

SECTION

II

08

Infrastructure Messages

GASDAT

Gasdata Message

Version 4.0



EASEE-gas/Edig@s Workgroup

Document version: 4

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TABLE OF CONTENTS

1	INTRODUCTION.....	4
1.1	Functional definition	4
1.2	Principles.....	4
1.3	Field of application	4
1.4	References	4
2	INFORMATION MODEL FOR GASDAT	5
2.1	Information Model Structure	5
2.2	Information model description	6
2.2.1	<i>Dependency table</i>	<i>6</i>
2.2.2	<i>Rules governing the Gas Data Document Class</i>	<i>7</i>
2.2.3	<i>Rules governing the Relevant Party Class</i>	<i>11</i>
2.2.4	<i>Rules governing the Location Class.....</i>	<i>12</i>
2.2.5	<i>Rules governing the Meter Information Class.....</i>	<i>14</i>
2.2.6	<i>governing the Measurement Class</i>	<i>16</i>
2.2.7	<i>Rules governing the Status Class</i>	<i>19</i>
2.2.8	<i>Rules governing the Characteristics Class.....</i>	<i>20</i>
3	EDIFACT IMPLEMENTATION OF GASDAT	22
3.1	Edig@s subset of the UN/EDIFACT MSCONS D.08B Branching Diagram	22
3.2	EDIFACT Template Description	23
3.2.1	<i>Edifact Dependency table</i>	<i>24</i>
4	XML IMPLEMENTATION OF GASDAT	41
4.1	XML Structure	41
4.2	XML Schema	42
4.2.1	<i>Introduction.....</i>	<i>42</i>
4.2.2	<i>Schema</i>	<i>42</i>
5	DOCUMENT CHANGE LOG.....	46

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 Gasdata - GASDAT - 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

A message, transmitted between different parties to inform on the operational status, either as a highly frequent status update or as a report on the volumes handled during a specific period.

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 GASDAT message is exchanged:

- Either on a regular basis as agreed upon in Operational Agreements
- Either upon request from an interested party.

1.3 FIELD OF APPLICATION

The GASDAT message may:

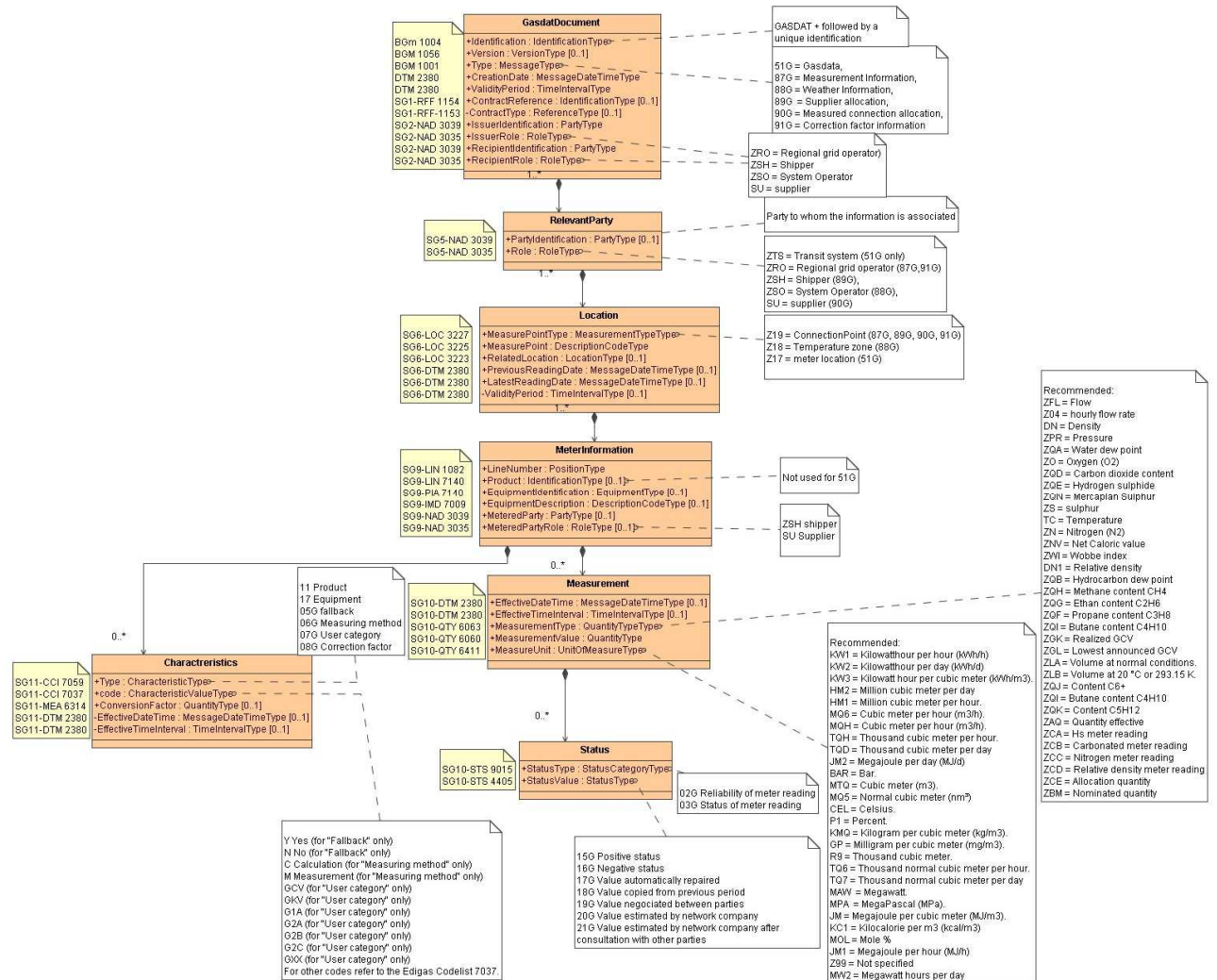
- Contain up-to-date operational information.
- Also contain historical and/or statistical information if so requested by an interested party.

1.4 REFERENCES

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

2 INFORMATION MODEL FOR GASDAT

2.1 Information Model Structure



2.2 INFORMATION MODEL DESCRIPTION

A Gas Data document is used during the Allocation phase by a System Operator to send weather information, measurement information and supplier allocations to shippers, suppliers and counter System Operators. It is also used in this phase by a Meter Reader to provide the meter readings to System Operators and shippers. It may also be used during the Settlement phase by a System Operator to provide correction factor information to shippers and counter System Operators.

2.2.1 Dependency table

Information Model Attribute	Message Purpose						Class
	51G	87G	88G	89G	90G	91G	
Identification	M	M	M	M	M	M	GasdatDocument
Version		M	M	M	M	M	
Type	51G	87G	88G	89G	90G	91G	
CreationDate	M	M	M	M	M	M	
ValidityPeriod	M	M	M	M	M	M	
ContractReference	O						
ContractType	O						
IssuerIdentification	M	M	M	M	M	M	
IssuerRole	M	M	M	M	M	M	
RecipientIdentification	M	M	M	M	M	M	
ReceipientRole	M	M	M	M	M	M	Relevantparty
PartyIdentification	O			M	M		
PartyRole	ZTS	ZRO	ZSO	ZSH	ZSH	ZRO	
MeasurePointType	Z17	Z19	Z18	Z19	Z19	Z19	Location
MeasurePoint	M	M	M	M	M	M	
RelatedLocation	O				M		
PreviousReadingDate	O						
LatestReadingDate	O						
ValidityPeriod	O						
LineNumber	M	M	M	M	M	M	MeterInformation
Product		M	M	M	M	M	
EquipmentIdentification	O						
EquipmentDescription	O						
MeteredParty				M			
MeteredPartyRole				M			
EffectiveDateTime	Xor	Xor	Xor	Xor	Xor	Xor	Measurement
EffectiveTimeInterval	Xor	Xor	Xor	Xor	Xor	Xor	
MeasurementType	M	M	M	M	M	M	
MeasurementValue	M	M	M	M	M	M	
MeasureUnit	M	M	M	M	M	M	
StatusType	O	O		O	O		Status
StatusValue	O	O		O	O		
							Characteristics
Type	O			M	M		
Code				M	M		
Conversion Factor	O						
EffectiveDateTime	Xor			Xor	Xor		
EffectiveTimeInterval	Xor			Xor	Xor		

