1 **SECTION**

2 II   Gas **Trading Process**

3   *Version 5.1*

5   *EASEE-gas/Edig@s Workgroup*

6   *Document version: 4*

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17 or omissions in, the guidelines.

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1 REFERENCES

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96 The content of the electronic documents defined in the implementation guide are based on the definition
97 of terms and codes as agreed by the Edig@s Workgroup.

98 **It is strongly recommended to read the Introduction to the Edig@s Message Implementation**
99 **Guides before implementing this process since it contains a number of general rules that are**
100 **applicable for all the Edig@s messages.**
101 **The current definition of the messages, as described in this guideline reflects its use in the**
102 **current Gas Industry procedure. It does not however preclude the use of the messages**
103 **between other parties than those indicated in this description. The criteria for the use of a**
104 **message should be its functionality rather than the parties involved.**

2 GENERAL OVERVIEW

105

106 This implementation guide covers the Edig@s trade process and is outlined in the use case diagram in
107 figure 1.
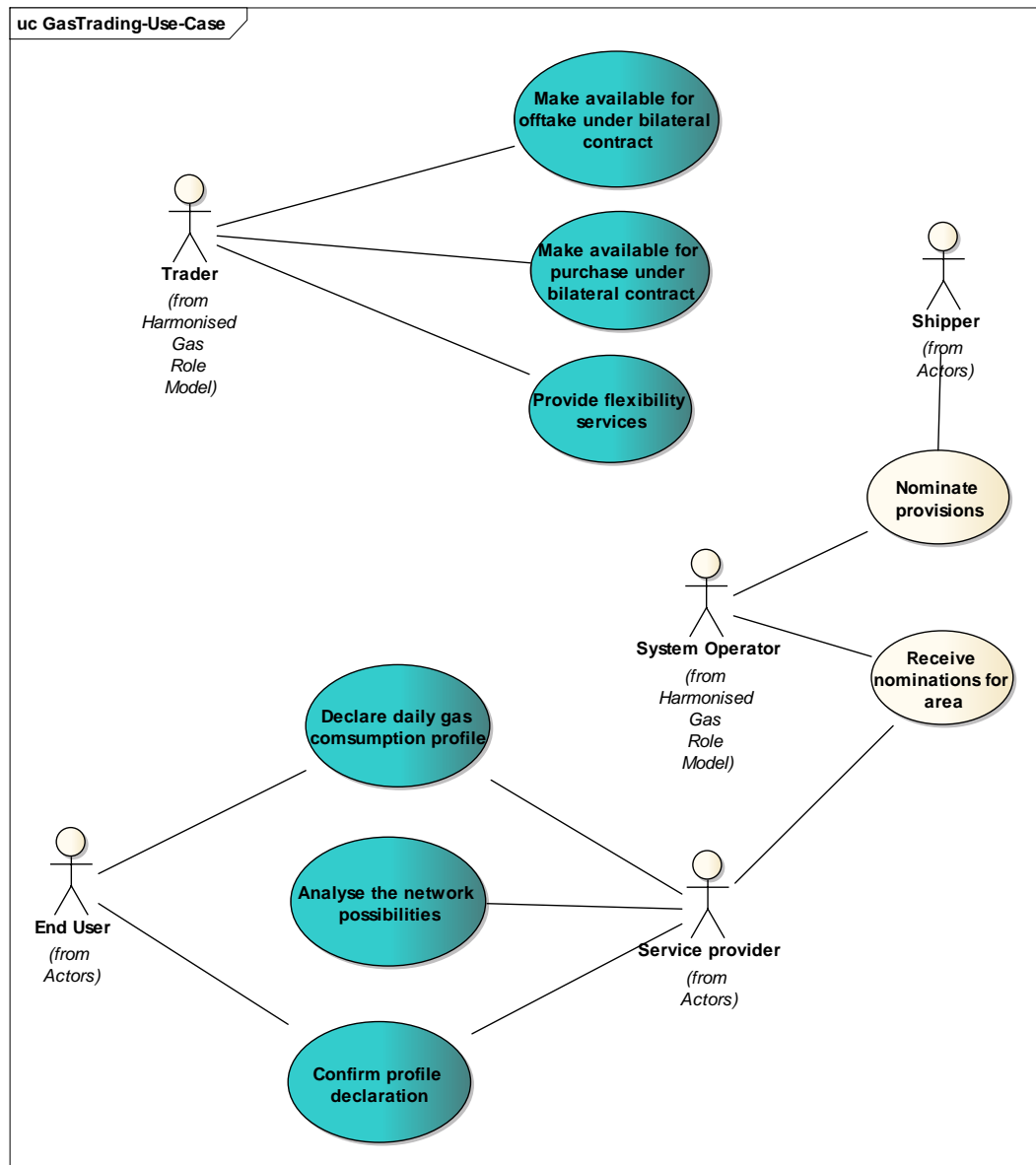
108
109 **FIGURE 1: THE TRADE USE CASE**

110 The daily procedure for trading gas has been divided into three basic use case activities.

111   1. Making available for offtake. Gas can be placed on the market by a Producer, a Trader or by a
112   Shipper and can be bought principally by a Shipper or an End User. Nothing prevents,
113   however, a Producer, a System Operator, or any other Market Participant from selling or
114   buying gas from another Market Participant.

2. Making available for purchase from the market. This in essence is the opposite of placing gas for sale. A Shipper, a Trader or an End User may indicate to the market that a given quantity of gas is required for purchase. A Producer, a Trader or a Shipper may then indicate the quantity of gas that can be provided. Again nothing prevents a Producer, a System Operator, or any other Market Participant from making a request to purchase gas.

3. Providing flexibility services that essentially concern a mix of both buying and selling gas in the same instance. Flexible services enable the operational handling of complex products between traders. Flexible services include the possibility to make swaps. Two types of swap can be carried out:

   1. Time swaps, where the exchange of gas is conditioned by the provision of gas for a particular time period and location with a different time period provided that it is returned for the same location at a later date. An example of a time swap is a virtual storage service.

   2. Location swap, where the exchange of gas is conditioned by the provision of gas for a particular location and time period with a different location provided that it is returned for the same time period. An example of a location swap is a virtual service transit.

At the end of the nomination process (detailed in the nomination and matching implementation guide) a gas requirements declaration process enables a large End User, such as an electricity producer, who has variable consumption constraints that have to be met, to ensure via a Service Provider that the gas requirements satisfy the constraints.

The Service Provider may inform the End User that the requirements can be satisfied or not and may also indicate the lead time necessary in order to modify a quantity within a given time interval.

This implementation guide outlines the trade activity which addresses the availability of gas that is put on the market for sale or the requirements for gas that is put on the market for purchase.

139 **3   THE PURCHASE AND SALE PROCESS**

140 **3.1   FUNCTIONAL DEFINITION**

141 **3.1.1   GAS OWNER TO GAS PURCHASER SCENARIO**
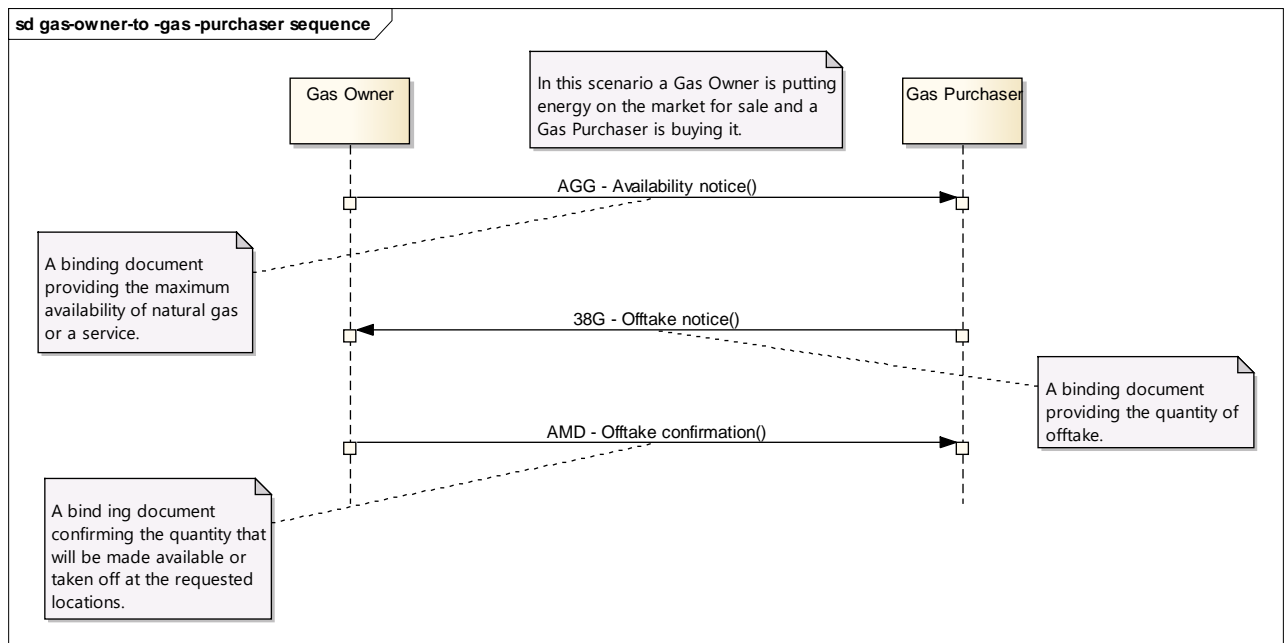
142

143 **FIGURE 2: GAS OWNER TO GAS PURCHASER SEQUENCE DIAGRAM**

144 The activity of making dry gas available to the market for sale may be initiated by a Gas Owner making
145 available gas for sale. The basic sequence diagram concerning this process is depicted in figure 2.

146 A Gas Owner providing gas for sale will advise the counter party of the bilateral contract of the quantity
147 of gas and the gas quality that is available for sale.

148 The information is provided on a periodic basis and in particular it is provided whenever there is an
149 evolution of gas availability or quality. An evolution of availability can occur, for example, due to
150 circumstances where it is not in line with the former forecasted quantities, Maximum Offtake Possibility
151 (MOP) or the quality deviates from the agreed levels.

152 The key information that is provided is the Maximum Offtake Possibility or MOP.

153 The Gas Owner may provide availability information to advise another party about:
154   ➢   The availability of gas.
155   ➢   Reduced or increased availability of gas.
156   ➢   A different quality of gas or different delivery location (switch-over).
157   ➢   Delivery limitations.

158 The availability of gas will always be provided in the form of an Availability notice, informing the counter
159 party of the minimum and maximum quantities of gas that are potentially available.

160 Depending on the bilateral contract, the provision of availability information will trigger a response from
161 the counter party indicating their intention to offtake a given quantity of gas.

162 After the availability information has been provided, a Gas Purchaser may inform the Gas Owner about
163 his needs for gas to be delivered to one or more locations for a given number of shippers during a
164 defined period.

165 This is materialised through the transmission of an Offtake Notice the last version of which becomes a
166 firm request for gas at the due date.

167 In the event where availability information has been changed (e.g. changed offtake possibilities and/or
168 quality deficient gas) there may be a need to provide a new set of requirements.

169 The requirements information in the Offtake notice relates to a defined period. It may be used by a Gas
170 Purchaser to inform the Gas Owner of:
171   ➢   A forecasted order of gas requirements.
172   ➢   A forecasted order of service usage.
173   ➢   The confirmation of the changed quantities or qualities provided by the Gas Owner.
174   ➢   A request for the delivery to a specific location and/or the redelivery to another location.

175   ➢   The shipper accounts to whom the gas is to be provided, in the case of a request. For a
176   forecast, the shipper account is optional.

177 In all cases the Gas Owner will confirm to a Gas Purchaser the quantities that will be delivered for a
178 specific gas day. In addition, the pairing of the shipper accounts in the delivery will be provided. This is
179 materialised through the transmission of an Offtake confirmation.

180 Consequently, the Gas Purchaser will always be fully aware of the quantities that will be made available
181 or will be taken off at the defined Connection Points.

