

SECTION

II

Infrastructure Messages

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BALMAN***Balance management******Version 4.0******EASEE-gas/Edig@s Workgroup******Document version: 2***

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Please note that as of version 5 of the Edig@s message set;
only the XML syntax shall be supported
This is in compliance with the EASEE-gas CBP 2007-005/01

1 INTRODUCTION

This document provides the definition of the Edig@s Balance Management Program – BALMAN – that consists of set of coherent messages to be used in Electronic Data Interchange (EDI) between Gas Companies.

It is strongly recommended to read the Introduction to the Edig@s MIG before implementing a template since it contains a number of general rules that are applicable for all the Edig@s messages.

1.1 FUNCTIONAL DEFINITION

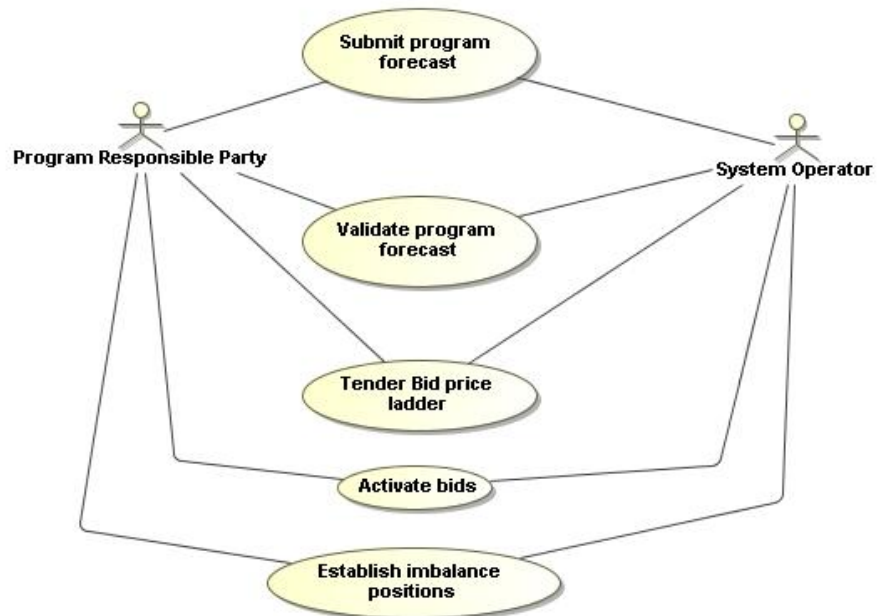


FIGURE 1: BALANCE MANAGEMENT USE CASE

The Balance Management Program enables a System Operator to cater for unintended deviations from the normal nominated daily schedules. In order to cater for such unintended deviations a System Operator is required to determine the eventual possibility where the system could fall outside the normal operating limits of the network. Such operating limits include the potential for the system Operator to respond to limited overflow or underflow of the network without having to call upon external resources.

However, when the system falls outside defined limits the System Operator has to call upon additional resources from the market. The Balance Management Program caters for both the request for additional resources and the establishment of settlement rules for the offenders to pay for the cost of the use of the additional resources.

The identification of the additional resources is carried out by Program Responsible Parties identifying their unused resources and presenting these resources for potential use at a given price.

This enables the System Operator to establish a Bid Price Ladder from which resources may be called upon on a least price basis.

At a later stage the incurred costs are distributed amongst the market participants that were at the origin of the unintentional deviation.

1.2 PRINCIPLES

Before the beginning of a gas day the Program Responsible Parties are obliged to submit to the System Operator their program forecast for the day ahead. The program is validated and approved by the System Operator.

Once the transport forecasts are established the System Operator identifies the requirements for potential additional resources. The Program Responsible Parties that have available additional resources may provide their possibilities in the form of bids with a proposed price to the System Operator.

The System Operator establishes a "Bid Price Ladder" by listing all the bids in an order that respects a formal sorting priority. The resulting Bid Price Ladder is published for the day ahead. The Bid Price Ladder may be revised during the course of the gas day in question.

With each case of unintentional deviation the System Operator activates a bid from the bid price ladder to stabilise the situation.

The system Operator then identifies the market participants that aided in reducing the deviation as well as those that increased the deviation. This is set out in an imbalance report and sent to the market participants.

1.3 FIELD OF APPLICATION

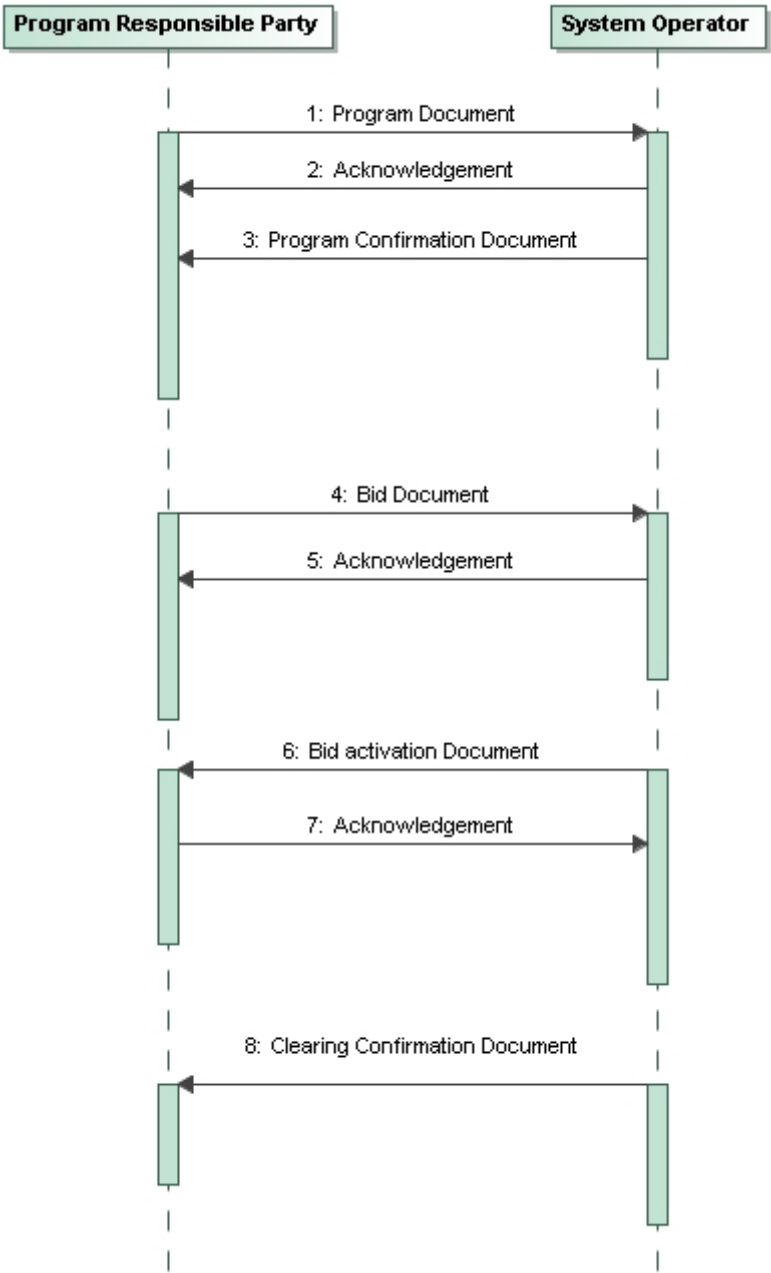


FIGURE 2: INFORMATION FLOW SEQUENCE

The first phase of the Balance Management Program necessitates the submission of the Program Document (PRODOC) by the Program Responsible Parties to the System Operator. All Program Documents submitted are acknowledged after

155 successful reception by the System operator through the use of a standard
156 acknowledgement document.
157 This program is verified and validated and the results of this process are
158 provided to the Program Responsible Party in the form of a Program
159 Confirmation Document (PROCON).
160 The bidding progress takes place when the System Operator posts on its website
161 the requirements for the day ahead of the resources necessary to ensure the
162 network security of the system.
163 The Program Responsible Parties can offer to the System Operator any available
164 resources that they can dispose of through the use of a Bid Document
165 (BIDDOC). This document enables the Program Responsible Party to submit bids
166 for the hours, quantities and prices where resources can be supplied. The
167 System Operator acknowledges reception of these bids through the use of a
168 standard acknowledgement document.
169 The bids are then assembled together into a bid price ladder using market
170 specific criteria. Whenever resources are necessary the System Operator
171 examines the bid price ladder and takes the first bid satisfying the requirements
172 from it. He then calls up the resources from the Program Responsible Party with
173 the activation of the bid in question using a Bid Activation Document (BIDACT).
174 After each call the concerned Program Responsible Parties are informed through
175 a Clearing Confirmation Document (CLRCON) of the changes of their account
176 situation. Certain Parties may be considered as providing assistance to the
177 stability of the network and will have their situation credited whereas other
178 parties may be considered as worsening the situation of the network and will
179 have their situation debited.

1.4 WORKFLOW

1.4.1 Program forecast workflow

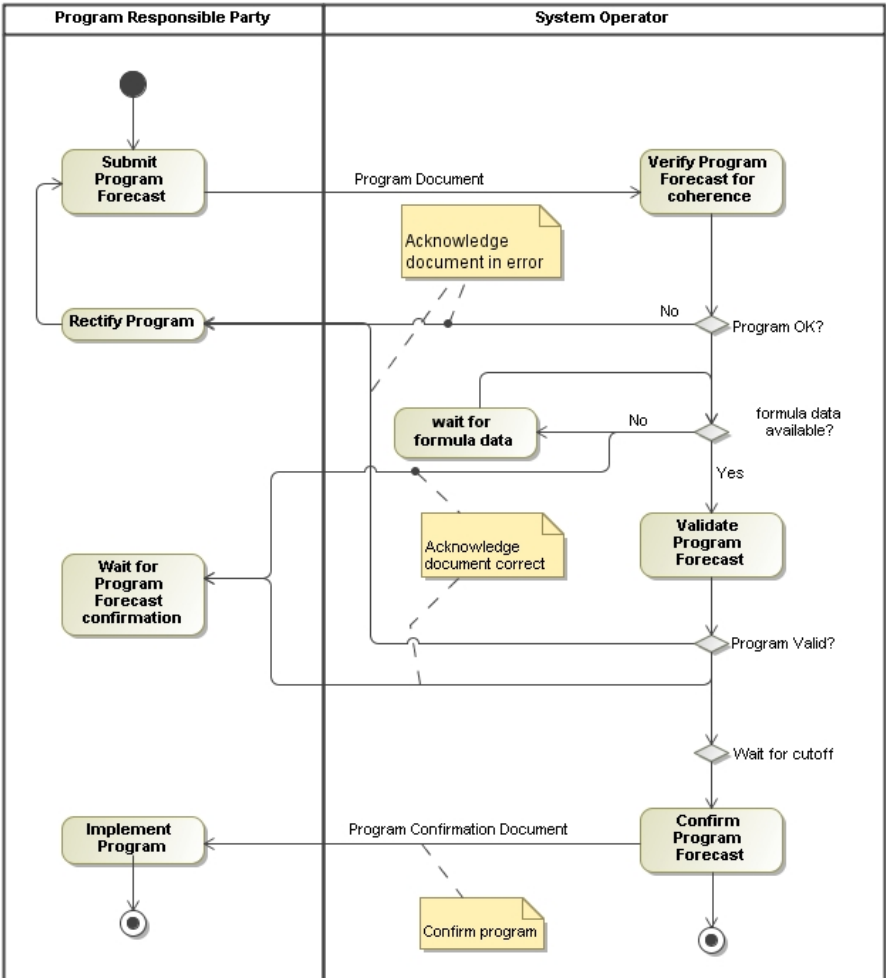


FIGURE 3: PROGRAM FORECAST WORKFLOW

The Daily Balance Management Program for the day ahead starts with the submission of the Program Document (PRODOC) to the System Operator by the Program Responsible Party.