Legend: M = Mandatory; O = Optional; Grayed out = not allowed; Xor = one or the other value is mandatory

2.2.2 Rules governing the Gas Data Document Class

2.2.2.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Gas Data Document.
Description	<p>A Gas Data Document must have a unique identification assigned by the initiator of the document to be sent to a recipient.</p> <p>The identification must take the following form: GASDAT 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 "GASDAT20090101A00001".</p> <p>The sender must guarantee that this identification is unique over time</p>
Size	The identification of a Gas Data Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.2.2 VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent.
Description	<p>A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially. The Version is used to identify a given version of a document identification.</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 the document that contains changes to the previous version.</p> <p>The receiving system should ensure that the version number for a document is superior to the previous version number received.</p>
Size	A version number may not exceed 3 numeric characters with no leading zeros.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.2.3 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	<p>This identifies the type of Gas Data Document that is being sent.</p> <p>The following types of Gas Data Document are currently permitted:</p> <ul style="list-style-type: none"> 51G = Gas data: Message transmitted between different parties to inform on the operational status either as a highly frequent status update or as a periodic report on the volumes handled during the period. 87G = Measurement Information: message sent by the System Operator to a party after a given period. The message contains the specified quantities for the period in question 88G = Weather Information: message sent by the System Operator to a System Operator, Shippers and Suppliers after a given period and containing the temperatures realized for the period in question. 89G = Supplier allocation: message sent by a System Operator to the party after a given period. The message contains the specified quantities for the period in question and all allocations of all the Shipper / Supplier combinations and all categories related to a metering point. 90G = Measured connection allocation: message sent by a System Operator to a party after a given period. The message can also be used by the System Operator to transmit information regarding connections directly into the grid. The message contains the allocations from customers of the Supplier. 91G = Correction factor information: message sent by a System Operator to the party after a given period. The message contains the measurement correction factor related to a specific metering point for the period in question.
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.4 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.

2.2.2.5 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.

2.2.2.6 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the Gas Data.
Description	The contract reference may be of two types which is identified by the Contract Type: <ul style="list-style-type: none"> ➤ 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 dependent.
Dependence requirements	See dependency table for details.

2.2.2.7 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 dependent.
Dependence requirements	See dependency table for details.

2.2.2.8 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.

2.2.2.9 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 ZRO = Regional grid Operator ZSH = Shipper SU = Supplier
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.10 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.

2.2.2.11 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 ZRO = Regional grid Operator ZSH = Shipper SU = Supplier
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.3 Rules governing the Relevant Party Class

The Relevant Party identifies the party that is responsible for the subsequent data or the party to with whom the data is associated. There may one to many Relevant Party in a Gas Data Document.

2.2.3.1 PARTY IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party with whom the gas data information is associated or for which the party is responsible for.
Description	The party 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, 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 a party'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 dependant.
Dependence requirements	See dependency table for details.

2.2.3.2 ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party is playing.
Description	The role being played by the relevant party in question. The following roles are permitted for this document: ZTS = Transit System (51G only) ZSO = System Operator (88G only) ZRO = Regional grid Operator (87G and 91G only) ZSH = Shipper (89G only) SU = Supplier (90G only)
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.4 Rules governing the Location Class

The Location class defines the place for where the detailed measurement information is being provided. This could concern a connection point, a meter or a temperature zone. There may one to many Locations per relevant party.

2.2.4.1 MEASURE POINT TYPE

ACTION	DESCRIPTION
Definition of element	The type of location that is being identified.
Description	<p>This information provides the type of the location for which the information is being provided. Currently only one of the following status values are permitted:</p> <p>Z17 = Location of meter. The identification of the location of a meter. This is valid for document types 51G.</p> <p>Z18= Temperature zone. The identification of a zone for which the temperature is similar. This is valid for document types 88G.</p> <p>Z19 = Connection point. A physical or virtual location where gas is exchanged between two or more parties, e.g. between a transit operator and a storage operator, a transit operator and an end-user, a transit operator and a hub customer or between hub customers. This is valid for document types 87G, 89G, 90G and 91G.</p>
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.4.2 MEASURE POINT – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of a measurement Point.
Description	<p>The identification of a measurement point within a System Operator's system.</p> <p>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.</p>
Size	<p>The maximum length of the measurement point identification is 16 alphanumeric characters.</p> <p>The maximum length of the coding scheme is 3 alphanumeric characters</p>
Applicability	Both the measurement point identification and the coding scheme are mandatory
Dependence requirements	None.

2.2.4.3 RELATED LOCATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of a location related to the measure point.
Description	The identification of a location that is related to the measure point such as the station where the measurements occurred. This is only used whenever it is necessary to further define the location of the measure point in order to make its identification unambiguous. 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 related location identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the Related Location and the coding scheme are dependent
Dependence requirements	See dependency table for details.

2.2.4.4 PREVIOUS READING DATE

ACTION	DESCRIPTION
Definition of element	Date and time of the of the previous reading of the information being reported.
Description	The date and time that the previous reading of the information being reported was provided. This is only provided if the information is available and if it applies to all the information within the measure point in question.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.4.5 LATEST READING DATE

ACTION	DESCRIPTION
Definition of element	Date and time of the latest reading of the information being reported.
Description	The date and time that the latest reading of the information being reported was provided. This is only provided if the information is available and if it applies to all the information within the measure point in question. If more precise information is provided with the detailed measure information this is not used..
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.4.6 VALIDITY PERIOD

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity of the information provided for the location.
Description	This information provides the start and end date and time of the period of validity of the information provided for the location. It must be equal to or less than the validity period defined in the document header. This is only provided if the information is available and if it applies to all the information within the measure point in question. If more precise information is provided with the detailed measure information this is not used.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.5 Rules governing the Meter Information Class

The meter information class provides all the information necessary to identify There may one to many meter information instances per location.

2.2.5.1 LINE NUMBER

ACTION	DESCRIPTION
Definition of element	A sequential number of the meter information set.
Description	Each meter Information set 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.

2.2.5.2 PRODUCT

ACTION	DESCRIPTION
Definition of element	Identification of the class of product being specified.
Description	The identification of a specific product category that is being reported
Size	The product may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.5.3 EQUIPMENT IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of a specific equipment to which the information applies
Description	This identifies an equipment for which additional information is being provided. 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 this information is 35 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.5.4 EQUIPMENT DESCRIPTION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The coded specification of the equipment used.
Description	<p>This provides the code that defines the specification of the identified equipment to which the measurement information applies. This information is only be used where specific equipment status information is being provided and further specification is necessary</p> <p>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.</p>
Size	<p>The maximum length of this information is 17 alphanumeric characters.</p> <p>The maximum length of the coding scheme code is 3 alphanumeric characters.</p>
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.5.5 METERED PARTY – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party that is subjacent to the measurement.
Description	The party 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, 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 a metered party'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 dependant.
Dependence requirements	See dependency table for details.

2.2.5.6 METERED PARTY ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the metered party is playing.
Description	The role being played by the metered party in question. The following roles are permitted for this document: ZSH = Shipper SU = Supplier
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.6 governing the Measurement Class

This class provides the time series information for the type of measurements being provided and where values exist. There may be zero to many measurement classes.