182 ### 3.1.2   GAS PURCHASER TO GAS OWNER SCENARIO

183
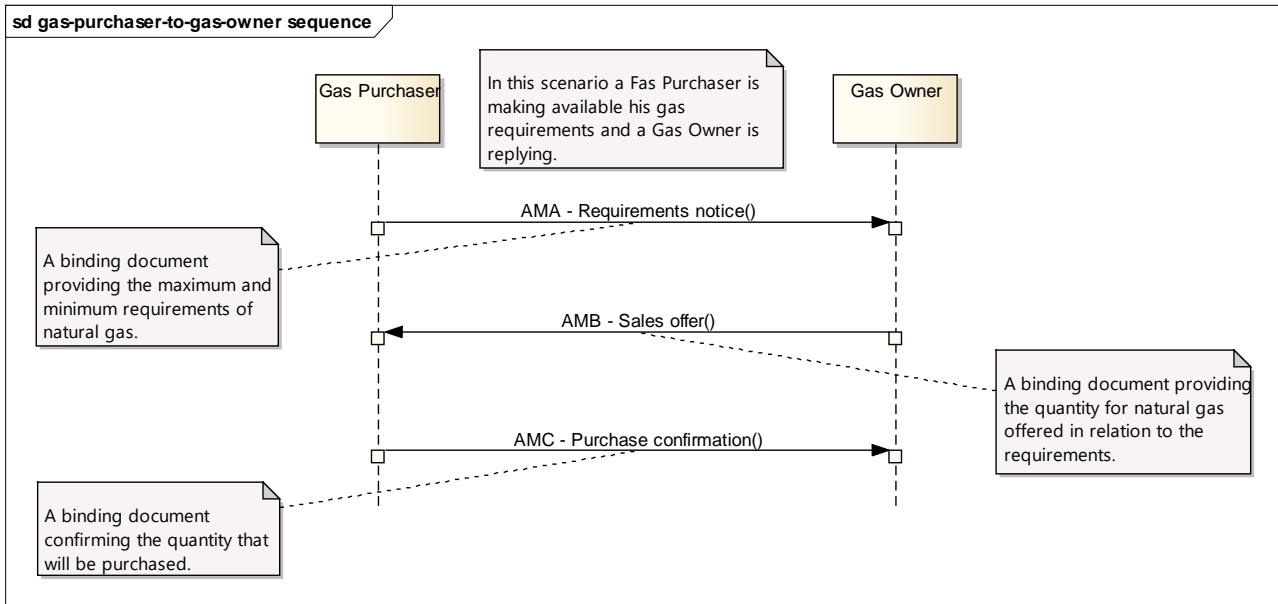
184   **FIGURE 3: GAS PURCHASER TO GAS OWNER SEQUENCE DIAGRAM**

185 The activity of informing the counter party under the bilateral contract of gas requirements that have to
186 be purchased may be initiated by a Gas Purchaser who is looking for gas to purchase. The basic sequence
187 diagram concerning this process is depicted in figure 3.

188 A Gas Purchaser may indicate to the counter parties under the respective bilateral contracts the
189 quantities and quality of gas that are needed to satisfy his gas requirements for a given period.

190 The information can be provided on a periodic basis and in particular whenever there is an evolution in
191 gas requirements.

192 The Gas Purchaser may provide purchase requirements information to advise another party about:
193   ➢   The requirements for gas for a given period.
194   ➢   Reduced or increased requirements of gas.
195   ➢   A different quality of gas or different delivery location (switch-over).
196   ➢   Delivery limitations.

197 The requirement for gas can be provided in the form of a Requirements notice, informing the bilateral
198 contract party of the minimum and maximum quantities of gas that are potentially required.

199 Depending on the bilateral contract, the provision of requirements information will trigger a response
200 from the interested parties.

201 After the requirements information has been provided, a Gas Owner may inform a Gas Purchaser about
202 the gas available that is for delivery to one or more locations from a given number of Shippers during a
203 defined period.

204 This is materialised by the transmission of a Sales offer, the last version of which becomes a firm offer of
205 gas.

206 In the event where requirements information has been changed there may be a need to provide a new
207 set of requirements.

208 The Sales offer information relates to a defined period. It may be used by a Gas Owner to inform the Gas
209 Purchaser of:
210   ➢   The quantity of gas available, the last version of which is binding.
211   ➢   The confirmation of the changed quantities or qualities provided by a Gas Purchaser.
212   ➢   A proposal for the delivery to a specific location and/or the redelivery to another location.
213   ➢   The shipper accounts from where the gas will be provided.

214 In all cases the Gas Purchaser will confirm to a Gas Owner the quantities that will be required for a
215 specific Gas day. In addition the pairing of the shipper accounts in the required delivery will be provided.
216 This is materialised through the transmission of a Purchase Confirmation.

217 Consequently, the Gas Owner will always be fully aware of the quantities that have to be made available
218 at the defined Connection Points.

219 ## 3.2 WORKFLOW

220 ### 3.2.1 GAS OWNER TO GAS PURCHASER WORKFLOW
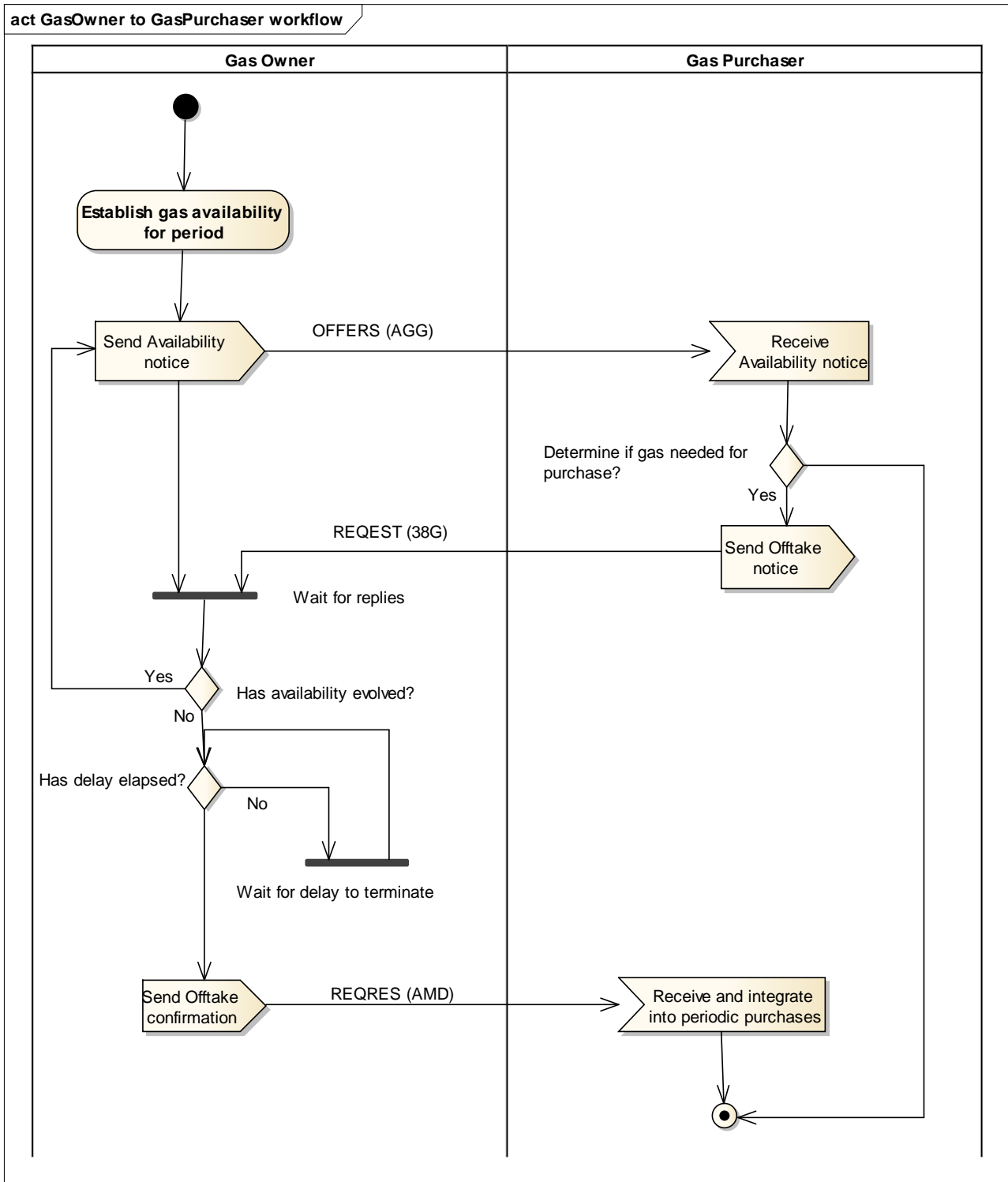
221
222 **FIGURE 4: GAS OWNER TO GAS PURCHASER WORKFLOW DIAGRAM**

223 The above process is initiated whenever a Gas Owner identifies that there is gas available for sale to the
224 bilateral counter party.

225 The gas that is available placed in an Availability notice (which may be defined in a bilateral contract
226 without necessity to be exchanged) and is sent to inform the bilateral counter party of the gas
227 availability. Any changes to the contents of the notice are resent with the same document identification
228 and a new document version.

229 On reception of availability information a bilateral contract party may inform the Gas Owner of the
230 quantities that are of interest as well as the connection points where it is to be taken off. This information
231 is sent through an Offtake Notice. The information will be considered provisional until the time delay has
232 elapsed. As for the availability notice the last version of an offtake notice referring to the current
233 availability notice shall be considered firm.

234 At a given time the Gas Owner shall send an offtake confirmation to the Gas Purchaser indicating the gas
235 that will be taken off at the requested connection points to satisfy the last request received.

236 ### 3.2.2   GAS PURCHASER TO GAS OWNER WORKFLOW
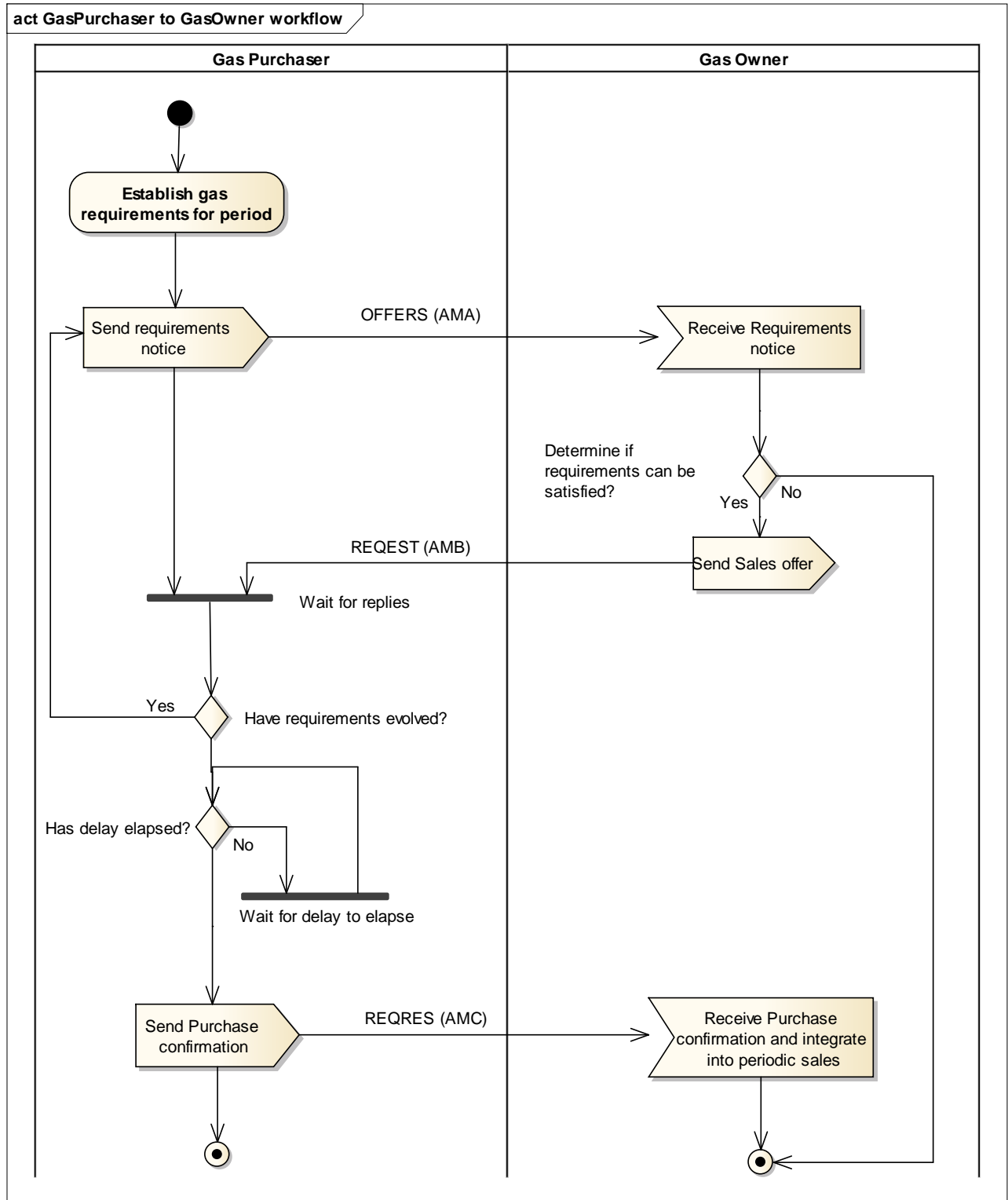
238 **FIGURE 5: GAS PURCHASER TO GAS OWNER WORKFLOW DIAGRAM**

239 The above process is initiated whenever a bilateral contract party identifies that there is a requirement
240 for gas to be purchased on the market.

241 The gas requirements are collected together in a Requirements notice and are sent to inform the bilateral
242 contract party of the gas Requirements.

243 Any changes to the contents of the notice are resent with the same document identification and a new
244 document version.

245 On reception of the requirements information the bilateral contract party may inform the Gas Purchaser
246 of the quantities that can be sold to him as well as the connection points where it can be taken off. The
247 information is transmitted to the Gas Purchaser with a sales offer.

