SECTION

II Infrastructure Messages

06 IMBNOT

Imbalance Notice Message

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 Imbalance Notice - IMBNOT - message 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

This message provides for the start and the end of a period:

1. The imbalance for a connection point for a Shipper or a Supplier.
2. The imbalance for a contract
3. the reconciliation for a connection point for a Shipper or a Supplier.

The current definition of the message, as described in this guideline reflects its use in the current Gas Industry procedure. It does not however preclude the use of this message between other parties than those indicated in this description. The criteria for the use of the message should be its functionality rather than the parties involved.

1.2 PRINCIPLES

The IMBNOT message is exchanged to report an imbalance or reconciliation situation to a Shipper, Supplier or another System Operator in addition to any eventual parameters used for the balancing adjustment.

1.3 FIELD OF APPLICATION

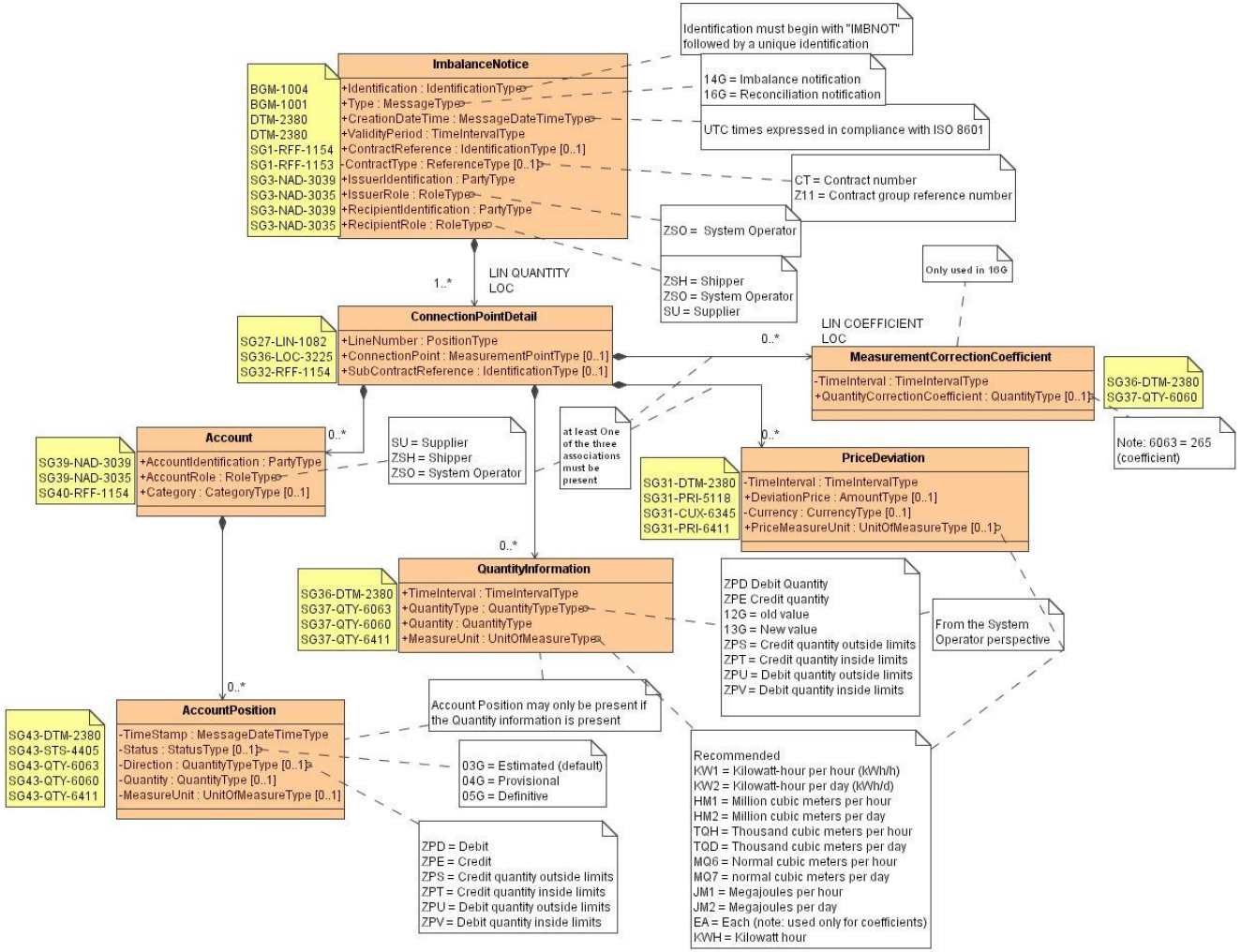
The IMBNOT message is used to ensure the operational balance of the gas grid and for the provision of imbalance or reconciliation information for accounting purposes.

1.4 REFERENCES

The content of the IMBNOT message is based on the definition of terms and codes as agreed by the Edig@s Workgroup.

2 INFORMATION MODEL FOR IMBNOT

2.1 Information Model Structure



2.2 INFORMATION MODEL DESCRIPTION

An Imbalance Notice document is used by a System Operator at two stages during the Settlement phase. It is used initially to send an Imbalance Notification to a shipper and to the counter System Operator providing the information concerning any imbalances between the planned and realised gas transmissions identified for a period in question. It is also used at the end of the Settlement phase by the counter System Operator to provide the reconciliation information terminating the Settlement phase.

2.2.1 Rules governing the Imbalance Notice Document Class

2.2.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Imbalance Notice Document.
Description	A Imbalance Notice Document must have a unique identification assigned by the initiator of the document to be sent to a recipient. The identification must take the following form: IMBNOT 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 "IMBNOT20090101A00001". The sender must guarantee that this identification is unique over time
Size	The identification of a Imbalance Notice Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.2 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of Imbalance Notice Document that is being sent. The following types of Imbalance Notice Document are currently permitted: 14G = Imbalance Notification: message to advise a Shipper, System Operator or Supplier about an imbalance situation. 16G = Reconciliation notification: message to advise a Shipper, System Operator or Supplier about a reconciliation situation.
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.3 CREATION DATE TIME

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 initiator.
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.

2.2.1.4 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.