2.2.6.1 EFFECTIVE DATE TIME

ACTION	DESCRIPTION
Definition of element	The effective Date and time of the measurement.
Description	The date and time that the measurement was effectively carried out.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information dependent.
Dependence requirements	If there is no Effective Time Interval then this attribute is mandatory otherwise it shall not be present.

2.2.6.2 EFFECTIVE TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The effective start and end date and time of the time interval of the period in question.
Description	This information provides the effective 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 dependent.
Dependence requirements	If there is no Effective Date Time then this attribute is mandatory otherwise it shall not be present.

2.2.6.3 MEASUREMENT TYPE

ACTION	DESCRIPTION																																																																		
Definition of element	The identification of the type of measurement that is being applied.																																																																		
Description	<p>The type of measurement that is used.</p> <p>The following are the codes recommended for use:</p> <table border="0"> <tr><td>DN</td><td>Density</td></tr> <tr><td>DN1</td><td>Relative density</td></tr> <tr><td>TC</td><td>Temperature</td></tr> <tr><td>Z04</td><td>hourly flow rate</td></tr> <tr><td>ZAQ</td><td>Quantity effective</td></tr> <tr><td>ZBM</td><td>Nominated quantity</td></tr> <tr><td>ZCA</td><td>Hs meter reading</td></tr> <tr><td>ZCB</td><td>Carbonated meter reading</td></tr> <tr><td>ZCC</td><td>Nitrogen meter reading</td></tr> <tr><td>ZCD</td><td>Relative density meter reading</td></tr> <tr><td>ZCE</td><td>Allocation quantity</td></tr> <tr><td>ZFL</td><td>Flow</td></tr> <tr><td>ZGK</td><td>Realized GCV</td></tr> <tr><td>ZGL</td><td>Lowest announced GCV</td></tr> <tr><td>ZLA</td><td>Volume at normal conditions.</td></tr> <tr><td>ZLB</td><td>Volume at 20 °C or 293.15 K.</td></tr> <tr><td>ZN</td><td>Nitrogen (N2)</td></tr> <tr><td>ZNV</td><td>Net Caloric value</td></tr> <tr><td>ZO</td><td>Oxygen (O2)</td></tr> <tr><td>ZPR</td><td>Pressure</td></tr> <tr><td>ZQA</td><td>Water dew point</td></tr> <tr><td>ZQB</td><td>Hydrocarbon dew point</td></tr> <tr><td>ZQD</td><td>Carbon dioxide content</td></tr> <tr><td>ZQE</td><td>Hydrogen sulphide</td></tr> <tr><td>ZQF</td><td>Propane content C3H8</td></tr> <tr><td>ZQG</td><td>Ethan content C2H6</td></tr> <tr><td>ZQH</td><td>Methane content CH4</td></tr> <tr><td>ZQI</td><td>Butane content C4H10</td></tr> <tr><td>ZQJ</td><td>Content C6+</td></tr> <tr><td>ZQK</td><td>Content C5H12</td></tr> <tr><td>ZQN</td><td>Mercaplan Sulphur</td></tr> <tr><td>ZS</td><td>sulphur</td></tr> <tr><td>ZWI</td><td>Wobbe index</td></tr> </table>	DN	Density	DN1	Relative density	TC	Temperature	Z04	hourly flow rate	ZAQ	Quantity effective	ZBM	Nominated quantity	ZCA	Hs meter reading	ZCB	Carbonated meter reading	ZCC	Nitrogen meter reading	ZCD	Relative density meter reading	ZCE	Allocation quantity	ZFL	Flow	ZGK	Realized GCV	ZGL	Lowest announced GCV	ZLA	Volume at normal conditions.	ZLB	Volume at 20 °C or 293.15 K.	ZN	Nitrogen (N2)	ZNV	Net Caloric value	ZO	Oxygen (O2)	ZPR	Pressure	ZQA	Water dew point	ZQB	Hydrocarbon dew point	ZQD	Carbon dioxide content	ZQE	Hydrogen sulphide	ZQF	Propane content C3H8	ZQG	Ethan content C2H6	ZQH	Methane content CH4	ZQI	Butane content C4H10	ZQJ	Content C6+	ZQK	Content C5H12	ZQN	Mercaplan Sulphur	ZS	sulphur	ZWI	Wobbe index
DN	Density																																																																		
DN1	Relative density																																																																		
TC	Temperature																																																																		
Z04	hourly flow rate																																																																		
ZAQ	Quantity effective																																																																		
ZBM	Nominated quantity																																																																		
ZCA	Hs meter reading																																																																		
ZCB	Carbonated meter reading																																																																		
ZCC	Nitrogen meter reading																																																																		
ZCD	Relative density meter reading																																																																		
ZCE	Allocation quantity																																																																		
ZFL	Flow																																																																		
ZGK	Realized GCV																																																																		
ZGL	Lowest announced GCV																																																																		
ZLA	Volume at normal conditions.																																																																		
ZLB	Volume at 20 °C or 293.15 K.																																																																		
ZN	Nitrogen (N2)																																																																		
ZNV	Net Caloric value																																																																		
ZO	Oxygen (O2)																																																																		
ZPR	Pressure																																																																		
ZQA	Water dew point																																																																		
ZQB	Hydrocarbon dew point																																																																		
ZQD	Carbon dioxide content																																																																		
ZQE	Hydrogen sulphide																																																																		
ZQF	Propane content C3H8																																																																		
ZQG	Ethan content C2H6																																																																		
ZQH	Methane content CH4																																																																		
ZQI	Butane content C4H10																																																																		
ZQJ	Content C6+																																																																		
ZQK	Content C5H12																																																																		
ZQN	Mercaplan Sulphur																																																																		
ZS	sulphur																																																																		
ZWI	Wobbe index																																																																		
Size	The maximum length of this information is 3 alphanumeric characters.																																																																		
Applicability	This information is mandatory.																																																																		
Dependence requirements	None.																																																																		

2.2.6.4 MEASUREMENT VALUE

ACTION	DESCRIPTION
Definition of element	The value that has been measured within the time interval in question.
Description	<p>This information defines the value that has been measured within the time interval period.</p> <p>A decimal point value may be used to express values that are inferior to the defined unit of measurement.</p> <p>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 (".").</p> <p>All values are non-signed values.</p>
Size	<p>The maximum length of this information is 17 numeric characters (decimal mark and sign, if used, included). All leading zeros are to be suppressed.</p> <p>The number of decimal places identifying the fractional part of the value depends on local market rules.</p>
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.6.5 MEASURE UNIT