248 In the case where the Gas Owner's offer cannot be fulfilled a revised document is sent by the Gas
249 Purchaser specifying the new requirements. The Gas Owner may at that point in time revise the initial
250 offer to bring it into line with what is required.
251 At a given time the Gas Purchaser shall send a Purchase confirmation to the Gas Owner indicating the
252 gas that will be purchased at the requested connection points to satisfy the last offer received.

3.3 CONTEXTUAL MODEL OF OFFERS DOCUMENT (OFFERS)
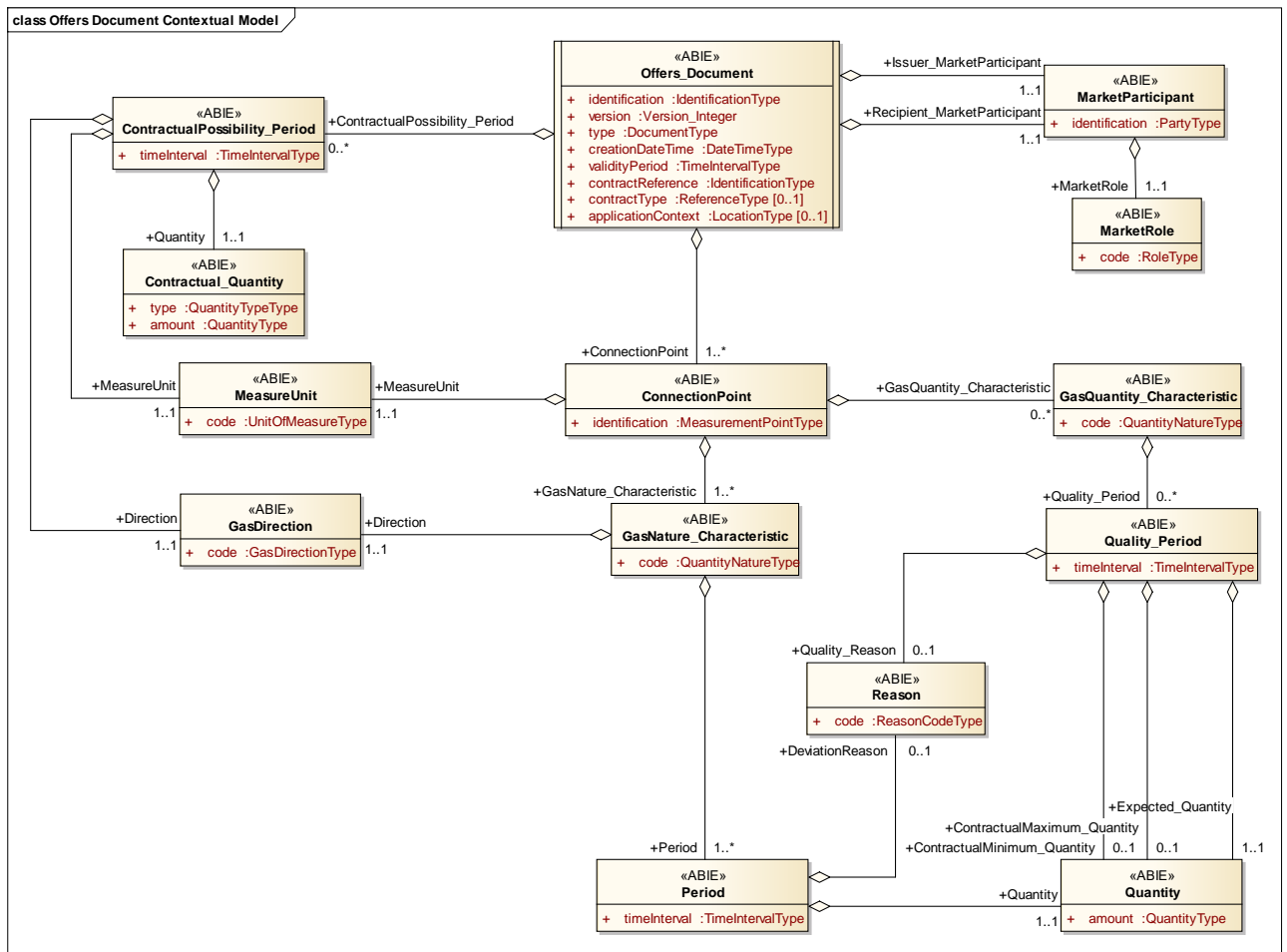
FIGURE 6: OFFERS DOCUMENT CONTEXTUAL MODEL

257 **3.3.1 INFORMATION MODEL STRUCTURE**
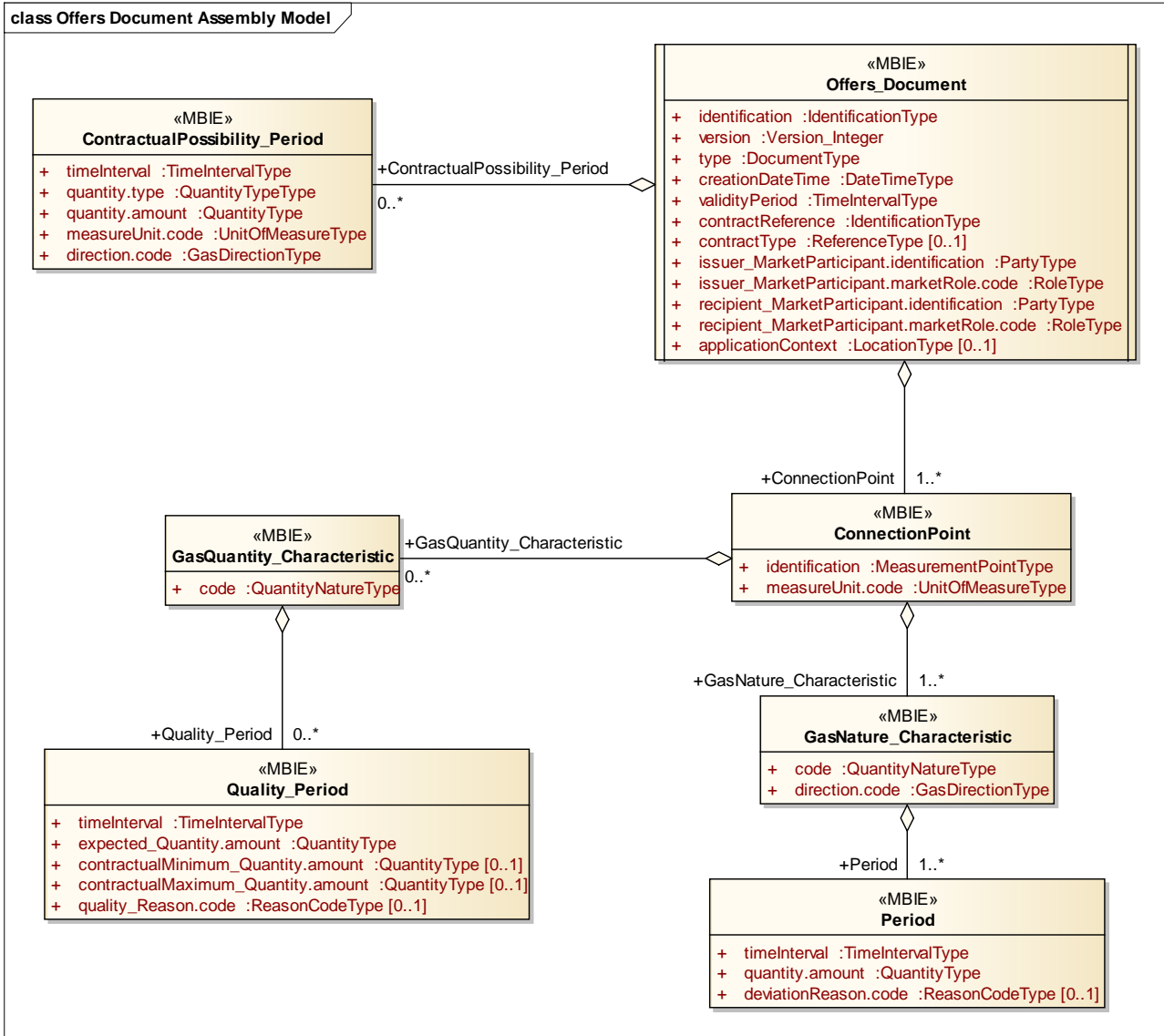
258
259 **FIGURE 7: OFFERS DOCUMENT ASSEMBLY MODEL**

260   **3.3.2   INFORMATION MODEL DESCRIPTION**

261   **3.3.3   RULES GOVERNING THE OFFERS DOCUMENT CLASS**

262   A document is uniquely identified by the following attributes:

263   • The Identification of the document

264   • The Sender Identification

265   • The identification of the Version.

266   **3.3.3.1   IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Identification of the Offers document.
Description	An Offers document must have a unique identification assigned by the issuer of the document to be sent to a recipient for a given validity period. The sender must guarantee that this identification is unique over time
Size	The identification of an Offers document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

267   **3.3.3.2   VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	The document version is used to identify a given version of an Offers Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

268   **3.3.3.3   TYPE**

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of Offers Document that is being sent. The following types of Offers Document are permitted: AGG = Availability notice. An operational document issued by the Gas Owner to advise the Gas Purchaser about the maximum and minimum availability of natural gas or a service. 30G = Availability forecast. An operational document issued by the Gas Owner to advise the Gas Purchaser about the forecasted maximum and minimum availability of natural gas or a service. AMA = Requirements Document. An operational document issued by the Gas Purchaser to inform potential Gas Owners gas requirements for a period. AMG = Flexible service offer. An offer for flexible services such as swaps. (Reference Edig@s dDocumentType code list).
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

269   **3.3.3.4   CREATIONDATEANDTIME**

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the Offers Document.
Description	The date and time that the document was prepared for transmission by the application of the Issuer.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

270   **3.3.3.5   VALIDITYPERIOD**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

271   **3.3.3.6   CONTRACTREFERENCE**

ACTION	DESCRIPTION
Definition of element	Identification of the contract reference that governs the documents contains.
Description	The contract reference identifies the contract under which the conditions of the content and transmission of the document have been agreed.
Size	The maximum length of the contract reference identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

272 **3.3.3.1 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	Identification of the type of contract covering the document.
Description	The contract type identifies the nature of the contract defined in the document. Refer to the Edig@s ReferenceType codelist for the list of valid codes.
Size	The maximum length of the contract type is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is used depending on local market rules.

273 **3.3.3.2 ISSUER_MARKETPARTICIPPANT.IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who issued the document.
Description	The issuer of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an issuer's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

274 **3.3.3.3 ISSUER_MARKETPARTICIPANT.MARKETROLE.ROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the issuer.
Description	This identifies the issuer identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

275 **3.3.3.4 RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who receives the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

276   **3.3.3.5   RECIPIENT_MARKETPARTICIPANT.MARKETROLE.ROLE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the recipient.
Description	This identifies the recipientr identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

277   **3.3.3.6   APPLICATION CONTEXT – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a particular context that is significant to the recipient.
Description	The Application Context is used to identify a particular context (location, application, etc.) that is relevant to the recipient of the document. The use of the Application Context must have previously been mutually agreed contractually. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC location code.
Size	The maximum length of an application context's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided when there is bi-lateral agreement between the parties.

278 ### 3.3.4 RULES GOVERNING THE CONTRACTUAL POSSIBILITY_PERIOD CLASS

279 There may be at least one Contractual Possibility_Period class in an Offers Document. All attributes in the
280 class are mandatory.
281 If there is no Contractual Possibility_Period class in the document then a Connection Point class is
282 mandatory.
283 There shall be one instance of the class for each Time Interval period described in the document.

284 #### 3.3.4.1 TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the contractual possibility period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

285 #### 3.3.4.2 QUANTITY.TYPE

ACTION	DESCRIPTION
Definition of element	Identification of the type of possibility that is being reported.
Description	This identifies the type of the contractual possibility that is being provided. The following Type possibilities have been identified: ZXH = Maximum Possible ZXI= Minimum Possible (Reference Edig@s QuantityTypeType code list).
Size	The maximum length of the Type code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

286 #### 3.3.4.3 QUANTITY.AMOUNT

ACTION	DESCRIPTION
Definition of element	The quantity of the capacity defined as possible within the time interval in question.
Description	This information defines the quantity of the capacity defined as possible within the time interval period. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period (“.”). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

287   **3.3.4.4   MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a contractual possibility.
Description	The unit of measurement used for the quantities for a contractual possibility. The following are the codes recommended for use: KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) HM1 = Million cubic meters per hour HM2 = Million cubic meters per day TQH = Thousand cubic meters per hour TQD = Thousand cubic meters per day (Reference Edig@s UnitOfMeasureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

288   **3.3.4.5   DIRECTION.CODE**

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the System Operator's area.
Description	This identifies the direction of the energy flow. Intended codes are: Z02 = Input Z03 = Output (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

289   **3.3.5   RULES GOVERNING THE CONNECTION POINT CLASS**

290 The Connection Point class is not mandatory. It is only present if Connection Point information is provided
291 in the document.
292 If there is no Connection Point class in the document then a Contractual Possibility class is mandatory.
293 Each instance of the class must have at least one Quantity Nature class.

