

1

1

Harmonised Gas Role Model Documentation

2

Draft for review
2016-04-28

3

3

Table of contents

4	1	Role Model Detail.....	4
5	1.1	Harmonised Gas Role Model.....	4
6	1.1.1	How the role model was developed.....	4
7	1.1.2	Explanation of roles and parties.....	4
8	1.1.3	How to read the role model, how is it structured.....	4
9	2	Overview of role model.....	5
10	2.1	Allocation Responsible active and passive.....	6
11	2.2	Area Coordinator active and passive.....	7
12	2.3	Balance Responsible Party active and passive.....	8
13	2.4	Balancing Energy Responsible active and passive.....	9
14	2.5	Capacity Responsible Party active and passive.....	10
15	2.6	Capacity Platform Responsible active and passive.....	11
16	2.7	Clearing Responsible active and passive.....	12
17	2.8	Distribution System Operator active and passive.....	13
18	2.9	Energy Trading Platform Responsible active and passive.....	14
19	2.10	Final Customer passive.....	15
20	2.11	LNG System Operator active and passive.....	16
21	2.12	Market Information Aggregator passive.....	17
22	2.13	Metered Data Responsible active and passive.....	18
23	2.14	Meter Operator active.....	19
24	2.15	Production System Operator active and passive.....	20
25	2.16	Reconciliation Responsible active and passive.....	21
26	2.17	Storage System Operator active and passive.....	22
27	2.18	Supplier active and passive.....	23
28	2.19	Trader active and passive.....	24
29	2.20	Transmission System Operator active and passive.....	25

30

5

Table of figures

31		
32	Figure 1: Overview of the Role Model.....	5
33	Figure 2: Allocation Responsible.....	6
34	Figure 3: Area Coordinator.....	7
35	Figure 4: Balance Responsible Party passive.....	8
36	Figure 5: Balance Responsible Party active.....	8
37	Figure 6: Balancing Energy Responsible.....	9
38	Figure 7: Capacity Responsible Party.....	10
39	Figure 8: Capacity Platform Responsible.....	11
40	Figure 9: Clearing Responsible.....	12
41	Figure 10: Distribution System Operator.....	13
42	Figure 11: Energy Trading Platform Responsible.....	14
43	Figure 12: Final Customer.....	15
44	Figure 13: LNG System Operator.....	16
45	Figure 14: Market Information Aggregator.....	17
46	Figure 15: Metered Data Responsible.....	18
47	Figure 16: Meter Operator.....	19
48	Figure 17: Production System Operator.....	20
49	Figure 18: Reconciliation Responsible.....	21
50	Figure 19: Storage System operator.....	22
51	Figure 20: Supplier.....	23
52	Figure 21: Trader.....	24
53	Figure 22: Transmission System Operator passive.....	25
54	Figure 23: Transmission System Operator active.....	25
55		

56 1 Role Model Detail

57 This document provides an overview of the harmonised gas role model.

58 1.1 Harmonised Gas Role Model

59 The Role Model has been developed to represent interactions between different market participants in the gas
60 industry. The main focus of this document is on information exchange between market participants (excluding
61 contractual relations). While this document is not legally binding, the aim is to provide a common terminology
62 for the roles that are used among EU countries.

63 The Model is only applicable for the Gas Market and not for other Energy segments. It has been developed by
64 Easee-gas with input from ENTSOG and Eurogas.

- 65 • Focus has been set on generic roles and not on local and national particularities.
- 66 • In the current version of this document, the number of roles has been restricted in order to ensure a
67 good understanding for the readers.
- 68 • Edigas version 6 and subsequent versions containing the Message Implementation Guidelines are going
69 to use the roles and interactions defined in the role model.

70 1.1.1 How the role model was developed

71 Roles were selected based on the existing descriptions of business processes in the gas market (ENTSOG BRS;
72 EASEE-GAS CBP and MIG as well as Task Force participant input). European regulations and common aspects
73 of national regulations were also considered.

74 For the identified roles, interactions were selected based on their need for common communication with other
75 roles. Legal aspects (e.g. contractual relations) were not taken into account.

76 Network User/Shipper: Such roles are important within the gas market. However in many instances there is a
77 very heavy overlap between them especially at the different levels of operation. In order to eliminate such
78 confusion it was decided to employ the terms Balance Responsible Party and Capacity Responsible Party in
79 their place.

80 LNG / Storage / Production plants: The model stops at the level of LNG Operator / Storage Operator /
81 Production System Operator and will not go behind this. If it appears necessary, detailing activities beyond these
82 points should be kept for a future version of the role model.

83 1.1.2 Explanation of roles and parties

84 A role represents the external intended behaviour of a party. Parties cannot share a role. Businesses carry out
85 their activities by performing roles, e.g. System Operator, Trader. Roles describe external business interactions
86 with other parties in relation to the goal of a given business transaction.

87 A party on the market may play several roles, for example a System Operator may play both the role of Area
88 Coordinator and the role of TSO. However two different roles have been defined since these roles are not
89 always played by the same party.

90 The different roles and interactions have been identified within the current business process at a certain moment
91 of time. Any evolution or change in these processes could lead to an update of the Role Model.

92 1.1.3 How to read the role model, how is it structured

93 Figure 1 provides an overview of the role model diagram. It presents all of the roles and, in order to facilitate
94 readability, only some of the principle interactions between them. The diagram should help to provide a general
95 overview of the role model. For more detailed information, specific diagrams are provided that represent a view
96 of each role and the principle information flows that may occur with other roles. There are three different types
97 of view provided:

- 98 1. A view that is termed "passive" where only the interactions that are going "to" the role being described
99 are present.
- 100 2. A view that is termed "active" where only the interactions that are going "from" the role being
101 described are present.
- 102 3. A view that contains both the passive and active interactions.

103 Initially the role model was created with a passive and an active view for each role. These views were developed
104 in order to provide a clear picture of the interactions. However, in some circumstances there may only be one of
105 the views in the case where the opposing view is not significant. The "general" view is now provided for most of
106 the roles, lying focus on simplicity and readability.

9

107 2 Overview of role model

108 The overview provides a perspective of the role model making use of only one interaction between each role in order to avoid clutter in the diagram. The interaction chosen
109 may not necessarily be significant to some but the objective is simply to place the roles in the diagram.

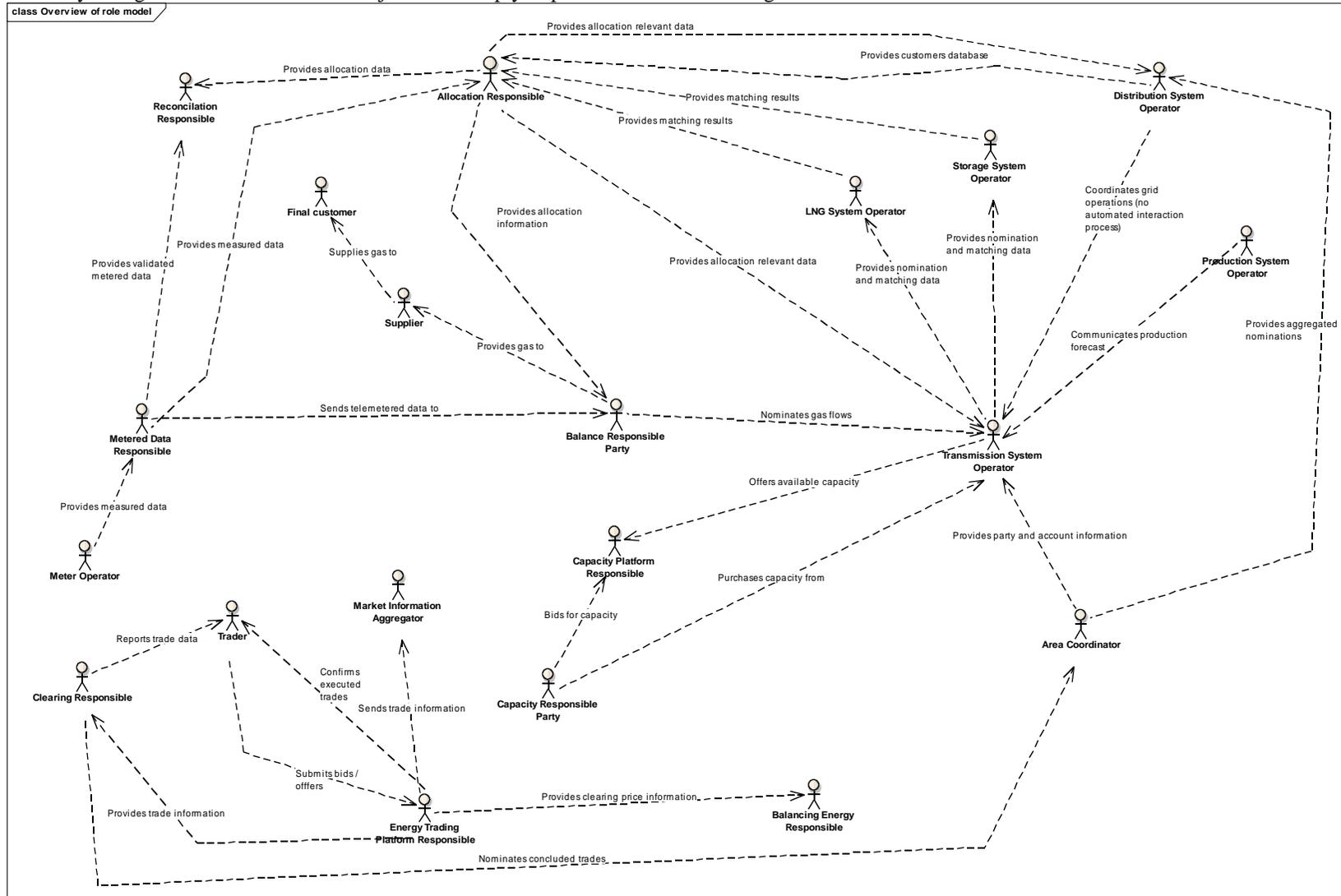


Figure 1: Overview of the Role Model

110
111

11

112 **2.1 Allocation Responsible active and passive**

113

114

RoleName Allocation Responsible

RoleDescription A party allocating energy to portfolios based on agreed procedures.