ACTION	DESCRIPTION																																																								
Definition of element	The unit of measure which is applied to the value that has been measured.																																																								
Description	<p>The unit of measurement used for the value measured within the time series.</p> <p>The following are the codes recommended for use:</p> <table border="0"> <tr><td>BAR</td><td>Bar.</td></tr> <tr><td>CEL</td><td>Celsius.</td></tr> <tr><td>GP</td><td>Milligram per cubic meter (mg/m³).</td></tr> <tr><td>HM1</td><td>Million cubic meter per hour.</td></tr> <tr><td>HM2</td><td>Million cubic meter per day</td></tr> <tr><td>JM</td><td>Megajoule per cubic meter (MJ/m³).</td></tr> <tr><td>JM1</td><td>Megajoule per hour (MJ/h)</td></tr> <tr><td>JM2</td><td>Megajoule per day (MJ/d)</td></tr> <tr><td>KC1</td><td>Kilocalorie per m³ (kcal/m³)</td></tr> <tr><td>KMQ</td><td>Kilogram per cubic meter (kg/m³).</td></tr> <tr><td>KW1</td><td>Kilowatthour per hour (kWh/h)</td></tr> <tr><td>KW2</td><td>Kilowatthour per day (kWh/d)</td></tr> <tr><td>KW3</td><td>Kilowatt hour per cubic meter (kWh/m³).</td></tr> <tr><td>MAW</td><td>Megawatt.</td></tr> <tr><td>MOL</td><td>Mole %</td></tr> <tr><td>MPA</td><td>MegaPascal (MPa).</td></tr> <tr><td>MQ5</td><td>Normal cubic meter (nm³)</td></tr> <tr><td>MQ6</td><td>Cubic meter per hour (m³/h).</td></tr> <tr><td>MQH</td><td>Cubic meter per hour (m³/h).</td></tr> <tr><td>MTQ</td><td>Cubic meter (m³).</td></tr> <tr><td>MW2</td><td>Megawatt hours per day</td></tr> <tr><td>P1</td><td>Percent.</td></tr> <tr><td>R9</td><td>Thousand cubic meter.</td></tr> <tr><td>TQ6</td><td>Thousand normal cubic meter per hour.</td></tr> <tr><td>TQ7</td><td>Thousand normal cubic meter per day</td></tr> <tr><td>TQD</td><td>Thousand cubic meter per day</td></tr> <tr><td>TQH</td><td>Thousand cubic meter per hour.</td></tr> <tr><td>Z99</td><td>Not specified</td></tr> </table>	BAR	Bar.	CEL	Celsius.	GP	Milligram per cubic meter (mg/m ³).	HM1	Million cubic meter per hour.	HM2	Million cubic meter per day	JM	Megajoule per cubic meter (MJ/m ³).	JM1	Megajoule per hour (MJ/h)	JM2	Megajoule per day (MJ/d)	KC1	Kilocalorie per m ³ (kcal/m ³)	KMQ	Kilogram per cubic meter (kg/m ³).	KW1	Kilowatthour per hour (kWh/h)	KW2	Kilowatthour per day (kWh/d)	KW3	Kilowatt hour per cubic meter (kWh/m ³).	MAW	Megawatt.	MOL	Mole %	MPA	MegaPascal (MPa).	MQ5	Normal cubic meter (nm ³)	MQ6	Cubic meter per hour (m ³ /h).	MQH	Cubic meter per hour (m ³ /h).	MTQ	Cubic meter (m ³).	MW2	Megawatt hours per day	P1	Percent.	R9	Thousand cubic meter.	TQ6	Thousand normal cubic meter per hour.	TQ7	Thousand normal cubic meter per day	TQD	Thousand cubic meter per day	TQH	Thousand cubic meter per hour.	Z99	Not specified
BAR	Bar.																																																								
CEL	Celsius.																																																								
GP	Milligram per cubic meter (mg/m ³).																																																								
HM1	Million cubic meter per hour.																																																								
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TQ7	Thousand normal cubic meter per day																																																								
TQD	Thousand cubic meter per day																																																								
TQH	Thousand cubic meter per hour.																																																								
Z99	Not specified																																																								
Size	The maximum length of this information is 3 alphanumeric characters.																																																								
Applicability	This information is mandatory.																																																								
Dependence requirements	None.																																																								

2.2.7 Rules governing the Status Class

The Status Class provides information about the quality of the measurement information. The may be zero to many instances of the Status class.

2.2.7.1 STATUS TYPE

ACTION	DESCRIPTION
Definition of element	The status of given quantity within a time interval.
Description	This information provides status of the quantity for the being reported. Currently only one of the following status values are permitted: 02G = Reliability of the meter reading. Additional status of meter reliability (positive or negative according to the status value) 03G = Status of the meter reading. Additional information of meter reading status (see Status Value).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.7.2 STATUS VALUE

ACTION	DESCRIPTION
Definition of element	The significance of the status being provided.
Description	This information defines the coded significance of what the status being provided represents. Currently only one of the following status values are permitted: 15G Positive status 16G Negative status 17G Value automatically repaired. 18G Value copied from previous period. 19G Value negotiated between parties. 20G Value estimated by Network company. 21G Value estimated by Network company, after consultation of other parties.
Size	The maximum length of this information is 3 alphanumeric characters
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.8 Rules governing the Characteristics Class

The Characteristics Class provides additional characteristics about the meter information being described. There may be zero to many instances of the Characteristics Class.

2.2.8.1 TYPE

ACTION	DESCRIPTION
Definition of element	The identification of the type of characteristic that is being provided.
Description	The type of characteristic that is being provided in relation to the meter information. The following are the codes recommended for use: 11 Product (e.g. pressure, GCV, Wobbe index, etc.) 17 Equipment (e.g. position of valve) 05G Fallback 06G Measuring method 07G User category 08G Correction factor
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.8.2 CODE

ACTION	DESCRIPTION
Definition of element	The identification of the type of measurement that is being applied.
Description	The type of measurement that is used. The following are the codes recommended for use: For Fallback uniquely: N Fallback settlement not applied Y Fallback settlement applied For measuring method uniquely: C Calculation M Measurement For user category uniquely: GGV Yearly offtake > 1.000.000 m3 hourly measured GKV Yearly offtake < 170.000 m3, hourly measured G1A Yearly offtake < 5.000 m3 G2A 5.000 m3 <= yearly offtake < 170.000 m3 and pbt < 750 hrs G2B 5.000 m3 <= yearly offtake < 170.000 m3 and 750 hours <= pbt < 1500 hours G2C 5.000 m3 <= yearly offtake < 170.000 m3 and pbt >= 1500 hours GXX 170.000 m3 <= yearly offtake < 1.000.000 m3 hourly measured Additional codes may be found in the Edigas Codelist 7037 as required.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.8.3 CONVERSION FACTOR

ACTION	DESCRIPTION
Definition of element	The conversion factor to be applied.
Description	This provides the conversion factor to be used. 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 conversion factors 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 conversion factor depends on local market rules.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

2.2.8.4 EFFECTIVE 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 dependent.
Dependence requirements	See dependency table for details.

2.2.8.5 EFFECTIVE TIME INTERVAL.

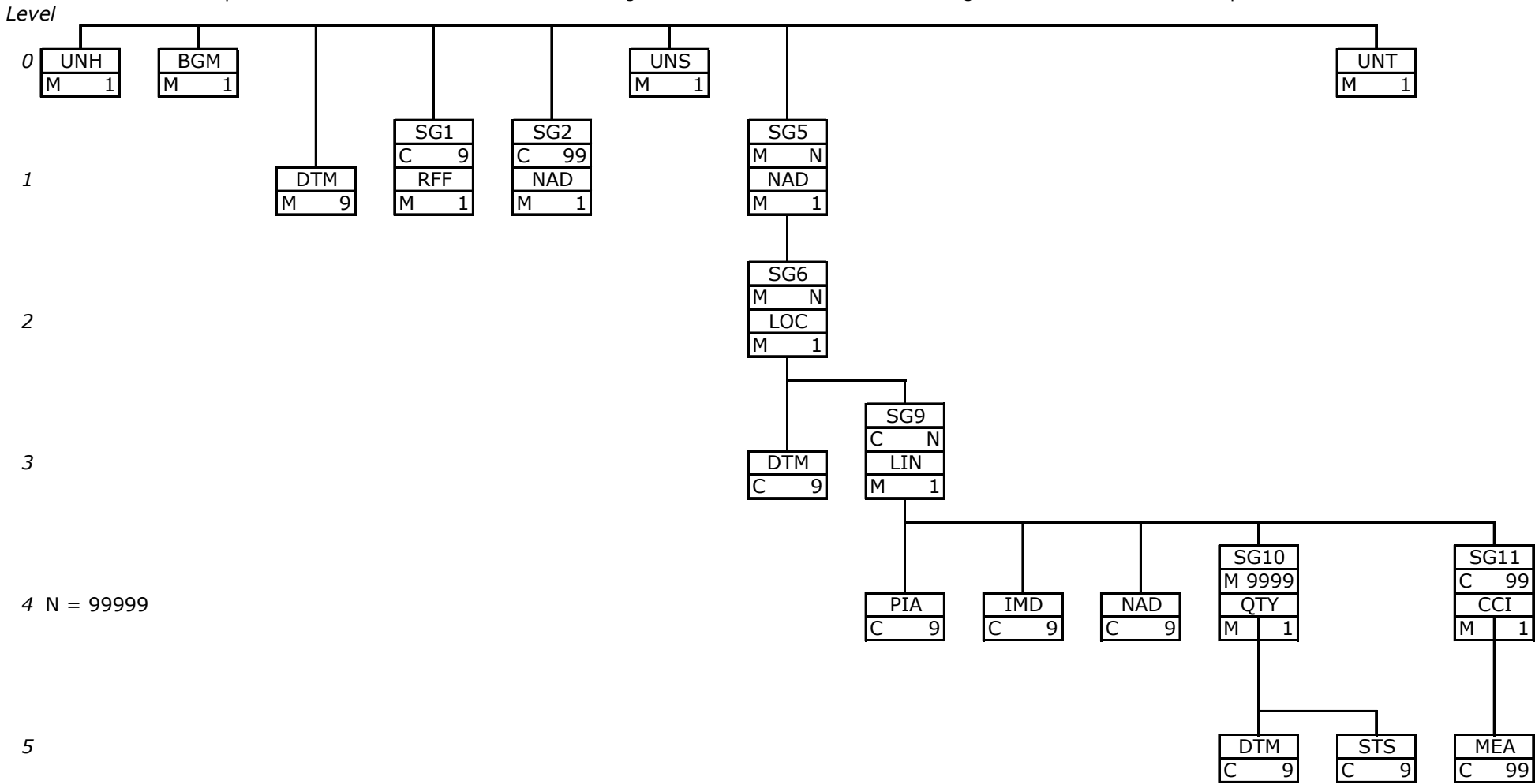
ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported. The Time Interval shall cover a whole gas day of 24 hours.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is dependent.
Dependence requirements	See dependency table for details.