294   **3.3.5.1   IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point within a System Operator's system for which the document is referencing. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC measurement point code or the code "ZSO" for a System Operator code.
Size	The maximum length of the connection point identification is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory.
Dependence requirements	None.

295 ### 3.3.5.1 MEASUREUNIT.CODE

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a connection point.
Description	The unit of measurement used for the quantities for a connection point. The following are the codes recommended for use: KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) HM1 = Million cubic meters per hour HM2 = Million cubic meters per day TQH = Thousand cubic meters per hour TQD = Thousand cubic meters per day KW3 = Kilowatt hour per cubic meter (kWh/m3) VPC = Vol % MOL = Mole % GP = mg/m3 CFL = °C BAR = Bar or kPa (Reference Edig@s UnitOfMeasure code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

296 ## 3.3.6 RULES GOVERNING THE GAS NATURE CHARACTERISTIC CLASS

297 There must be at least one Gas Nature Characteristic class present for a Connection Point class.

298 ### 3.3.6.1 CODE

ACTION	DESCRIPTION
Definition of element	The identification of the nature of the gas.
Description	The identification of the nature of the gas requested. The gas quantity nature may have the following values: Z37 = Maximum quantity available Z38 = Minimum quantity available Z05 = Quality deficient gas quantity (Reference Edig@s QuantityNatureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	The quantity nature is mandatory.
Dependence requirements	None.

299 ### 3.3.6.2 DIRECTION.CODE

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the System Operator's area.
Description	This identifies the direction of the energy flow. Intended codes are: Z02 = Input Z03 = Output (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

300 **3.3.7   RULES GOVERNING THE PERIOD CLASS**

301 There must be at least one Period class present for a Gas Nature Characteristic class.

302 **3.3.7.1   TIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

303 **3.3.7.2   QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The quantity within the time interval in question.
Description	This information defines the quantity for the connection point within the time interval period. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

304 **3.3.7.3   DEVIATION_REASON.CODE**

ACTION	DESCRIPTION
Definition of element	The identification of the reason for a deviation.
Description	The reason that has caused a deviation from the previous known and/or exchanged value. The following are the codes recommended for use: 25G = Planned maintenance 28G = Other (Reference Edig@s ReasonCode code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependant.
Dependence requirements	This attribute is only used if there is a deviation from the previous known and/or exchanged value.

305 **3.3.8　RULES GOVERNING THE GAS QUALITY CHARACTERISTIC CLASS**

306 A Gas Quality Characteristic class is present for a Connection Point only if quality information is provided
307 for the gas at the connection point in question.
308 In the case of a Requirements Notice this class is not permitted.

309 **3.3.8.1　CODE**

ACTION	DESCRIPTION
Definition of element	The identification of the nature of the gas measured
Description	The identification of the nature of the gas measured. The measurement type may have the following values: Z10 = water dew point Z11 = Oxygen Content (O2)) Z12 = Carbon Dioxide Content (CO2) Z13 = Hydrogen Sulphide (H2S) Z14 = Carbon oxide Sulphide (COS) Z15 = Mercaptan Sulphur Z16 = Total Sulphur Z17 = Hydrocarbon Dew Point Z18 = Temperature Z19 = C1 Z20 = C2, Z21 = C3 Z22 = iC4 Z23 = nC4 Z24 = iC5, Z25 = nC5, Z26 = neoC5 Z27 = C6 Z28 = C7, Z29 = C8, Z30 = C9 Z31 = C10+, Z32 = N2 ZGV = GCV conversion ZPR = Pressure ZWI = Wobbe index (Reference Edig@s QuantityNatureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

310 **3.3.9 RULES GOVERNING THE QUALITY PERIOD CLASS**

311 There must be at least one Quality Period class present for a Gas Quantity Characteristic class describing
312 the quality of the gas for the time interval in question.

313 **3.3.9.1 TIME INTERVAL.**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

314 **3.3.9.2 EXPECTED_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The value that is expected for the gas nature within the time interval in question.
Description	This information defines the value that is expected for the gas being described within the time interval. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All values are non-signed values. (Note: negative values are allowed for the transmission of negative dew point, temperature, etc. information)
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

315 **3.3.9.3 CONTRACTUAL_MINIMUM _QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The minimum value that is contractually permissible.
Description	This information defines the value that contractually cannot be below. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All values are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependant.
Dependence requirements	Used only if there is a contractual value.

316 **3.3.9.4 CONTRACTUAL_MAXIMUM_QUANTITY.AMOUNT**

ACTION	DESCRIPTION

Definition of element	The maximum value that is contractually permissible.
Description	This information defines the value that contractually cannot be exceeded A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All values are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark and sign, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependant.
Dependence requirements	Used only if there is a contractual value.

317 **3.3.9.5   QUALITY_REASON.CODE**

ACTION	DESCRIPTION
Definition of element	The identification of the reason for a quality variation or deviation.
Description	The reason that has caused a quality variation or deviation at the connection point. The following are the codes recommended for use: 09G = Quality deficient gas 20G = Quality variation 21G = For information (Reference Edig@s ReasonCodeType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

318 ## 3.4 CONTEXTUAL MODEL OF REQUEST DOCUMENT (REQEST)

319
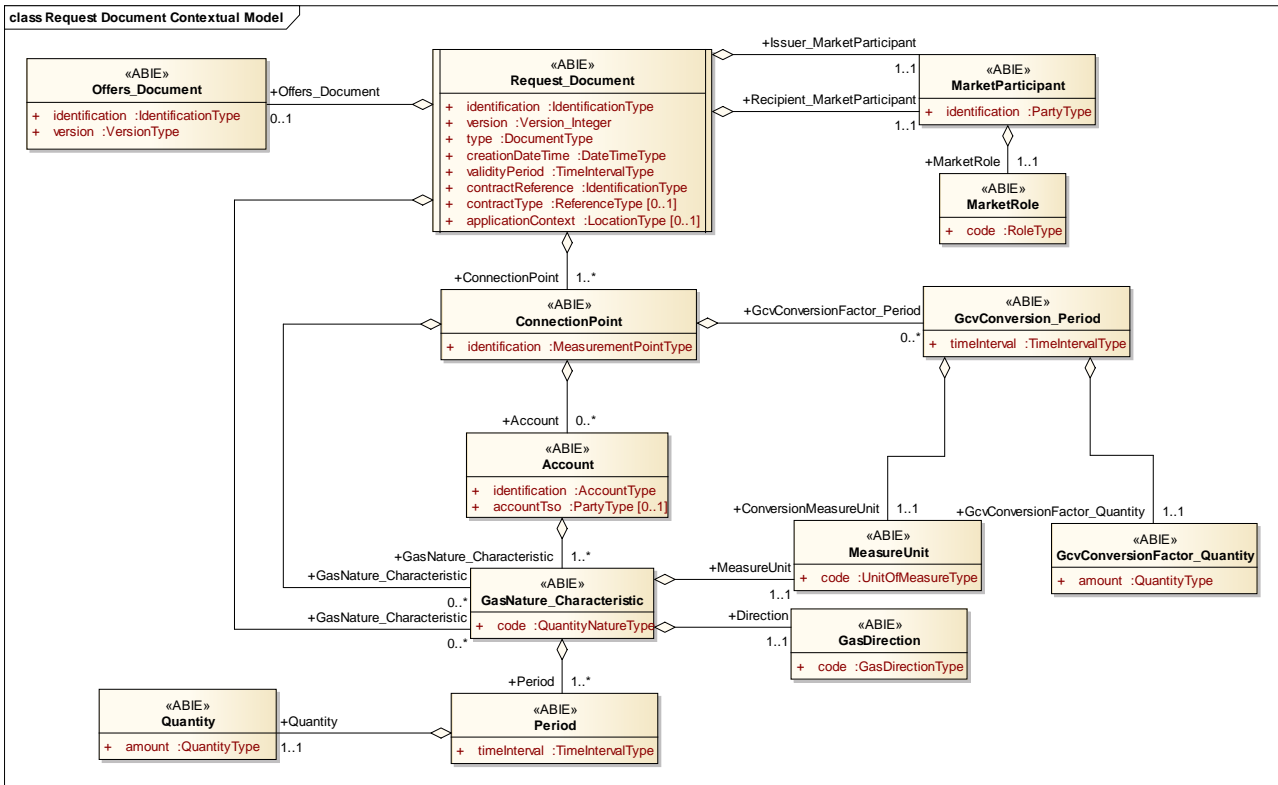
320

321 ## FIGURE 8: REQUEST DOCUMENT CONTEXTUAL MODEL

322   ### 3.4.1   INFORMATION MODEL STRUCTURE
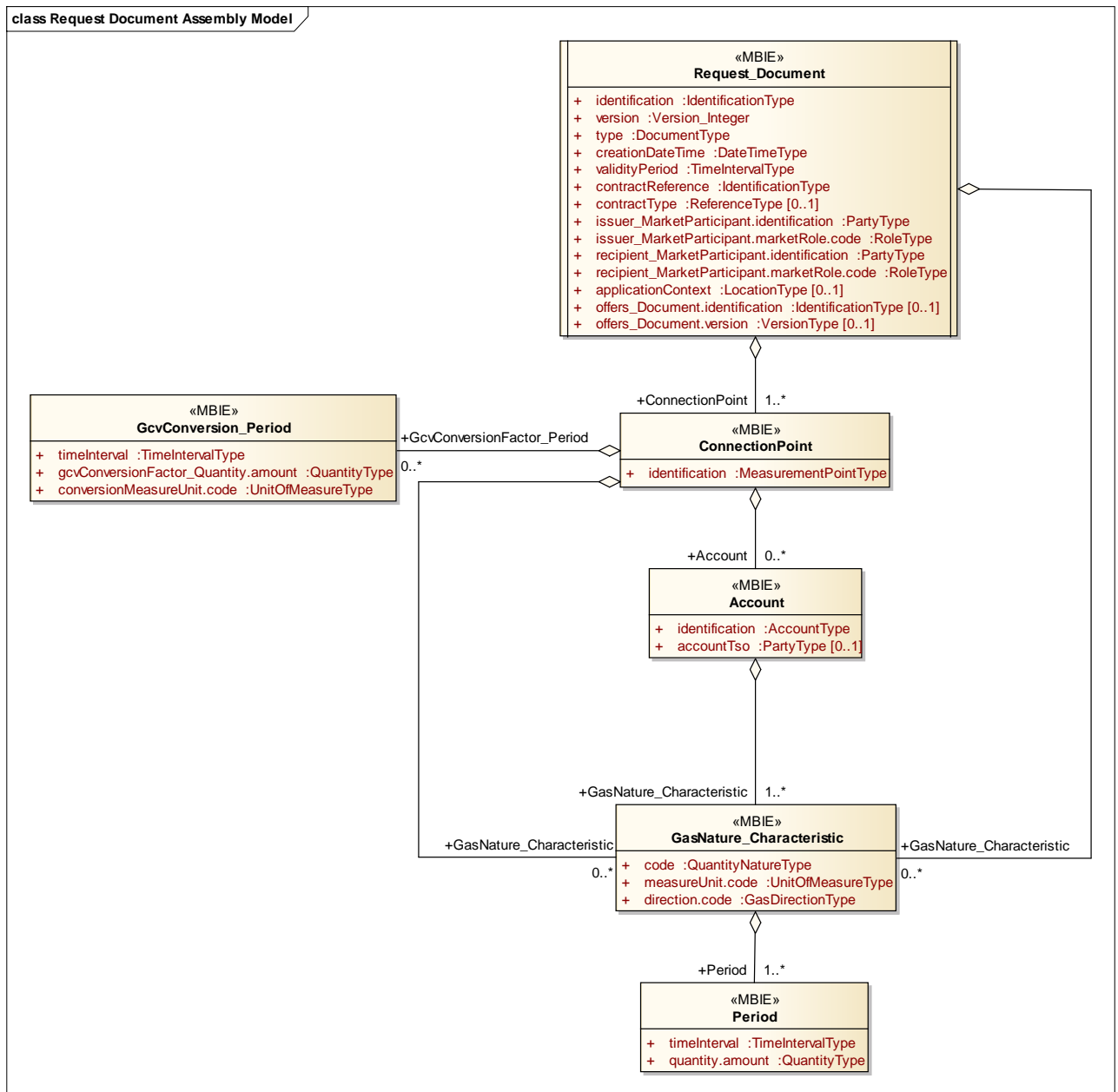
FIGURE 9: REQUEST DOCUMENT ASSEMBLY MODEL

325 ### 3.4.2 INFORMATION MODEL DESCRIPTION

326 ### 3.4.3 RULES GOVERNING THE REQUEST DOCUMENT CLASS

327 A document is uniquely identified by:

328 • The Identification of the document
329 • The Sender Identification
330 • The identification of the Version.