115

116

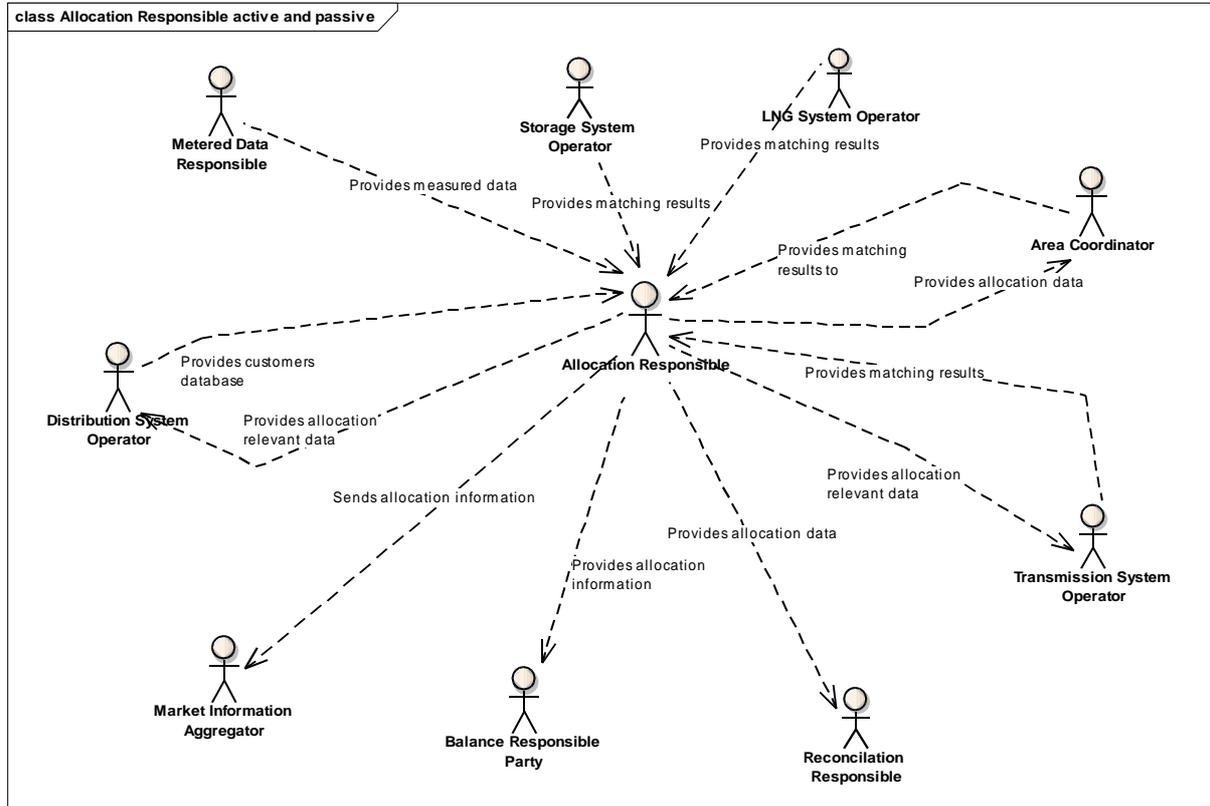


Figure 2: Allocation Responsible

117

118

13

119 2.2 Area Coordinator active and passive

120

121

RoleName Area Coordinator

RoleDescription A party with coordinating functions in the transmission and/or distribution system and responsibilities for the management of balancing groups, system balancing activities and/or the provision of data (for example settlement and balancing information). Other duties and responsibilities might be stipulated in the respective national laws.

Additional information:

In some countries some additional duties might be assumed by the area coordinator, for instance: Coordination of infrastructure planning and maintenance activities, congestion management,...