On reception the System Operator verifies the overall coherence of the document and if there is a problem informs the Program Responsible Party accordingly.

If the data necessary to apply any formula is unavailable an acknowledgement is sent informing him that the information is correct at the current time.

When the data necessary to apply the formulas becomes available the System Operator validates the Program Document for the Programme Responsible Party. A negative acknowledgement is sent informing him of the problems. Otherwise a positive acknowledgement is sent.

Once all the program forecasts have been received or the cut off time has passed the System Operator ensures that all entry and exit programs correspond.

When all the checks have been successfully carried out the System Operator informs the Program Responsible Party with a Program Confirmation Document (PROCON).

202

1.4.2 Bidding and activation process workflow

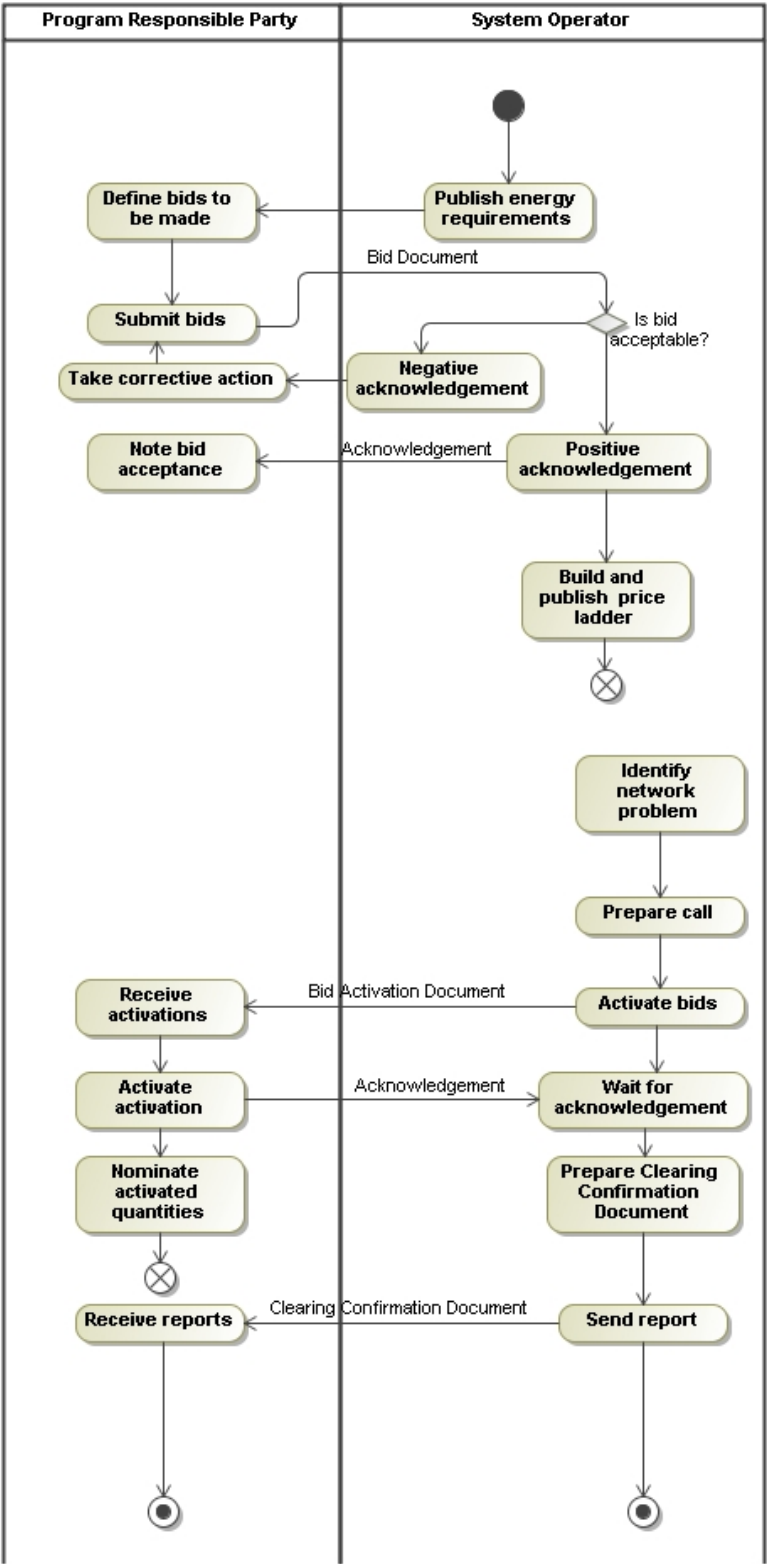


FIGURE 4: BID AND ACTIVATION WORKFLOW

The bid process is initiated by the System Operator who evaluates the energy requirements that may be necessary for the coming gas period and makes these available to the Program Responsible Parties.

The Program Responsible Parties define their bid strategy and submit their bids to the System Operator making use of a Bid Document (BIDDOC).

The System Operator verifies that the bid is coherent and if everything is alright sends a positive acknowledgement. In the case of problems a negative

acknowledgment is sent and the Program Responsible Party reviews the problem and resubmits a new version of the bid document with the corrected information.

The System Operator uses the accepted bids to build up a bid price ladder which is made generally available. This ends the first phase of the bidding and activation process.

Whenever a network problem is identified which requires the injection or subtraction of gas from the network the System Operator initiates the activation process.

The bid price ladder is examined and the Program Responsible Parties whose bids satisfy the requirements to bring the network back to a stable position are called up through a bid activation document (BIDACT) of the quantities the gas required to meet the System Operators network security needs.

The Program Responsible Parties acknowledge reception of the bid activation document and then prepare the necessary nominations needed to meet the required gas quantities.

Once the Program Responsible Parties have acknowledged the Bid activation document the System Operator prepares the Clearing Confirmation Document (CLRCON) to provide all the interested parties with their situation in relation to the call that had been made. Some parties will be considered as naturally having helped the network security problem whilst others will be considered as having caused the network security problem. Depending on the case each party will be informed of the deviation that has been allocated to it through the transmission of the Clearing Confirmation Document.

1.5 REFERENCES

The content of the PRODOC, PROCON, BIDDOC, BIDACT and CLRCON messages are based on the definition of terms and codes as agreed by the Edig@s Workgroup.

2 INFORMATION MODEL FOR PROGRAM DOCUMENT (PRODOC)

2.1 INFORMATION MODEL STRUCTURE

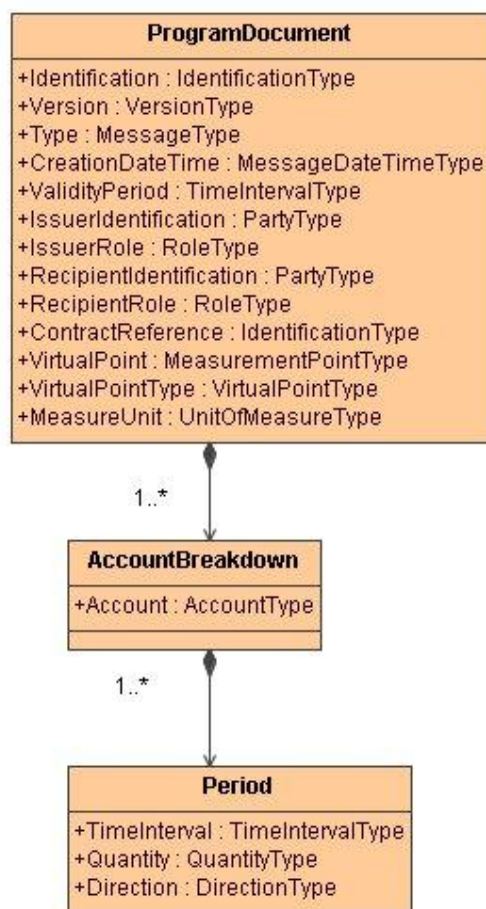


FIGURE 5: PROGRAM DOCUMENT INFORMATION MODEL

2.2 INFORMATION MODEL DESCRIPTION

2.2.1 Rules governing the Program Document Class

There shall be one Program Document for each Contract Reference per entry program, per exit program and per trade program. In the specific cases of entry and exit programs, transfer accounts may be included.

A Program Document is identified by its Identification, the Issuer Identification and the Version. If the Version of the document changes (i.e. same Identification and Issuer) then the document replaces completely the previous version received.

2.2.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Program Document.
Description	<p>A Program Document must have an identification assigned by the Issuer of the document to be sent to a recipient. The identification may take the following form: PRODOC followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "PRODOC20090101A00001".</p> <p>The sender must guarantee that this identification is unique over time.</p> <p>A document is uniquely identified by the concatenation of the following attributes:</p> <ul style="list-style-type: none"> • Identification • Version • Issuer Identification
Size	The identification of a Program Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a Program Document.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

11 2.2.1.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of the Program Document that is being sent. The following types of Program Document are currently permitted: ALH = Trade Program ALI = Entry Program ALJ = Exit Program
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

12 2.2.1.4 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

13 2.2.1.5 VALIDITY PERIOD

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 generally identifies one gas day.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

14 2.2.1.6 ISSUERIDENTIFICATION – CODINGScheme

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The Issuer of the document is identified by a unique coded identification. This code normally identifies the Program Responsible Party who is 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

15 2.2.1.7 ISSUERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated 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 Program Document this shall always be equal to "ZTT" for "Holder".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

16 2.2.1.8 RECIPIENTIDENTIFICATION – 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

17 2.2.1.9 RECIPIENTROLE

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 Program Document this shall always be equal to "ZSO" for "System Operator".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

18 2.2.1.10 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the portfolio of the Program Responsible Party.
Description	The contract reference identifies the portfolio of the Program Responsible Party within the System Operator's domain.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

19 2.2.1.11 VIRTUALPOINT – CODINGScheme

ACTION	DESCRIPTION
Definition of element	The identification of the Virtual Point that is the subject of this document.
Description	The identification of the virtual 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 should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the virtual point identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the virtual point identification and the coding scheme are mandatory.
Dependence requirements	None.