331 #### 3.4.3.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Identification of the Request document.
Description	A Request Document must have a unique identification assigned by the Issuer of the document to be sent to a recipient for a givan validity period. The Issuer must guarantee that this identification is unique over time
Size	The identification of a Request document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

332 #### 3.4.3.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	The document version is used to identify a given version of a Request Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

333 #### 3.4.3.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of Request Document that is being sent. The following types of Request Document are currently permitted: 38G = Offtake notice. An operational document issued by the Gas Purchaser to advise the Gas Owner about the quantity he formally requests. 35G = Offtake forecast. An operational document issued by the Gas Purchaser to advise the Gas Owner about the quantity he forecasts to take off. AMB = Sales Offer. An operational document issued by a Gas Owner to inform a Gas Purchaser of the quantity of gas available for sale. AMO = Flexible request. AMP = Time swap. AMQ = Location swap. (Reference the Edig@s DocumentType code list).
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

334   3.4.3.4   CREATIONDATETIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the Issuer.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

335   3.4.3.5   VALIDITYPERIOD

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

336   3.4.3.6   CONTRACTREFERENCE

ACTION	DESCRIPTION
Definition of element	Identification of the contract reference that governs the documents content.
Description	The contract reference identifies the contract under which the conditions of the content and transmission of the document have been agreed.
Size	The maximum length of the contract reference identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

337   3.4.3.1   CONTRACTTYPE

ACTION	DESCRIPTION
Definition of element	Identification of the type of contract covering the document.
Description	The contract type identifies the nature of the contract defined in the document. Refer to the Edig@s ReferenceType codelist for the list of valid codes.
Sizec	The maximum length of the contract type is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is used depending on local market rules.

338 **3.4.3.2   ISSUER_MARKETPARTICIPANT.IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who has issued the document.
Description	The Issuer of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an Issuer's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

339 **3.4.3.3   ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the issuer in the document.
Description	This identifies the role of the Issuer identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

340 **3.4.3.4   RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of a recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

341 **3.4.3.5   RECIPIENT_MARKETPARTICIPANT;MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the recipient.
Description	This identifies the role of the recipient identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

342 **3.4.3.6 APPLICATIONCONTEXT – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a particular context that is significant to the recipient.
Description	The Application Context is used to identify a particular context (location, application, etc.) that is relevant to the recipient of the document. The use of the Application Context must have previously been mutually agreed contractually. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC location code.
Size	The maximum length of an application context's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided when there is bi lateral agreement between the parties.

343 **3.4.3.7 OFFERS_DOCUMENT.IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the Offers document that the Request is referring to.
Description	An Offers Document must have been previously sent by the Recipient of the Request Document. If no initialising electronic XML document has been received prior to the emission of the current document or if it is based on the contents of a paper document then this attribute shall contain the word "DEFAULT".
Size	The identification may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The element is mandatory when the Request Document is based on an Offers Document that initiated the exchange.

344 **3.4.3.8 OFFERS_DOCUMENT.VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the Offers document.
Description	This version must correspond to the version of the Offers Document previously sent by the Recipient. If no electronic XML document is used then the versio, shall contain the number "1".
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is dependent.
Dependence requirements	The element is mandatory when the Request Document is based on an Offers Document that initiated the exchange.

345 **3.4.4 RULES GOVERNING THE CONNECTION POINT CLASS**

346 There must be at least one Connection Point class to identify the Connection Point where the gas is to be
347 provided.

348 **3.4.4.1 IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC measurement point code or the code "ZSO" for a System Operator code.
Size	The maximum length of the connection point identification is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory.
Dependence requirements	None.

349   **3.4.5   RULES GOVERNING THE ACCOUNT CLASS**

350   In the case of a document with the type 35G (offtake forecast) or 38G (offtake notice) and the Quantity
351   Nature = ZBQ (Buyer's request) or Z08 (Buyers resultant offtake - BRO), the use of an Account class is
352   optional. In all other cases the use of an Account class is mandatory..

353   **3.4.5.1   IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of an Account.
Description	The identification of aner Account within a System Operator's system. This represents the account of the issuing party. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "ZSO" for a System Operator code.
Size	The maximum length of the Account identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the Account identification and the coding scheme are mandatory.
Dependence requirements	None.

354   **3.4.5.2   ACCOUNTTSO - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the System Operator that created the account identification..
Description	The System Operator that created the account identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of the identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	The AccountTso is required if the identification of the System Operator that created the account is ambiguous.

355   **3.4.6   RULES GOVERNING THE GAS NATURE CHARACTERISTIC CLASS**

356   At least one Gas Nature Characteristic class is mandatory for each Account class.
357   In the case of forecasts and a buyers resultant offtake it is directly related to the connection point.
358   In the case of a buyers request it is directly related to the document header to represent the contractual
359   value.

360   **3.4.6.1   CODE**

ACTION	DESCRIPTION
Definition of element	The identification of the nature of the gas.
Description	The identification of the nature of the gas requested. The gas quantity nature may have the following values: Z05 = Quality deficient gas quantity. ZBQ = Buyers' request Z08 = Buyers resultant offtake Z36 = Shippers offtake/delivery. (Reference Edig@s QuantityNatureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	The quantity nature is mandatory.
Dependence requirements	None.

361   **3.4.6.2   MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a gas nature characteristic.
Description	The unit of measurement used for the quantities for a gas nature characteristic. The following are the codes recommended for use: KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) HM1 = Million cubic meters per hour HM2 = Million cubic meters per day TQH = Thousand cubic meters per hour TQD = Thousand cubic meters per day (Reference Edig@s UnitOfMeasure code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

362   **3.4.6.3   DIRECTION.CODE**

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the Issuer of the document.
Description	This identifies the direction of the energy flow. Intended codes are: Z02 = Input Z03 = Output (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

363   **3.4.7   RULES GOVERNING THE PERIOD CLASS**

364   There must be at least one Period class for each Gas Quantity Nature class.

365   **3.4.7.1   TIME INTERVAL**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

366 **3.4.7.2 QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The quantity being requested within the time interval in question.
Description	This information defines the quantity being requested by the Gas Purchaser within the time interval period. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

367 **3.4.8 RULES GOVERNING THE GCV CONVERSION_PERIOD CLASS**

368 If GCV Conversion Information is to be provided for a connection point then a Gcv Conversion _Period
369 class is required.

370 **3.4.8.1 TIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the GCV conversion factor for the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

371 **3.4.8.2 GCVCONVERSIONFACTOR_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The GCV conversion factor to be used for the interval in question
Description	This identifies the GCV conversion factor that is to be used for the time interval in question. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All values are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the value depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

372 **3.4.8.3 CONVERSION_MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a GCV conversion.
Description	The unit of measurement used for the quantities GCV conversion. The following are the codes recommended for use: KW3 = Kilowatt hour per cubic meter (kWh/m³) (Reference Edig@s UnitOfMeasureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

3.5 INFORMATION MODEL OF RESPONSE CONFIRMATION DOCUMENT (REQRES)
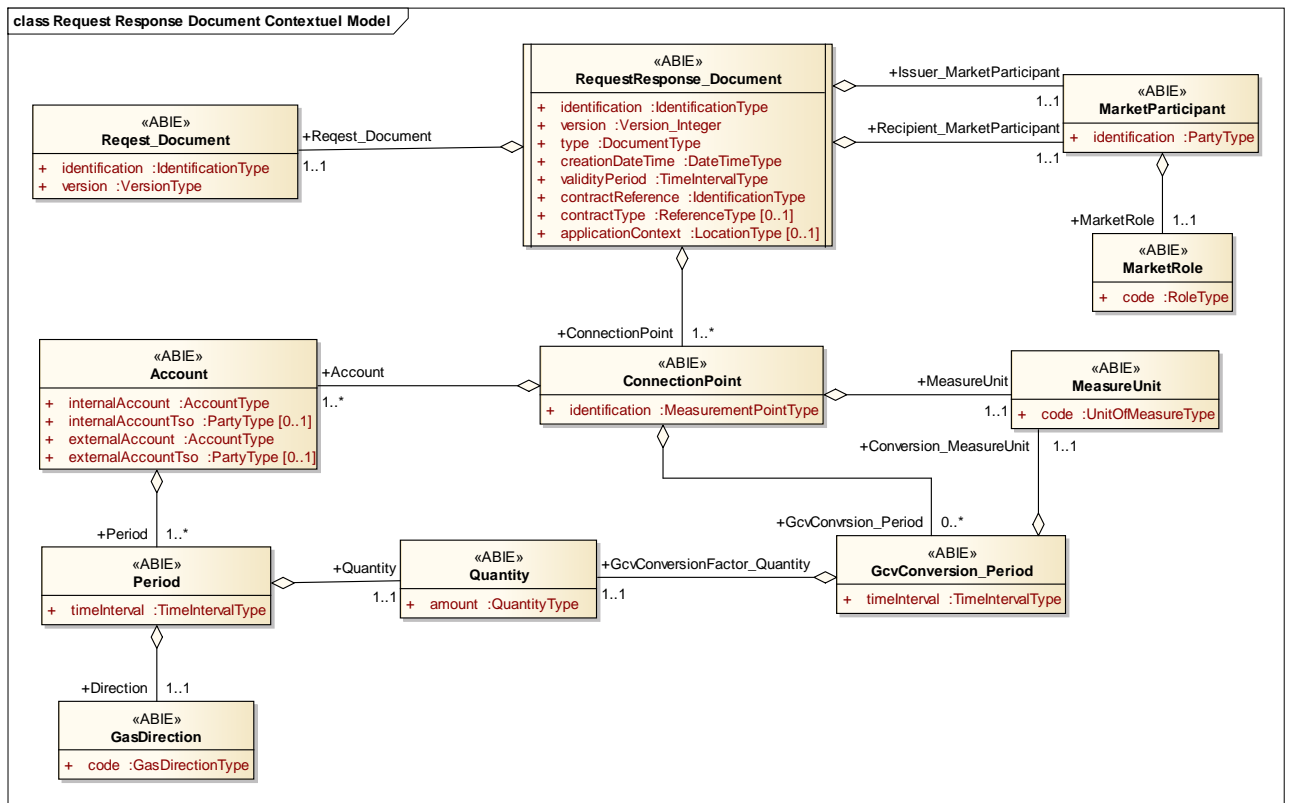
FIGURE 10: REQUEST RESPONSE DOCUMENT CONTEXTUAL MODEL

377 **3.5.1 INFORMATION MODEL STRUCTURE**

class Request Response Document Assembly Model

«MBIE»
RequestResponse_Document

+ identification :IdentificationType
+ version :Version_Integer
+ type :DocumentType
+ creationDateTime :DateTimeType
+ validityPeriod :TimeIntervalType
+ contractReference :IdentificationType
+ contractType :ReferenceType [0..1]
+ issuer_MarketParticipant.identification :PartyType
+ issuer_MarketParticipant.marketRole.code :RoleType
+ recipient_MarketParticipant.identification :PartyType
+ recipient_MarketParticipant.marketRole.code :RoleType
+ applicationContext :LocationType [0..1]
+ reqest_Document.identification :IdentificationType
+ reqest_Document.version :VersionType

+ConnectionPoint   1..*

«MBIE»
GcvConversion_Period

+ timeInterval :TimeIntervalType
+ gcvConversionFactor_Quantity.amount :QuantityType
+ conversion_MeasureUnit.code :UnitOfMeasureType

+GcvConvrsion_Period

0..*

«MBIE»
ConnectionPoint

+ identification :MeasurementPointType
+ measureUnit.code :UnitOfMeasureType

+Account   1..*

«MBIE»
Account

+ internalAccount :AccountType
+ internalAccountTso :PartyType [0..1]
+ externalAccount :AccountType
+ externalAccountTso :PartyType [0..1]

+Period   1..*

«MBIE»
Period

+ timeInterval :TimeIntervalType
+ quantity.amount :QuantityType
+ direction.code :GasDirectionType

378

379 **FIGURE 11: REQUEST RESPONSE DOCUMENT ASSEMBLY MODEL**

380 **3.5.2   INFORMATION MODEL DESCRIPTION**

381 **3.5.3   RULES GOVERNING THE REQUEST RESPONSE DOCUMENT CLASS**

382 A document is uniquely identified by:

383 • The Identification of the document

384 • The Sender Identification

385 • The identification of the Version.

386 **3.5.3.1   IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Request Response Document.
Description	A Request Response Document must have a unique identification assigned by the Issuer of the document to be sent to a recipient for a given validity period. The Issuer must guarantee that this identification is unique over time
Size	The identification of a Request Response Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

387 **3.5.3.1   VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	The document version is used to identify a given version of a Request Response Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

388 **3.5.3.2   TYPE**

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of Request Response Document that is being sent. The following types of Request Response Document are permitted: AMD = Offtake confirmation = The confirmation of the offtake proposed in the identified Request Document AMC = Purchase confirmation = The confirmation of the offer proposed in the identified Request Document AMR = Flexible request confirmation AMS = Time swap confirmation AMT = Location swap confirmation. (Reference Edig@s DocumentType code list).
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

389 **3.5.3.3   CREATIONDATETIME**

ACTION	DESCRIPTION

Definition of element	Date and time of the creation of the Document.
Description	The date and time that the document was prepared for transmission by the application of the Issuer.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

390   ### 3.5.3.4   VALIDITYPERIOD

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

391   ### 3.5.3.5   CONTRACTREFERENCE

ACTION	DESCRIPTION
Definition of element	Identification of the contract reference that governs the document contains.
Description	The contract reference identifies the contract under which the conditions of the content and transmission of the document have been agreed.
Size	The maximum length of the contract reference identification is 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

392   ### 3.5.3.1   CONTRACTTYPE

ACTION	DESCRIPTION
Definition of element	Identification of the type of contract covering the document.
Description	The contract type identifies the nature of the contract defined in the document. Refer to the Edig@s ReferenceType codelist for the list of valid codes.
Size	The maximum length of the contract type is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is used depending on local market rules.