122

123

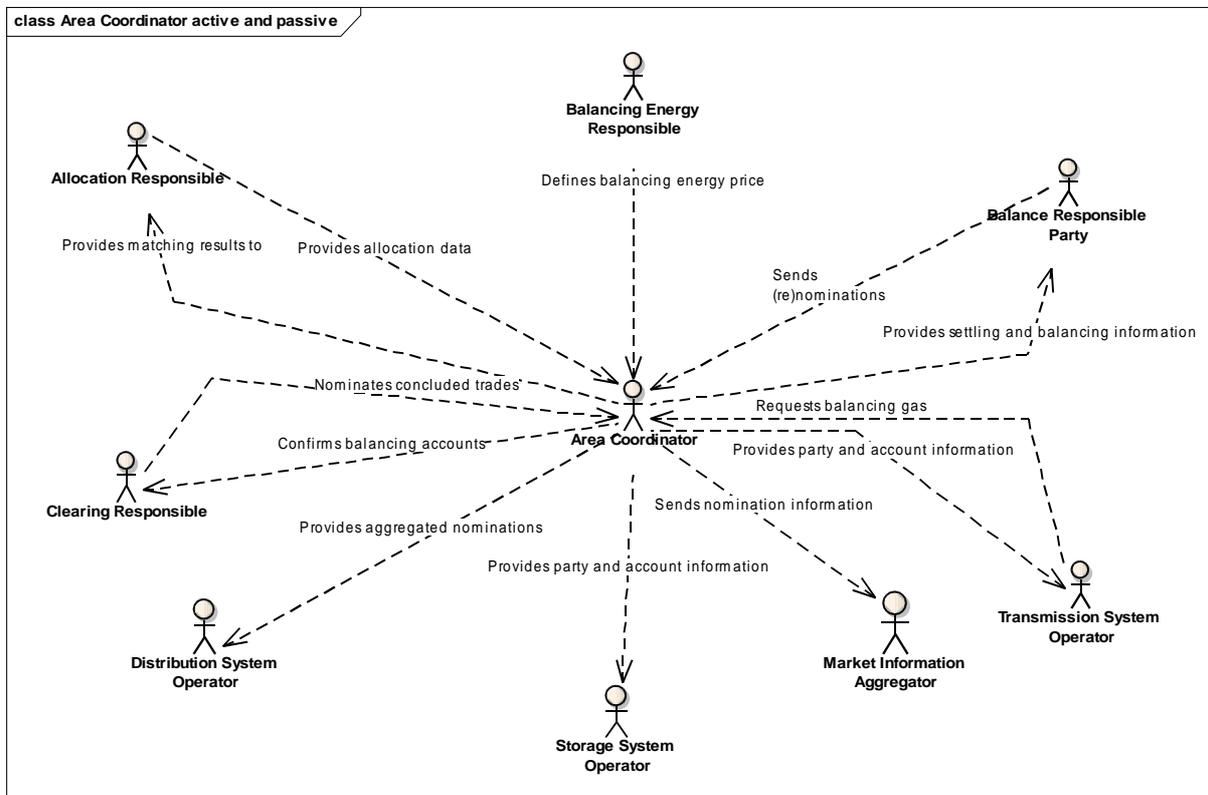


Figure 3: Area Coordinator

124

125

15

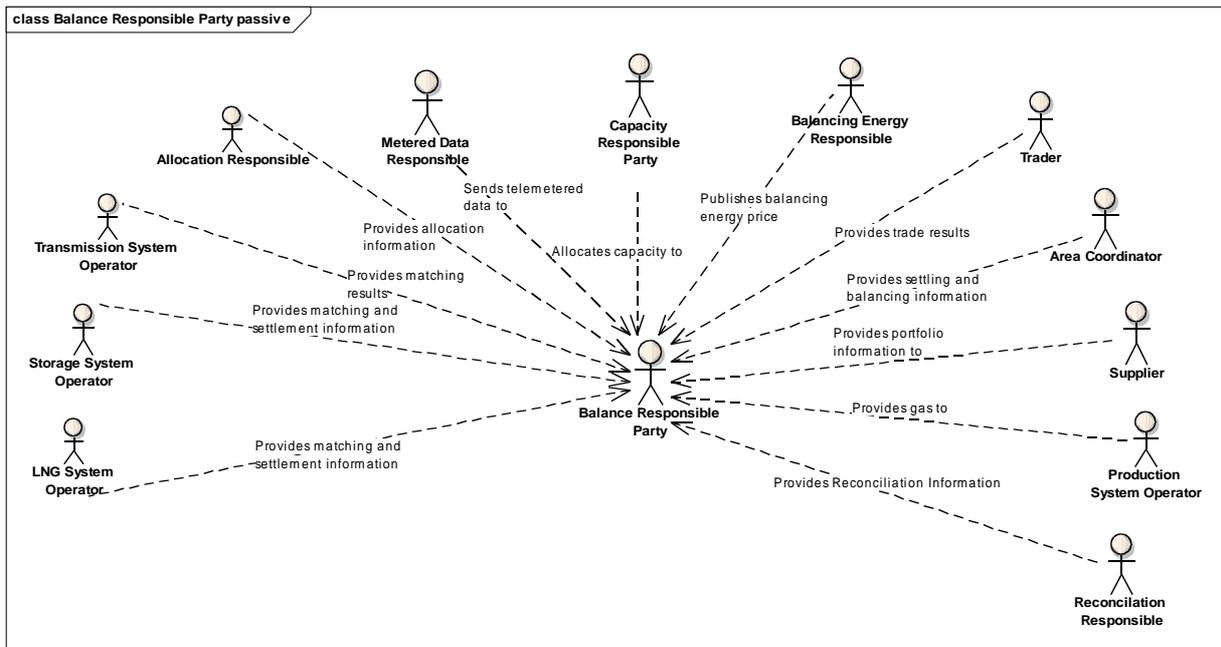
2.3 Balance Responsible Party active and passive

126
127
128

RoleName Balance Responsible Party

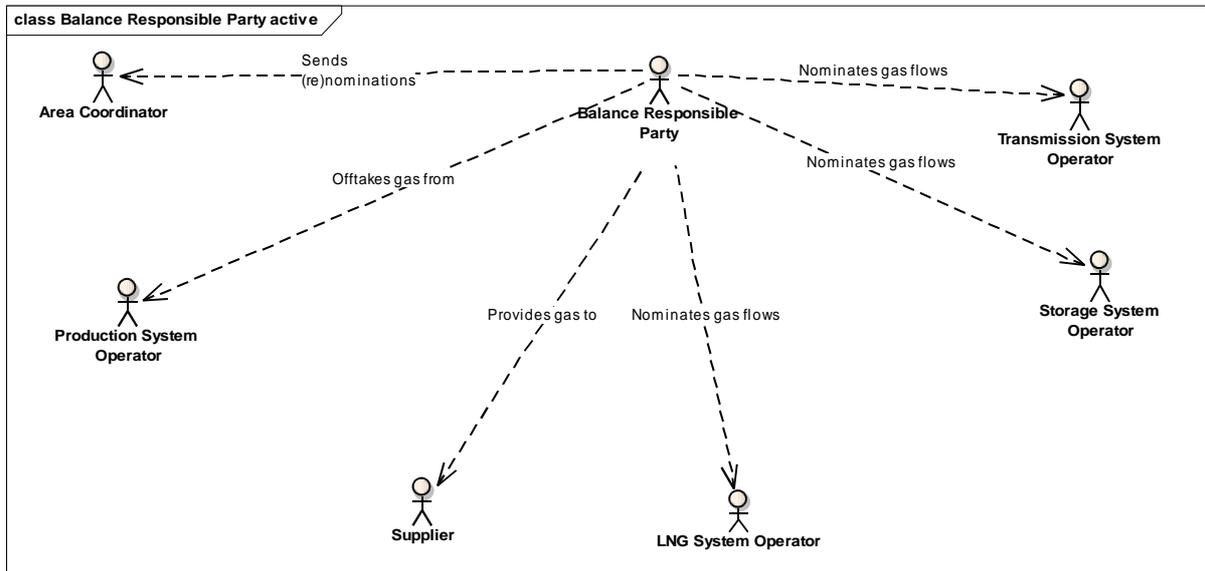
RoleDescription A party that manages its own portfolio and/or the portfolios on behalf of other parties and is financially responsible for the account imbalance.

129
130



131
132
133

Figure 4: Balance Responsible Party passive



134
135
136

Figure 5: Balance Responsible Party active

17

137 2.4 Balancing Energy Responsible active and passive

138

139

RoleName Balancing Energy Responsible
RoleDescription A party responsible for the price formation for balancing energy in the network.

140

141

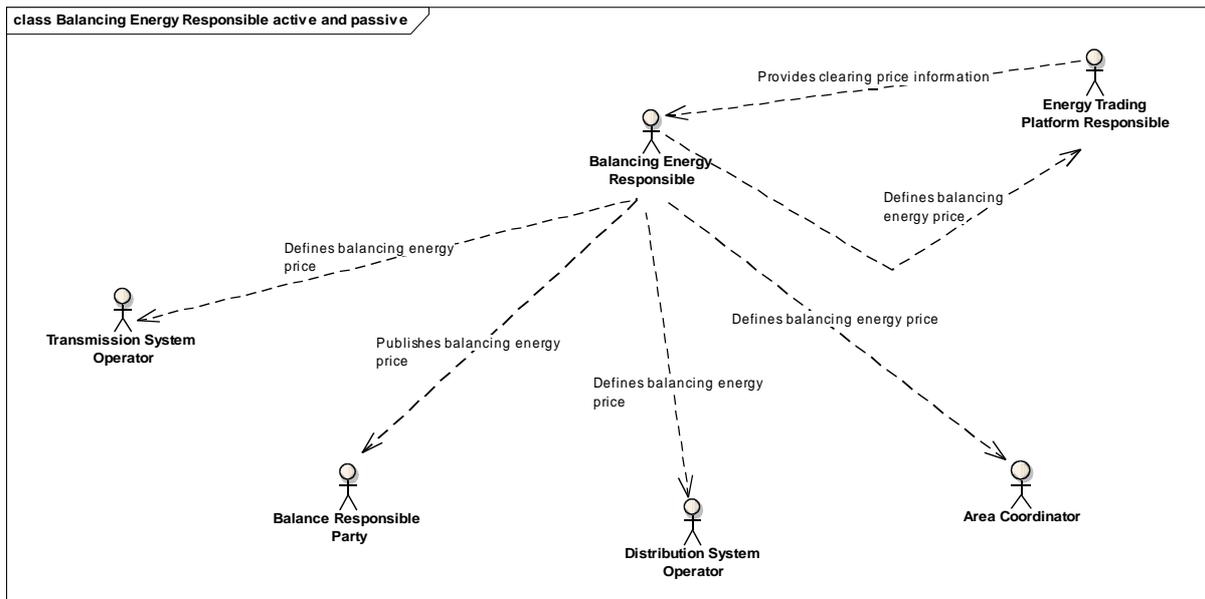


Figure 6: Balancing Energy Responsible

142

143

144

19

145 2.5 Capacity Responsible Party active and passive

146

147

RoleName Capacity Responsible Party
RoleDescription A party that employs the System Operator to transport the gas.

