

SECTION

II

05

Infrastructure Messages

CHACAP

Changed Capacity Message

Version 4.0



EASEE-gas/Edig@s Workgroup

Document version: 2

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

1 INTRODUCTION

This document provides the definition of the Edig@s Changed Capacity - CHACAP - 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

As many parties are involved when moving gas across a System there is always a possibility that one of the parties may have a reduced capacity for a specific period of time. It may also happen that a party has an increased capacity for a specific period of time because some quantity will not be delivered as nominated. In those cases the party facing a changed capacity needs to inform the other parties involved in the System about the changed situation. This is done by means of a Changed Capacity message.

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 CHACAP message is exchanged to advise all parties involved in a System about a changed - reduced or increased - capacity situation. This advice may be transmitted after receipt of a nomination and issuance of a nomination confirmation - in case of an incident affecting the capacity - or in advance and without any reference to a specific nomination - e.g. when maintenance works on a System are planned.

The Changed Capacity message aims only at advising all parties about the changed situation, it is not meant to offer any freed-up or additional capacity.

1.3 FIELD OF APPLICATION

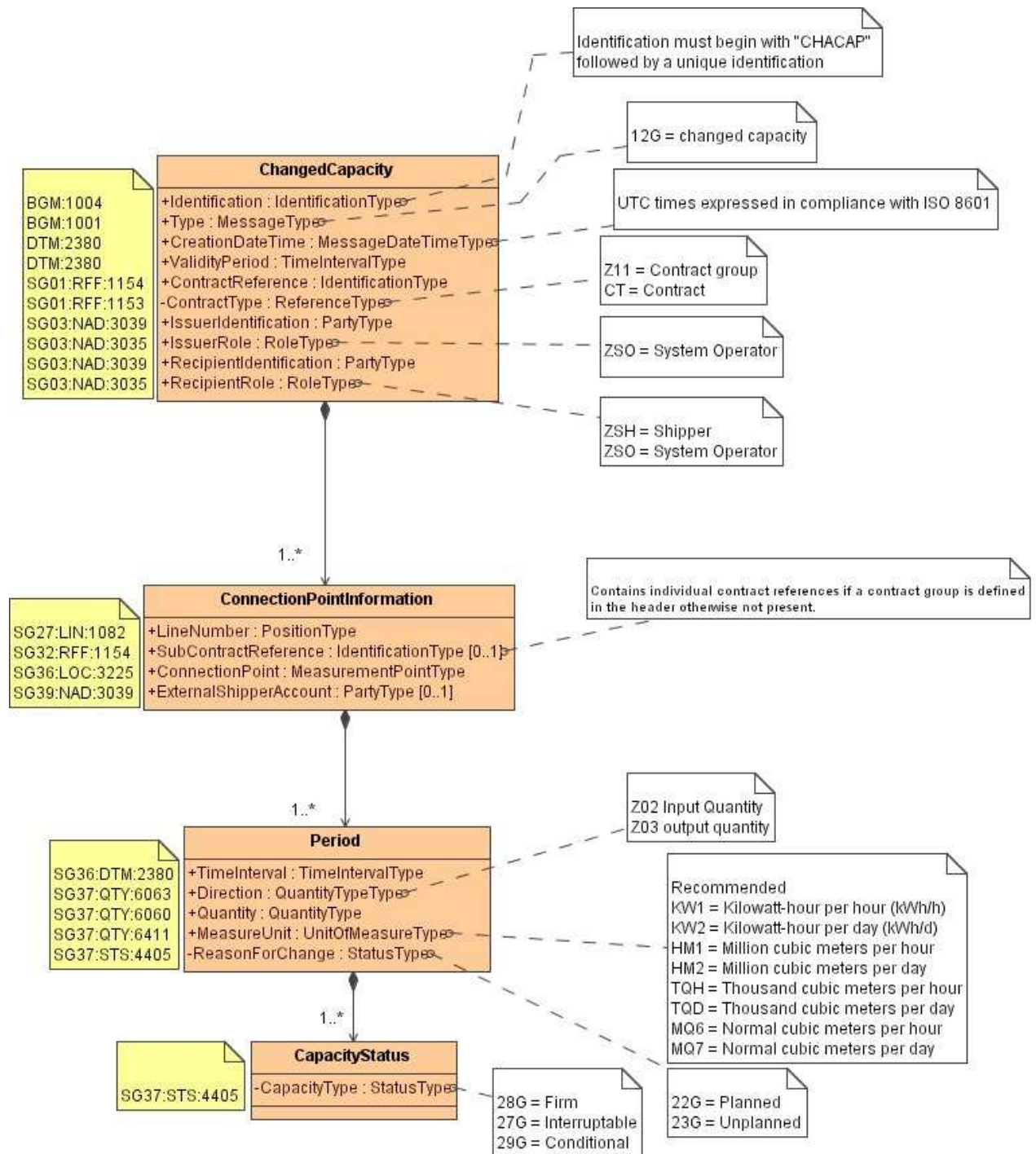
The CHACAP message is used by a System Operator to advise the Shipper or the adjacent System Operator about the changed capacity situation.