393 **3.5.3.2 ISSUER_MARKETPARTICIPANT.IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who has issued the document.
Description	The Issuer of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an Issuer's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

394 **3.5.3.3 ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the Issuer.
Description	This identifies the role of the Issuer identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

395 **3.5.3.4 RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of a recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

396 **3.5.3.5 RECIPIENT_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role of the recipient.
Description	This identifies the recipient identified in the document. Refer to the Edig@s RoleType codelist for the list of valid codes.
Size	The maximum length of the information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

397   **3.5.3.6   APPLICATIONCONTEXT – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a particular context that is significant to the recipient.
Description	The application context is used to identify a particular context (location, application, etc.) that is relevant to the recipient of the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC location code.
Size	The maximum length of an application context's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided when there is bi lateral agreement between the parties.

398   **3.5.3.7   REQUEST_DOCUMENT.IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the Request Document that the Request Response is referring to.
Description	A Request Document must have been previously sent by the recipient of the Request Response Document. If no initialising electronic XML document has been received prior to the emission of the current document or if it is based on the contents of a paper document then the attribute shall contain the word "DEFAULT".A Response Confirmation Document identifies here the Offer Response document that is being referred to
Size	The identification may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	If an Offer Response Document is being replied to then this information is mandatory

399   **3.5.3.8   REQUEST_DOCUMENT.VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the Request document.
Description	The version must correspond to the version of the Request Document previously sent by the recipient. If no electronic XML document is used then the version shall contain the number "1".
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is dependent.
Dependence requirements	If the Offer Response Document attribute is present then this attribute is mandatory

400   **3.5.4   RULES GOVERNING THE CONNECTION POINT CLASS**

401   There must be at least one Connection Point class to identify the Connection Point where the off take or
402   purchase of the gas has been agreed.

403   **3.5.4.1   IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate either the code "305" for an EIC measurement point code or the code "ZSO" for a System Operator code.
Size	The maximum length of the connection point identification is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory.
Dependence requirements	None.

404   **3.5.4.2   MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a connection point.
Description	The unit of measurement used for the quantities for a connection point. The following are the codes recommended for use: KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) HM1 = Million cubic meters per hour HM2 = Million cubic meters per day TQH = Thousand cubic meters per hour TQD = Thousand cubic meters per day (Reference Edig@s UnitOfMeasureType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

405   **3.5.5   RULES GOVERNING THE ACCOUNT CLASS**

406   There must be at least one Account class for a connection point.

407   **3.5.5.1   INTERNALACCOUNT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of an account of the issuing party.
Description	The identification of an account of the issuing party within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "ZSO" for a System Operator code.
Size	The maximum length of the issuing account identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the issuing account identification and the coding scheme are mandatory.
Dependence requirements	None.

408   **3.5.5.2   INTERNALACCOUNTTSO - CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the System Operator that created the internal account identification.
Description	The System Operator that created the internal account identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of the identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	The InternalAccountTso is required if the identification of the System Operator that created the account is ambiguous.

409   **3.5.5.3   EXTERNALACCOUNT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of n account of the recipient party.
Description	The identification of an account of the recipient party within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "ZSO" for a System Operator party code.
Size	The maximum length of the recipient account identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the recipient account identification and the coding scheme are mandatory.
Dependence requirements	None.

410   ### 3.5.5.1 EXTERNALACCOUNTTSO - CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the System Operator that created the external account identification.
Description	The System Operator that created the external account identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of the identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are dependent.
Dependence requirements	The ExternalAccountTso is required if the identification of the System Operator that created the account is ambiguous.

411   ## 3.5.6 RULES GOVERNING THE PERIOD CLASS

412   There must be at least one Period class for each Account class.

413   ### 3.5.6.1 TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

414   ### 3.5.6.2 QUANTITY.AMOUNT

ACTION	DESCRIPTION
Definition of element	The quantity accepted by the Issuer within the time interval in question.
Description	This information defines the quantity confirmed by the Issuer within the time interval period. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

415   3.5.6.1   DIRECTION.CODE

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the Issuer of the document.
Description	This identifies the direction of the energy flow. Intended codes are: Z02 = Input Z03 = Output (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

416   3.5.7   RULES GOVERNING THE GCV CONVERSION PERIOD CLASS

417 A GCV Conversion Period class is not mandatory for a connection point. In the case where GCV
418 information is provided the information in the following paragraphs is required.

419   3.5.7.1   TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the GCV conversion factor for the period in question.
Description	This information provides the start and end date and time of the period being reported.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

420   3.5.7.2   GCVCONVERSIONFACTOR_QUANTITY.AMOUNT

ACTION	DESCRIPTION
Definition of element	The GCV conversion factor to be used for the interval in question
Description	This identifies the GCV conversion factor that is to be used for the time interval in question. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All values are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark , if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the value depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

421 **3.5.7.3 CONVERSION_MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to the quantities for a GCV conversion.
Description	The unit of measurement used for the quantities for a GCV conversion. The following are the codes recommended for use: KW3 = Kilowatt hour per cubic meter (kWh/m³) (Reference Edig@s UnitOfMeasure code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

422

423 # 4 GAS REQUIREMENTS DECLARATION PROCESS

424 ## 4.1 FUNCTIONAL DEFINITION

425
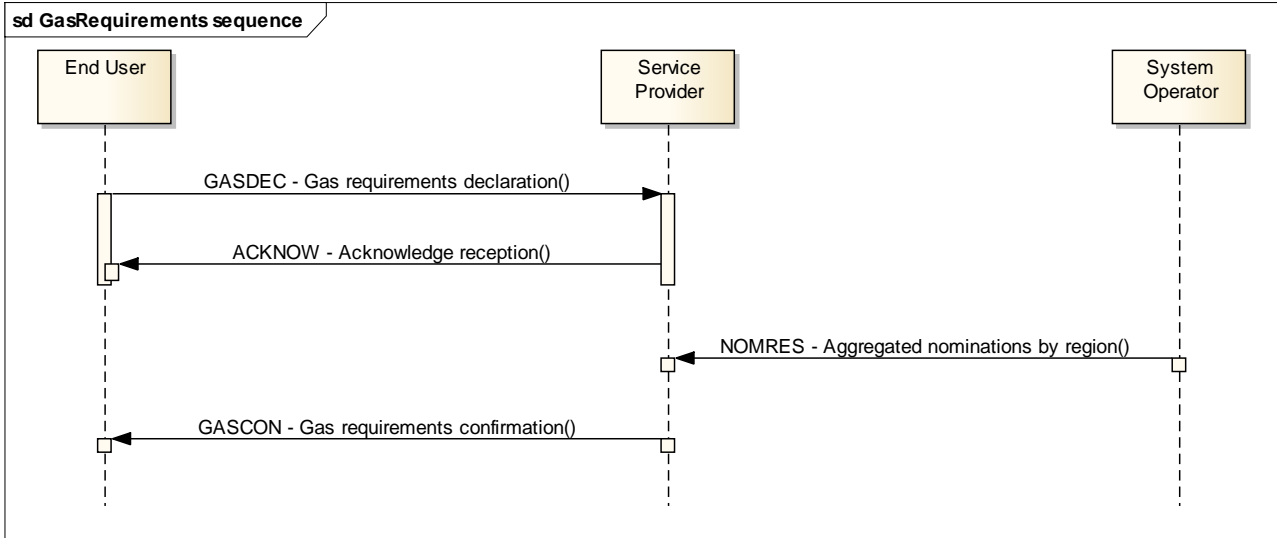
426

427 **FIGURE 12: GAS REQUIREMENTS INFORMATION FLOW SEQUENCE DIAGRAM**

428 The detailed gas requirements are provided to a Service Provider whenever the consumption is
429 dependent on the specific consumption constraints that an End User has to satisfy in order to meet his
430 business objectives.

431 In an initial phase the Service Provider acknowledges their reception and waits for the System Operator
432 to provide the aggregated nominations for the regions managed by the Service Provider.

433 Once the two information flows have been exchanged, the Service Provider can determine whether or not
434 the gas requirements can be satisfied. He informs the End User of the results of this calculation and
435 provides information enabling the End User to modify his gas requirements during the course of the day.

436   ## 4.2   WORKFLOW

437
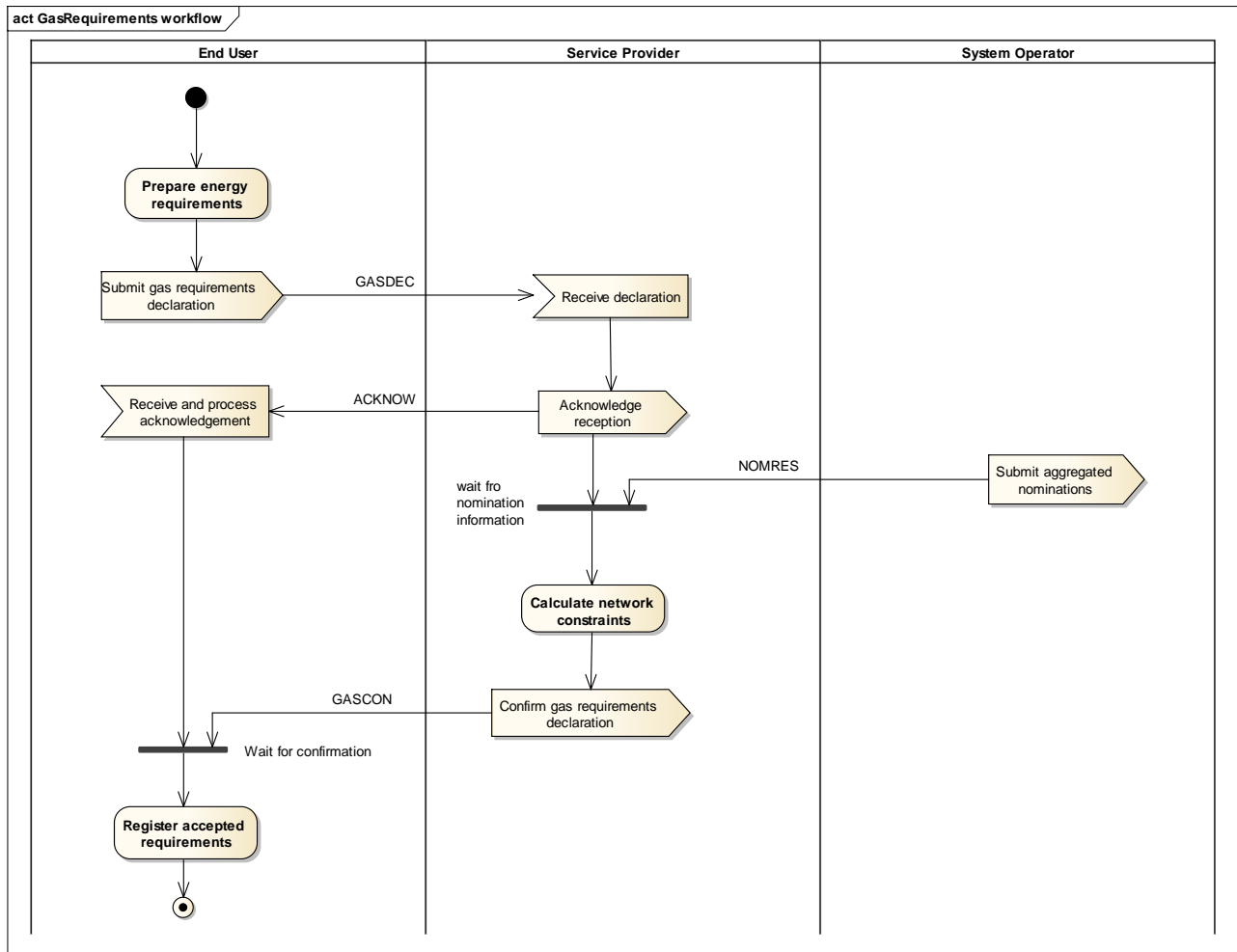
438
439   **FIGURE 13: GAS REQUIREMENTS DECLARATION WORKFLOW DIAGRAM**

440   The gas requirements declaration process begins, generally on a daily basis for the following day, when
441   an End User (e.g. electricity provider) transmits to a Service Provider the detailed gas requirements for
442   the day in question.
443   On reception, the Service Provider acknowledges reception of the electronic document and then waits for
444   the aggregated nomination information for the regions in question to be provided by the system
445   Operator.
446   Once the aggregated nomination information is received, the Service Provider calculates the constraints
447   for the network impacting the End User. This analysis also identifies the margins available during the
448   different periods of the detailed gas requirements schedule.
449   The Service Provider then sends a confirmation to the End User providing the conditions under which the
450   gas requirements can be accepted and the conditions in which changes to the schedule are accepted.