20 2.2.1.12 VIRTUALPOINTTYPE

ACTION	DESCRIPTION
Definition of element	The identification of the type of Virtual Point that is the subject of this document.
Description	The identification of the type virtual point that the document is referencing. The virtual point types that have been currently identified are: Z24 = Program Responsible Party Virtual Point
Size	The maximum length of the virtual point type is 3 alphanumeric characters.
Applicability	The virtual point type is mandatory.
Dependence requirements	None.

21 2.2.1.13 MEASUREUNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the Period class of the document.
Description	The unit of measurement used for all the quantities expressed within a Period class. The following is the code recommended for use: 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.

2.2.2 Rules governing the AccountBreakdown class

The Account Breakdown class is provided for all Program Documents. This covers the entry and exit programs or transfer programs within a given portfolio.

2.2.2.1 ACCOUNT

ACTION	DESCRIPTION
Definition of element	The identification of the account of a counter party or parties where the gas is programmed.
Description	The identification of the counter party or parties account within a System Operator's system. An account may be defined to isolate a specific sub type of a given account type that has to be managed. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should 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.

2.2.3 Rules governing the Period Class

There must always be one or many Period classes related to an Account Breakdown Class.
The sum of the Time Intervals within the Period class shall cover a whole gas day or multiple gas days depending on the Validity Period.

2.2.3.1 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.3.2 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity for the virtual point within the time interval in question.
Description	This information defines the quantity for the virtual 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 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.

2.2.3.3 DIRECTION

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
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

3 INFORMATION MODEL FOR PROGRAM CONFIRMATION DOCUMENT (PROCON)

3.1 INFORMATION MODEL STRUCTURE

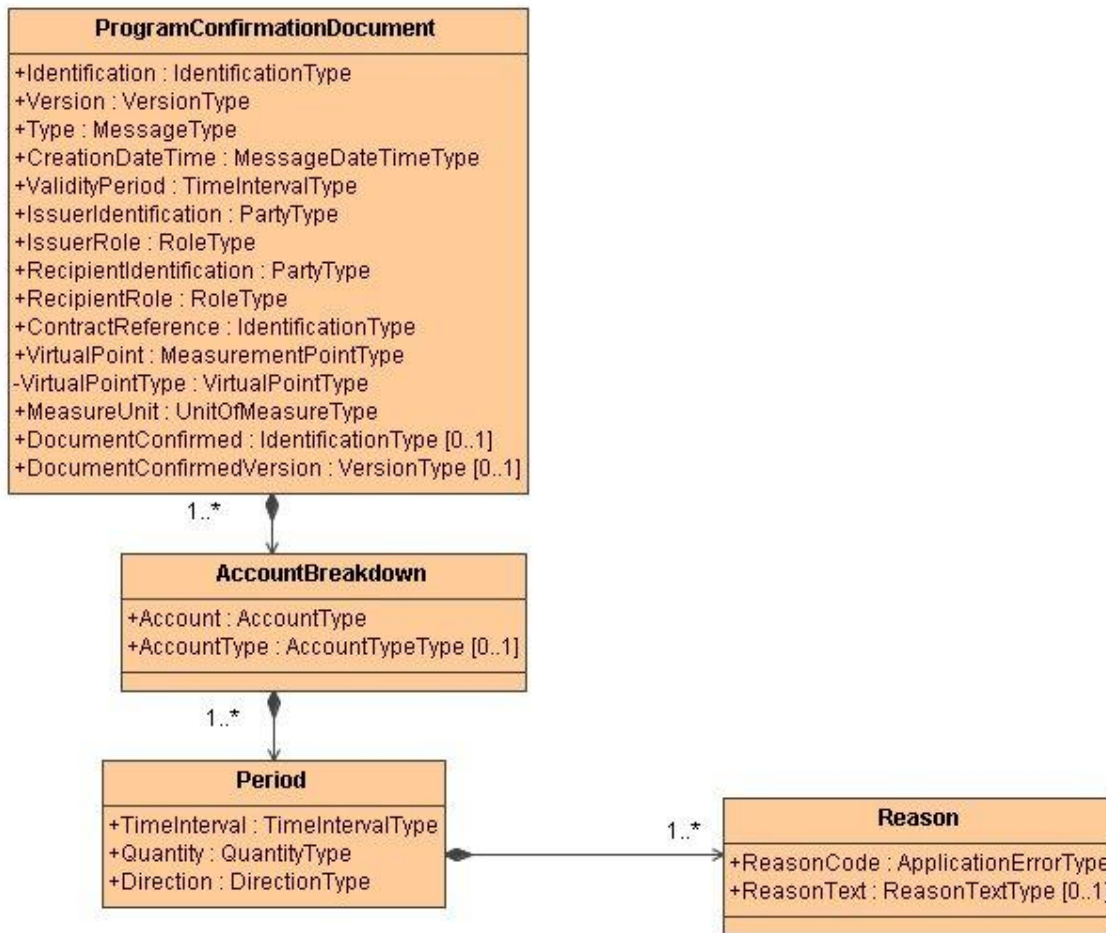


FIGURE 6: PROGRAM CONFIRMATION DOCUMENT INFORMATION MODEL

3.1.1 Rules governing the Program Confirmation Document Class

A Program Confirmation Document must be issued in response to a Program Document. It shall contain all the information found in the document being confirmed with eventual changes or the addition of a differences account.

3.1.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Program Confirmation Document.
Description	<p>A Program Confirmation Document must have an identification assigned by the Issuer of the document to be sent to a recipient.</p> <p>The identification may take the following form: PROCON followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "PROCON20090101A00001".</p> <p>The sender must guarantee that this identification is unique over time.</p> <p>A document is uniquely identified by the concatenation of the following attributes:</p> <ul style="list-style-type: none"> • Identification • Version • Issuer Identification
Size	The identification of a Program Confirmation Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

3.1.1.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a Program Confirmation Document.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

3.1.1.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	<p>This identifies the type of the Program Confirmation Document that is being sent.</p> <p>The following types of Program Confirmation Document are currently permitted:</p> <p>ALK = Trade Confirmation ALL = Entry Confirmation ALM = Exit Confirmation</p>
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

44 3.1.1.4 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

45 3.1.1.5 VALIDITY PERIOD

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 corresponds to that of the confirmed document.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

46 3.1.1.6 ISSUERIDENTIFICATION – CODINGScheme

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The Issuer of the document is identified by a unique coded identification. This code normally identifies the System Operator who is 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

47 3.1.1.7 ISSUERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated 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 Program Confirmation Document this shall always be equal to "ZSO" for "System Operator".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

48 **3.1.1.8 RECIPIENTIDENTIFICATION – 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

49 **3.1.1.9 RECIPIENTROLE**

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 Program Confirmation Document this shall always be equal to "ZTT" for "Holder".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

50 **3.1.1.10 CONTRACT REFERENCE**

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the portfolio of the Program Responsible Party.
Description	The contract reference identifies the portfolio of the Program Responsible Party with the System Operator and corresponds to the value in the confirmed document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

51 **3.1.1.11 VIRTUALPOINT – CODINGScheme**

ACTION	DESCRIPTION
Definition of element	The identification of the Virtual Point that was the subject of the Program Document.
Description	The identification of the virtual point within a System Operator's system for which the document is referencing and corresponds to the value in the confirmed document.
Size	The maximum length of the virtual point identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the virtual point identification and the coding scheme are mandatory.
Dependence requirements	None.

52 3.1.1.12 VIRTUALPOINTTYPE

ACTION	DESCRIPTION
Definition of element	The identification of the type of Virtual Point that is the subject of the Program Document.
Description	The identification of the type virtual point that the document is referencing and corresponds to the value in the confirmed document.
Size	The maximum length of the virtual point type is 3 alphanumeric characters.
Applicability	The virtual point type is mandatory.
Dependence requirements	None.

53 3.1.1.13 MEASUREUNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the Period class of the document.
Description	The unit of measurement used for all the quantities expressed within a Period class. This corresponds to that of the Confirmed Document
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

54 3.1.1.14 DOCUMENTCONFIRMED

ACTION	DESCRIPTION
Definition of element	The identification of the Program Document being confirmed.
Description	This identification must correspond to a Program Document that has been previously submitted by a Programme Responsible Party
Size	The identification of a Document Confirmed identification may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This attribute is not provided if there is no Program Document. However a confirmation may be sent providing the accounts and zero values

55 3.1.1.15 DOCUMENTCONFIRMEDVERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being confirmed
Description	The document version is used to identify the version of the Program Document being confirmed
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is dependent.
Dependence requirements	This attribute is not provided if there is no Program Document. However a confirmation may be sent providing the accounts and zero values

3.1.2 Rules governing the AccountBreakdown class

All the Account Breakdown classes that have been identified in the Program Document must be provided in the Program Confirmation Document.

An additional Party Breakdown class may be provided by the System Operator to identify a differences account if this has not already been provided.

3.1.2.1 ACCOUNT

ACTION	DESCRIPTION
Definition of element	The identification of the account to which the gas is destined.
Description	The identification of the account 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 "ZSO" if it is 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.

3.1.2.2 ACCOUNT TYPE

ACTION	DESCRIPTION
Definition of element	The identification of the type of the account
Description	The identification of the type played by the account. The following Types are have been initially identified: ZTX = Differences account, the difference between the entry and exit in a program as calculated by the System Operator.
Size	The maximum length of the Type is 3 alphanumeric characters.
Applicability	This attribute is dependent
Dependence requirements	The AccountType is required when the account is a differences account.

3.1.3 Rules governing the Period Class

All Period classes identified in the Program Document class must be provided in the Program Confirmation Document.
 Additional Period class information may be provided in the case where a Differences account Breakdown class has been added by the System Operator.
 The sum of the Time Intervals within the Period class shall cover a whole gas period or multiple gas periods depending on the Validity Period.

3.1.3.1 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

3.1.3.2 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity for the virtual point within the time interval in question.
Description	This information defines the quantity for the virtual 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 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.

3.1.3.3 DIRECTION

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
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

74 **3.1.4 Rules governing the Reason class**

75 The Reason class may be used to provide additional information.. It shall be used at the Period
76 level to identify any Quantity values that have been changed.