2.2.1.5 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the Imbalance Notice.
Description	The contract reference may be of two types which is identified by the Contract Type: ➢ A contract group identification when the document relates to different contracts that belong to the same contract group. This contract group must be identified here while the different contracts must be identified Connection Point level. ➢ A contract identification when only one contract is relevant for the whole document.
Size	The contract reference may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.6 CONTRACT TYPE

ACTION	DESCRIPTION
Definition of element	The type of the contract identified in the Contract Reference.
Description	This identifies the type of the contract reference identified in the Contract Reference attribute. The following types of Contract Type are currently permitted: CT =Contract number. Z11 = Contract group reference number. (note: A contract group may be used to define a market area).
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.7 ISSUER IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The initiator of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and 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 initiator'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.

2.2.1.8 ISSUER ROLE

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 initiator of the document for this transmission. The following roles are permitted for this document: ZSO = System Operator
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.9 RECIPIENT IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and 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.

2.2.1.10 RECIPIENT ROLE

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. The following roles are permitted for this document: ZSO = System Operator; ZSH = Shipper; SU = Supplier.
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 Connection Point Class

There may one to many Connection Points in a Imbalance Notice Document.

2.2.2.1 LINE NUMBER

ACTION	DESCRIPTION
Definition of element	A sequential number of the Connection Point set.
Description	Each Connection Point is assigned a sequential number to identify it within the set being provided in the document.
Size	The maximum length of this information is 6 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.2 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 dependent
Dependence requirements	This is not used in the case where there a multiple connection points covered by the time series.

2.2.2.3 SUBCONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to an individual contract covering the connection point.
Description	The subcontract reference identifies the contract identification that is relevant for the connection point.
Size	The subcontract reference may not exceed 35 alphanumeric characters. Note: If the contract group refers to a market area, the subcontract reference refers to a balance area.
Applicability	This information is dependent.
Dependence requirements	This may only be used if the Contract Type = Z11

2.2.3 Rules governing the Account Class

There may zero to many accounts in an Imbalance Notice Document.

2.2.3.1 ACCOUNT IDENTIFICATION– CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of an account that is known to both System Operators.
Description	The identification of an Account that is known to both system Operators. 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 Account Identification is 35 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.

2.2.3.2 ACCOUNT ROLE – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of the role played by the account
Description	The identification of the role played by the Account Identification. The following Roles are permitted: SU = Supplier ZSH = Shipper ZSO = System Operator
Size	The maximum length of the Account Role is 3 alphanumeric characters.
Applicability	Both the Account Role and the coding scheme are mandatory.
Dependence requirements	None.

2.2.3.3 CATEGORY

ACTION	DESCRIPTION
Definition of element	The identification of the category relevant to an account.
Description	The Category of the account is an identification mutually agreed between the parties.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information may only be used when it has been agreed between all concerned parties

2.2.4 Rules governing the Account Position Class

There may zero to many account positions in an Imbalance Notice Document.

2.2.4.1 TIMESTAMP

ACTION	DESCRIPTION
Definition of element	Date and time of the account position information.
Description	The date and time that the account position was prepared for transmission by the application of the initiator.
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.

2.2.4.2 STATUS

ACTION	DESCRIPTION
Definition of element	The status of the account position at the time stamp period.
Description	This information provides status of the account position. Currently only one of the following status values are permitted: 03G = Estimated value. An approximated value that is not physically measured. It could be based on mathematical algorithms or just a value decided by the owner of the data in case of loss of information or technical problems. 04G = Provisional value. The result of an first rough measurement and a calculation 05G = Definitive value. The final or conclusive value.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.4.3 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: ZPD = Debit quantity. A debit refers to a quantity that decreases a balance account. ZPE = Credit Quantity. A credit refers to a quantity that increases a balance account. ZPS = Credit quantity outside limits. The credit quantity that is outside the contractually defined upper limit. ZPT = Credit quantity inside limits. The credit quantity that is inside the contractually defined upper limit. ZPU = Debit quantity outside limits. The debit quantity that is outside the contractually defined lower limit. ZPV = Debit quantity inside limits. The debit quantity that is inside the contractually defined lower limit.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.4.4 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity for the account within the time stamp in question.
Description	This information defines the quantity for the account within the time stamp 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.

2.2.4.5 MEASURE UNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities for the account position.
Description	The unit of measurement used for all the quantities expressed within an account position. The following are the codes recommended for use: KWH Kilowatt-hour MQ5 Normal cubic meters
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.5 Rules governing the Quantity Information Class

There must always be a Quantity Information class, a Price Deviation Class or a Measurement Correction Coefficient class. Each of these is mutually exclusive per Connection Point.

2.2.5.1 TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported. The Time Interval shall cover a whole gas day of 24 hours.
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.

2.2.5.2 QUANTITY TYPE

ACTION	DESCRIPTION
Definition of element	Identifies the quantity type as seen from the perspective of the System Operator's area.
Description	This identifies the type of quantity that is being reported. Intended codes are: ZPD = Debit quantity. A debit refers to a quantity that decreases a balance account. ZPE = Credit Quantity. A credit refers to a quantity that increases a balance account. ZPS = Credit quantity outside limits. The credit quantity that is outside the contractually defined upper limit. ZPT = Credit quantity inside limits. The credit quantity that is inside the contractually defined upper limit. ZPU = Debit quantity outside limits. The debit quantity that is outside the contractually defined lower limit. ZPV = Debit quantity inside limits. The debit quantity that is inside the contractually defined lower limit 12G = Old value. The previous value of an object 13G = New value. The replacement of a previous value of an object.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.5.3 QUANTITY

ACTION	DESCRIPTION
Definition of element	The quantity for the connection point within the time interval in question.
Description	This information defines the quantity for the connection point within the time interval period. A decimal point value may be used to express values that are inferior to the defined unit of measurement. The decimal mark that separates the digits forming the integral part of a number from those forming the fractional part. (ISO 6093) shall always be a period ("."). All quantities are non-signed values.
Size	The maximum length of this information is 17 numeric characters (decimal mark 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.