148

149

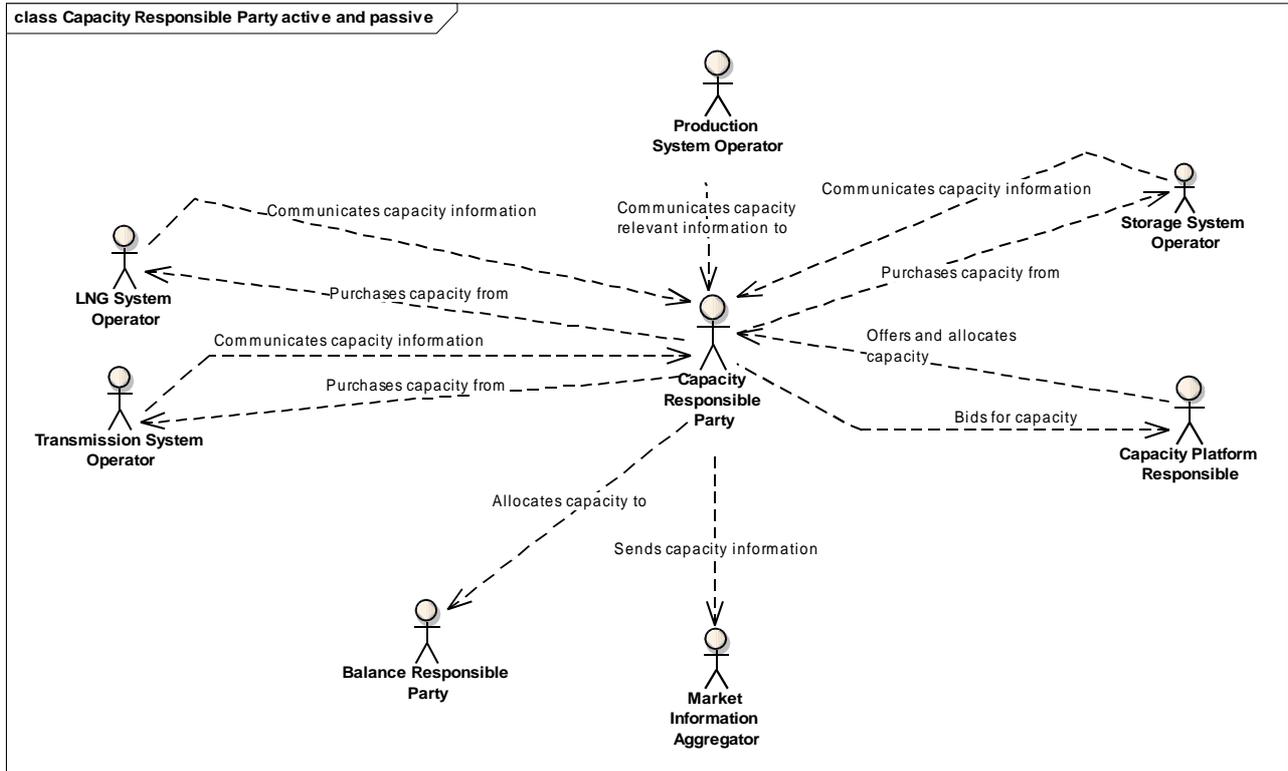


Figure 7: Capacity Responsible Party

150

151

152

21

153 2.6 Capacity Platform Responsible active and passive

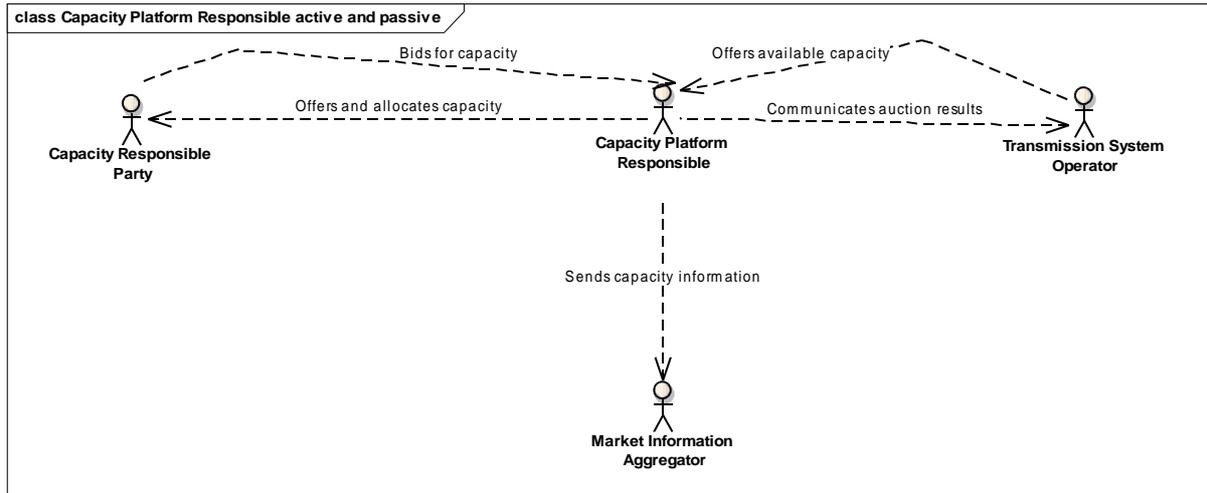
154

155

RoleName Capacity Platform Responsible
RoleDescription A party providing and operating a platform that implements the rules and processes for offering and allocation of all capacity products and/or may permit Capacity Responsible Parties to offer and obtain secondary capacity products.

156

157



158

159

Figure 8: Capacity Platform Responsible

23

160 **2.7 Clearing Responsible active and passive**

161

162

RoleName Clearing Responsible
 RoleDescription A party being a clearing house active as a network user to settle trades concluded on the Energy Trading platform or trades registered directly at the Central Counterparty for clearing by means of special rights as single sided or on-behalf nominations.

Additional information:
 A Clearing Responsible nominates gas based on concluded transactions on the Energy Trading Platform for the relevant Traders to the relevant Area Coordinator via the relevant Balance Responsible Party.

163

164

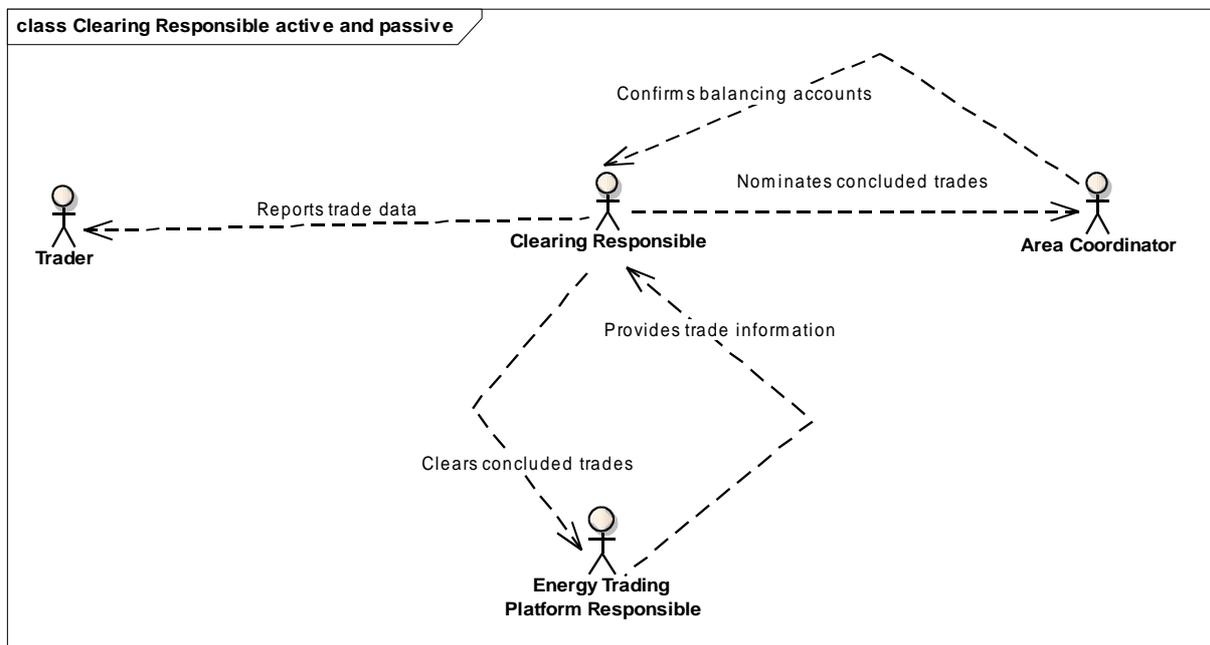


Figure 9: Clearing Responsible

165

166

167

25

168 2.8 Distribution System Operator active and passive

169

170

RoleName Distribution System Operator
RoleDescription A party who carries out the function of distribution and is responsible for operating, ensuring the maintenance of, and, if necessary, developing the distribution system in a given area and, where applicable, its interconnections with other systems, and for ensuring the long-term ability of the system to meet reasonable demands for the distribution of gas (This definition can be found in the Directive 73/2009).