77 **3.1.4.1 REASONCODE**

ACTION	DESCRIPTION
Definition of element	A code providing the reason for an amendment or rejection
Description	The reason code provides the reason of an amendment. As many reason elements as necessary may be used. Refer to Edig@s codelist 9321 for the list of valid codes.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

78 **3.1.4.2 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.

4 INFORMATION MODEL FOR BID DOCUMENT (BIDDOC)

4.1 INFORMATION MODEL STRUCTURE

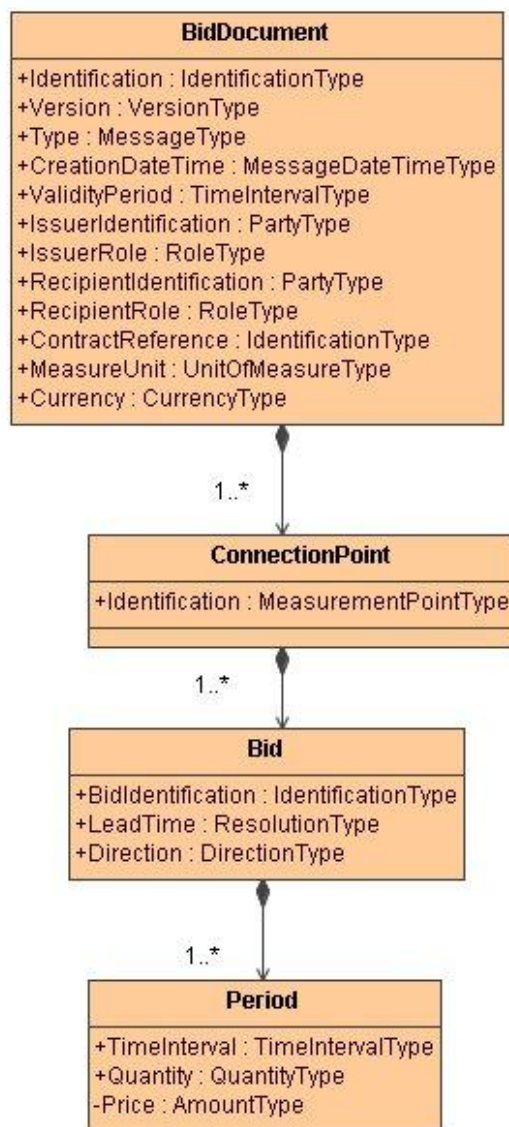


FIGURE 7: BID DOCUMENT INFORMATION MODEL

4.1.1 Rules governing the Bid Document Class

A Bid Document is issued by a party proposing additional resources that may be called up to satisfy any unforeseen situations in order to maintain network security. If a bid is revised a new version of the previous bid document must be transmitted.

4.1.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Bid Document.
Description	<p>A Bid Document must have an identification assigned by the Issuer of the document to be sent to a recipient.</p> <p>The identification may take the following form: BIDDOC followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "BIDDOC20090101A00001".</p> <p>For a given gasday the Bid identification should remain the same. The Version shall be used to identify modifications to the document throughout the day.</p> <p>The sender must guarantee that this identification is unique over time for a given gas day.</p> <p>A document is uniquely identified by the concatenation of the following attributes:</p> <ul style="list-style-type: none"> • Identification • Version • Issuer Identification
Size	The identification of a Bid Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

4.1.1.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a bid document.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

4.1.1.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	<p>This identifies the type of the Bid Document that is being sent.</p> <p>The following types of Bid Document are currently permitted:</p> <p>ALN = Bid</p> <p>ALO = Reserve Bid</p>
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

90 4.1.1.4 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

91 4.1.1.5 VALIDITY PERIOD

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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

92 4.1.1.6 ISSUERIDENTIFICATION – CODINGScheme

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The Issuer of the document is identified by a unique coded identification. This code normally identifies the Programme Responsible party who is 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

93 4.1.1.7 ISSUERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated 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 Bid Document this shall always be equal to "ZTT" for "Holder".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

94 4.1.1.8 RECIPIENTIDENTIFICATION – 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

95 4.1.1.9 RECIPIENTROLE

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 Bid Document this shall always be equal to "ZSO" for "System Operator".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

96 4.1.1.10 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the portfolio of the Program Responsible Party.
Description	The contract reference identifies the portfolio of the Program Responsible Party with the System Operator and corresponds to the value in the confirmed document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

97 4.1.1.11 MEASUREUNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the Period class of the document.
Description	The unit of measurement used for all the quantities expressed within a Period class. The following are the codes recommended for use: 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.

98 4.1.1.12 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the price is expressed.
Description	This information defines the currency of the price within the time interval period. Refer to Edig@s Code list document for the valid list of codes.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

99 4.1.2 Rules governing the Connection Point Class

100 There may one to many Connection Points in a Bid Document.

101 4.1.2.1 CONNECTION POINT – 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 should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the connection point identification is 16 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.

4.1.3 Rules governing the Bid Class

As many Bid classes are provided that are necessary to cover all the different bids a Programme Responsible Party wishes to submit.

A Bid Identification shall cover a single gas day (i.e. 23, 24 or 25 hours).

If there are multiple lead times or Directions for a given Time Interval (e.g. the same hour) then these must be defined as different Bids.

4.1.3.1 BIDIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of a bid that is being submitted.
Description	A Bid identification is assigned by the Issuer of the document to uniquely identify the bid being submitted.
Size	The bid Identification may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

4.1.3.2 LEAD TIME

ACTION	DESCRIPTION
Definition of element	The time defining the maximum delivery delay.
Description	A lead time that defines the maximum delivery delay required for the supply of gas.
Size	The lead time is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. For example PT30M expresses a 30 minute lead time.
Applicability	This information is mandatory.
Dependence requirements	None

4.1.3.3 DIRECTION

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow of the quantity 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
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

4.1.4 Rules governing the Period Class

There must always be a Period class to cover each of the 23, 24 or 25 hours for the bid that is being submitted.

4.1.4.1 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 that is bid is covering.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

4.1.4.2 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity that is being submitted as a bid for the time interval in question
Description	This information defines the quantity of gas 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 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.

4.1.4.3 PRICE

ACTION	DESCRIPTION
Definition of element	The price of the quantity of gas that is bid.
Description	The price that the submittor is asking for the quantity of gas for the period in question.
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. A price may be expressed as a positive amount which signifies that the amount is to be paid for the gas whereas a negative amount signifies that the amount in question shall be given for the gas. The number of decimal places identifying the fractional part of the price is normally 2 digits but it depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

5 BID ACTIVATION DOCUMENT (BIDACT)

5.1 INFORMATION MODEL

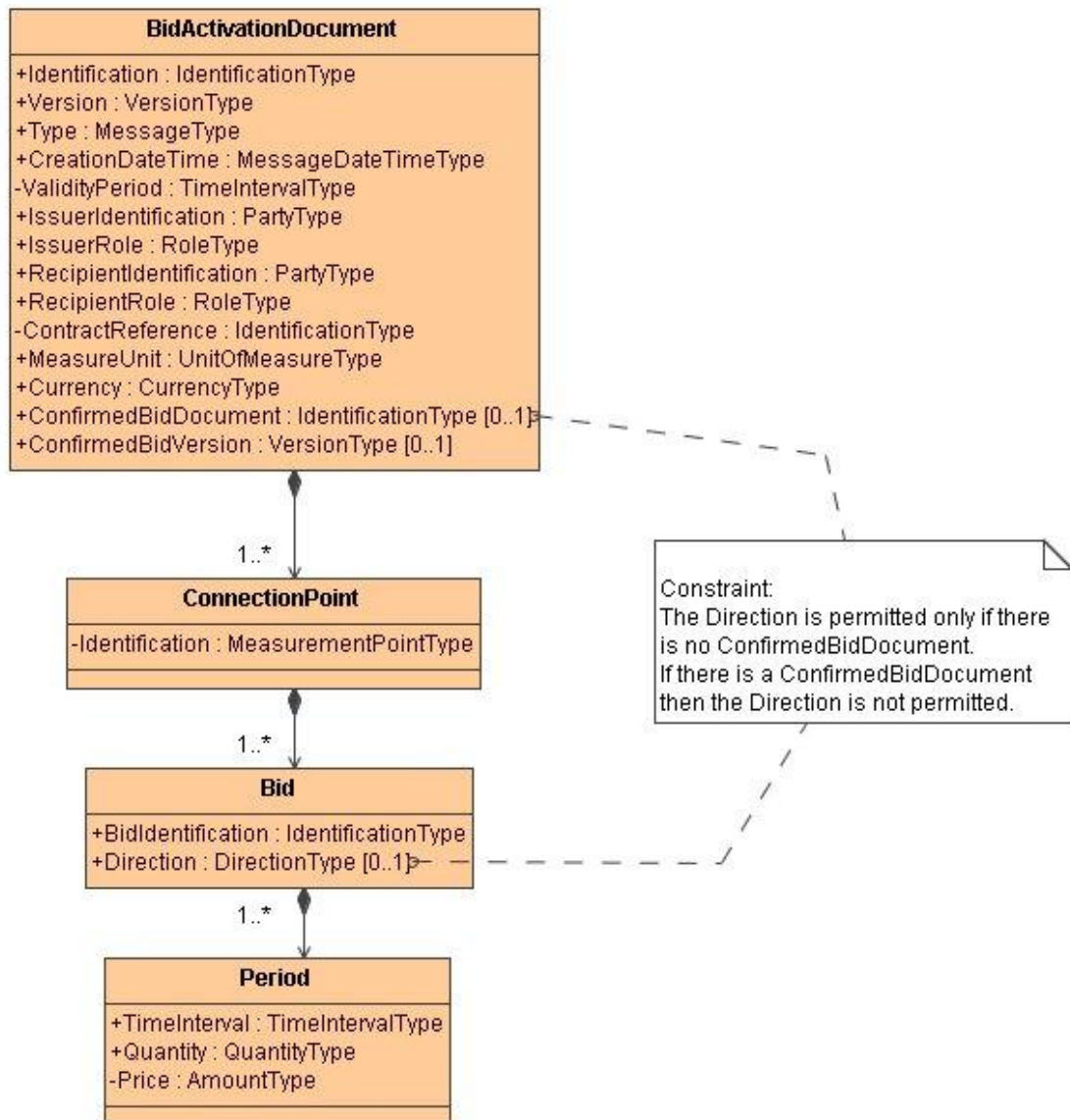


FIGURE 8: BID ACTIVATION DOCUMENT INFORMATION MODEL

5.1.1 Rules governing the Bid Activation Document Class

A Bid Activation Document is issued by a System Operator to call up a bid to satisfy any unforeseen situations in order to maintain network security.