2.2.5.4 MEASURE UNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is applied to all the quantities in the time series of the document.
Description	The unit of measurement used for all the quantities expressed within a time series. The following are the codes recommended for use: KW1 Kilowatt-hour per hour (kWh/h) KW2 Kilowatt-hour per day (kWh/d) HM1 Million cubic meters per hour HM2 Million cubic meters per day TQH Thousand cubic meters per hour TQD Thousand cubic meters per day MQ6 Normal cubic meters per hour MQ7 Normal cubic meters per day JM1 Magajoules per hour JM2 Megajoules per day EA Each KWH Kilowatt hours
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.6 Rules governing the Price Deviation Class

There must always be a Quantity Information class, a Price Deviation Class or a Measurement Correction Coefficient class. Each of these is mutually exclusive per Connection Point.

2.2.6.1 TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported. The Time Interval shall cover a whole gas day of 24 hours.
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.

2.2.6.2 DEVIATION PRICE

ACTION	DESCRIPTION
Definition of element	The price of any deviations for the period in question.
Description	This information defines the price of any deviations 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 prices 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 price depends on local market rules.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.6.3 CURRENCY

ACTION	DESCRIPTION
Definition of element	The currency in which the price deviation is expressed.
Description	This information defines the currency of the price deviation 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.

2.2.6.4 PRICE MEASURE UNIT

ACTION	DESCRIPTION
Definition of element	The unit of measure which is defined as the unit of measure for the price deviation in question.
Description	The unit of measurement used to determine the number of units that are used for each price deviation calculation. The following are the codes recommended for use: KW1 Kilowatt-hour per hour (kWh/h) KW2 Kilowatt-hour per day (kWh/d) HM1 Million cubic meters per hour HM2 Million cubic meters per day TQH Thousand cubic meters per hour TQD Thousand cubic meters per day MQ6 Normal cubic meters per hour MQ7 Normal cubic meters per day JM1 Magajoules per hour JM2 Megajoules per day 3B Megajoules EA Each KWH Kilowatt hours
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This is only used when the unit of measure for the price is different to the unit of measure for the quantity.

2.2.7 Rules governing the Measurement Correction Coefficient Class

There must always be a Quantity Information class, a Price Deviation Class or a Measurement Correction Coefficient class. Each of these is mutually exclusive per Connection Point.

2.2.7.1 TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported. The Time Interval shall cover a whole gas day of 24 hours.
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.

2.2.7.2 QUANTITY CORRECTION COEFFICIENT

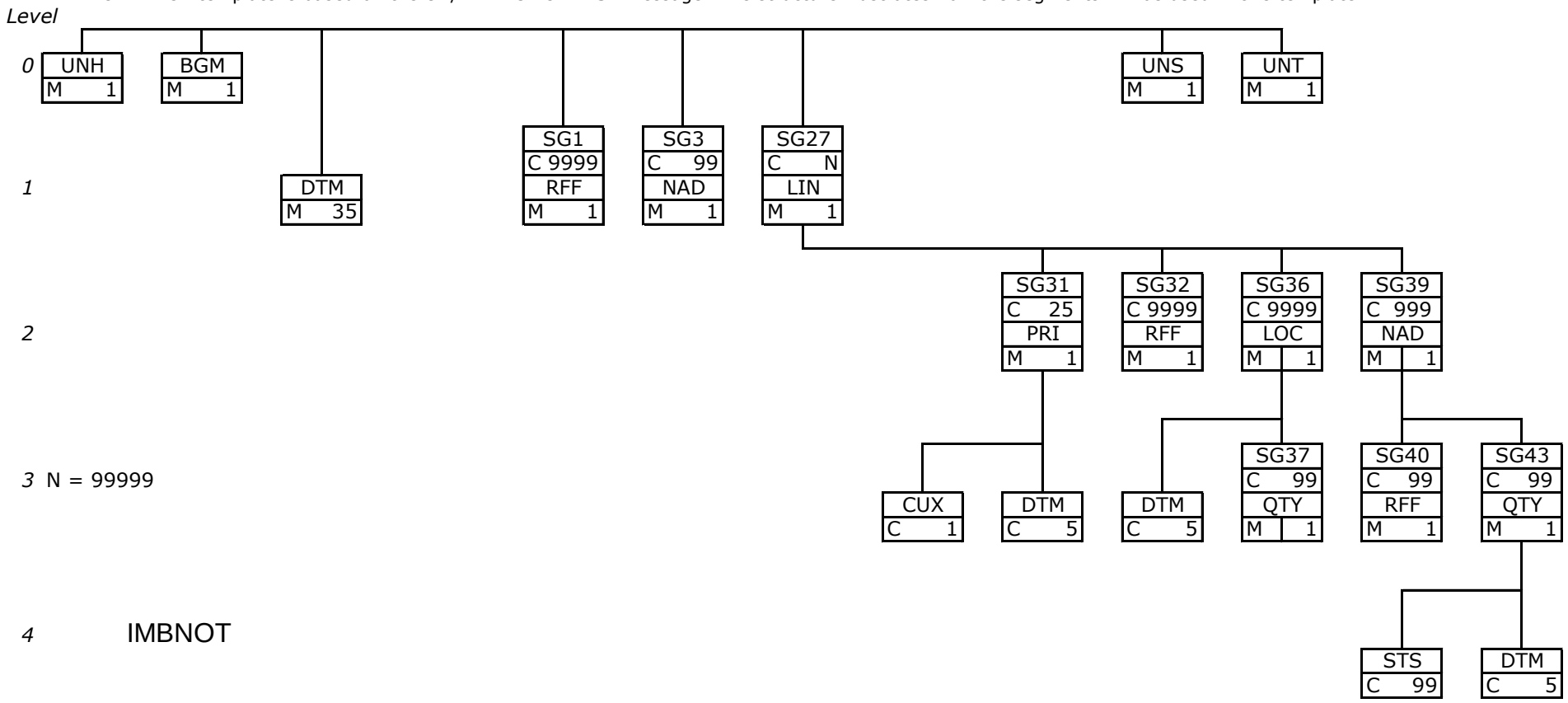
ACTION	DESCRIPTION
Definition of element	The coefficient that is to be applied to any quantity corrections.
Description	This information defines the coefficient that is to be applied to any quantity corrections. A decimal point value may be used to express values that are inferior to the defined unit 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 (“.”).
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 EDIFACT IMPLEMENTATION OF IMBNOT

Note: The Information Model Description in section 2 shall always take precedence if there is any contradictory information provided in this section.