451 **4.3 CONTEXTUAL MODEL OF GAS REQUIREMENTS DECLARATION (GASDEC)**

452

453
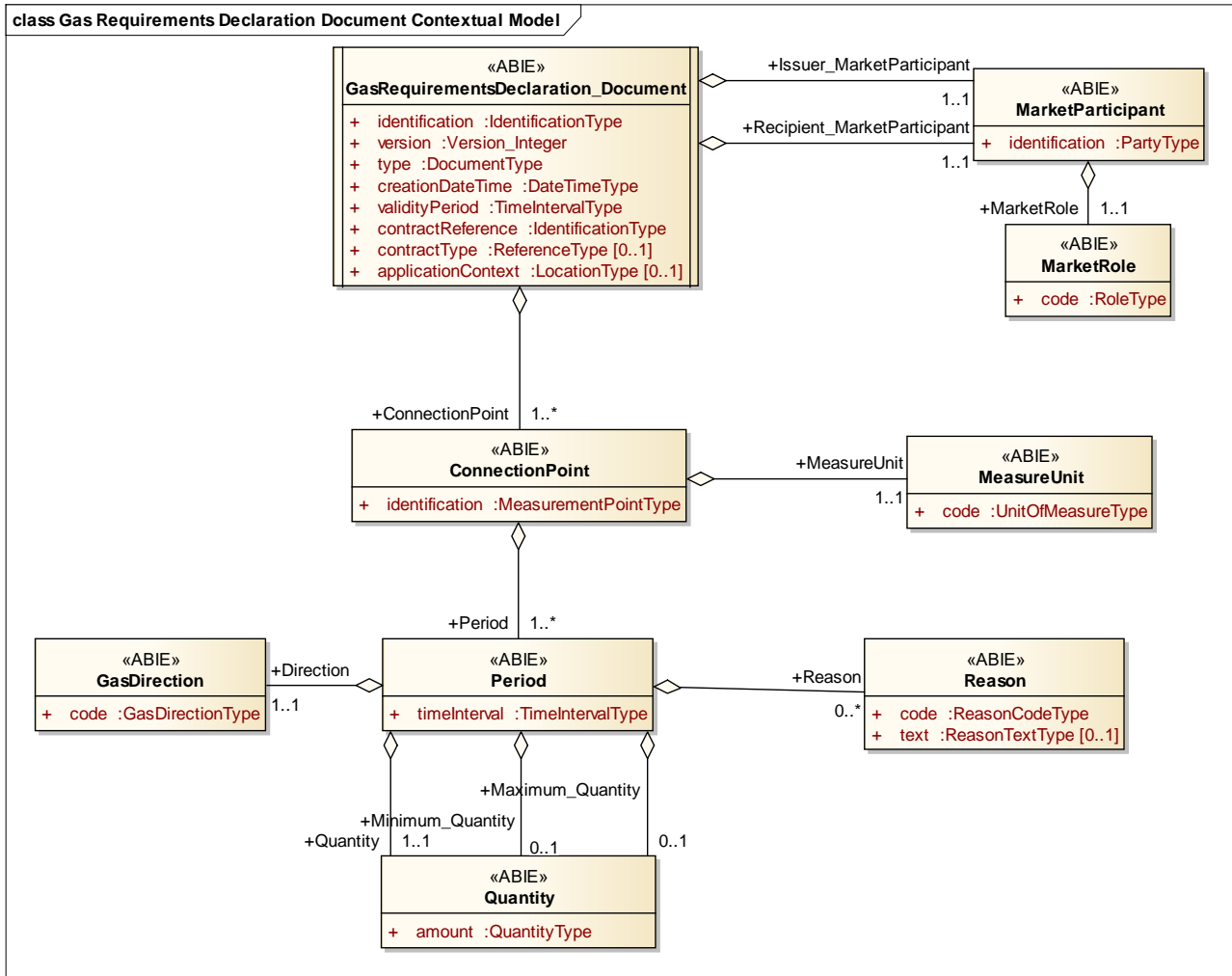
454 **FIGURE 14: GAS REQUIREMENTS DECLARATION DOCUMENT CONTEXTUAL**
455 **MODEL**

456   **4.3.1   INFORMATION MODEL STRUCTURE**
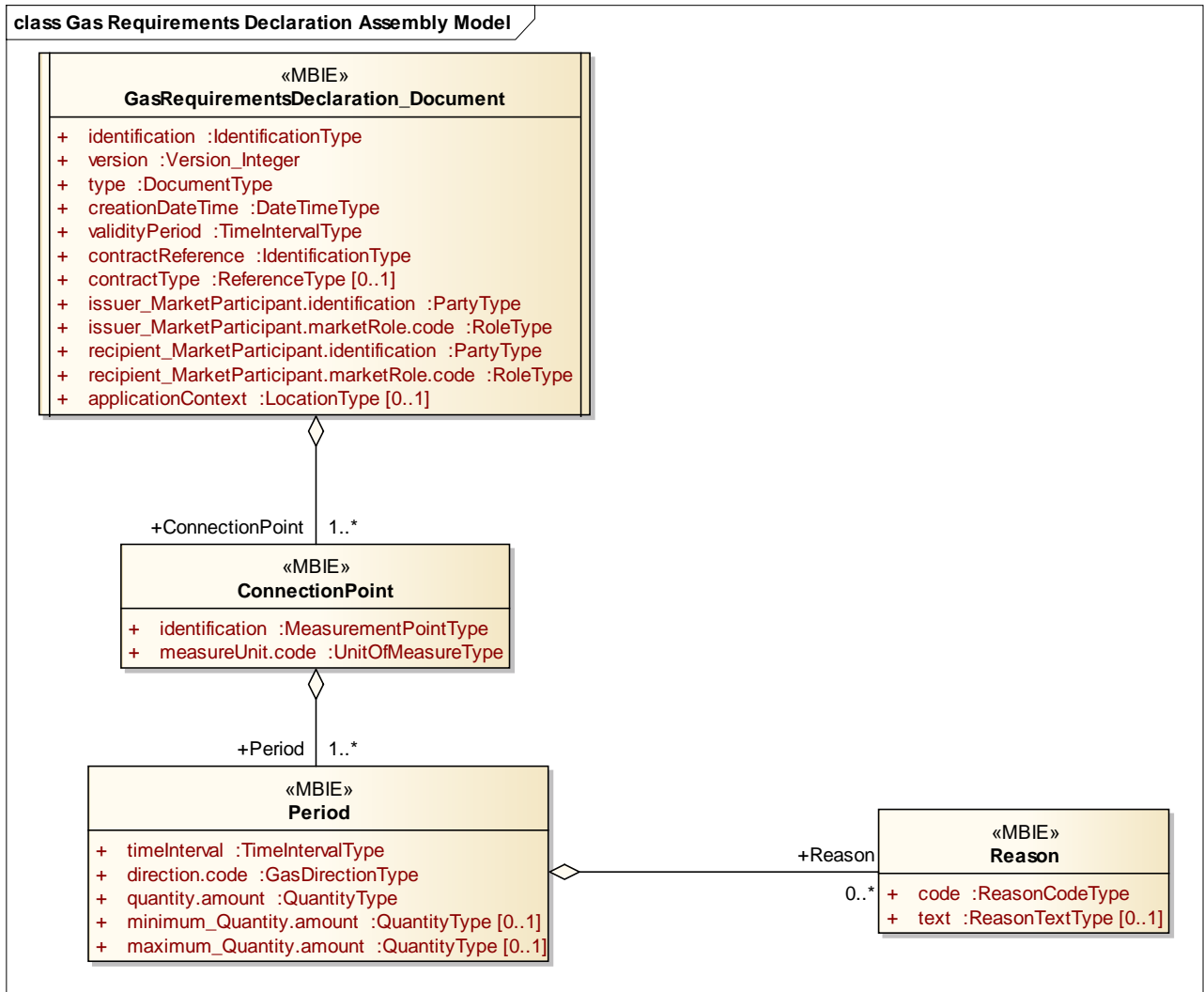
457

458   **FIGURE 15: GAS REQUIREMENTS DECLARATION DOCUMENT ASSEMBLY MODEL**

459   **4.3.2   INFORMATION MODEL DESCRIPTION**

460   **4.3.3   RULES GOVERNING THE GAS REQUIREMENTS DECLARATION DOCUMENT CLASS**

461   A document is uniquely identified by:

462   • The Identification of the document

463   • The Sender Identification

464   • The identification of the Version.

465   **4.3.3.1   IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Gas Requirements Declaration Document.
Description	A Gas Requirements Declaration Document must have an identification assigned by the Issuer of the document to be sent to a recipient.
Size	The identification of a Gas Requirements Declaration Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

466   **4.3.3.2   VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	The document version is used to identify a given version of a Gas Requirements Declaration Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

467   **4.3.3.3   TYPE**

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of the Gas Requirements Declaration Document that is being sent. The following type of Gas Requirements Declaration Document is permitted: AL1 = Gas requirements declaration document. (Reference Edig@s DocumentType code list
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

468 **4.3.3.4 CREATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the Issuer.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

469 **4.3.3.5 VALIDITYPERIOD**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document. This covers the whole period covered in the document
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

470 **4.3.3.6 CONTRACTREFERENCE**

ACTION	DESCRIPTION
Definition of element	Reference to the contract referred to in the document.
Description	The contract reference identifies the contract that is used to qualify the information in the document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

471 **4.3.3.1 CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	Identification of the type of contract covering the document.
Description	The contract type identifies the nature of the contract defined in the document. Refer to the Edig@s ReferenceType codelist for the list of valid codes.
Size	The maximum length of the contract type is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is used depending on local market rules.

472 **4.3.3.2 ISSUER_MARKETPARTICIPANT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who has issued the document.
Description	The Issuer of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an Issuer's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

473 **4.3.3.3 ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has issued the document is playing.
Description	The role being played by the Issuer of the document for this transmission. In the case of the transmission of a Gas Requirements Declaration Document the following role is permitted: UD = End user. (Reference Edig@s RoleType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

474 **4.3.3.4 RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of a recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

475 **4.3.3.5 RECIPIENT_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who receives the document is playing.
Description	The role being played by the recipient of the document for this transmission. In the case of the transmission of a Gas Requirements Declaration Document the following role is permitted: ZTV = Service Provider. (Reference Edig@s RoleType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

476 **4.3.3.6 APPLICATIONCONTEXT – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a particular context that is significant to the recipient.
Description	The application context is used to identify a particular context (location, application, etc.) that is relevant to the recipient of the document. The use of the application context must have previously been mutually agreed contractually. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC location code.
Size	The maximum length of an application context's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided when there is bi lateral agreement between the parties.

477 **4.3.4 RULES GOVERNING THE CONNECTION POINT CLASS**

478 The Connection Point class is provided to identify the connection points that are associated with the End
479 User.

480 **4.3.4.1 IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should indicate the code "305" for an EIC measurement point code or the code "ZSO" for a System Operator code.
Size	The maximum length of the connection point identification is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory
Dependence requirements	None.

481 **4.3.4.2 MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities for a connection point.
Description	The unit of measurement used for all the quantities for a connection point. The following code is permitted: KW1 = Kilowatt-hour per hour (kWh/h)
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

482   **4.3.5   RULES GOVERNING THE PERIOD CLASS**

483   The Period class is present at the Connection Point level to identify the detailed time interval information
484   concerning gas requirements.

485   **4.3.5.1   TIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the duration of the period for which the Gas Requirements Declaration apply.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

486   **4.3.5.2   DIRECTION.CODE**

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the System Operator's area.
Description	This identifies the direction of the energy flow. Intended codes are: Z02 = Input Z03 = Output (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

487   **4.3.5.3   QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The quantity required for the period.
Description	This information defines the quantity required for the period in question. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory
Dependence requirements	None

488   **4.3.5.4   MINIMUM_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The technical minimum debit quantity for the period.
Description	This information defines the technical minimum debit quantity required for the period in question. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependent
Dependence requirements	The information is only used when contractually defined.

489   **4.3.5.5   MAXIMUM_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The technical maximum debit quantity for the period.
Description	This information defines the technical maximum debit quantity required for the period in question. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is dependent
Dependence requirements	The information is only used when contractually defined.

490   **4.3.6   RULES GOVERNING THE REASON CLASS**

491   The Reason class shall be used to provide information concerning maintenance, an incident or a System
492   Operator constraint.

493   **4.3.6.1   CODE**

ACTION	DESCRIPTION
Definition of element	A code providing the status of the quantities.
Description	The reason code provides the status information The following codes are permitted: 22G= Planned maintenance 23G= Unplanned 89G= System Operator request. (Reference Edig@s ReasonCodeType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

494   **4.3.6.2   TEXT**

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of an amendment then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an amendment or an error.