1.4 REFERENCES

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

2 INFORMATION MODEL FOR CHACAP

2.1 Information Model Structure



2.2 INFORMATION MODEL DESCRIPTION

A Changed Capacity document is used during transport phase of the nomination process by a System Operator to inform a shipper and the counter System Operator of a change in capacity which may require nominations that have already taken place to be renominated.

2.2.1 Rules governing the Changed Capacity Document Class

2.2.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Changed Capacity Document.
Description	A Changed Capacity Document must have a unique identification assigned by the initiator of the document to be sent to a recipient. The identification must take the following form: CHACAP 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 "CHACAP20090101A00001". The sender must guarantee that this identification is unique over time
Size	The identification of a Changed Capacity Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.2 TYPE

ACTION	DESCRIPTION
Definition of element	The type of the document being sent.
Description	This identifies the type of Changed Capacity Document that is being sent. The following types of Changed Capacity Document are currently permitted: 12G = Changed capacity: message to advise a party about a changed capacity situation.
Size	A type may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.3 CREATION DATE TIME

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the Document.
Description	The date and time that the document was prepared for transmission by the application of the initiator.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.4 VALIDITY PERIOD

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the period of validity covered in the document.
Description	This information provides the start and end date and time of the period of validity of the document.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.5 CONTRACT REFERENCE

ACTION	DESCRIPTION
Definition of element	Reference to a contract covering the Changed Capacity.
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 mandatory.
Dependence requirements	None

2.2.1.6 CONTRACT TYPE

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

2.2.1.7 ISSUER IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document.
Description	The initiator of the document is identified by a unique coded identification. This code identifies the party that is the "owner" of the information being transmitted in the document. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC code.
Size	The maximum length of an initiator's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

2.2.1.8 ISSUER ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated the document is playing.
Description	The role being played by the initiator of the document for this transmission. The following roles are permitted for this document: ZSO = System Operator
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.1.9 RECIPIENT IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The recipient of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC code.
Size	The maximum length of a recipient's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

2.2.1.10 RECIPIENT ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who receives the document is playing.
Description	The role being played by the recipient of the document for this transmission. The following roles are permitted for this document: ZSH = Shipper ZSO = System Operator
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2 Rules governing the Connection Point Class

There may one to many Connection Points in a Changed Capacity Document.

2.2.2.1 LINE NUMBER

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

2.2.2.2 SUBCONTRACT REFERENCE

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

2.2.2.3 CONNECTION POINT – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point within a System Operator's system. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the connection point identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are mandatory
Dependence requirements	None.

2.2.2.4 EXTERNAL SHIPPER ACCOUNT – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of the shipper account that is known to both System Operators
Description	The identification of the external shipper account known to both System Operators for which the document is referencing. The codification scheme used for the coded identification is indicated by the coding scheme attribute and should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the External Shipper Account is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the External shipper Account and the coding scheme are dependent.
Dependence requirements	This is only used when an external shipper account is identified

2.2.3 Rules governing the Period Class

There must always be a Period class.

2.2.3.1 TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The start and end date and time of the time interval of the period in question.
Description	This information provides the start and end date and time of the period being reported. The Time Interval shall cover a whole gas day of 24 hours.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.3.2 DIRECTION

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

2.2.3.3 QUANTITY

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

2.2.3.4 MEASURE UNIT

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

2.2.3.5 REASON FOR CHANGE

ACTION	DESCRIPTION
Definition of element	The identification of the planned nature of the change in capacity.
Description	<p>The reason for the change of the capacity in question in relation to planning.</p> <p>The following are the codes recommended for use:</p> <p>22G = Planned: The reason for this status is a planned maintenance.</p> <p>23G = Unplanned: The reason for this status is other than a planned maintenance</p>
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 Capacity Status Class

A Capacity Status Class is always required.

