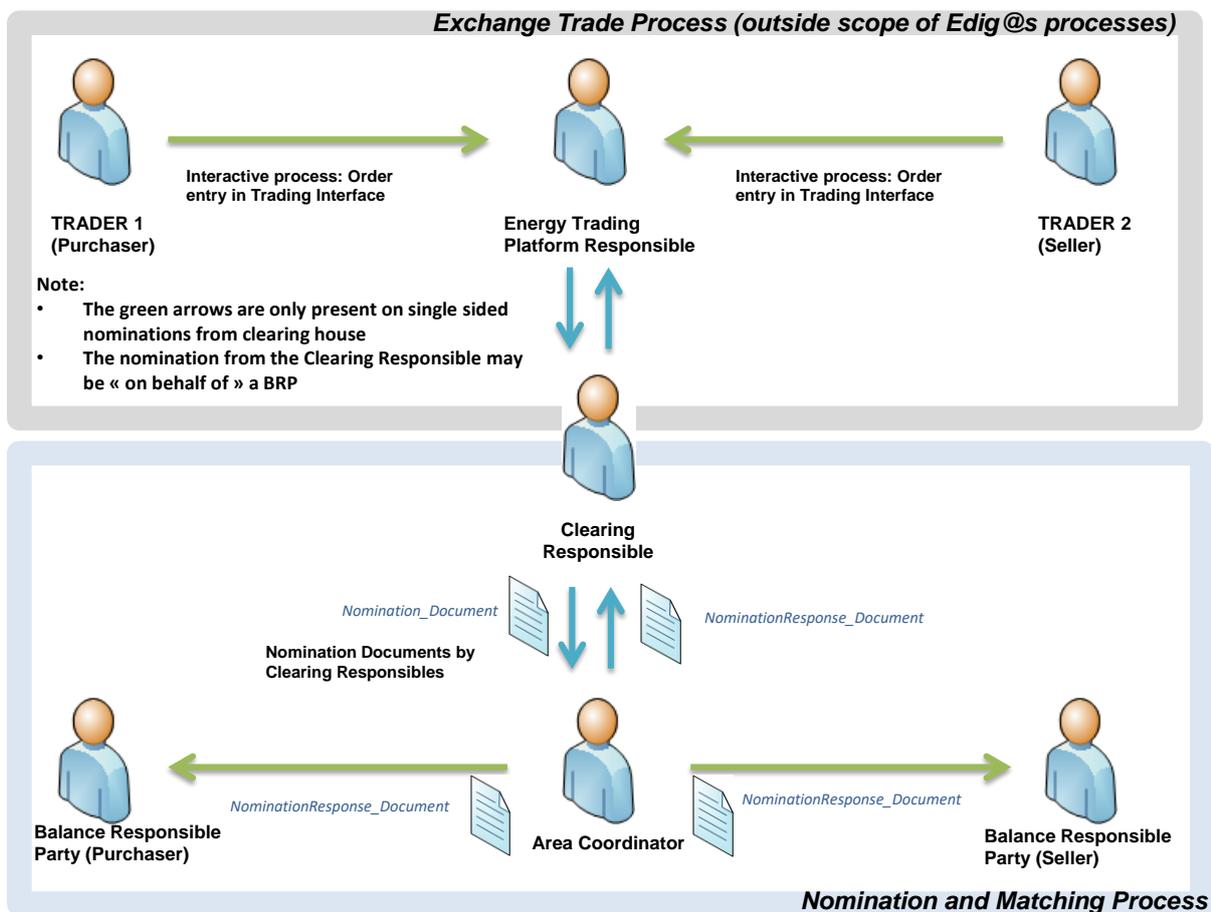


Figure 14: Nomination and matching

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232 **3.9 Scenario 9: A market participant wants to report concluded**
 233 **transactions via the REMIT Process**

234 **3.9.1 Description**

235 **Description:** Market participant (Capacity Responsible Party, Transmission System Operator) wants
 236 to report concluded transactions via the REMIT Process.