3.1 Edig@s subset of the UN/EDIFACT ORDRSP D.08B Branching Diagram

The IMBNOT template is based on the UN/EDIFACT ORDRSP message. This structure illustrates how the segments will be used in this template.



3.2 EDIFACT Template Description

This template is applicable when the IMBNOT message is used for the following purpose(s):

Message purpose	**BGM -1001 =**
Imbalance notification: message to advise a Shipper, System Operator or Supplier about an imbalance situation.	14G
Reconciliation notification: message to advise a Shipper, System Operator or Supplier about a reconciliation situation.	16G

The segments are shown in abbreviated form. For a full description of the segments refer to the description as found in section V Segment Directory.

HEADER SECTION

The content of UN/EDIFACT Interchange segments UNB/UNZ are defined in the general introduction. The basic principle for an Edig@s Interchange being that there shall be only one UN/EDIFACT Message per Interchange.

UNH – M	**0010 - MESSAGE HEADER – To head, identify and specify a Message**			
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender.
S009:0065	M	an..6	Message type	Code identifying a type of message and assigned by its controlling agency. **IMBNOT** (=Imbalance notice message)
S009:0052	M	an..3	Message version number	Version number of a message type. **2** (=MIG Version)
S009:0054	M	an..3	Message release number	Release number within the current message type version number (0052). **0**
S009:0051	M	an..2	Controlling agency	Code to identify the agency controlling the specification, maintenance and publication of the message type. **EG** (=Edig@s)
S009:0057	M	an..6	Association assigned code	A code assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message. **EGAS40** (=Edig@s subset identification)
0068	N	an..35	COMMON ACCESS REFERENCE	Reference serving as a key to relate all subsequent transfers of data to the same business case or file. **NOT USED**
S010:0070	N	n..2	Sequence of transfers	Number assigned by the sender indicating the numerical sequence of one or more transfers. **NOT USED**
S010:0073	N	a1	First and last transfer	Indication used for the first and last message in a sequence of the same type of message relating to the same topic. **NOT USED**
Remarks	*There is one mandatory occurrence of UNH per message.*			
Example	**UNH+1+IMBNOT:2:0:EG:EGAS40'**			

BGM-M	**BEGINNING OF MESSAGE – To indicate the type and function of a message and to transmit the identifying number.**			
C002:1001	M	An..3	Document name code	Code specifying the document name. *See restricted code list below*
C002:1131	N	An..3	Code list identification code	Code identifying a user or association maintained code list **NOT USED**
C002:3055	M	An..3	Code list responsible agency	Code identifying a user or association maintained code list. **321** (=Edig@s)
C002:1000	N	An..35	Document name	Name of a document. **NOT USED**
C106:1004	M	An..35	Document identifier	To identify a document. *See section 2.2.1.1*
C106:1056	N	An..9	Version identifier	To identify a version. **NOT USED**
C106:1060	N	An..6	Revision identifier	To identify a revision **NOT USED**
1225	M	An..3	MESSAGE FUNCTION CODE	Code indicating the function of the message. **9** (=Original)
4343	N	An..3	RESPONSE TYPE CODE	Code specifying the type of acknowledgment required or transmitted. **NOT USED**
Remarks	*There is one mandatory occurrence of BGM per message.*			
Attention	*The following structure for the message number in BGM-1004 is mandatory in the Edig@s messages: 6 character message code + a unique identification*			
Example	**BGM+14G::321+IMBNOT20090101A00001+9'**			

Restricted code list for BGM-C002:1001	
14G	Imbalance notification
16G	Reconciliation notification

DTM - M	
Remarks	*There are 3 mandatory occurrences of DTM at message header level in the Edig@s messages. For more details regarding the mandatory use of DTM at header level in the Edig@s messages see the Introduction to the Edig@s MIG.*

DTM.1 - M	**DATE/TIME/PERIOD - To specify date, and/or time, or period. It identifies the time definition**			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **Z05** (=Time definition)
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. **0** (=UTC)
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **805** (=Hour)
Remarks	*All times indicated in this message must be expressed according to this same metrology.* ***Recommendation**: Edig@s strongly recommends using UTC as the standard time metrology. See also the Introduction to the Edig@s MIG.*			
Example	**DTM+Z05:0:805'**			

DTM.2 – M	**DATE/TIME/PERIOD - To specify date, and/or time, or period. It identifies the date and time of the message**			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **137** (=Document/message date/time)
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Date/time in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **203** (=CCYYMMDDHHMM)
Remarks				
Example	**DTM+137:200309051506:203'**			

DTM.3 – M	**DATE/TIME/PERIOD - To specify date, and/or time, or period. It identifies the (validity) period covered by the message**			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **Z01** (=Period identification)
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Date/time in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **719** (=CCYYMMDDHHMMCCYYMMDDHHMM)
Remarks				
Example	**DTM+Z01:200309090400200309160400:719'**			

SG1 – M	**RFF**
Remarks	*The mandatory segment group 1 consists only of RFF.* *There will be only one occurrence of segment group 1 at header level to provide:* ➢ *The contract group identification when the message relates to different contracts that belong to the same contract group. This contract group must be identified in the RFF segment at header level while the different contracts must be identified in the RFF segment at detail level.* ➢ *The contract identification when only one contract is relevant for the whole message.*

RFF – M	**REFERENCE – To specify a reference. Identifies a contract (group)**			
C506:1153	M	an..3	Reference code qualifier	Code qualifying a reference. *See restricted qualifier code list below*
C506:1154	M	an..35	Reference identifier	Identifies a reference. *Mutually agreed Infrastructure identification*
C506:1156	N	an..6	Document line identifier	To identify a line of a document. **NOT USED**
C506:1056	N	an..9	Version identifier	To identify a version. **NOT USED**
C506:1060	N	an..6	Revision identifier	To identify a revision. **NOT USED**
Remarks				
Example	**RFF+CT:TRABCRR01'**			

Restricted qualifier code list for RFF-C506:1153	
CT	Contract number
Z11	Contract group reference number