2.2.4.1 CAPACITY TYPE

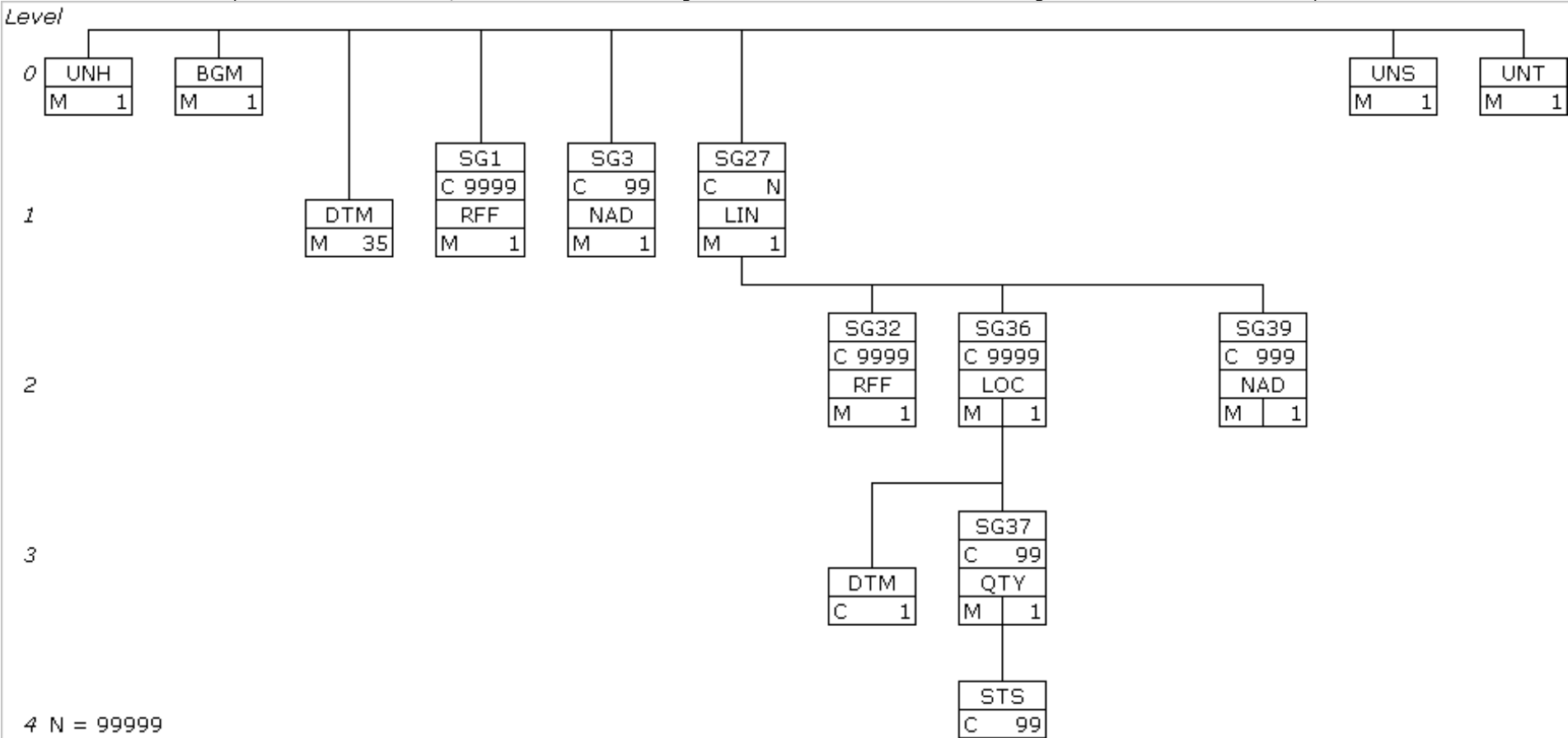
ACTION	DESCRIPTION
Definition of element	The type of capacity of given quantity within a time interval.
Description	<p>This information provides status of the quantity for the being reported.</p> <p>Currently only one of the following status values are permitted:</p> <p>27G = Interruptible. The capacity may be interruptible</p> <p>28G = Firm. The capacity is firm</p> <p>29G = Conditional. The capacity is conditional to climatic or technical reason</p>
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