237 **Edig@s processes required:** Involves the REMIT Process.

238 In order to report concluded transactions via the REMIT Process the following actions have to be
 239 carried out:

- 240 1. Report secondary market (FCFS, CFO and OTC) capacity trade results to the Market
- 241 Information Aggregator
- 242 2. Report capacity auction results to the Market Information Aggregator

243 **3.9.2 Simplified flow diagram**

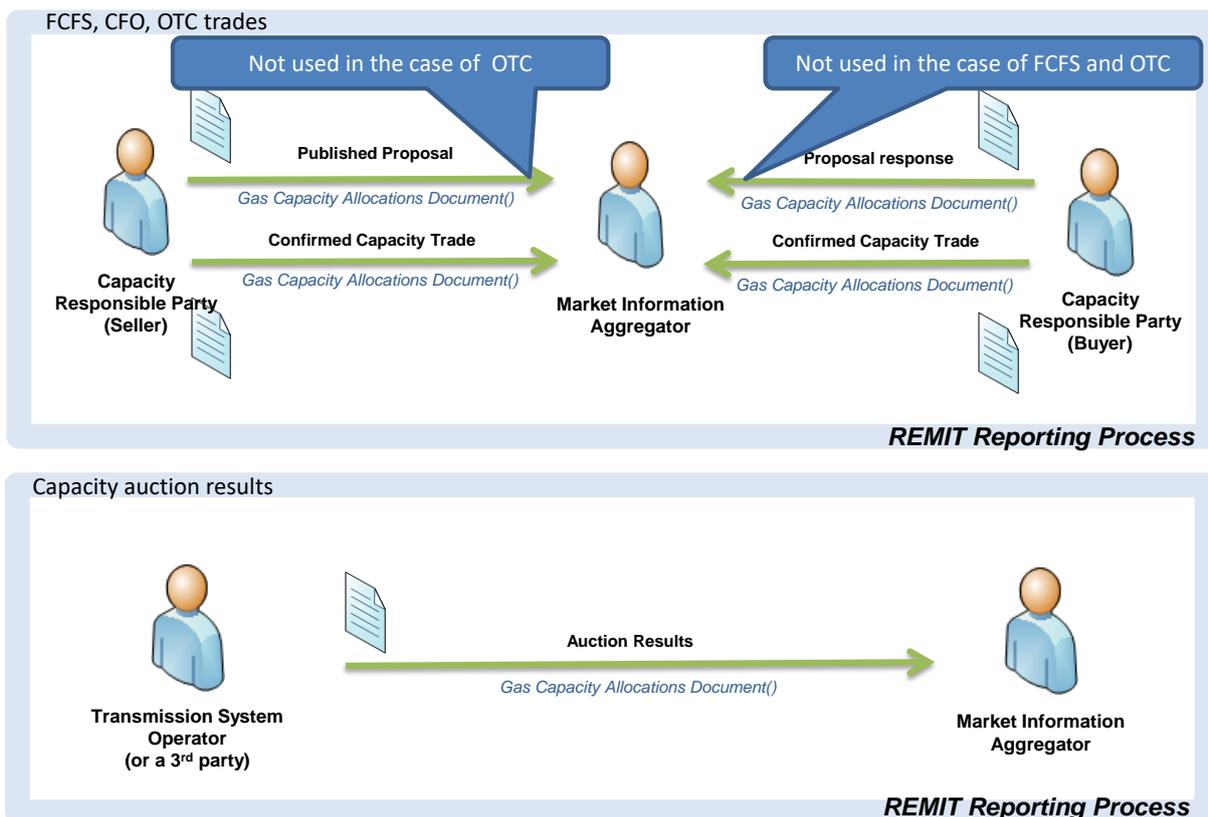


Figure 15: REMIT

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246 **4 Document change log**

Package	Version	Date	Description
5.1	1	2018-02-15	Initial release

247