SG3 – M	NAD
Remarks	*Two NAD segments are mandatory, one to identify the issuer of the message and one to identify the recipient of the message*

NAD – M	NAME AND ADDRESS – To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207. This Identifies the issuer and recipient of the message			
3035	M	an..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. *See restricted qualifier code list below*
C082:3039	M	an..35	Party identifier	Code specifying the identity of a party.
C082:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C082:3055	*M*	*an..3*	*Code list responsible agency code*	*Code specifying the agency responsible for a code list.* *See restricted qualifier code list below*
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3045	N	an..3	Party name format code	Party name format code **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
3164	N	an..35	CITY NAME	Name of a city. **NOT USED**
C819:3229	N	an..9	Country subdivision identifier	To identify a country subdivision, such as state, canton, county, prefecture. **NOT USED**
C819:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C819:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C819:3228	N	an..70	Country subdivision name	Name of a country subdivision, such as state, canton, county, prefecture. **NOT USED**
3251	N	an..17	POSTAL IDENTIFICATION CODE	Code specifying the postal zone or address. **NOT USED**
3207	N	an..3	COUNTRY IDENTIFIER	Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3. **NOT USED**
Remarks				
Example	**NAD+ZSO+GREENOPERATOR::321'**			

Restricted qualifier code list for RFF-C506:3035 for issuers of a message	
ZSO	System Operator

Restricted qualifier code list for RFF-C506:3035 for recipients of a message	
SU	Supplier
ZSH	Shipper
ZSO	System Operator

Restricted qualifier code list for NAD-C082-3055	
321	Assigned by Edig@s
305	Assigned by ETSO (EIC)

DETAIL SECTION

SG27 – M	**LIN-SG31-SG32-SG36-SG39**
Remarks	*The mandatory segment group 27 (LIN-loop) must appear at least once in the message. It will be repeated as many times (up to a maximum of 200.000 per message) as is required to cover all requirements. There are two LIN loop types one related to quantity information and the other related to correction coefficient information. The segment group consists of:* ➢ *LIN to uniquely identify the line item – (mandatory)* ➢ *SG31 – [PRI-DTM-CUX] to specify price deviation information – (conditional)* ➢ *SG32-[RFF] to provide a line item related to a contract reference – (conditional)* ➢ *SG36–[LOC-DTM-SG37(QTY)] to provide a line item related to a connection point and quantity and date/time/period information relevant for that connection point – (mandatory)* ➢ *SG39-[NAD] to provide line item related to a party identification – (conditional)*

LIN - M	**LINE ITEM – To identify a line item and configuration.** **Starts each new occurrence of the LIN-Loop**			
1082	M	n..6	LINE ITEM IDENTIFIER	To identify a line item. *Sequential number*
1229	N	an..3	ACTION CODE	Code specifying the action to be taken or already taken. **NOT USED**
C212:7140	M	an..35	Item identifier	To identify an item. *See item identifier code list below*
C212:7143	N	an..3	Item type identification code	Coded identification of an item type. **NOT USED**
C212:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C212:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C289:5495	N	an..3	Sub-line indicator code	Code indicating a sub-line item. **NOT USED**
C289:1082	N	an..6	Line item identifier	To identify a line item. **NOT USED**
1222	N	n..2	CONFIGURATION LEVEL NUMBER	To specify a level within a configuration. **NOT USED**
7083	N	an..3	CONFIGURATION OPERATION CODE	Code specifying the configuration operation. **NOT USED**
Remarks	*LIN-1082 is an identification, assigned by the originator of the message, allowing to unambiguously identify each new occurrence of LIN in the message.* ***Recommendation**: unless special requirements impose a different approach Edig@s recommends the use of a simple numerical sequence starting with '1' and incremented with 1 for each new occurrence of the LIN-segment.*			
Example	**LIN+1+QUANTITY'**			

recommended qualifier code list for LIN-C212:7140	
QUANTITY	The line item identifies quantity values
COEFFICIENT	The line item identifies correction coefficients

SG31 – C	**PRI**
Remarks	*The conditional segment group 31 consists of RFF and its associated DTM.* *The segment group is used to provide price deviation information at the connection point level*

PRI – M	PRICE – To specify price information. To provide price deviation information for a connection point.			
C509:5125	M	an..3	Price code qualifier	Code qualifying a price. **CAL** *(=Calculation)*
C509:5118	M	n..15	Price amount	To specify a price. *Deviation price*
C509:5375	N	an..3	Price type code	Code specifying the type of price. **NOT USED**
C509:5387	N		Price specification code	Code identifying pricing specification. **NOT USED**
C509:5284	N	n..9	Unit price basis quantity	To specify the basis for a unit price. **NOT USED**
C509:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. *See recommended qualifier code list below*
5213	N	an..3	SUB-LINE ITEM PRICE CHANGE OPERATION CODE	Code specifying the price change operation for a sub-line item. **NOT USED**
Remarks				
Example	**PRI+CAL:14.58::::KW1'**			

recommended qualifier code list for PRI-C509:6411	
KW1	Kilowatt-hour per hour (kWh/h)
KW2	Kilowatt-hour per day (kWh/d)
HM1	Million cubic meters per hour
HM2	Million cubic meters per day
TQH	Thousand cubic meters per hour
TQD	Thousand cubic meters per day
MQ6	Normal cubic meters per hour
MQ7	Normal cubic meters per day
JM1	Megajoules per hour
JM2	Megajoules per day

CUX - C	CURRENCIES – To specify currencies used in the transaction and relevant details for the rate of exchange.			
C504:6347	M	an..3	Currency usage code qualifier	Code qualifying the usage of a currency. **2** *(=Reference currency)*
C504:6345	M	an..3	Currency identification code	Code specifying a monetary unit.
C504:6343	N	an..3	Currency type code qualifier	Code qualifying the type of currency. **NOT USED**
C504:6348	N	n..4	Currency rate	To specify the value of the multiplication factor used in expressing currency units. **NOT USED**
C504:6347	N	an..3	Currency usage code qualifier	Code qualifying the usage of a currency. **NOT USED**
C504:6345	N	an..3	Currency identification code	Code specifying a monetary unit. **NOT USED**
C504:6343	N	an..3	Currency type code qualifier	Code qualifying the type of currency. **NOT USED**
C504:6348	N	n..4	Currency rate	To specify the value of the multiplication factor used in expressing currency units. **NOT USED**
5402	N	n..12	CURRENCY EXCHANGE RATE	To specify the rate at which one specified currency is expressed in another specified currency. **NOT USED**
6341	N	an..3	EXCHANGE RATE CURRENCY MARKET IDENTIFIER	To identify an exchange rate currency market. **NOT USED**
Remarks	*CUX is used only to identify the currency of a price or a monitory amount*			
Example	**CUX+2:EUR'**			