3 EDIFACT IMPLEMENTATION OF CHACAP

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

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

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



3.2 EDIFACT Template Description

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

Message purpose	BGM -1001 =
Changed capacity: message to advise a party about a changed capacity situation.	12G

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

BGM-M BEGINNING OF MESSAGE – To indicate the type and function of a message and to transmit the identifying number.				
C002:1001	M	An..3	Document name code	Code specifying the document name. 12G (= <i>Changed capacity</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	N	An..9	Version identifier	To identify a version. NOT USED
C106:1060	N	An..6	Revision identifier	To identify a revision NOT USED
1225	M	An..3	MESSAGE FUNCTION CODE	Code indicating the function of the message. 9 (=Original)
4343	N	An..3	RESPONSE TYPE CODE	Code specifying the type of acknowledgment required or transmitted. NOT USED
Remarks	There is one mandatory occurrence of BGM per message.			
Attention	The following structure for the message number in BGM-1004 is mandatory in the Edig@s messages: 6 character message code + a unique identification			
Example	BGM+12G::321+CHACAP20090101A00001+9'			

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

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

DTM.2 - M DATE/TIME/PERIOD - To specify date, and/or time, or period. It identifies the date and time of the message				
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. 137 (=Document/message date/time)
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. <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 – M	RFF
Remarks	<p>The mandatory segment group 1 consists only of RFF.</p> <p>There will be only one occurrence of segment group 1 at header level to provide:</p> <ul style="list-style-type: none">➤ The contract group identification when the message relates to different contracts that belong to the same contract group. This contract group must be identified in the RFF segment at header level while the different contracts must be identified in the RFF segment at detail level.➤ The contract identification when only one contract is relevant for the whole message.

RFF – M		REFERENCE – To specify a reference. This identifies the contract (group) relevant for this message		
C506:1153	M	an..3	Reference code qualifier	Code qualifying a reference. <i>See restricted qualifier code list below</i>
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+Z11:TRABCRR01'				

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

SG3 – 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+GREENGAS::321'			

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

ZSO	System Operator
-----	-----------------

Restricted qualifier code list for NAD-3035 for recipients of a message

ZSO	System Operator
ZSH	Shipper

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

DETAIL SECTION

SG27 – M	LIN-SG32-SG36-SG39
Remarks	<p>The mandatory segment group 27 (LIN-loop) must appear at least once in the message. It will be repeated as many times (up to a maximum of 200.000 per message) as is required to cover all requirements. The segment group consists of:</p> <ul style="list-style-type: none"> ➢ LIN to uniquely identify the line item – (mandatory) ➢ SG32-[RFF] to provide a line item related to a contract reference – (conditional) ➢ SG36-[LOC-DTM-SG37] to provide a line item related to a connection point and quantity date/time/period and status information relevant for that connection point – (mandatory) ➢ SG39-[NAD] to provide line item related to a party identification – (conditional)

LIN – M	LINE ITEM – To identify a line item and configuration. Starts each new occurrence of the LIN-Loop			
1082	M	n..6	LINE ITEM IDENTIFIER	To identify a line item. <i>Sequential number</i>
1229	N	an..3	ACTION CODE	Code specifying the action to be taken or already taken. 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 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>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'			

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

RFF – M	REFERENCE – To specify a reference. – Identifies a contract			
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:TRABCRR01NN'			

SG36 – M	LOC-DTM -SG37
Remarks	<p>The mandatory segment group 36 will be repeated as many times as required to cover the whole period with a maximum of 9999 occurrences per LIN-loop. The segment group consists of:</p> <ul style="list-style-type: none"> ➤ LOC to identify a connection point that is relevant for this line item – (mandatory) ➤ DTM to specify relevant date/time/period information – (mandatory) ➤ SG37 to provide the quantity and status information relevant for this connection point – (mandatory)