3 EDIFACT IMPLEMENTATION OF GASDAT

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 MSCONS D.08B Branching Diagram

The GASDAT template is based on the EDIFACT MSCONS message. This structure illustrates how the segments will be used in this template.



3.2 EDIFACT Template Description

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

Message purpose	BGM -1001 =
Gasdata: Message transmitted between different parties to inform on the operational status either as a highly frequent status update or as a periodic report on the volumes handled during the period.	51G
Measurement Information: message sent by the System Operator to a party after a given period. The message contains the specified quantities for the period in question	87G
Weather Information: message sent by the System Operator to a System Operator, Shippers and Suppliers after a given period and containing the temperatures realized for the period in question.	88G
Supplier allocation: message sent by a System Operator to the party after a given period. The message contains the specified quantities for the period in question and all allocations of all the Shipper / Supplier combinations and all categories related to a metering point.	89G
Measured connection allocation: message sent by a System Operator to a party after a given period. The message can also be used by the System Operator to transmit information regarding connections directly into the grid. The message contains the allocations from customers of the Supplier.	90G
Correction factor information: message sent by a System Operator to the party after a given period. The message contains the measurement correction factor related to a specific metering point for the period in question.	91G

3.2.1 Edifact Dependency table

Seg N°	Seg	DE	Information Model Attribute	Message Purpose						Class
				51G	87G	88G	89G	90G	91G	
0020	BGM	1004	Identification	M	M	M	M	M	M	GasdatDocument
		1056	Version		M	M	M	M	M	
		1001	Type	51G	87G	88G	89G	90G	91G	
0030	DTM.1	2380								
0030	DTM.2	2380	CreationDate	M	M	M	M	M	M	
0030	DTM.3	2380	ValidityPeriod	M	M	M	M	M	M	
0060	RFF	1154	ContractReference	O						
			ContractType	O						
0090	NAD.1	3035	IssuerIdentification	M	M	M	M	M	M	
		3039	IssuerRole	M	M	M	M	M	M	
0090	NAD.2	3035	RecipientIdentification	M	M	M	M	M	M	Relevantparty
		3039	RecipientRole	M	M	M	M	M	M	
0160	UNS									
0180	NAD	3035	PartyIdentification	O			M	M		Location
		3039	PartyRole	ZTS	ZRO	ZSO	ZSH	ZSH	ZRO	
0200	LOC	3227	MeasurePointType	Z17	Z19	Z18	Z19	Z19	Z19	Meterinformation
		3225	MeasurePoint	M	M	M	M	M	M	
		3223	RelatedLocation	O				M		
0210	DTM.2	2308	PreviousReadingDate	O						
0210	DTM.3	2308	LatestReadingDate	O						Measurement
0210	DTM.1	2308	ValidityPeriod	O						
0290	LIN	1082	LineNumber	M	M	M	M	M	M	Status
		7140	Product		M	M	M	M	M	
0300	PIA	7140	EquipmentIdentification	O						
0310	IMD	7009	EquipmentDescription	O						
0330	NAD	3039	MeteredParty				M			Characteristics
0330	NAD	3035	MeteredPartyRole				M			
0370	DTM	2380	EffectiveDateTime	Xor	Xor	Xor	Xor	Xor	Xor	Status
0370	DTM	2380	EffectiveTimeInterval	Xor	Xor	Xor	Xor	Xor	Xor	
0360	QTY	6063	MeasurementType	M	M	M	M	M	M	
		6060	MeasurementValue	M	M	M	M	M	M	
		6411	MeasureUnit	M	M	M	M	M	M	Status
0380	STS	9015	StatusType	O	O		O	O		Characteristics
		4405	StatusValue	O	O		O	O		
0400	CCI	7059	Type	O			M	M		Characteristics
		7037	Code				M	M		
0410	MEA	6314	Conversion Factor	O						
			EffectiveDateTime	Xor			Xor	Xor		
			EffectiveTimeInterval	Xor			Xor	Xor		

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. GASDAT (=Gas Data message)
S009:0052	M	an..3	Message version number	Version number of a message type. 4 (=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+GASDAT:4:0: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. <i>See restricted code list below</i>
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. <i>See section 2.2.1.1</i>
C106:1056	M	An..9	Version identifier	To identify a version.
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+51G::321+GASDAT20090101A00001:1+9'		

Restricted qualifier code list for BGM-C002:1001	
51G	Gasdata
87G	Measurement Information
88G	Weather Information
89G	Supplier allocation
90G	Measured connection allocation
91G	Correction factor information

DTM - M	
Remarks	<i>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.</i>

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	<i>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.</i>			
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. <i>Date/time in format as indicated in C507:2379</i>
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. <i>Date/time in format as indicated in C507:2379</i>
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 – C	RFF			
Remarks	<i>The conditional segment group 1 consists only of RFF. There will be only one occurrence of segment group 1 at header level to provide the contract identification that is relevant for the whole message.</i>			
RFF – M	REFERENCE – To specify a reference. This identifies the contract (group) relevant for this message			
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. <i>Mutually agreed contract identification</i>
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'			

SG2 – M	NAD
Remarks	<i>Two NAD segments are mandatory, one to identify the issuer of the message and one to identify the recipient of the message</i>

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. <i>See restricted qualifier code list below</i>
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. <i>See restricted qualifier code list below</i>
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+ABC::321'			

Restricted qualifier code list for NAD:3035 for issuers of a message

ZRO	Regional Grid Operator
ZSO	System Operator
ZSH	Shipper
SU	Supplier

Restricted qualifier code list for NAD:30353035 for recipients of a message	
ZRO	Regional grid operator
ZSO	System operator
ZSH	Shipper
SU	Supplier

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

UNS - M		SECTION CONTROL – To separate header, detail and summary sections of a message. Separates the Header and the Detail sections		
0081	M	a1	Section identification	Separates sections in a message. D (=Header/Detail 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 header section in the message.			
Example	UNS+D'			