5.1.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Bid Activation Document.
Description	<p>A Bid Activation Document must have an identification assigned by the Issuer of the document to be sent to a recipient. The identification may take the following form: BIDACT followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "BIDACT20090101A00001".</p> <p>The sender must guarantee that this identification is unique over time for a given gas day.</p> <p>A document is uniquely identified by the concatenation of the following attributes:</p> <ul style="list-style-type: none"> • Identification • Version • Issuer Identification
Size	The identification of a Bid Activation Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

5.1.1.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a bid activation document.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

5.1.1.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	<p>This identifies the type of the Bid Activation Document that is being sent.</p> <p>The following types of Bid Activation Document are currently permitted:</p> <p>ALP = Bid activation</p> <p>ALQ = emergency activation</p>
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

128 5.1.1.4 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

129 5.1.1.5 VALIDITY PERIOD

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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

130 5.1.1.6 ISSUERIDENTIFICATION – CODINGScheme

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The Issuer of the document is identified by a unique coded identification. This code normally identifies the Programme Responsible party who is 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

131 5.1.1.7 ISSUERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated 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 Bid Activation Document this shall always be "ZSO" for "System Operator".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

5.1.1.8 RECIPIENTIDENTIFICATION – 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

5.1.1.9 RECIPIENTROLE

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 Bid Activation Document this shall always be equal to "ZTT" for "Holder".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

5.1.1.10 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the portfolio of the Program Responsible Party.
Description	The contract reference identifies the portfolio of the Program Responsible Party with the System Operator and corresponds to the value in the confirmed document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

5.1.1.11 MEASUREUNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the Period class of the document.
Description	The unit of measurement used for all the quantities expressed within a Period class. The following are the codes recommended for use: 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.

136 5.1.1.12 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the price is expressed.
Description	This information defines the currency of the price within the time interval period. Refer to Edig@s Code list document for the valid list of codes.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

137 5.1.1.13 CONFIRMED BID DOCUMENT

ACTION	DESCRIPTION
Definition of element	Identification of the Bid Document being activated
Description	A Bid Activation shall identify the Bid being activated. This identifies the document identification.
Size	The identification of a Bid Document may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	In the case of emergency activations there is no reference to a bid document

138 5.1.1.14 CONFIRMED BID VERSION

ACTION	DESCRIPTION
Definition of element	Version of the bid document being activated.
Description	This identifies the bid document version that is being activated.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is dependent.
Dependence requirements	In the case of emergency activations there is no reference to a bid document

5.1.2 Rules governing the Connection Point Class

There may one to many Connection Points in a Bid Activation Document.

5.1.2.1 CONNECTION POINT – 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 should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the connection point identification is 16 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.

5.1.3 Rules governing the Bid Class

As many Bid classes are provided that are necessary to cover all the different bids that are necessary to satisfy the activation requirements.

The Direction attribute is only permitted in the case where there is no BidDocument identified in the document header.

In the case where there is a BidDocument identified in the document header then the direction is determined by that defined in the Biddocument in question.

5.1.3.1 BIDIDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of a bid that is to be used in the activation.
Description	A Bid identification is assigned by the Issuer of the document to uniquely identify the bid that had originally been submitted.
Size	The bid Identification may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

5.1.3.2 DIRECTION

ACTION	DESCRIPTION
Definition of element	Identifies how the energy flow of the quantity 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
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only permitted in the case where there is no BidDocument identified in the document header.

5.1.4 Rules governing the Period Class

There must always be a Period class to cover the quantities that are needed to satisfy the activation requirement from the bid.

5.1.4.1 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 that is required for the activation.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

5.1.4.2 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity that has to be activated in the time interval in question
Description	This information defines the quantity of gas 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 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.

5.1.4.3 PRICE

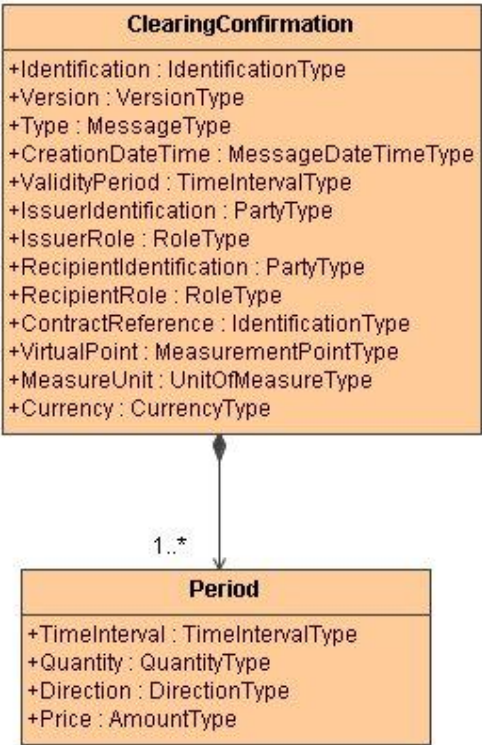
ACTION	DESCRIPTION
Definition of element	The price of the quantity of gas that will be paid for the activation.
Description	The price that the System Operator will pay from the price bid ladder for the quantity of gas for the period in question. This corresponds to the highest price of the called quantity and does not necessarily correspond to the bid price
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 price is normally 2 digits but it depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

159

6 CLEARING CONFIRMATION DOCUMENT (CLRCON)

160

6.1 INFORMATION MODEL



161

162

FIGURE 9: CLEARING CONFIRMATION DOCUMENT INFORMATION MODEL

6.1.1 Rules governing the Clearing Confirmation Document Class

A Clearing Confirmation Document is issued by a System Operator after a call has been made to the Bid Ladder to inform the involved parties of the revised account situation following the call.

6.1.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Clearing Confirmation Document.
Description	<p>A Clearing Confirmation Document must have a unique identification assigned by the Issuer of the document to be sent to a recipient.</p> <p>The identification may take the following form: CLRCON followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "CLRCON20090101A00001".</p> <p>For a given gasday the Clearing Confirmation identification should remain the same. The Version shall be used to identify modifications to the document throughout the day.</p> <p>The sender must guarantee that this identification is unique over time for a given gas day.</p> <p>A document is uniquely identified by the concatenation of the following attributes:</p> <ul style="list-style-type: none"> • Identification • Version • Issuer Identification
Size	The identification of a Clearing Confirmation Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

6.1.1.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a Clearing Confirmation Document.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

169 6.1.1.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of the Clearing Confirmation Document that is being sent. The following types of Clearing Confirmation Document are currently permitted: ALR = Assistance gas clearing confirmation ALS = Culprit clearing confirmation ALT = Emergency clearing confirmation
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

170 6.1.1.4 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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

171 6.1.1.5 VALIDITY PERIOD

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 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

172 6.1.1.6 ISSUERIDENTIFICATION – CODINGScheme

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The Issuer of the document is identified by a unique coded identification. This code normally identifies the Programme Responsible party who is 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

173 6.1.1.7 ISSUERROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated the document is playing.
Description	The role being played by the Issuer of the document for this transmission. This shall always be "ZSO" for "System Operator".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

174 6.1.1.8 RECIPIENTIDENTIFICATION – 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 should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC 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.

175 6.1.1.9 RECIPIENTROLE

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. This shall always be equal to "ZTT" for "Holder".
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

176 6.1.1.10 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the portfolio of the Program Responsible Party.
Description	The contract reference identifies the portfolio of the Program Responsible Party with the System Operator domain.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

177 6.1.1.11 VIRTUALPOINT – CODINGScheme

ACTION	DESCRIPTION
Definition of element	The identification of the Virtual Point that is the subject of this document.
Description	The identification of the virtual 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 should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the virtual point identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the virtual point identification and the coding scheme are mandatory.
Dependence requirements	None.

178 6.1.1.12 MEASUREUNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the CallTime class of the document.
Description	The unit of measurement used for all the quantities expressed within a CallTime class. The following are the codes recommended for use: 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.

179 6.1.1.13 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the price is expressed.
Description	This information defines the currency of the price within the time interval period. Refer to Edig@s Code list document for the valid list of codes.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

6.1.2 Rules governing the Period Class

There must always be a Period class to cover the Periods that are being reported.

6.1.2.1 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 that is required for the activation.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

6.1.2.2 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity for that has to be cleared within the time interval in question.
Description	This information defines the quantity that has to be cleared 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 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.

6.1.2.3 DIRECTION

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
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

6.1.2.4 PRICE

ACTION	DESCRIPTION
Definition of element	The price of the quantity of gas that has to be cleared.
Description	The price of the gas that has to be cleared.
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 price is normally 2 digits but it depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