LOC-M	LOCATION – To identify a place or a location and/or related locations. Identifies the connection point relevant for the quantities in this LIN-loop			
3227	M	an..3	LOCATION FUNCTION CODE QUALIFIER	Code identifying the function of a location. Z19 (= connection point)
C517:3225	M	an..35	Location identification	To identify a location. Use relevant code from one of the restricted code lists below
C517:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. NOT USED
C517:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. See restricted code list below
C517:3224	N	an..256	Location name	Name of the location. NOT USED
C519:3223	N	an..35	First related location identifier	To identify a first related location. NOT USED
C519:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used NOT USED
C519:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C519:3222	N	an..70	First related location name	Name of first related location. NOT USED
C553:3233	N	an..35	Second related location identifier	To identify a second related location. NOT USED
C553:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used NOT USED
C553:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. NOT USED
C553:3232	N	an..70	Second related location name	Name of the second related location. NOT USED
5479	N	an..3	RELATION CODE	Code specifying a relation. NOT USED
Remarks				
Example LOC+Z19+DEESS::321'				

Restricted code list for LOC-C517:3055

9	GS1
305	Assigned by ETSO (EIC)
321	Assigned by Edig@s
ZSO	Assigned by System Operator

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

SG37 – M	QTY-STS
Remarks	<p>The mandatory segment group 37 may be repeated up to 99 times as required to cover the requirements for indicating the quantities and their status information per connection point. The segment group consists of:</p> <ul style="list-style-type: none"> ➤ QTY to provide the quantity for a given connection point. There is at least one quantity per connection point – (mandatory) ➤ STS to provide any status information for the quantity in question – (mandatory)

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 recommended qualifier code list below</i>
Remarks	There is only one QTY per LOC in segment group 36.			
Example	QTY+Z03:6782:KW1'			

Restricted qualifier code list for QTY-C186:6063	
Z02	Input quantity
Z03	Output quantity

Recommended qualifier code list for QTY-C186:6411	
KW1	Kilowatt-hour per hour (kWh/h)
KW2	Kilowatt-hour per day (kWh/d)
HM1	Million cubic meters per hour
HM2	Million cubic meters per day
TQH	Thousand cubic meters per hour
TQD	Thousand cubic meters per day
MQ6	Normal cubic meters per hour
MQ7	Normal cubic meters per day

STS-M	Status – To specify the status of an object or service, including its category and the reason(s) for the status.			
	Two occurrences are possible one to identify the Capacity Type, one to identify the reason for change			
C601:9015	M	an..3	Status category code	Code specifying the category of a status. 08G (=Status category)
C601:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. NOT USED
C601:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. 321 (=Edig@s)
C555:4405	M	an..3	Status description code	Code specifying a status. <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
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+08G::321+28G::321'				

Restricted qualifier code list for STS-C555:4405 – Capacity types

28G	Firm
27G	Interruptible
29G	Conditional

Restricted qualifier code list for STS-C555:4405 – Reason For Change

22G	Planned
23G	Unplanned

SG39 – C	NAD
Remarks	<i>The conditional segment group 39 consists only of NAD. If different parties are related to different connection points, quantities, dates, contracts, etc. then a new segment group 27 must be created for each new combination.</i>

NAD	NAME AND ADDRESS – To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207. Identifies a party specifically related to this Lin-loop			
3035	M	an..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. ZES (= <i>External shipper</i>)
C082:3039	M	an..35	Party identifier	Code specifying the identity of a party. <i>Mutually agreed identification of the Shipper</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 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+ZES+SHIPPER02::ZSO'			