DETAIL SECTION

SG5 – M	NAD-SG6
Remarks	<i>The mandatory segment group 5 only consists of NAD and identified the party to whom the information in the detail section applies or is responsible for.</i>

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. the party to whom the information in the detail section applies or is responsible for			
3035	M	An..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. <i>See restricted qualifier code list below</i>
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. <i>See restricted qualifier code list below</i>
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+ZTS+XYZ::321'			

Restricted qualifier code list for NAD:3035	
ZTS	Transit System (51G only)
ZRO	Regional Grid Operator (87G, 91G only)
ZSO	System Operator (88G only)
ZSH	Shipper (89G only)
SU	Supplier (90G only)

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

SG6 – M	LOC-DTM-SG9
Remarks	<p>The mandatory segment group 6 identifies the object for which data is reported in the message. Segment group 6 consists of:</p> <ul style="list-style-type: none"> ➤ LOC to identify the object being reported on – (mandatory) ➤ DTM to provide date, time and/or period information for the data – (conditional) ➤ SG9-[LIN, PIA-IMD-NAD-SG10-SG11] to provide the relevant gasdata – (mandatory)

LOC – M		LOCATION – To identify a place or a location and/or related locations.		
		Identifies the object being reported on		
3227	M	an..3	LOCATION FUNCTION CODE QUALIFIER	Code identifying the function of a location. <i>See restricted qualifier code list below</i>
C517:3225	M	an..35	Location identification	To identify a location. <i>Identifies the Transit system, the temperature zone or the connection point</i>
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. <i>See restricted code list below</i>
C517:3224	N	an..256	Location name	Name of the location. NOT USED
C519:3223	M	an..35	First related location identifier	To identify a first related location. <i>Identifies the station reported on (51G only) or a related location (90G)</i>
C519:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used NOT USED
C519:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. <i>See restricted code list below</i>
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	C519:3223 is to be used when the identification of the location cannot be done specifically enough with C517:3225.			
Example	LOC+Z17+TENP::321+DESTG::321'			

Restricted qualifier code list for LOC:3227	
Z17	Location of meter (87G, 89G, 90G, 91G)
Z18	Temperature zone (88G)
Z19	Connection point (51G)

Restricted code list for LOC-C517/C519/C553:3055	
9	GS1 (formally EAN)
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s
ZSO	Assigned by System Operator

DTM-C	DATE/TIME/PERIOD - To specify date, and/or time, or period. Identifies the date/time/period for the following values			
C507:2005	M	An..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. <i>See restricted qualifier code list below</i>
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. <i>Period in format as indicated in C507:2379</i>
C507:2379	M	An..3	Date or time or period format code	Code specifying the representation of a date, time or period. <i>See restricted qualifier code list below</i>
Remarks	DTM is used to provide dates, times or periods relevant for all or the majority of the information reported for the location identified in LOC. Deviating dates, times or periods will be provided in DTM segments at lower levels, which will override the information provided in this segment.			
Example	DTM+367:200301030600:203'			

Restricted qualifier code list for DTM-C507:2005

273	Validity period
367	Previous meter reading
368	Latest meter reading

Restricted qualifier code list for DTM-C507:2379

203	CCYYMMDDHHMM (only with C507:2005 = 367 or 368)
719	CCYYMMDDHHMMCCYYMMDDHHMM (only with C507:2005 = 273)

SG9 - M	LIN-PIA-IMD-NAD-SG10-SG11			
Remarks	<p>The mandatory segment group 9 contains the data being reported for the station identified in LOC. The segment group consists of:</p> <ul style="list-style-type: none"> ➤ LIN to provide the line item number and eventual product identification - (mandatory) ➤ PIA to provide equipment identification information - (conditional) ➤ IMD to provide equipment specification information - (conditional) ➤ NAD to identify the metered party - (conditional) ➤ SG10-[QTY-DTM-STs] to provide the time series quantities, related dates and status information - (mandatory) ➤ SG11-[CCI-MEA] to specify additional characteristics - (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. <i>Sequential number</i>
1229	N	an..3	ACTION CODE	Code specifying the action to be taken or already taken. NOT USED
C212:7140	C	an..35	Item identifier	To identify an item. <i>Identification of the product being measured</i>
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	<p>LIN-1082 is an identification, assigned by the originator of the message, allowing to unambiguously identify each new occurrence of LIN in the message.</p> <p>LIN C212:7140 is to provide the identification of a product category. Such identifications are dependent on local market rules. This is not used in cases where the document concerns Gasdata (51G)</p> <p>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.</p>			
Example	LIN+1++HOUR'			

PIA-C	ADDITIONAL PRODUCT ID. – To specify additional or substitutional item identification codes.			
	Identifies equipment being reported on			
4347	M	an..3	PRODUCT IDENTIFIER CODE QUALIFIER	Code qualifying the product identifier. 1 (=Additional identification)
C212:7140	M	an..35	Item identifier	To identify an item. <i>Equipment identification number</i>
C212:7143	M	an..3	Item type identification code	Coded identification of an item type. ZEI (=Equipment identification number)
C212:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. NOT USED
C212:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. <i>See restricted code list below</i>
C212:7140	N	an..35	Item identifier	To identify an item. NOT USED
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
C212:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C212:7140	N	an..35	Item identifier	To identify an item. NOT USED
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
C212:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C212:7140	N	an..35	Item identifier	To identify an item. NOT USED
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
C212:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C212:7140	N	an..35	Item identifier	To identify an item. NOT USED
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
C212:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
Remarks	<i>PIA is only used when equipment status information is provided and contains the identification of the equipment.</i>			
Example	PIA+1+123ABC56:ZEI::321'			

Restricted code list for PIA-C212:3055	
9	GS1 (formally EAN)
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s
ZSO	Assigned by System Operator

IMD-C	ITEM DESCRIPTION – To describe an item in either an industry or free format.			
7077	M	an..3	DESCRIPTION FORMAT CODE	Code specifying the format of a description. C (=Code)
C272:7081	N	an..3	Item characteristic code	Code specifying the characteristic of an item. NOT USED
C272:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. NOT USED
C272:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C273:7009	M	an..17	Item description code	Code specifying an item.
C273:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used NOT USED
C273:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. <i>See restricted code list below</i>
C273:7008	N	an..256	Item description	Free form description of an item. NOT USED
C273:7008	N	an..256	Item description	Free form description of an item. NOT USED
C273:3453	N	an..3	Language name code	Code specifying the language name. NOT USED
7383	N	an..3	SURFACE OR LAYER CODE	Code specifying the surface or layer of an object. NOT USED
Remarks	<i>IMD is used to provide the specification of the type of equipment for which an identification may have been given in PIA and which will be reported in segment group 10.</i>			
Example	IMD+C++VSF::321'			

Restricted code list for IMD-C273:3055	
9	GS1 (formally EAN)
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s
ZSO	Assigned by System Operator

NAD – C		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 the party subjacent to the measurement		
3035	M	An..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. <i>See restricted qualifier code list below</i>
C082:3039	M	An..35	Party identifier	Code specifying the identity of a party. <i>Use identification coded with qualifier code list below</i>
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. <i>See restricted qualifier code list below</i>
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+XYZ::321'				

Restricted qualifier code list for NAD:3035

ZSH	Shipper
SU	Supplier

Restricted qualifier code list for NAD-C082:3055

321	Assigned by Edig@s
9	Assigned by GS1
305	Assigned by an EIC Issuing Office
ZSO	Assigned by system operator

SG10 – M	QTY-DTM –STS
Remarks	<p>The mandatory segment group 10 will be repeated as many times (up to 9.999 times per LIN) as required to cover all data reporting requirements.</p> <p>The segment group consists of:</p> <ul style="list-style-type: none"> ➤ QTY to provide relevant quantities – (mandatory) ➤ DTM to specify a date, time or period relevant for the quantity – (Mandatory) ➤ STS to specify status information relative to the quantity being reported (Conditional)