171

172

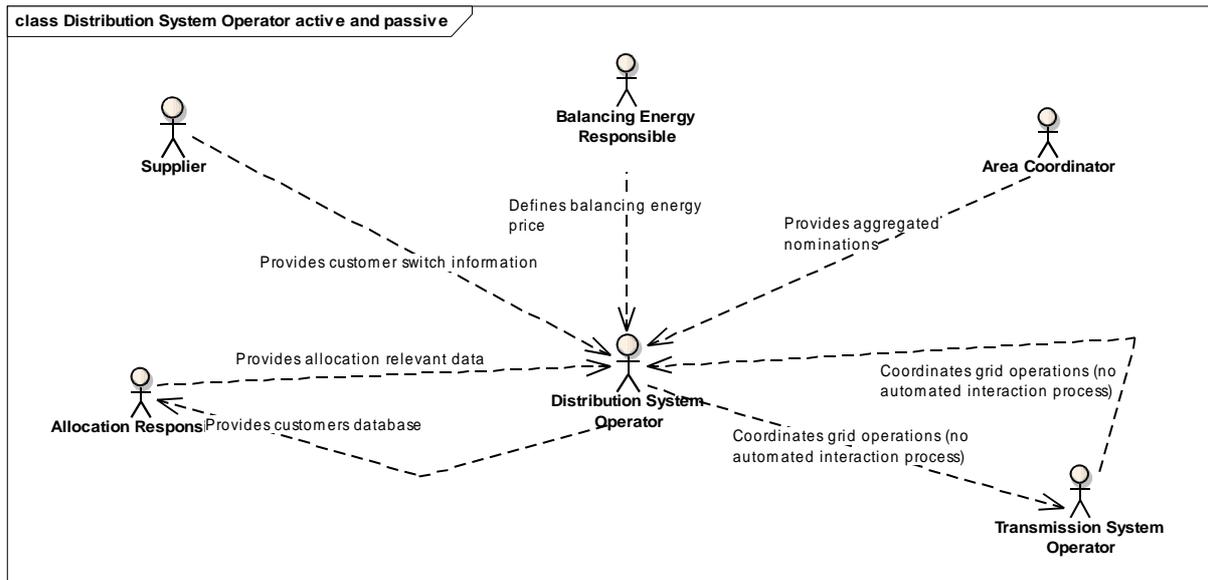


Figure 10: Distribution System Operator

173

174

175

27

176 2.9 Energy Trading Platform Responsible active and passive

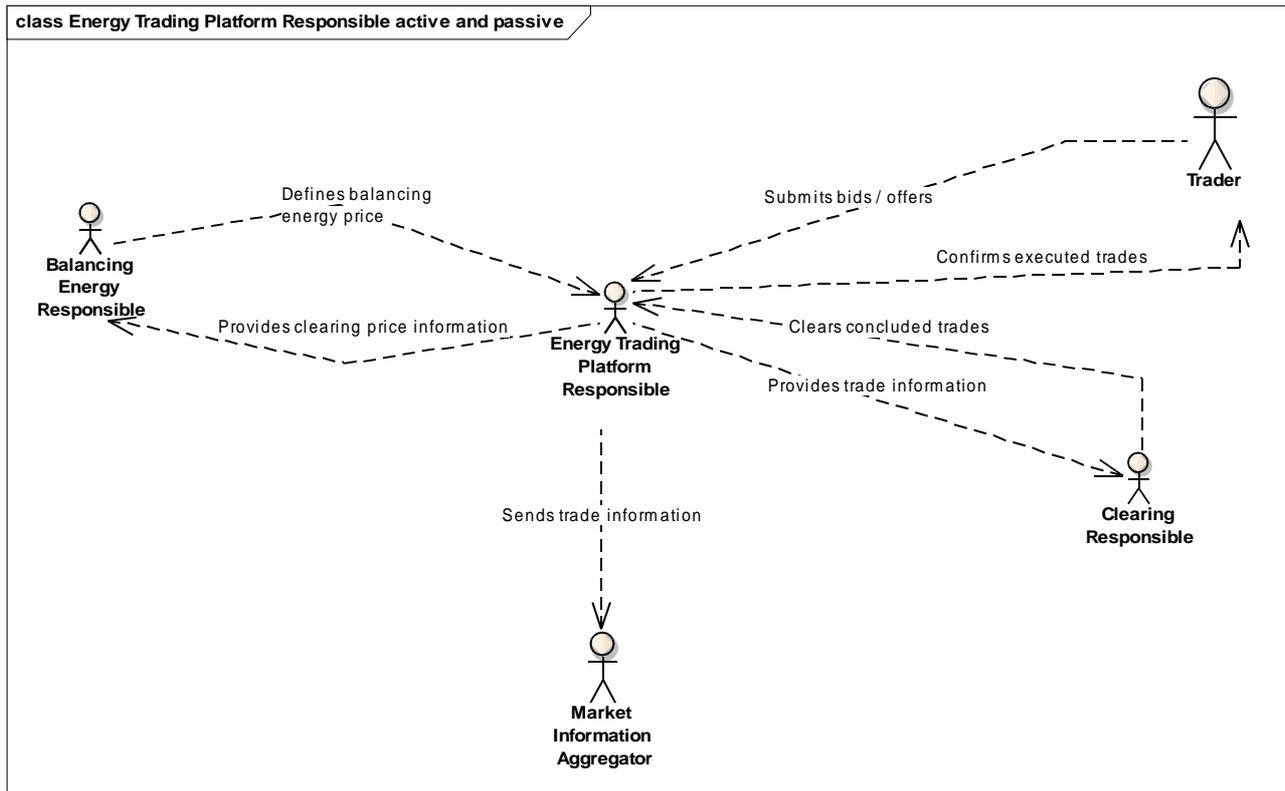
177

178

RoleName Energy Trading Platform Responsible
RoleDescription A party providing and operating a platform by means of which trading participants may post and accept bids and offers for gas in accordance with the terms and conditions applicable on the trading platform.

179

180



181

182

183

Figure 11: Energy Trading Platform Responsible

29

184 **2.10 Final Customer passive**

185

186

RoleName Final customer
 RoleDescription A party purchasing gas for its own use. (This definition can be found in the Directive 73/2009).

Additional information:
 Includes gas consumers and electricity producer. Same as "end-user" in other documents.

187

188

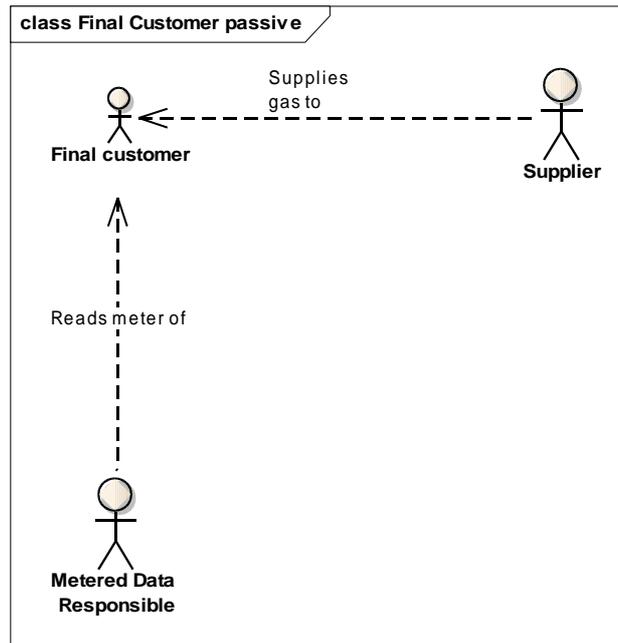


Figure 12: Final Customer

189

190

191

31

192 **2.11 LNG System Operator active and passive**

193

194

RoleName LNG System Operator
 RoleDescription A party who carries out the function of liquefaction of natural gas, or the offloading, and re-gasification of LNG and is responsible for operating a LNG facility. (This definition can be found in the Directive 73/2009).

195

196

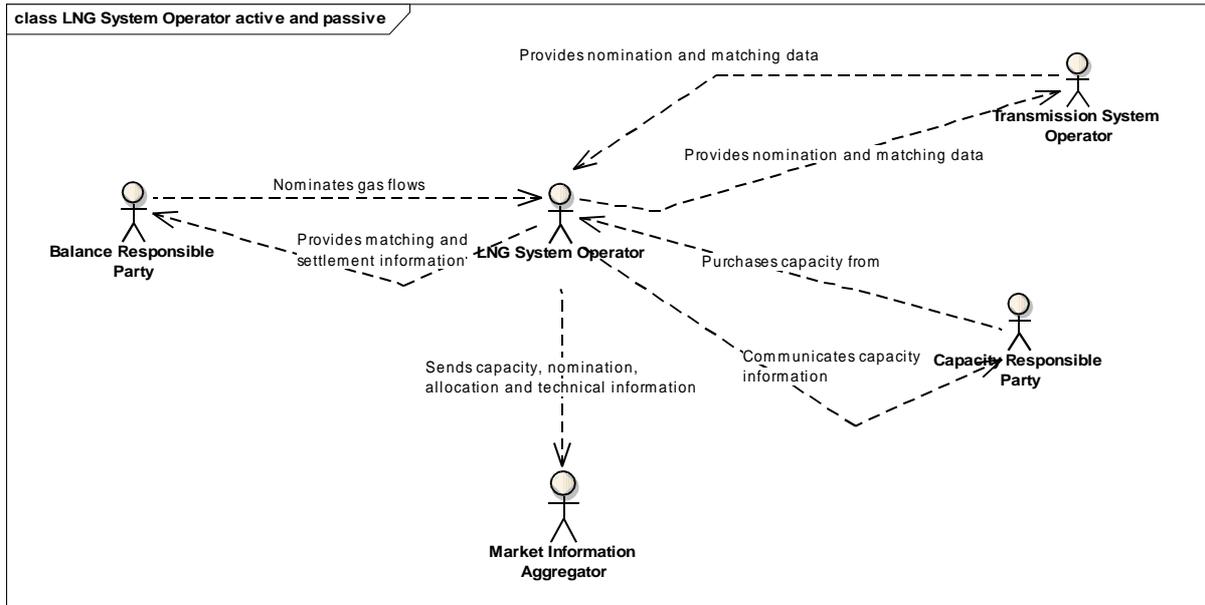


Figure 13: LNG System Operator

197

198

199

33

2.12 Market Information Aggregator passive

200
201
202

RoleName Market Information Aggregator
RoleDescription A party that receives market related information that has been compiled from the figures supplied by different actors in the market. This Information may also be published or distributed for general use. It could be EU regulator, national regulator, ENTSOG as transparency platform responsible, TSO/SSO/LSO's transparency platform, ...