7 XML IMPLEMENTATION OF PRODOC

7.1 XML STRUCTURE

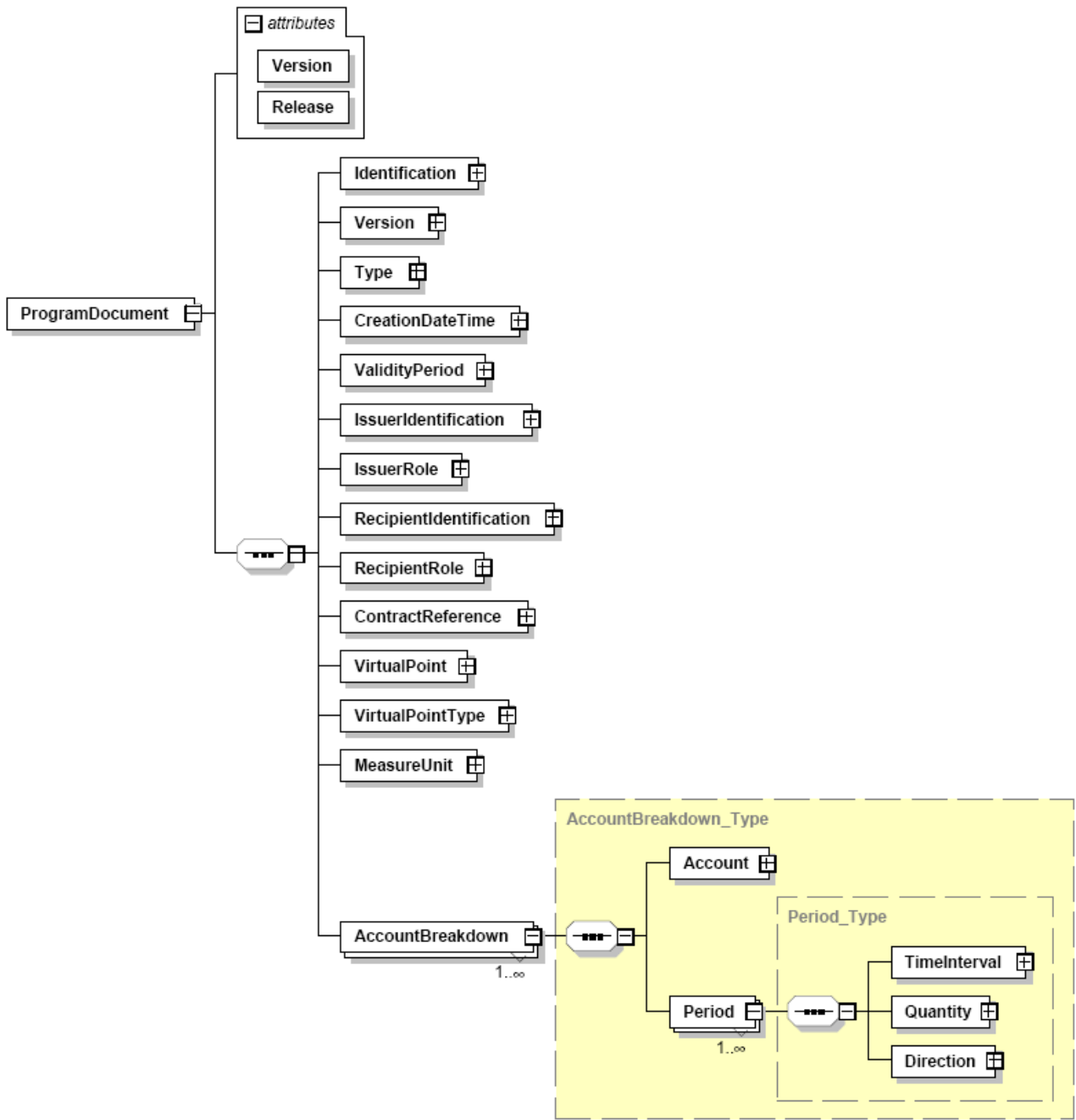


FIGURE 10: PROGRAM DOCUMENT XML SCHEMA MODEL

7.2 XML SCHEMA

7.2.1 Introduction

All electronic documents using this Implementation guide Specification shall complete the document Version and Release attributes as follows:

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

7.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="ProgramDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```

263         <xsd:element name="VirtualPoint" type="ecc:MeasurementPointType">
264             <xsd:annotation>
265                 <xsd:documentation/>
266             </xsd:annotation>
267         </xsd:element>
268         <xsd:element name="VirtualPointType" type="ecc:VirtualPointType">
269             <xsd:annotation>
270                 <xsd:documentation/>
271             </xsd:annotation>
272         </xsd:element>
273         <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
274             <xsd:annotation>
275                 <xsd:documentation/>
276             </xsd:annotation>
277         </xsd:element>
278         <xsd:element name="AccountBreakdown" type="AccountBreakdown_Type"
279 maxOccurs="unbounded"/>
280     </xsd:sequence>
281     <xsd:attribute name="Version" type="xsd:string" use="required"/>
282     <xsd:attribute name="Release" type="xsd:string" use="required"/>
283 </xsd:complexType>
284 </xsd:element>
285 <xsd:complexType name="Period_Type">
286     <xsd:annotation>
287         <xsd:documentation/>
288     </xsd:annotation>
289     <xsd:sequence>
290         <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
291             <xsd:annotation>
292                 <xsd:documentation/>
293             </xsd:annotation>
294         </xsd:element>
295         <xsd:element name="Quantity" type="ecc:QuantityType">
296             <xsd:annotation>
297                 <xsd:documentation/>
298             </xsd:annotation>
299         </xsd:element>
300         <xsd:element name="Direction" type="ecc:DirectionType">
301             <xsd:annotation>
302                 <xsd:documentation/>
303             </xsd:annotation>
304         </xsd:element>
305     </xsd:sequence>
306 </xsd:complexType>
307 <xsd:complexType name="AccountBreakdown_Type">
308     <xsd:annotation>
309         <xsd:documentation/>
310     </xsd:annotation>
311     <xsd:sequence>
312         <xsd:element name="Account" type="ecc:AccountType">
313             <xsd:annotation>
314                 <xsd:documentation/>
315             </xsd:annotation>
316         </xsd:element>
317         <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
318     </xsd:sequence>
319 </xsd:complexType>
320 </xsd:schema>
321

```


8 XML IMPLEMENTATION OF PROCON

8.1 XML STRUCTURE

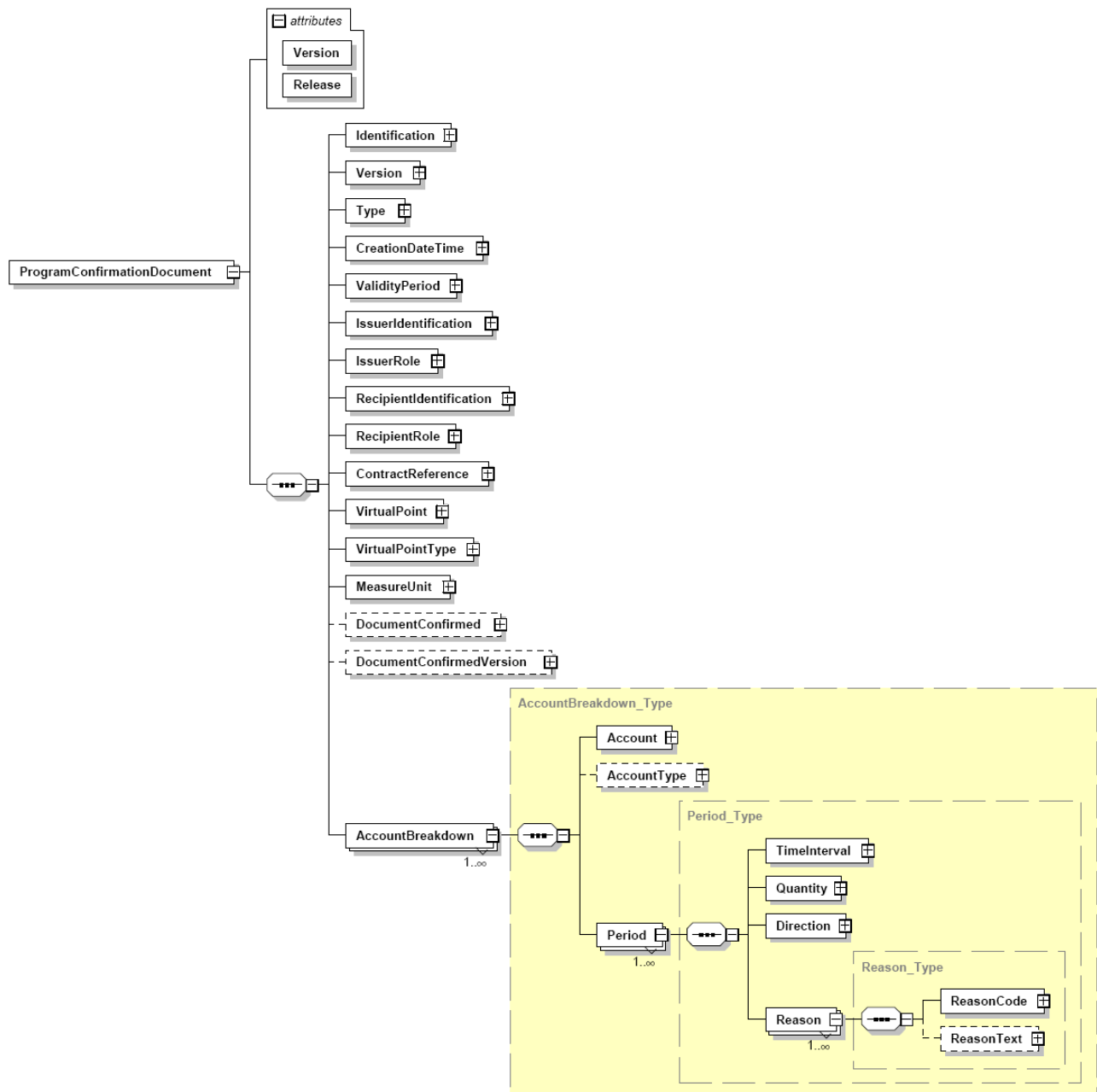


FIGURE 11: PROGRAM CONFIRMATION DOCUMENT XML SCHEMA MODEL

8.2 XML SCHEMA

8.2.1 Introduction

All electronic documents using this Implementation guide Specification shall complete the document Version and Release attributes as follows:

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

8.2.2 Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="ProgramConfirmationDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

```

```

398         <xsd:element name="VirtualPoint" type="ecc:MeasurementPointType">
399             <xsd:annotation>
400                 <xsd:documentation/>
401             </xsd:annotation>
402         </xsd:element>
403         <xsd:element name="VirtualPointType" type="ecc:VirtualPointType">
404             <xsd:annotation>
405                 <xsd:documentation/>
406             </xsd:annotation>
407         </xsd:element>
408         <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
409             <xsd:annotation>
410                 <xsd:documentation/>
411             </xsd:annotation>
412         </xsd:element>
413         <xsd:element name="DocumentConfirmed" type="ecc:IdentificationType" minOccurs="0">
414             <xsd:annotation>
415                 <xsd:documentation/>
416             </xsd:annotation>
417         </xsd:element>
418         <xsd:element name="DocumentConfirmedVersion" type="ecc:VersionType" minOccurs="0">
419             <xsd:annotation>
420                 <xsd:documentation/>
421             </xsd:annotation>
422         </xsd:element>
423         <xsd:element name="AccountBreakdown" type="AccountBreakdown_Type"
424 maxOccurs="unbounded"/>
425             </xsd:sequence>
426             <xsd:attribute name="Version" type="xsd:string" use="required"/>
427             <xsd:attribute name="Release" type="xsd:string" use="required"/>
428         </xsd:complexType>
429     </xsd:element>
430     <xsd:complexType name="Period_Type">
431         <xsd:annotation>
432             <xsd:documentation/>
433         </xsd:annotation>
434         <xsd:sequence>
435             <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
436                 <xsd:annotation>
437                     <xsd:documentation/>
438                 </xsd:annotation>
439             </xsd:element>
440             <xsd:element name="Quantity" type="ecc:QuantityType">
441                 <xsd:annotation>
442                     <xsd:documentation/>
443                 </xsd:annotation>
444             </xsd:element>
445             <xsd:element name="Direction" type="ecc:DirectionType">
446                 <xsd:annotation>
447                     <xsd:documentation/>
448                 </xsd:annotation>
449             </xsd:element>
450             <xsd:element name="Reason" type="Reason_Type" maxOccurs="unbounded"/>
451         </xsd:sequence>
452     </xsd:complexType>
453     <xsd:complexType name="AccountBreakdown_Type">
454         <xsd:annotation>
455             <xsd:documentation/>
456         </xsd:annotation>
457         <xsd:sequence>
458             <xsd:element name="Account" type="ecc:AccountType">
459                 <xsd:annotation>
460                     <xsd:documentation/>
461                 </xsd:annotation>
462             </xsd:element>
463             <xsd:element name="AccountType" type="ecc:AccountTypeType" minOccurs="0">
464                 <xsd:annotation>
465                     <xsd:documentation/>
466                 </xsd:annotation>
467             </xsd:element>
468             <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
469         </xsd:sequence>
470     </xsd:complexType>
471     <xsd:complexType name="Reason_Type">
472         <xsd:annotation>
473             <xsd:documentation/>
474         </xsd:annotation>
475         <xsd:sequence>