QTY -M	QUANTITY – To specify a pertinent quantity.			
C186:6063	M	an..3	Quantity type code qualifier	Code qualifying the type of quantity. <i>See restricted qualifier code list below</i>
C186:6060	M	an..35	Quantity	Alphanumeric representation of a quantity. <i>Actual quantity</i>
C186:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. <i>See restricted code list below</i>
Remarks	What is identified here is the measured value of the object in question			
Example	QTY+ZAQ:40:GV1'			

Restricted qualifier code list for QTY-C186:6063	
DN	Density
DN1	Relative density
TC	Temperature
Z04	hourly flow rate
ZAQ	Quantity effective
ZBM	Nominated quantity
ZCA	Hs meter reading
ZCB	Carbonated meter reading
ZCC	Nitrogen meter reading
ZCD	Relative density meter reading
ZCE	Allocation quantity
ZFL	Flow
ZGK	Realized GCV
ZGL	Lowest announced GCV
ZLA	Volume at normal conditions.
ZLB	Volume at 20 °C or 293.15 K.
ZN	Nitrogen (N2)
ZNV	Net Caloric value
ZO	Oxygen (O2)
ZPR	Pressure
ZQA	Water dew point
ZQB	Hydrocarbon dew point
ZQD	Carbon dioxide content
ZQE	Hydrogen sulphide
ZQF	Propane content C3H8
ZQG	Ethan content C2H6
ZQH	Methane content CH4
ZQI	Butane content C4H10
ZQJ	Content C6+
ZQK	Content C5H12
ZQN	Mercaplan Sulphur
ZS	sulphur
ZWI	Wobbe index

Restricted qualifier code list for QTY-C186:6411	
BAR	Bar.
CEL	Celsius.
GP	Milligram per cubic meter (mg/m ³).
HM1	Million cubic meter per hour.
HM2	Million cubic meter per day
JM	Megajoule per cubic meter (MJ/m ³).
JM1	Megajoule per hour (MJ/h)
JM2	Megajoule per day (MJ/d)
KC1	Kilocalorie per m ³ (kcal/m ³)
KMQ	Kilogram per cubic meter (kg/m ³).
KW1	Kilowatthour per hour (kWh/h)
KW2	Kilowatthour per day (kWh/d)
KW3	Kilowatt hour per cubic meter (kWh/m ³).
MAW	Megawatt.
MOL	Mole %
MPA	MegaPascal (MPa).
MQ5	Normal cubic meter (nm ³)
MQ6	Cubic meter per hour (m ³ /h).
MQH	Cubic meter per hour (m ³ /h).
MTQ	Cubic meter (m ³).
MW2	Megawatt hours per day
P1	Percent.
R9	Thousand cubic meter.
TQ6	Thousand normal cubic meter per hour.
TQ7	Thousand normal cubic meter per day
TQD	Thousand cubic meter per day
TQH	Thousand cubic meter per hour.
Z99	Not specified

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. 273 (= <i>validity period</i>)
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. <i>Period in format as indicated in C507:2379</i>
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. <i>See restricted code list below</i>
Remarks				
Example DTM+273:200302030600200302030700:719'				

Restricted qualifier code list for DTM-C507:2379	
203	CCYYMMDDHHMM (only with C507:2005 = 367 or 368)
719	CCYYMMDDHHMMCCYYMMDDHHMM (only with C507:2005 = 273)

STS-C		Status – To specify the status of an object or service, including its category and the reason(s) for the status. It is possible to provide up to 9 different status' for a given quantity		
C601:9015	M	an..3	Status category code	Code specifying the category of a status. <i>The type of the status being reported</i> <i>See restricted qualifier code list below</i>
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. <i>The value of the status being reported</i> <i>See restricted code list below</i>
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				
Example		STS+03G::321+17G::321'		

Restricted qualifier code list for STS-C601:9015

02G	Reliability of the meter reading
03G	Status of the meter reading

Restricted qualifier code list for STS-C555:4405	
15G	Positive status
16G	Negative status
17G	Value automatically repaired.
18G	Value copied from previous period.
19G	Value negotiated between parties.
20G	Value estimated by Network company.
21G	Value estimated by Network company, after consultation of other parties.

SG11 – C	CCI – MEA
Remarks	<i>The conditional segment group 11 contains additional characteristics. The segment group consists of:</i> <ul style="list-style-type: none"> ➤ CCI to identify additional characteristics – (mandatory) ➤ MEA to identify any conversion factors – (optional)

CCI-M		CHARACTERISTIC/CLASS ID – To identify and describe a specific characteristic and its relevance for subsequent business processes.		
Triggers access to segment group 11				
7059	M	an..3	CLASS TYPE CODE	Code specifying the type of class. <i>See restricted code list below</i>
C502:6313	N	an..3	Measured attribute code	Code specifying the attribute measured. NOT USED
C502:6321	N	an..3	Measurement significance code	Code specifying the significance of a measurement. NOT USED
C502:6155	N	an..17	Non-discrete measurement name code	Code specifying the name of a non-discrete measurement. NOT USED
C502:6154	N	an..70	Non-discrete measurement name	Name of a non-discrete measurement. NOT USED
C240:7037	M	an..17	Characteristic description code	A code specifying a characteristic. <i>See restricted code list below</i>
C240:1131	N		Code list identification code	Code identifying a user or association maintained code list. NOT USED
C240:3055	N		Code list responsible agency code	Code identifying a user or association maintained code list. NOT USED
C240:7036	N		Characteristic description	Free form description of a characteristic. NOT USED
C240:7036	N		Characteristic description	Free form description of a characteristic. NOT USED
4051	N		CHARACTERISTIC RELEVANCE CODE	Code specifying the relevance of a characteristic. NOT USED
Remarks	CCI is used to identify the type of information contained in MEA when the codes in 7059 correspond to 11 and 17. In these cases it is not expected that C240:7037 is used. In the case of the codes 05G, 06G and 07G information in C240:7037 is expected. It is not expected that this is followed by an MEA segment			
Example	CCI+11'			

Restricted code list for CCI-7059	
11	Product (e.g. pressure, GCV, Wobbe index, etc.)
17	Equipment (e.g. position of valve)
05G	Fallback
06G	Measuring method
07G	User category
08G	Correction factor
Restricted code list for CCI-C240:7037	
For Fallback uniquely:	
N	Fallback settlement not applied
Y	Fallback settlement applied
For measuring method uniquely:	
C	Calculation
M	Measurement
For user category uniquely:	
GGV	Yearly offtake > 1.000.000 m3 hourly measured
GKV	Yearly offtake < 170.000 m3, hourly measured
G1A	Yearly offtake < 5.000 m3
G2A	5.000 m3 <= yearly offtake < 170.000 m3 and pbt < 750 hrs
G2B	5.000 m3 <= yearly offtake < 170.000 m3 and 750 hours <= pbt < 1500 hours

G2C	5.000 m3 <= yearly offtake < 170.000 m3 and pbt >= 1500 hours
GXX	170.000 m3 <= yearly offtake < 1.000.000 m3 hourly measured
Additional codes may be used from the codelist 7037 as required	