DTM - M	DATE/TIME/PERIOD - To specify date, and/or time, or period. Identifies the date/time/period for the preceding price deviation			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **2** *(=Delivery date/time requested)*
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Period in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **719** (=CCYYMMDDHHMMCCYYMMDDHHMM)
Remarks	*DTM can be repeated only 1 time per PRI in segment group 31.*			
Example	**DTM+2:200309150400200309160400:719'**			

SG32 – C	RFF
Remarks	*The conditional segment group 32 consists only of RFF.* *The segment group is only used when RFF at header level refers to a contract group identification (RFF-C506:1153 = Z11)* *The segment group contains the reference to the contract relevant for this segment group 27. Separate occurrences of segment group 27 are required for each different contract.* *There will be only one segment group 32 per segment group 27.*

RFF – M	REFERENCE – To specify a reference. Identifies a reference relevant for the line item			
C506:1153	M	an..3	Reference code qualifier	Code qualifying a reference. **CT** *(=contract number)*
C506:1154	M	an..35	Reference identifier	Identifies a reference. *Mutually agreed contract identification*
C506:1156	N	an..6	Document line identifier	To identify a line of a document. **NOT USED**
C506:1056	N	an..9	Version identifier	To identify a version. **NOT USED**
C506:1060	N	an..6	Revision identifier	To identify a revision. **NOT USED**
Remarks				
Example	**RFF+CT:CONTRACTID'**			

SG36 – M	LOC- DTM-SG37
Remarks	*The mandatory segment group 36 will be repeated as many times as required to cover all the hourly, daily or weekly requirements (e.g. up to 24 times to cover a complete day) with a maximum of 9999 occurrences per LIN-loop. The segment group consists of:* ➢ *LOC to identify a connection point that is relevant for this line item – (mandatory)* ➢ *DTM to specify relevant date/time/period information – (mandatory)* ➢ *SG37 (QTY) to provide the quantity information relevant for this connection point – (mandatory)*

LOC-M	LOCATION – To identify a place or a location and/or related locations. Identifies the connection point relevant for the quantities in this LIN-loop			
3227	M	an..3	LOCATION FUNCTION CODE QUALIFIER	Code identifying the function of a location. *See restricted qualifier code list below*
C517:3225	M	an..35	Location identification	To identify a location. *Use relevant code from one of the restricted code lists below*
C517:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C517:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. *See restricted code list below*
C517:3224	N	an..256	Location name	Name of the location. **NOT USED**
C519:3223	N	an..35	First related location identifier	To identify a first related location. **NOT USED**
C519:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C519:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C519:3222	N	an..70	First related location name	Name of first related location. **NOT USED**
C553:3233	N	an..35	Second related location identifier	To identify a second related location. **NOT USED**
C553:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C553:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C553:3232	N	an..70	Second related location name	Name of the second related location. **NOT USED**
5479	N	an..3	RELATION CODE	Code specifying a relation. **NOT USED**
Remarks	*In special cases where a quantity needs to be given that is not related to one specific location the qualifier value "Z99 – No location identified" may be used in LOC-3227.*			
Example	**LOC+Z19+DEESS::321'**			

Restricted qualifier code list for LOC-3227	
Z19	Connection point
Z99	No connection point identified *(see remarks)*

Restricted code list for LOC-C517:3055	
9	GS1
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s
ZSO	Assigned by System Operator

DTM - M	**DATE/TIME/PERIOD - To specify date, and/or time, or period. Identifies the date/time/period for the preceding quantity**			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **2** *(=Delivery date/time requested)*
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Period in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **719** (=CCYYMMDDHHMMCCYYMMDDHHMM)
Remarks	*DTM can be repeated only 1 time per LOC in segment group 36.*			
Example	**DTM+2:200309150400200309160400:719'**			

SG37 – M	**QTY**
Remarks	*The mandatory segment group 37 may be repeated up to 99 times as required to cover the requirements for indicating the quantities and their status information per connection point The segment group consists of:* ➢ *QTY to provide the quantity or correction coefficient information for a given connection point. There is at least one quantity per connection point – (mandatory)*

QTY -M	**QUANTITY – To specify a pertinent quantity.**			
C186:6063	M	an..3	Quantity type code qualifier	Code qualifying the type of quantity. *See restricted code list below*
C186:6060	M	an..35	Quantity	Alphanumeric representation of a quantity. *Actual quantity*
C186:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. *See recommended code list below*
Remarks	*When this segment group needs to contain changed quantities specifically related to a connection point, the qualifier value used in DE 6063 should be specific enough to indicate that the quantity in DE 6060 deviates from the original quantity. The qualifier value is the only means to indicate a variance between original and confirmed quantities.*			
Example	**QTY+ZPD:4000:KW1'**			

Restricted qualifier code list for QTY-C186:6063	
ZPD	Debit quantity (from the perspective of the System Operator)
ZPE	Credit quantity (from the perspective of the System Operator)
12G	Old value
13G	New value
	Note add missing values

Recommended qualifier code list for QTY-C186:6411	
KW1	Kilowatt-hour per hour (kWh/h)
KW2	Kilowatt-hour per day (kWh/d)
HM1	Million cubic meters per hour
HM2	Million cubic meters per day
TQH	Thousand cubic meters per hour
TQD	Thousand cubic meters per day
MQ6	Normal cubic meters per hour
MQ7	Normal cubic meters per day
JM1	Megajoules per hour
JM2	Megajoules per day
EA	Each *(Note: for use only for coefficients)*
KWH	Kilowatt hour