203
204

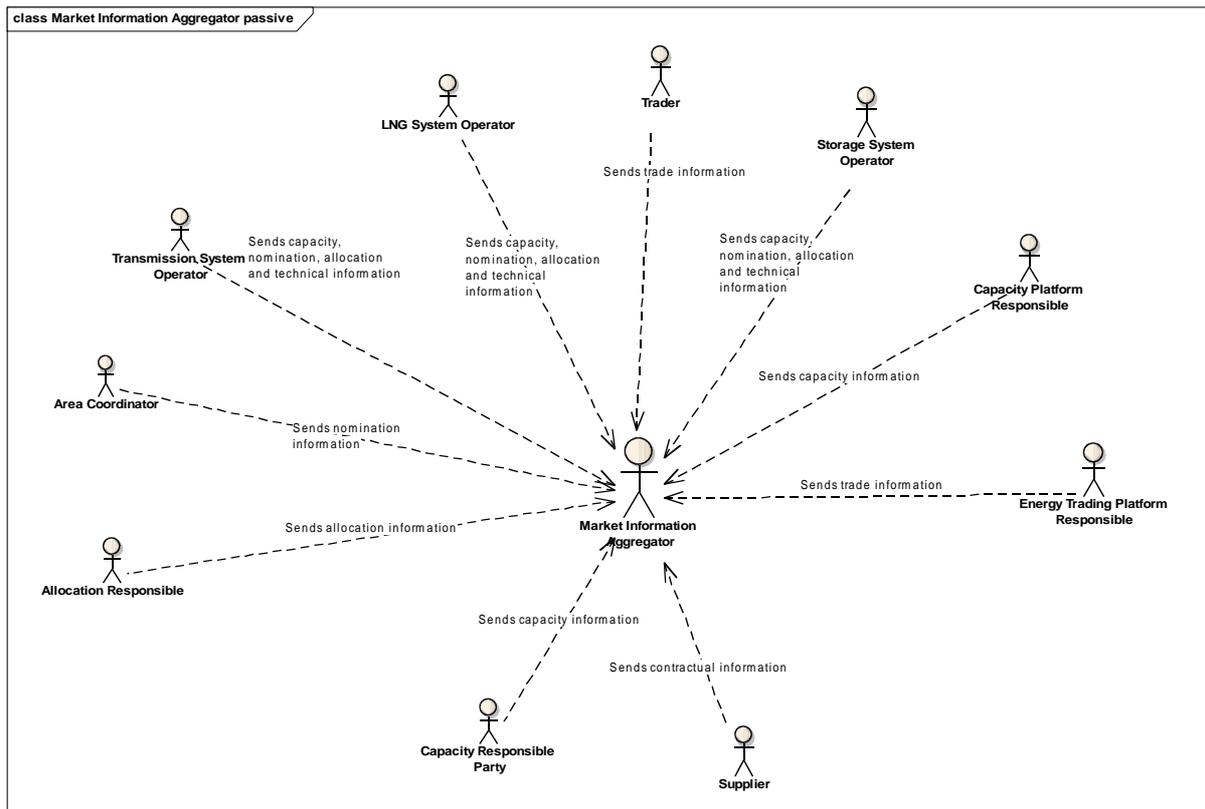


Figure 14: Market Information Aggregator

205
206
207

35

2.13 Metered Data Responsible active and passive

208

209

210

RoleName Metered Data Responsible
RoleDescription A party responsible for the collection, validation, aggregation and making available metered data.

211

212

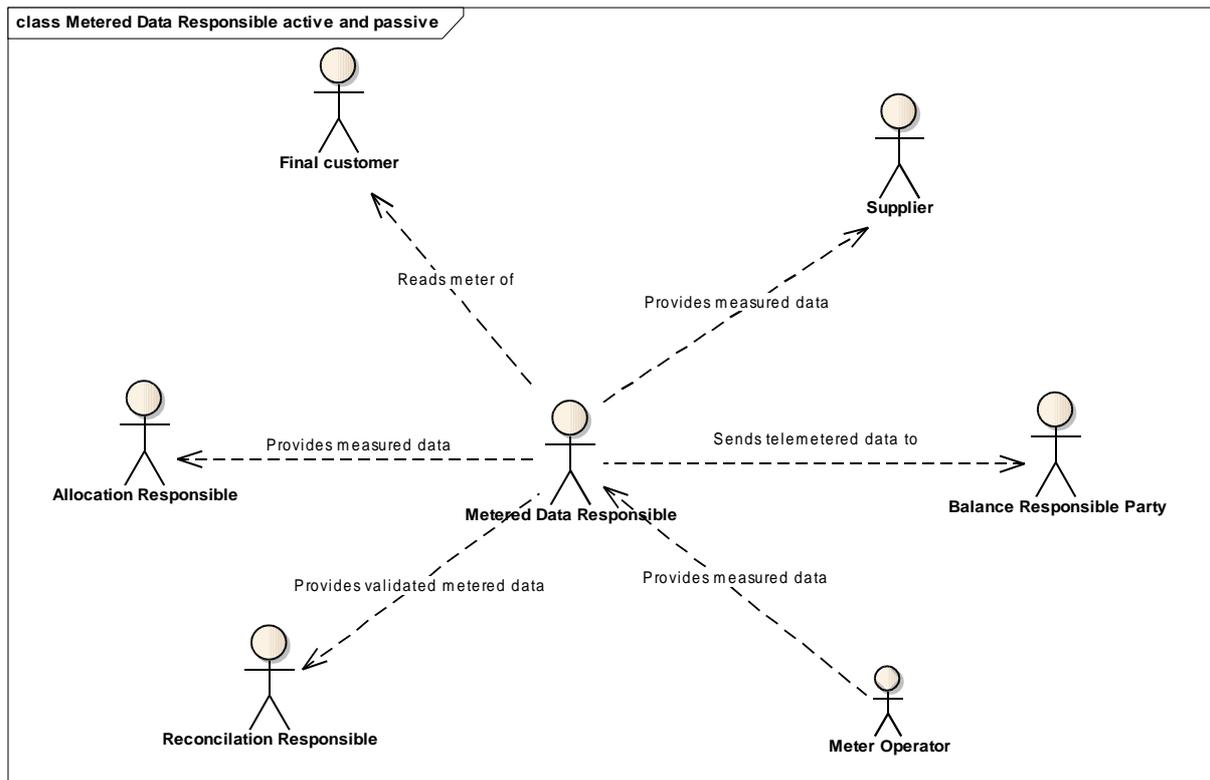


Figure 15: Metered Data Responsible

213

214

37

215 **2.14 Meter Operator active**

216

217

RoleName	Meter Operator
RoleDescription	A party responsible for installing, maintaining, testing, certifying and decommissioning physical meters.

218

219

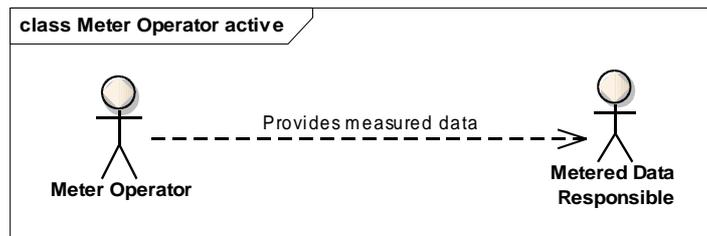


Figure 16: Meter Operator

220

221

39

222 **2.15 Production System Operator active and passive**

223

224

RoleName Production System Operator

RoleDescription A party that manages gas production within a production facility.