```

```
476         <xsd:element name="ReasonCode" type="ecc:ApplicationErrorType">
477             <xsd:annotation>
478                 <xsd:documentation/>
479             </xsd:annotation>
480         </xsd:element>
481         <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
482             <xsd:annotation>
483                 <xsd:documentation/>
484             </xsd:annotation>
485         </xsd:element>
486     </xsd:sequence>
487 </xsd:complexType>
488 </xsd:schema>
489
```

9 XML IMPLEMENTATION OF BIDDOC

9.1 XML STRUCTURE

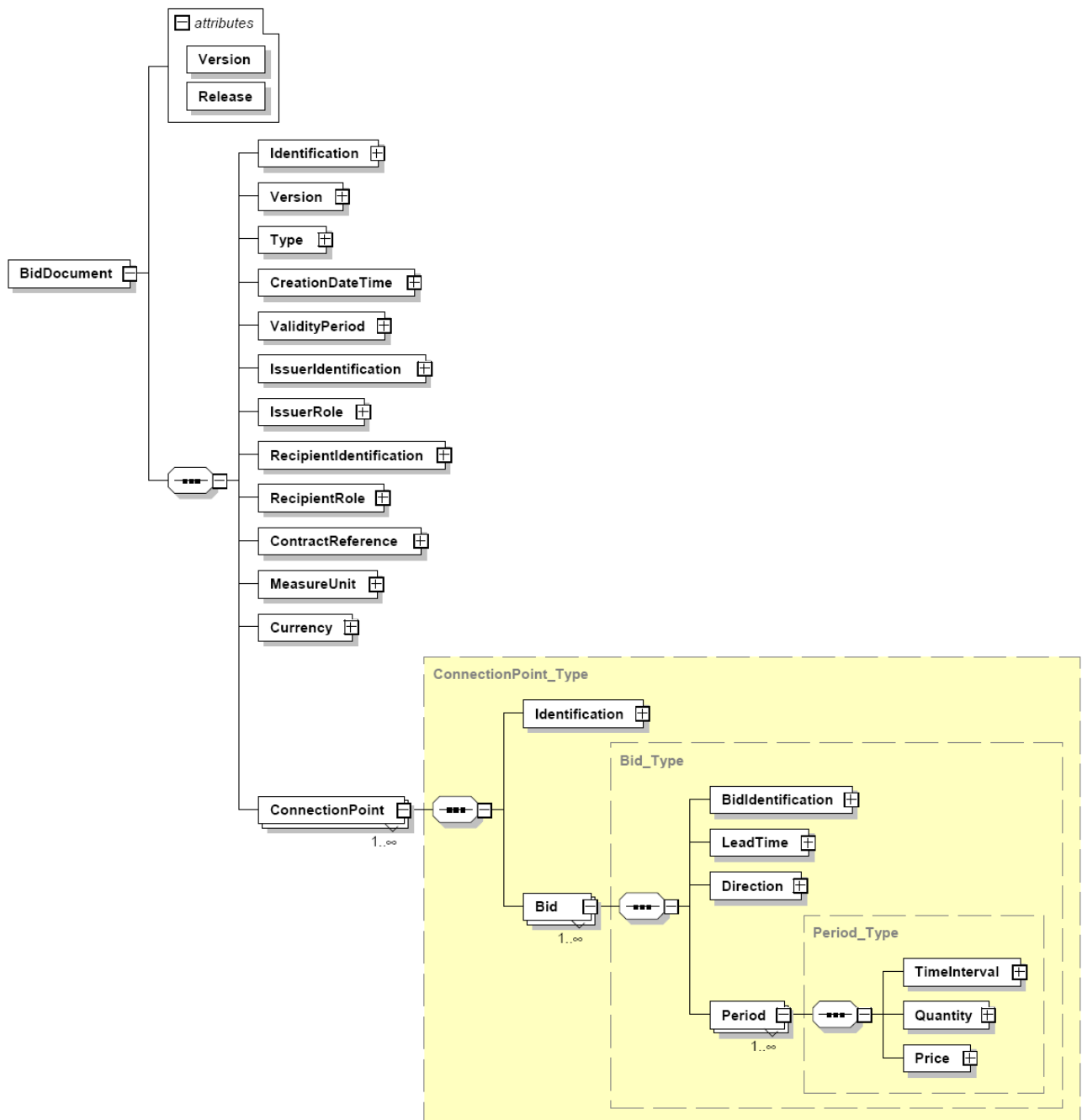


FIGURE 12: BID DOCUMENT XML SCHEMA MODEL

9.2 XML SCHEMA

9.2.1 Introduction

All electronic documents using this Implementation guide Specification shall complete the document Version and Release attributes as follows:

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

9.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="BidDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```

566         <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
567             <xsd:annotation>
568                 <xsd:documentation/>
569             </xsd:annotation>
570         </xsd:element>
571         <xsd:element name="Currency" type="ecc:CurrencyType">
572             <xsd:annotation>
573                 <xsd:documentation/>
574             </xsd:annotation>
575         </xsd:element>
576         <xsd:element name="ConnectionPoint" type="ConnectionPoint_Type"
577 maxOccurs="unbounded"/>
578     </xsd:sequence>
579     <xsd:attribute name="Version" type="xsd:string" use="required"/>
580     <xsd:attribute name="Release" type="xsd:string" use="required"/>
581 </xsd:complexType>
582 </xsd:element>
583 <xsd:complexType name="Bid_Type">
584     <xsd:annotation>
585         <xsd:documentation/>
586     </xsd:annotation>
587     <xsd:sequence>
588         <xsd:element name="BidIdentification" type="ecc:IdentificationType">
589             <xsd:annotation>
590                 <xsd:documentation/>
591             </xsd:annotation>
592         </xsd:element>
593         <xsd:element name="LeadTime" type="ecc:ResolutionType">
594             <xsd:annotation>
595                 <xsd:documentation/>
596             </xsd:annotation>
597         </xsd:element>
598         <xsd:element name="Direction" type="ecc:DirectionType">
599             <xsd:annotation>
600                 <xsd:documentation/>
601             </xsd:annotation>
602         </xsd:element>
603         <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
604     </xsd:sequence>
605 </xsd:complexType>
606 <xsd:complexType name="ConnectionPoint_Type">
607     <xsd:annotation>
608         <xsd:documentation/>
609     </xsd:annotation>
610     <xsd:sequence>
611         <xsd:element name="Identification" type="ecc:MeasurementPointType">
612             <xsd:annotation>
613                 <xsd:documentation/>
614             </xsd:annotation>
615         </xsd:element>
616         <xsd:element name="Bid" type="Bid_Type" maxOccurs="unbounded"/>
617     </xsd:sequence>
618 </xsd:complexType>
619 <xsd:complexType name="Period_Type">
620     <xsd:annotation>
621         <xsd:documentation/>
622     </xsd:annotation>
623     <xsd:sequence>
624         <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
625             <xsd:annotation>
626                 <xsd:documentation/>
627             </xsd:annotation>
628         </xsd:element>
629         <xsd:element name="Quantity" type="ecc:QuantityType">
630             <xsd:annotation>
631                 <xsd:documentation/>
632             </xsd:annotation>
633         </xsd:element>
634         <xsd:element name="Price" type="ecc:AmountType">
635             <xsd:annotation>
636                 <xsd:documentation/>
637             </xsd:annotation>
638         </xsd:element>
639     </xsd:sequence>
640 </xsd:complexType>
641 </xsd:schema>

```

10 XML IMPLEMENTATION OF BIDACT

10.1 XML STRUCTURE

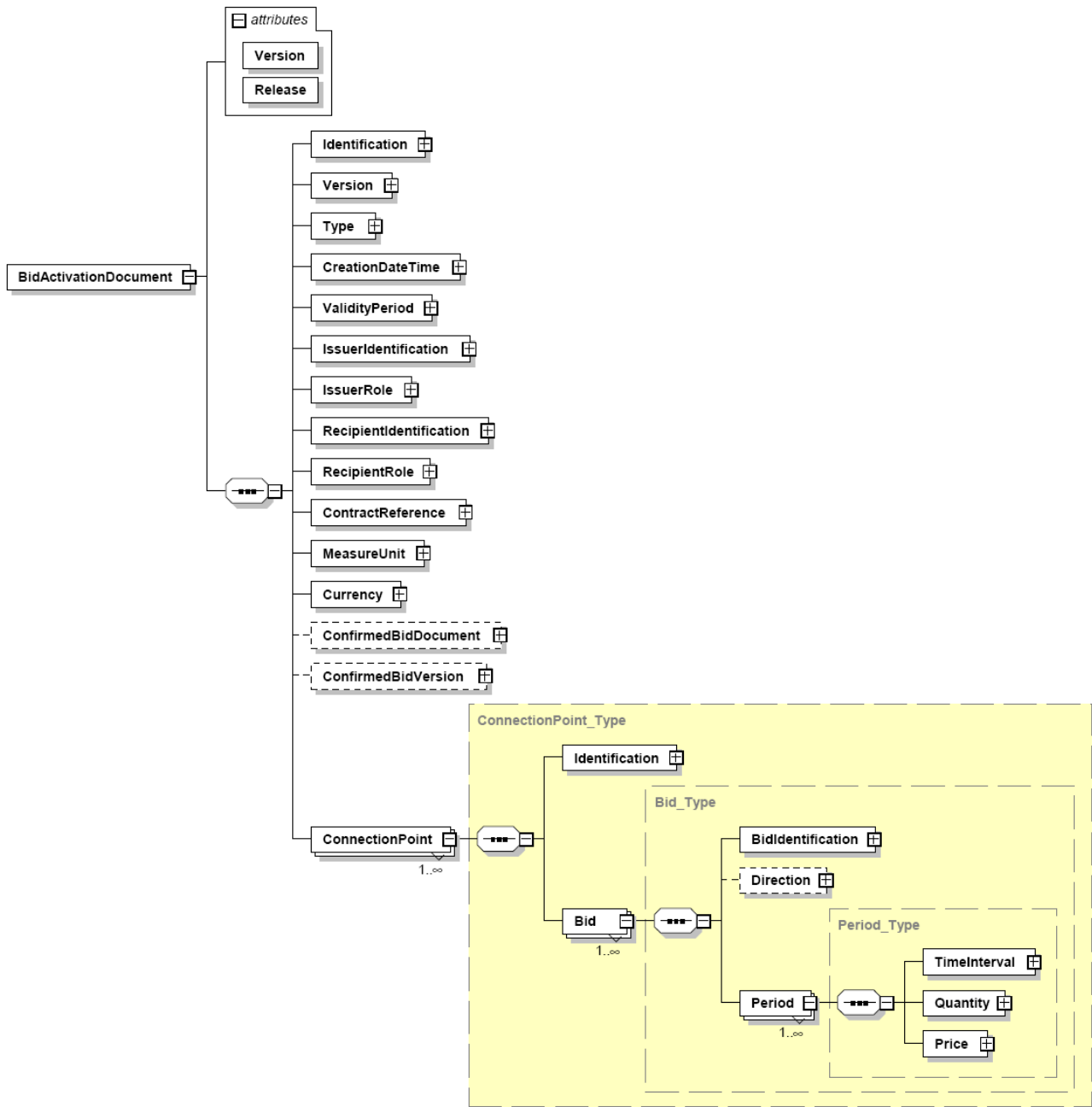


FIGURE 13: BID ACTIVATION DOCUMENT XML SCHEMA MODEL

10.2 XML SCHEMA

10.2.1 Introduction

All electronic documents using this Implementation guide Specification shall complete the document Version and Release attributes as follows:

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

10.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="BidActivationDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```

718         <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
719             <xsd:annotation>
720                 <xsd:documentation/>
721             </xsd:annotation>
722         </xsd:element>
723         <xsd:element name="Currency" type="ecc:CurrencyType">
724             <xsd:annotation>
725                 <xsd:documentation/>
726             </xsd:annotation>
727         </xsd:element>
728         <xsd:element name="ConfirmedBidDocument" type="ecc:IdentificationType" minOccurs="0">
729             <xsd:annotation>
730                 <xsd:documentation/>
731             </xsd:annotation>
732         </xsd:element>
733         <xsd:element name="ConfirmedBidVersion" type="ecc:VersionType" minOccurs="0">
734             <xsd:annotation>
735                 <xsd:documentation/>
736             </xsd:annotation>
737         </xsd:element>
738         <xsd:element name="ConnectionPoint" type="ConnectionPoint_Type"
739 maxOccurs="unbounded"/>
740     </xsd:sequence>
741     <xsd:attribute name="Version" type="xsd:string" use="required"/>
742     <xsd:attribute name="Release" type="xsd:string" use="required"/>
743 </xsd:complexType>
744 </xsd:element>
745 <xsd:complexType name="Bid_Type">
746     <xsd:annotation>
747         <xsd:documentation/>
748     </xsd:annotation>
749     <xsd:sequence>
750         <xsd:element name="BidIdentification" type="ecc:IdentificationType">
751             <xsd:annotation>
752                 <xsd:documentation/>
753             </xsd:annotation>
754         </xsd:element>
755         <xsd:element name="Direction" type="ecc:DirectionType" minOccurs="0">
756             <xsd:annotation>
757                 <xsd:documentation/>
758             </xsd:annotation>
759         </xsd:element>
760         <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
761     </xsd:sequence>
762 </xsd:complexType>
763 <xsd:complexType name="ConnectionPoint_Type">
764     <xsd:annotation>
765         <xsd:documentation/>
766     </xsd:annotation>
767     <xsd:sequence>
768         <xsd:element name="Identification" type="ecc:MeasurementPointType">
769             <xsd:annotation>
770                 <xsd:documentation/>
771             </xsd:annotation>
772         </xsd:element>
773         <xsd:element name="Bid" type="Bid_Type" maxOccurs="unbounded"/>
774     </xsd:sequence>
775 </xsd:complexType>
776 <xsd:complexType name="Period_Type">
777     <xsd:annotation>
778         <xsd:documentation/>
779     </xsd:annotation>
780     <xsd:sequence>
781         <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
782             <xsd:annotation>
783                 <xsd:documentation/>
784             </xsd:annotation>
785         </xsd:element>
786         <xsd:element name="Quantity" type="ecc:QuantityType">
787             <xsd:annotation>
788                 <xsd:documentation/>
789             </xsd:annotation>
790         </xsd:element>
791         <xsd:element name="Price" type="ecc:AmountType">
792             <xsd:annotation>
793                 <xsd:documentation/>
794             </xsd:annotation>
795         </xsd:element>