SG39 – C	**NAD**			
Remarks	*The conditional segment group 39 consists only of NAD.* *The segment group can be repeated up to a maximum of 99 times per LIN in segment group 27 to identify a party that is specific for the data contained in this LIN-loop.* *If different parties are related to different connection points, quantities, dates, contracts, etc. then a new segment group 27 must be created for each new combination.*			
NAD - M	**NAME AND ADDRESS – To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.** **Identifies a party specifically related to this Lin-loop**			
3035	M	an..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. *See restricted qualifier code list below*
C082:3039	M	an..35	Party identifier	Code specifying the identity of a party.
C082:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C082:3055	*M*	*an..3*	*Code list responsible agency code*	*Code specifying the agency responsible for a code list.* *See restricted code list below*
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3045	N	an..3	Party name format code	Party name format code **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
3164	N	an..35	CITY NAME	Name of a city. **NOT USED**
C819:3229	N	an..9	Country subdivision identifier	To identify a country subdivision, such as state, canton, county, prefecture. **NOT USED**
C819:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C819:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C819:3228	N	an..70	Country subdivision name	Name of a country subdivision, such as state, canton, county, prefecture. **NOT USED**
3251	N	an..17	POSTAL IDENTIFICATION CODE	Code specifying the postal zone or address. **NOT USED**
3207	N	an..3	COUNTRY IDENTIFIER	Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3. **NOT USED**
Remarks				
Example	**NAD+ZSH+SHTUV::ZSO'**			

Restricted qualifier code list for NAD-3035	
SU	Supplier
ZSH	Shipper
ZSO	System Operator

Restricted code list for NAD-C082:3055	
9	GS1
ZSO	Assigned by System Operator
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s

SG40 – C	**RFF**
Remarks	*The conditional segment group 40 consists only of RFF.* *The segment group contains the reference to category identification relevant to an account.*

RFF – M	**REFERENCE – To specify a reference.** **Identifies a reference relevant for the line item**			
C506:1153	M	an..3	Reference code qualifier	Code qualifying a reference. **Z14** *(=category)*
C506:1154	M	an..35	Reference identifier	Identifies a reference. *Mutually agreed category identification*
C506:1156	N	an..6	Document line identifier	To identify a line of a document. **NOT USED**
C506:1056	N	an..9	Version identifier	To identify a version. **NOT USED**
C506:1060	N	an..6	Revision identifier	To identify a revision. **NOT USED**
Remarks				
Example	**RFF+Z14:CATEGORYID'**			

SG43 – C	**QTY-DTM-STS**
Remarks	*The conditional Segment group provides* *the quantity (QTY) information for an account.* *The timestamp of the account position (DTM)* *And status information related to the account quantities (STS)* *Account quantity information may only be present if quantity information for a connection point is present.*

QTY -M	**QUANTITY – To specify a pertinent quantity.**			
C186:6063	M	An..3	Quantity type code qualifier	Code qualifying the type of quantity. *See restricted qualifier code list below*
C186:6060	M	An..35	Quantity	Alphanumeric representation of a quantity. *Actual quantity*
C186:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. *See recommended qualifier code list below*
Remarks	*There is only one quantity per NAD in SG39*			
Example	**QTY+ZPD:6782:KW1'**			

Restricted code list for QTY-C186:6063	
ZPD	Debit
ZPE	Credit
ZPS	Credit quantity outside limits
ZPT	Credit quantity inside limits
ZPU	debit quantity outside limits
ZPV	debit quantity inside limits

recommended qualifier code list for QTY-C186:6411	
KWH	Kilowatt-hour
MQ5	Normal cubic meter

DTM - M	**DATE/TIME/PERIOD - To specify date, and/or time, or period.** **Identifies the timestamp for the preceding quantity**			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **218** *(=Authentication/validation date/time)*
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Period in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **203** (=CCYYMMDDHHMM)
Remarks	*DTM can be repeated only 1 time per LOC in segment group 36.*			
Example	**DTM+218:200309150400:203'**			

STS - C	**Status – To specify the status of an object or service, including its category and the reason(s) for the status.** **This identifies the status of an account**			
C601:9015	M	an..3	Status category code	Code specifying the category of a status. **08G** *(=Status category)*
C601:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C601:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **321** (=Edig@s)
C555:4405	M	an..3	Status description code	Code specifying a status. *See restricted code list below*
C555:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C555:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **321** (=Edig@s)
C555:4404	N	an..35	Status description	Free form description of a status. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status **NOT USED**.
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
Remarks	*The STS segment is only used for account information to provide the status of the account quantity information.*			
Example	**STS+08G::321+03G::321'**			

Restricted qualifier code list for STS-C555:4405	
03G	*Estimated (default value)*
04G	*Provisional*
05G	*Definitive*