225

226

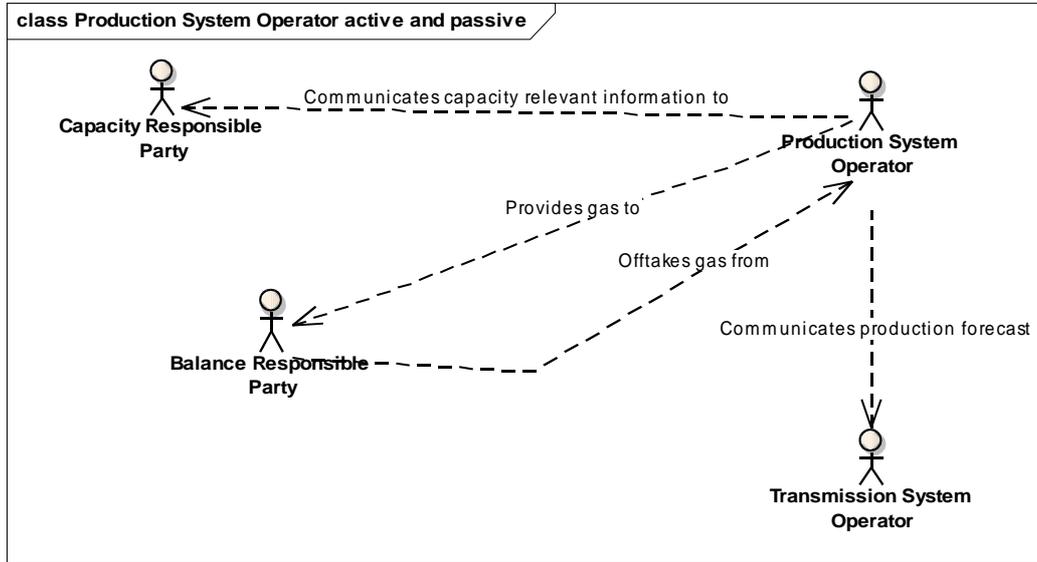


Figure 17: Production System Operator

227

228

229

41

230 2.16 Reconciliation Responsible active and passive

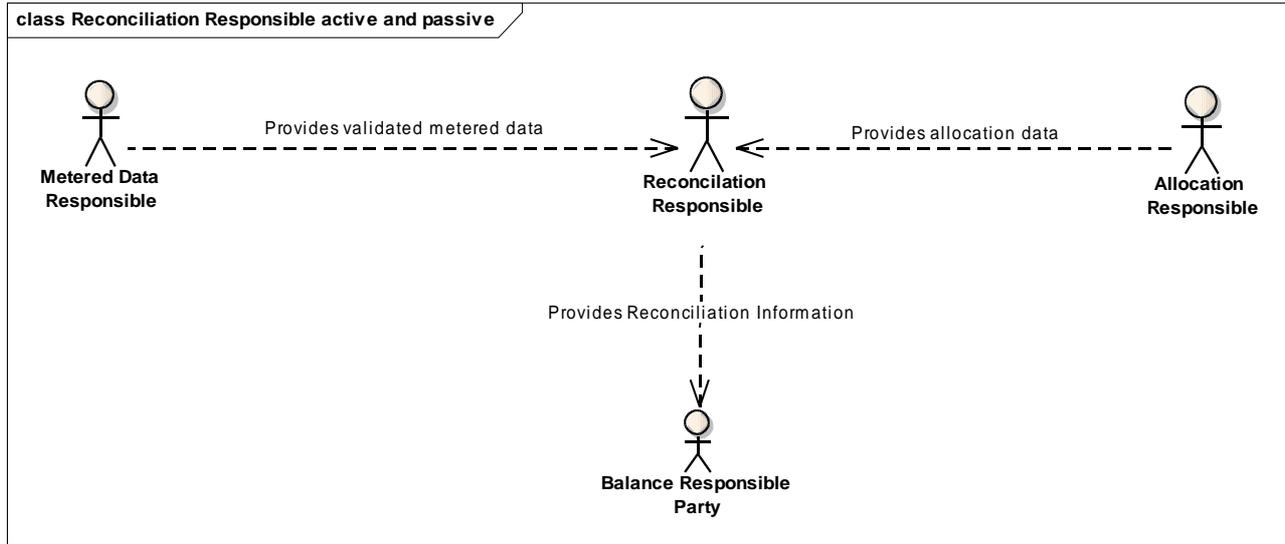
231

232

RoleName Reconciliation Responsible
RoleDescription A party that is responsible for reconciling, within a given network, the energy used in the imbalance settlement process for portfolios and the actual metered quantities.

233

234



235
236

Figure 18: Reconciliation Responsible

43

237 **2.17 Storage System Operator active and passive**

238

239

RoleName Storage System Operator
 RoleDescription A party who carries out the function of storage and is responsible for operating a storage facility. (This definition can be found in the Directive 73/2009).

240

241

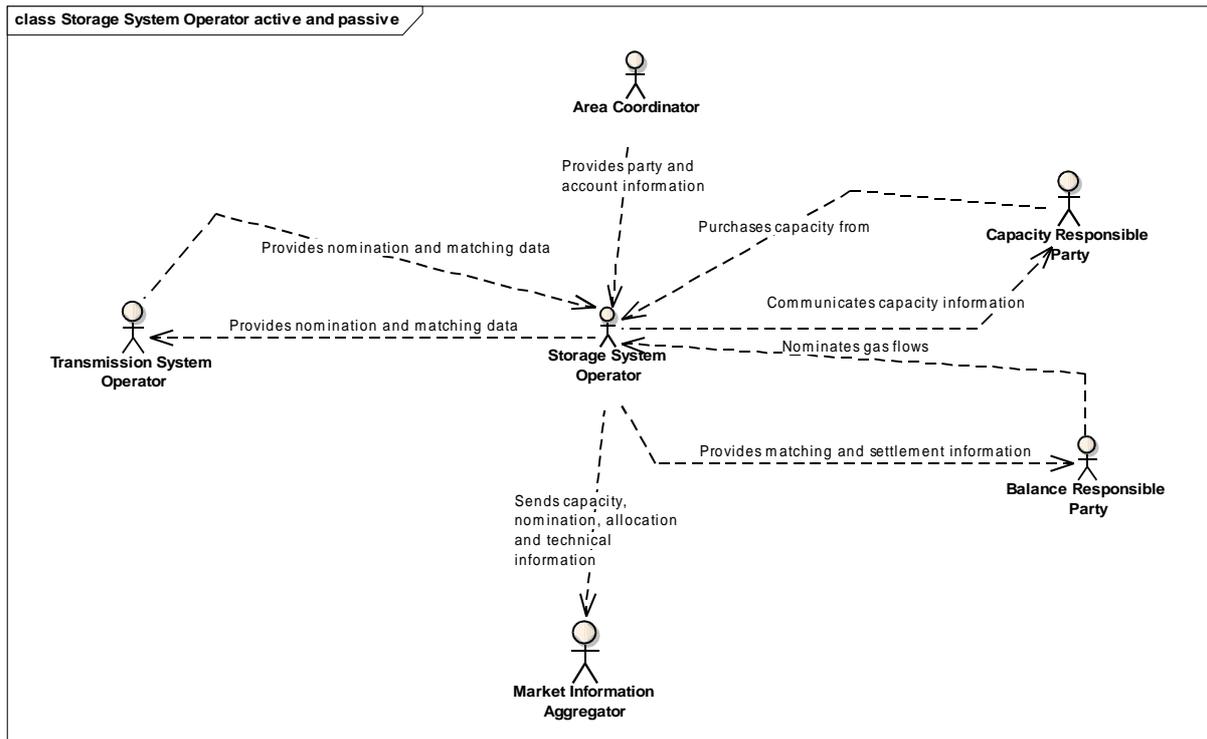


Figure 19: Storage System operator

242

243

244

45

245 2.18 Supplier active and passive

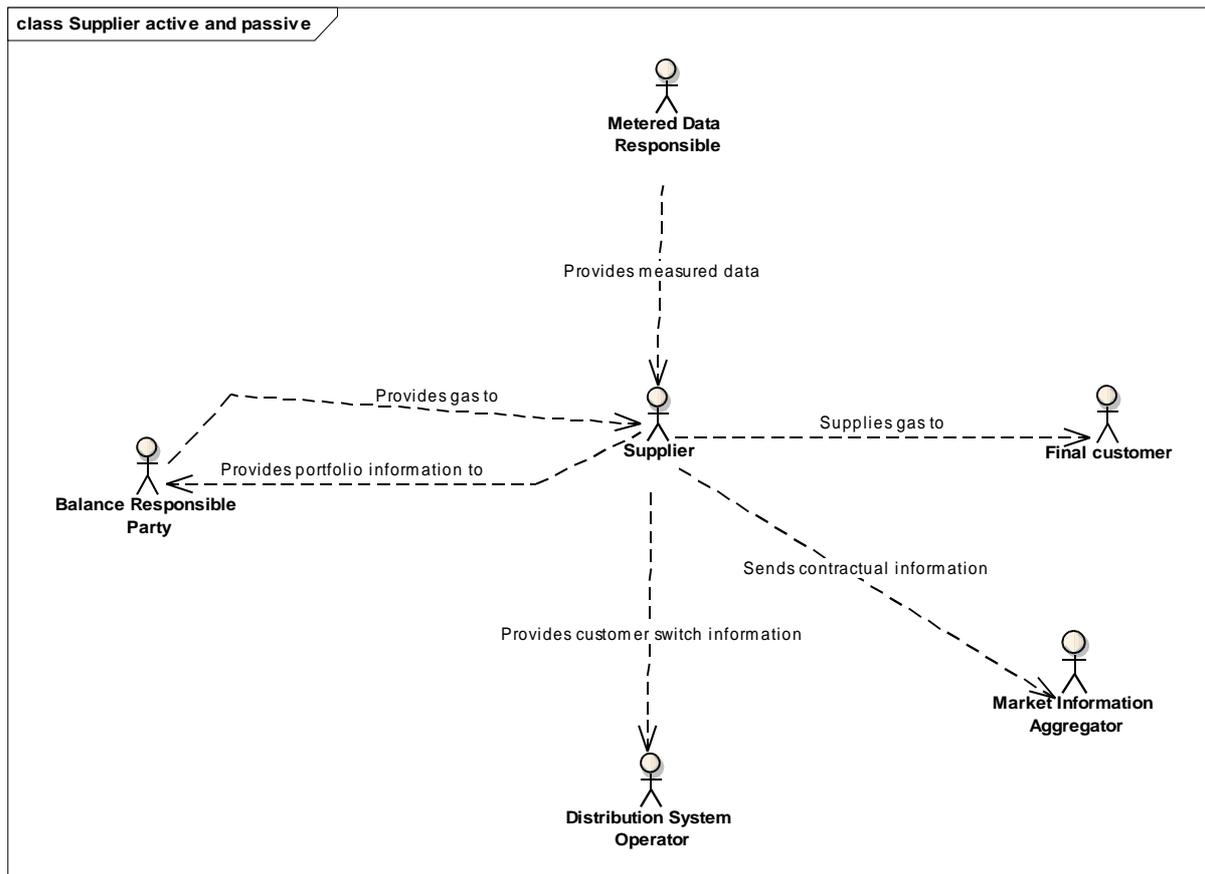
246

247

RoleName	Supplier
RoleDescription	A party who carries out the function of supply (the sale, including resale, of gas to final customers).