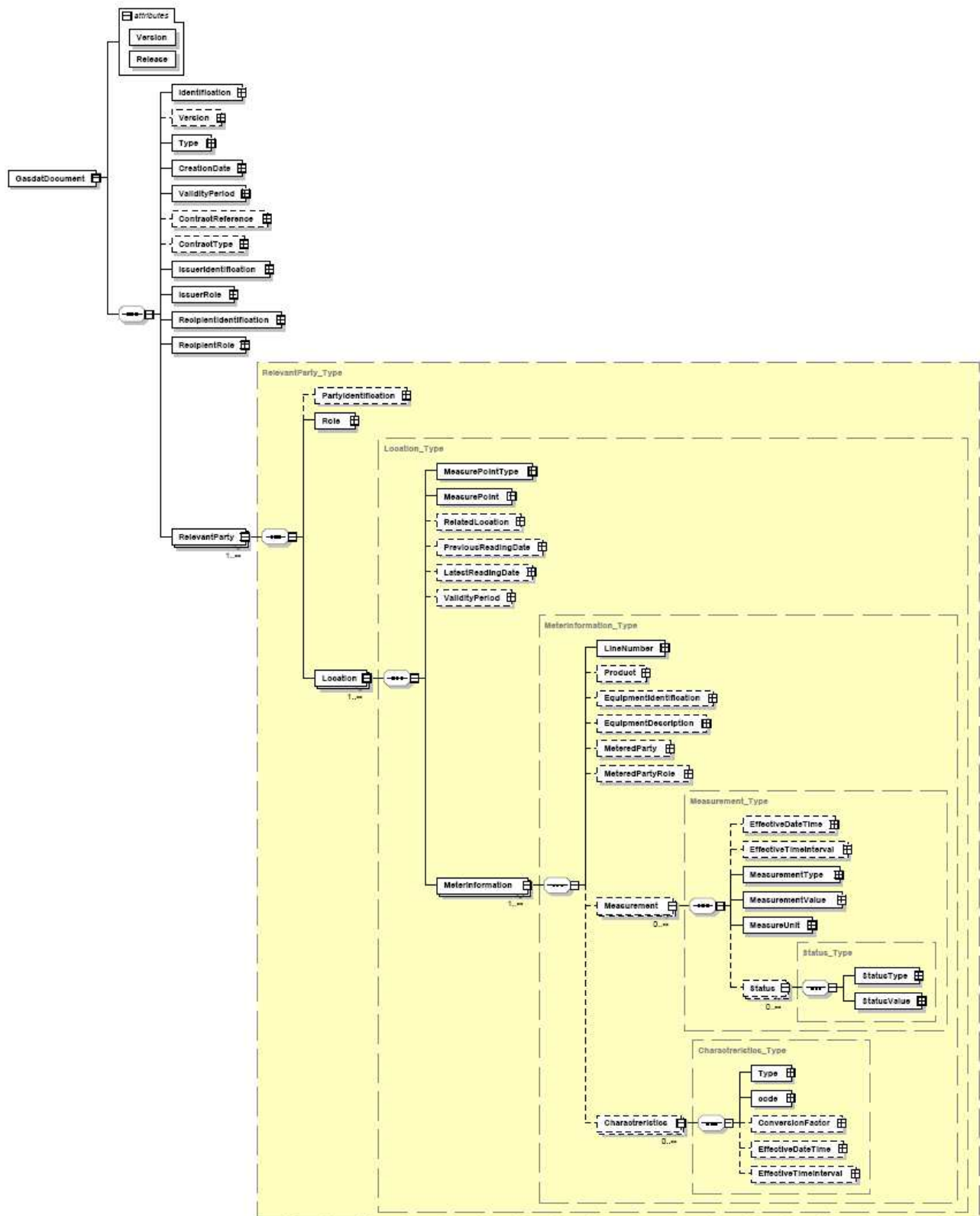
MEA - M		MEASUREMENTS – To specify physical measurements, including dimension tolerances, weights and counts. Provides measurement values.		
6311	M	an..3	MEASUREMENT PURPOSE CODE QUALIFIER	Code qualifying the purpose of the measurement. AAE (=Measurement)
C502:6313	N	an..3	Measured attribute code	Code specifying the attribute measured. NOT USED
C502:6321	N	an..3	Measurement significance code	Code specifying the significance of a measurement. NOT USED
C502:6155	N	an..17	Non-discrete measurement name code	Code specifying the name of a non-discrete measurement. NOT USED
C502:6154	N	an..70	Non-discrete measurement name	Name of a non-discrete measurement. NOT USED
C174:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. A constant code "EA" (=each)
C174:6314	M	an..18	Measure	To specify the value of a measurement. <i>The conversion factor identified.</i>
C714:6162	N	n..18	Range minimum quantity	To specify the minimum value of a range. NOT USED
C714:6152	N	n..18	Range maximum quantity	To specify the maximum value of a range. NOT USED
C714:6432	N	n..2	Significant digits quantity	Count of the number of significant digits. NOT USED
7383	N	an..3	SURFACE OR LAYER CODE	Code specifying the surface or layer of an object. NOT USED
Remarks	<i>MEA is used to provide measurement information relevant to the characteristics provided for a given set of quantities.</i>			
Example	MEA+AAE++EA:4'			

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. <i>Total number of segments in message (including UNH & UNT)</i>
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender. <i>Must be identical to UNH-0062</i>
Remarks	<i>There is one mandatory occurrence of UNT at the end of the message.</i>			
Example	UNT+175+1'			

4 XML IMPLEMENTATION OF GASDAT

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: "4". 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="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="GasdatDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation>Unique identification for the GASDAT
message</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Version" type="ecc:VersionType" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation>When used, this provides a new version of a
document that has been previously sent</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation>This identifies the type of the
document.</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDate" type="ecc:MessageDateTimeType">
          <xsd:annotation>
            <xsd:documentation>This identifies that dateand time when the document
was created. All times must be expressed in UTC.</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" type="ecc:ReferenceType" 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:sequence>
    </xsd:complexType>
  </xsd:element>
```

```

        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="RecipientRole" type="ecc:RoleType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="RelevantParty" type="RelevantParty_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="RelevantParty_Type">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="PartyIdentification" type="ecc:PartyType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Role" type="ecc:RoleType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Location" type="Location_Type" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MeterInformation_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="Product" type="ecc:IdentificationType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="EquipmentIdentification" type="ecc:EquipmentType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="EquipmentDescription" type="ecc:DescriptionCodeType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="MeteredParty" type="ecc:PartyType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="MeteredPartyRole" type="ecc:RoleType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Measurement" type="Measurement_Type" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="Characteristics" type="Characteristics_Type" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="Measurement_Type">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
  <xsd:sequence>

```

```

        <xsd:element name="EffectiveDateTime" type="ecc:MessageDateTimeType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="EffectiveTimeInterval" type="ecc:TimeIntervalType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="MeasurementType" type="ecc:QuantityTypeType">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="MeasurementValue" 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:element name="Status" type="Status_Type" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="Characteristics_Type">
    <xsd:annotation>
        <xsd:documentation/>
    </xsd:annotation>
    <xsd:sequence>
        <xsd:element name="Type" type="ecc:CharacteristicType">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="code" type="ecc:CharacteristicValueType">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="ConversionFactor" type="ecc:QuantityType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="EffectiveDateTime" type="ecc:MessageDateTimeType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="EffectiveTimeInterval" type="ecc:TimeIntervalType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="Location_Type">
    <xsd:annotation>
        <xsd:documentation/>
    </xsd:annotation>
    <xsd:sequence>
        <xsd:element name="MeasurePointType" type="ecc:MeasurementTypeType">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="MeasurePoint" type="ecc:DescriptionCodeType">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="RelatedLocation" type="ecc:LocationType" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
        </xsd:element>
    </xsd:sequence>

```

```
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="PreviousReadingDate" type="ecc:MessageDateTimeType" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="LatestReadingDate" type="ecc:MessageDateTimeType" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="MeterInformation" type="MeterInformation_Type" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="Status_Type">
    <xsd:annotation>
      <xsd:documentation/>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="StatusType" type="ecc:StatusCategoryType">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="StatusValue" type="ecc:StatusType">
        <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, 6411 and 6314
4.0	3	2009-11-13	Allowed the use of the Status class for 51G in the dependency table
4.0	4	2010-01-28	Added the right to use codes from the Characteristic Type code list