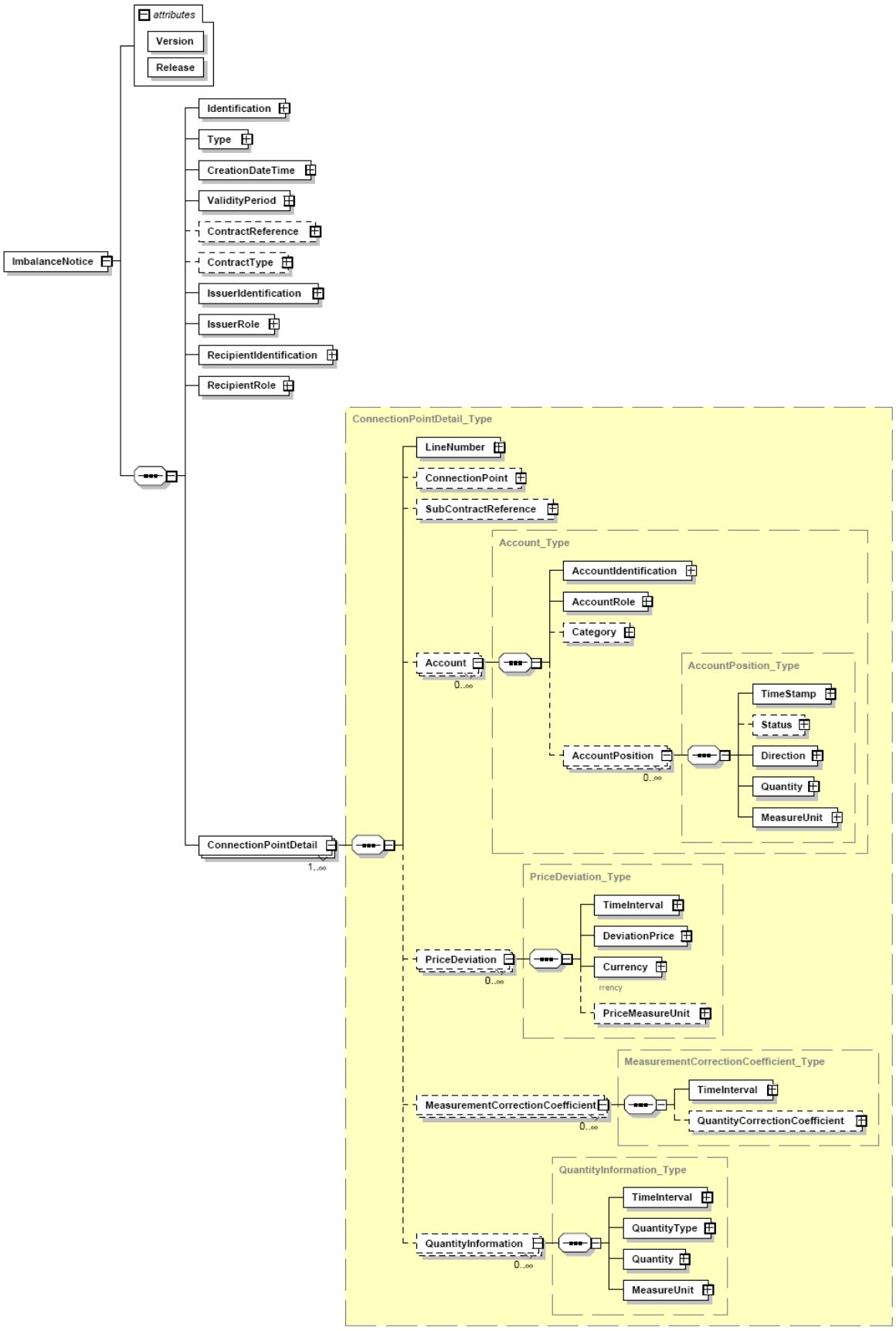
UNS - M	**SECTION CONTROL – To separate header, detail and summary sections of a message. Separates the Detail and the Summary sections**			
0081	M	a1	Section identification	Separates sections in a message. **S** (=Detail/Summary section separation)
Remarks	*There is one mandatory occurrence of UNS at the end of the header or detail section in the message.* *There is one mandatory occurrence of UNS at the end of the detail section in the message. The following segments can only contain summary information and may not carry new information*			
Example	**UNS+S'**			

SUMMARY SECTION

UNT – M	**MESSAGE TRAILER – To end and check the completeness of a Message**			
0074	M	n..6	NUMBER OF SEGMENTS IN THE MESSAGE	Control count of number of segments in a message. *Total number of segments in message (including UNH & UNT)*
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender. *Must be identical to UNH-0062*
Remarks	*There is one mandatory occurrence of UNT at the end of the message**.***			
Example	**UNT+175+1'**			

4 XML IMPLEMENTATION OF IMBNOT

4.1 XML STRUCTURE



4.2 XML SCHEMA

4.2.1 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.

4.2.2 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="3.5">
    <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
    <!--
            EDIGAS Document Automatically generated from a UML class diagram using XMI.
            Generation tool version 1.7
        -->
    <xsd:element name="ImbalanceNotice">
        <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="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="ContractReference" type="ecc:IdentificationType" minOccurs="0">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="ContractType" minOccurs="0">
                    <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="ConnectionPointDetail" type="ConnectionPointDetail_Type" maxOccurs="unbounded"/>
            </xsd:sequence>
            <xsd:attribute name="Version" type="xsd:string" use="required"/>
            <xsd:attribute name="Release" type="xsd:string" use="required"/>
        </xsd:complexType>
    </xsd:element>
    <xsd:complexType name="QuantityInformation_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="QuantityType" type="ecc:QuantityTypeType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Quantity" type="ecc:QuantityType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="ConnectionPointDetail_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="LineNumber" type="ecc:PositionType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="ConnectionPoint" type="ecc:MeasurementPointType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="SubContractReference" type="ecc:IdentificationType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="QuantityInformation" type="QuantityInformation_Type" maxOccurs="unbounded"/>
            <xsd:element name="Account" type="Account_Type" minOccurs="0" maxOccurs="unbounded"/>
            <xsd:element name="PriceDeviation" type="PriceDeviation_Type" minOccurs="0" maxOccurs="unbounded"/>
            <xsd:element name="MeasurementCorrectionCoefficient" type="MeasurementCorrectionCoefficient_Type"
minOccurs="0" maxOccurs="unbounded"/>
            <xsd:element name="QuantityInformation" type="QuantityInformation_Type" minOccurs="0"
maxOccurs="unbounded"/>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="Account_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="AccountIdentification" type="ecc:PartyType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
```

```
            </xsd:element>
            <xsd:element name="AccountRole" type="ecc:RoleType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Category" type="ecc:CategoryType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="AccountPosition" type="AccountPosition_Type" minOccurs="0" maxOccurs="unbounded"/>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="MeasurementCorrectionCoefficient_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="QuantityCorrectionCoefficient" type="ecc:QuantityType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="PriceDeviation_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="DeviationPrice" type="ecc:AmountType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Currency" type="ecc:CurrencyType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation>rrency</xsd:documentation>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="PriceMeasureUnit" type="ecc:UnitOfMeasureType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="AccountPosition_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="TimeStamp" type="ecc:MessageDateTimeType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Status" type="ecc:StatusType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Direction" type="ecc:QuantityTypeType" minOccurs="0">
```

```
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Quantity" type="ecc:QuantityType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:schema>
```

5 DOCUMENT CHANGE LOG

Package	Version	Date	Description
4.0	1	2007-12-31	Version 4 issued
4.0	2	2009-04-27	Correction UNH, representation of 4405, 3225 and 6411