248

249



250

251

Figure 20: Supplier

47

252 2.19 Trader active and passive

253

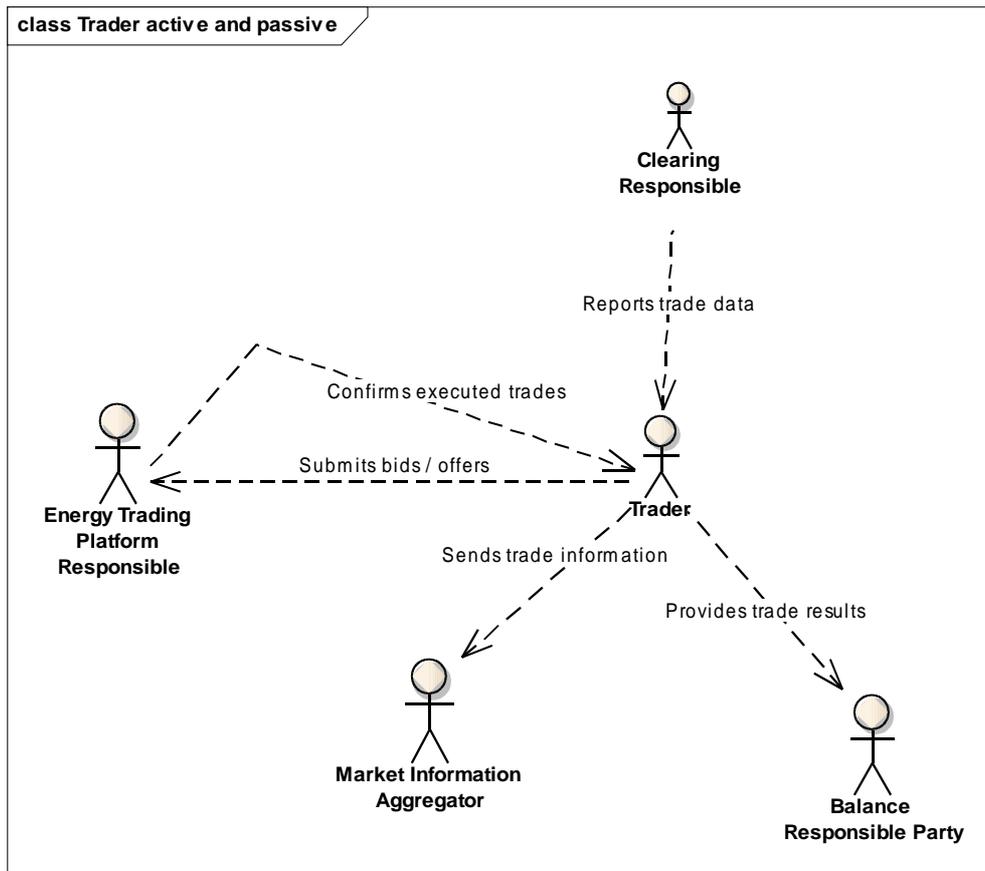
254

RoleName Trader
RoleDescription A party responsible for buying and selling gas on an energy trading platform (virtual or physical).

Additional information:
A trader does not interact with the Area Coordinator for nominations.

255

256



257

258

Figure 21: Trader

49

259 **2.20 Transmission System Operator active and passive**

260

261

RoleName Transmission System Operator
 RoleDescription A party who carries out the function of transmission and is responsible for operating, ensuring the maintenance of, and, if necessary, developing the transmission system in a given area and, where applicable, its interconnections with other systems, and for ensuring the long-term ability of the system to meet reasonable demands for the transport of gas. (This definition can be found in the Directive 73/2009).

Additional information:
 Roles which are not related to grid operation are covered elsewhere in the model.

262

263

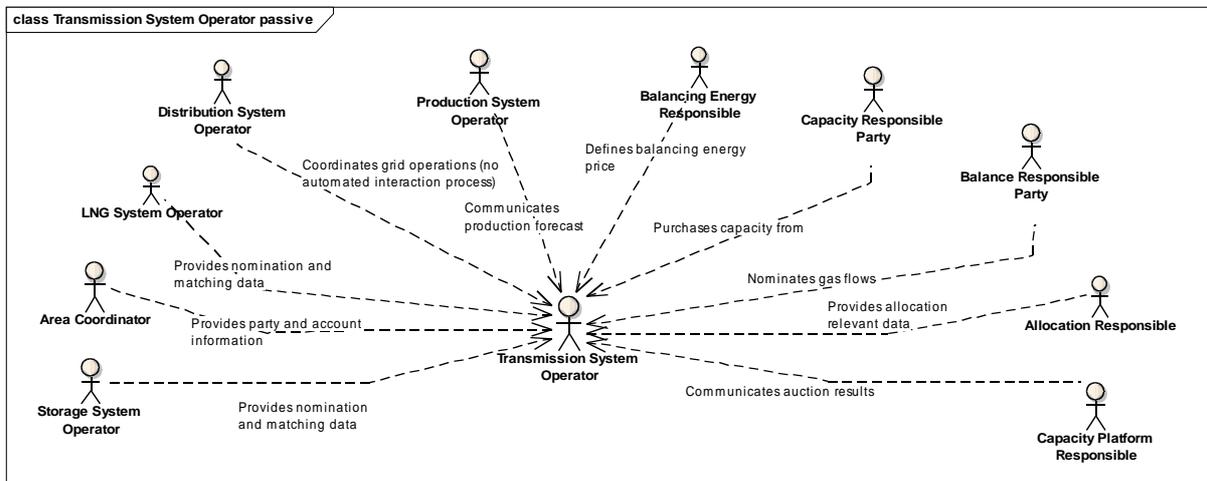


Figure 22: Transmission System Operator passive

264

265

266

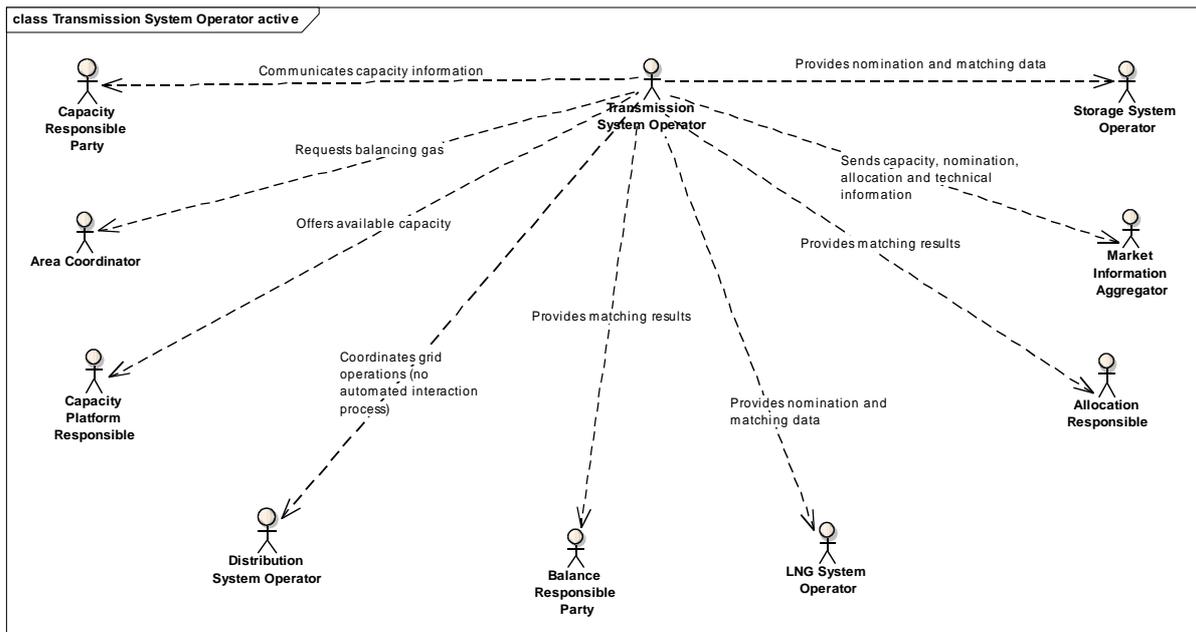


Figure 23: Transmission System Operator active

267

268

269