```

```
796         </xsd:sequence>
797     </xsd:complexType>
798 </xsd:schema>
```

11 XML IMPLEMENTATION OF CLRCON

11.1 XML STRUCTURE

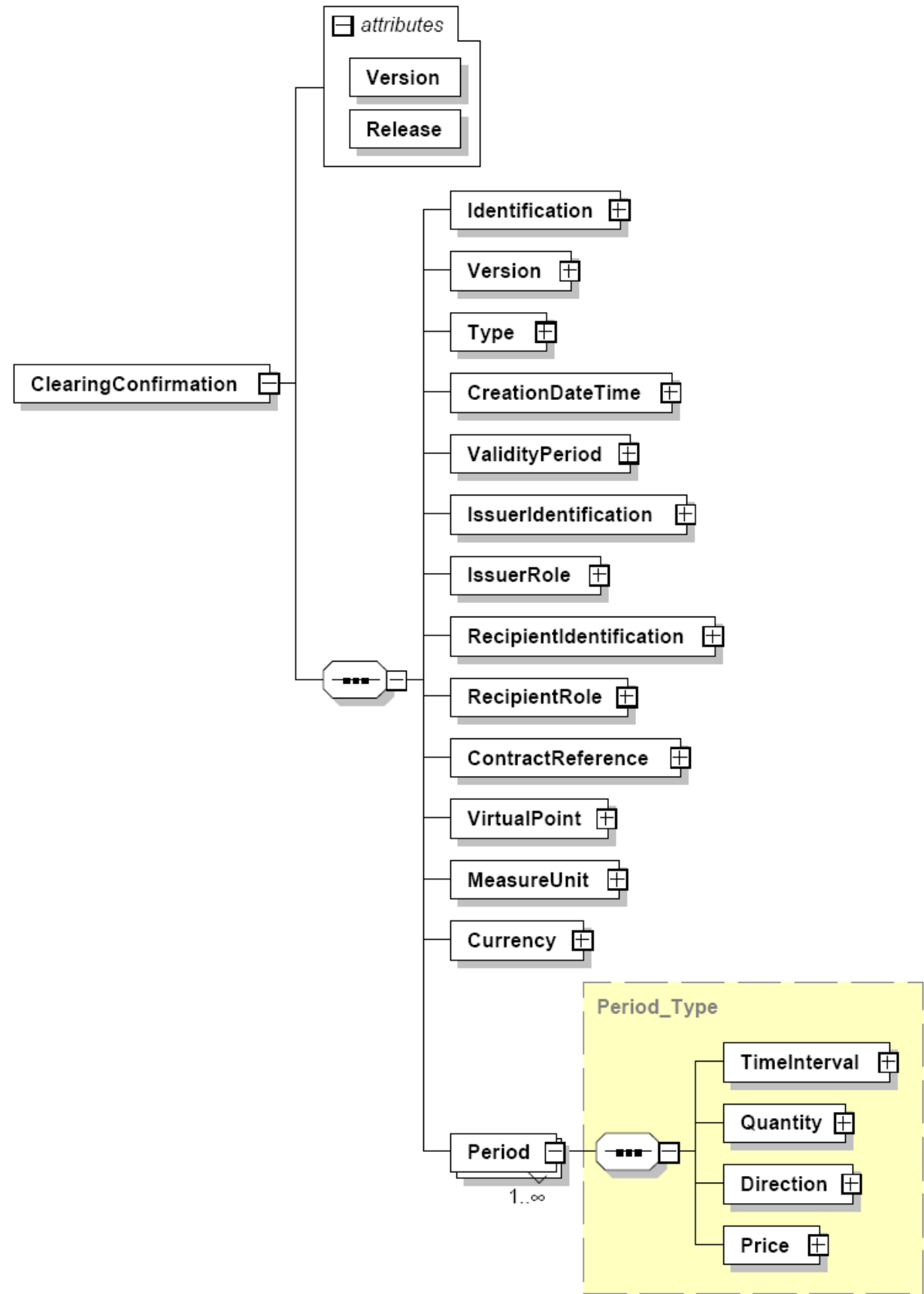


FIGURE 14: CLEARING CONFIRMATION DOCUMENT XML SCHEMA MODEL

11.2 XML SCHEMA

11.2.1 Introduction

All electronic documents using this Implementation guide Specification shall complete the document Version and Release attributes as follows:

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

11.2.2 Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
  <!--
      EDIGAS Document Automatically generated from a UML class diagram using XML.
      Generation tool version 1.7
  -->
  <xsd:element name="ClearingConfirmation">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

```

```

874         <xsd:element name="VirtualPoint" type="ecc:MeasurementPointType">
875             <xsd:annotation>
876                 <xsd:documentation/>
877             </xsd:annotation>
878         </xsd:element>
879         <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
880             <xsd:annotation>
881                 <xsd:documentation/>
882             </xsd:annotation>
883         </xsd:element>
884         <xsd:element name="Currency" type="ecc:CurrencyType">
885             <xsd:annotation>
886                 <xsd:documentation/>
887             </xsd:annotation>
888         </xsd:element>
889         <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
890     </xsd:sequence>
891     <xsd:attribute name="Version" type="xsd:string" use="required"/>
892     <xsd:attribute name="Release" type="xsd:string" use="required"/>
893 </xsd:complexType>
894 </xsd:element>
895 <xsd:complexType name="Period_Type">
896     <xsd:annotation>
897         <xsd:documentation/>
898     </xsd:annotation>
899     <xsd:sequence>
900         <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
901             <xsd:annotation>
902                 <xsd:documentation/>
903             </xsd:annotation>
904         </xsd:element>
905         <xsd:element name="Quantity" type="ecc:QuantityType">
906             <xsd:annotation>
907                 <xsd:documentation/>
908             </xsd:annotation>
909         </xsd:element>
910         <xsd:element name="Direction" type="ecc:DirectionType">
911             <xsd:annotation>
912                 <xsd:documentation/>
913             </xsd:annotation>
914         </xsd:element>
915         <xsd:element name="Price" type="ecc:AmountType">
916             <xsd:annotation>
917                 <xsd:documentation/>
918             </xsd:annotation>
919         </xsd:element>
920     </xsd:sequence>
921 </xsd:complexType>
922 </xsd:schema>

```

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12 DOCUMENT CHANGE LOG

Package	Version	Date	Description
4.0	1	2009-11-17	Initial Release
4.0	2	2011-03-08	Introduce a Direction attribute in the BIDACT Bid class.

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