495

4.4 CONTEXTUAL MODEL OF GAS REQUIREMENTS CONFIRMATION (GASCON)
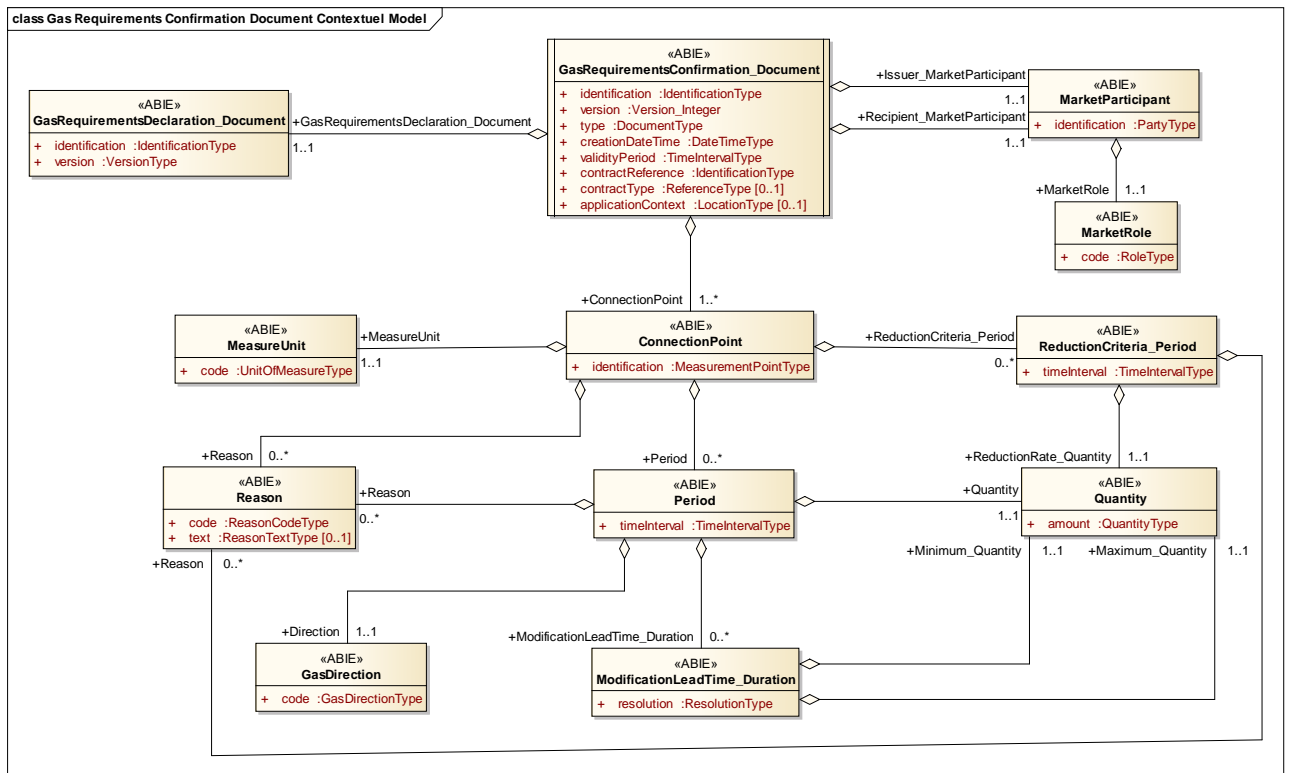
FIGURE 16: GAS REQUIREMENTS CONFIRMATION DOCUMENT CONTEXTUAL MODEL

500   ## 4.4.1   INFORMATION MODEL STRUCTURE

class Gas Requirements Confirmation Document Assembly Model

«MBIE»
GasRequirementsConfirmation_Document

+   identification :IdentificationType
+   version :Version_Integer
+   type :DocumentType
+   creationDateTime :DateTimeType
+   validityPeriod :TimeIntervalType
+   contractReference :IdentificationType
+   contractType :ReferenceType [0..1]
+   issuer_MarketParticipant.identification :PartyType
+   issuer_MarketParticipant.marketRole.code :RoleType
+   recipient_MarketParticipant.identification :PartyType
+   recipient_MarketParticipant.marketRole.code :RoleType
+   applicationContext :LocationType [0..1]
+   gasRequirementsDeclaration_Document.identification :IdentificationType
+   gasRequirementsDeclaration_Document.version :VersionType

+ConnectionPoint   1..*

«MBIE»
ReductionCriteria_Period

+   timeInterval :TimeIntervalType
+   reductionRate_Quantity.amount :QuantityType

+ReductionCriteria_Period

0..*

«MBIE»
ConnectionPoint

+   identification :MeasurementPointType
+   measureUnit.code :UnitOfMeasureType

+Reason   0..*   +Reason   0..*

+Period   0..*

«MBIE»
Reason

+   code :ReasonCodeType
+   text :ReasonTextType [0..1]

+Reason

0..*

«MBIE»
Period

+   timeInterval :TimeIntervalType
+   direction.code :GasDirectionType
+   quantity.amount :QuantityType

+ModificationLeadTime_Duration   0..*

«MBIE»
ModificationLeadTime_Duration

+   resolution :ResolutionType
+   minimum_Quantity.amount :QuantityType
+   maximum_Quantity.amount :QuantityType

501

502   **FIGURE 17: GAS REQUIREMENTS CONFIRMATION DOCUMENT ASSEMBLY MODEL**

503 **4.4.2 INFORMATION MODEL DESCRIPTION**

504 **4.4.3 RULES GOVERNING THE GAS REQUIREMENTS CONFIRMATION DOCUMENT CLASS**

505 A document is uniquely identified by:

506 • The Identification of the document

507 • The Sender Identification

508 • The identification of the Version.

509 **4.4.3.1 IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Gas Requirements Confirmation Document.
Description	A Gas Requirements Confirmation Document must have an identification assigned by the Issuer of the document to be sent to a recipient. The Issuer must guarantee that this identification is unique over time.
Size	The identification of a Gas Requirements Confirmation Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

510 **4.4.3.2 VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	The document version is used to identify a given version of a Gas Requirements Confirmation Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

511 **4.4.3.3 TYPE**

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of the Gas Requirements Confirmation Document that is being sent. The following type of Gas Requirements Confirmation Document is permitted: AL2 = Gas Requirements Confirmation document. (Reference Edig@s DocumentType code list).
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

512   **4.4.3.4   CREATIONDATETIME**

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the Document.
Description	The date and time that the document was prepared for transmission by the application of the Issuer.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

513   **4.4.3.5   VALIDITYPERIOD**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document. This covers the whole period covered in the document
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

514   **4.4.3.6   CONTRACTREFERENCE**

ACTION	DESCRIPTION
Definition of element	Reference to the contract referred to in the document.
Description	The contract reference identifies the contract that is used to qualify the information in the document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

515   **4.4.3.7   CONTRACTTYPE**

ACTION	DESCRIPTION
Definition of element	Identification of the type of contract covering the document.
Description	The contract type identifies the nature of the contract defined in the document. Refer to the Edig@s ReferenceType codelist for the list of valid codes.
Size	The maximum length of the contract type is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is used depending on local market rules.

516 **4.4.3.8 ISSUER_MARKETPARTICIPANT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who has issued the document.
Description	The Issuer of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of an Issuer's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

517 **4.4.3.9 ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has issued the document is playing.
Description	The role being played by the Issuer of the document for this transmission. In the case of the transmission of a Gas Requirements Confirmation Document the following role is permitted: ZTV = Service Provider (Reference Edig@s RoleType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

518 **4.4.3.10 RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC party code.
Size	The maximum length of a recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

519 **4.4.3.11 RECIPIENT_MARKETPARTICIPANT.MARKETROLE.CODE**

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who receives the document is playing.
Description	The role being played by the recipient of the document for this transmission. In the case of the transmission of a Gas Requirements Confirmation Document the following role is permitted: UD = Ultimate Customer (Reference Edig@s RoleType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

520 **4.4.3.12 APPLICATIONCONTEXT – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a particular context that is significant to the recipient.
Description	The application context is used to identify a particular context (location, application, etc.) that is relevant to the recipient of the document. The use of the application context must have previously been mutually agreed contractually. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate the code "305" for an EIC location code.
Size	The maximum length of an application context's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided when there is bi lateral agreement between the parties.

521 **4.4.3.13 GASREQUIREMENTSDECLARATION_DOCUMENT.IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the Gas Requirements Declaration Document that the Gas Requirements Confirmation Document is referring to.
Description	A Gas Requirements Declaration Document must have been previously sent by the recipient of the Gas Requirements Confirmation Document. If no initialising electronic XML document has been received prior to the emission of the current document or if it is based on the contents of a paper document then this attribute shall contain the word "DEFAULT".
Size	The identification may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

522   **4.4.3.14 GASREQUIREMENTSDECLARATION_DOCUMENT.VERSION**

ACTION	DESCRIPTION
Definition of element	Version of the document being confirmed.
Description	This version must correspond to the version of the Gas Requirements Declaration Document previously sent by the recipient. If no electronic XML document is used then the version shall contain the number "1".
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

523   **4.4.4 RULES GOVERNING THE CONNECTION POINT CLASS**

524
525 The connection point class is provided to identify the connection points that are associated with the End User.

526   **4.4.4.1 IDENTIFICATION – CODINGSCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a connection point.
Description	The identification of a connection point within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and shall indicate either the code "305" for an EIC measurement point code or the code "ZSO" for a System Operator code.
Size	The maximum length of the connection point identification is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory
Dependence requirements	None.

527   **4.4.4.2 MEASUREUNIT.CODE**

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities for a connection point.
Description	The unit of measurement used for all the quantities for a connection point. The following code is permitted: KW1 = Kilowatt-hour per hour (kWh/h) (Reference Edig@s UnitOfMeasureType code list)?
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

528 ## 4.4.5   RULES GOVERNING THE PERIOD CLASS

529 The Period class is present at the connection point level to identify the detailed time interval information
530 concerning gas requirements that have been confirmed.

531 ### 4.4.5.1   TIMEINTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the duration of the period for which the Gas Requirements Confirmation applies.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

532 ### 4.4.5.2   DIRECTION.CODE

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow is to be seen from the perspective of the System Operator's area.
Description	This identifies the direction of the energy flow. Permitted codes are: Z02 = Input Z03 = Output. (Reference Edig@s GasDirectionType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

533 ### 4.4.5.3   QUANTITY.AMOUNT

ACTION	DESCRIPTION
Definition of element	The quantity required for the period.
Description	This information defines the quantity required for the period in question. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory
Dependence requirements	None

534 **4.4.6 RULES GOVERNING THE MODIFICATION LEAD TIME DURATION CLASS**

535 The Modification Lead Time Duration class provides the information at the period level indicating the lead
536 time in which it is possible to provide modifications to the Period in question. It also provides the
537 minimum and maximum quantities that can be changed

538 **4.4.6.1 RESOLUTION**

ACTION	DESCRIPTION
Definition of element	The lead time prior to the time interval when a modification may be made.
Description	This information provides the lead time before a given time interval when a modification may be applied to the period in question.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

539 **4.4.6.2 MINIMUM_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The minimum quantity that can be changed for the period.
Description	This information defines the minimum quantity to which the current quantity for the period in question can be altered to. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory
Dependence requirements	None

540 **4.4.6.3 MAXIMUM_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The maximum quantity that chan be changed for the period.
Description	This information defines the maximum quantity to which the current quantity for the period in question can be altered to. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory
Dependence requirements	None

541 **4.4.7   RULES GOVERNING THE REDUCTION CRITERIA PERIOD CLASS**

542 The Reduction Criteria Period class provides information concerning reduction criteria that may be applicable.

543 **4.4.7.1   TIMEINTERVAL**

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the duration of the period for which the reduction criteria applies.
Size	Refer to section 1.2 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

544 **4.4.7.2   REDUCTIONRATE_QUANTITY.AMOUNT**

ACTION	DESCRIPTION
Definition of element	The rate for a given reduction.
Description	This identifies the rate of reduction that is to be used for the time interval in question. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark, if used, included). All leading zeros are to be suppressed. The number of decimal places identifying the fractional part of the quantity depends on local market rules.
Applicability	This information is mandatory
Dependence requirements	None

545 **4.4.8   RULES GOVERNING THE REASON CLASS**

546 The Reason class shall be used to provide:

547   1. At the connection point level, the status of the network (e.g. not congested, congested, risk of
548   congestion,..).

549   2. At the Period level to indicate if anything has been changed with the quantities (e.g. quantity
550   reduced).

551   3. At the reduction criteria level to indicate the justification for the application of a rate of
552   reduction.

553 **4.4.8.1   CODE**

ACTION	DESCRIPTION
Definition of element	A code providing the status of the agreement
Description	The reason code provides the status information depending on the level where it is found. The following codes are permitted: 85G= Network not congested 86G= Network congested 87G= Network risk of congestion 88G = Quantity reduced (Reference Edig@s ReasonCodeType code list).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

554 **4.4.8.2   REASONTEXT**

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of an amendment then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an amendment or an error.

555

556   # 5   DOCUMENT CHANGE LOG

Package	Version	Date	Description
5.0	1	2013-07-03	Initial release
5.1	2	2013-12-19	Modified to ensure the alignment of all names in the models. Addition of the Account TSO to identify the TSO responsible for the creation of the account identification.
5.1	3	2017-10-18	Correction of figure 4 the name and type of REQRES.
5.1	4	2018-07-11	Remove the generic term "YYY" in section 3.4.5 and replace it with the codes "ZBQ" or "Z08". Update schema to cater fro new form of defining "release"

557