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

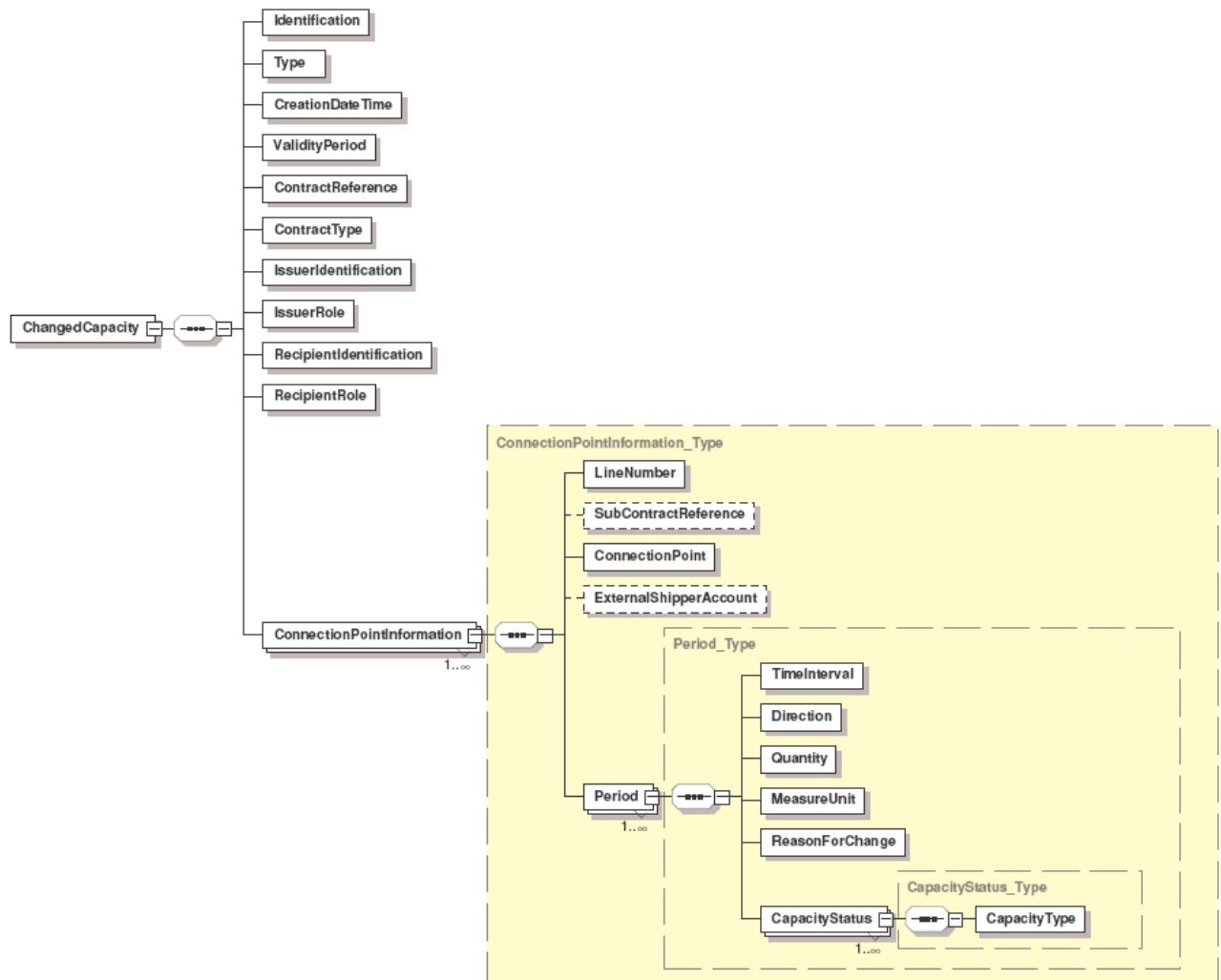
UNS - M		SECTION CONTROL – To separate header, detail and summary sections of a message. Separates the Detail and the Summary sections		
0081	M	a1	Section identification	Separates sections in a message. S (=Detail/Summary section separation)
Remarks		There is one mandatory occurrence of UNS at the end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

SUMMARY SECTION

UNT – M		MESSAGE TRAILER – To end and check the completeness of a Message		
0074	M	n..6	NUMBER OF SEGMENTS IN THE MESSAGE	Control count of number of segments in a message. <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		There is one mandatory occurrence of UNT at the end of the message.		
Example		UNT+175+1'		

4 XML IMPLEMENTATION OF CHACAP

4.1 XML STRUCTURE



4.2 XML SCHEMA

4.2.1 Introduction

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

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

4.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="3.5">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="ChangedCapacity">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="Identification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Type" type="ecc:MessageType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
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            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
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            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractReference" type="ecc:IdentificationType">
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            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ContractType" type="ecc:ReferenceType">
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            <xsd:documentation/>
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        </xsd:element>
        <xsd:element name="IssuerIdentification" type="ecc:PartyType">
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            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="IssuerRole" type="ecc:RoleType">
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            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RecipientIdentification" type="ecc:PartyType">
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            <xsd:documentation/>
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        </xsd:element>
        <xsd:element name="RecipientRole" type="ecc:RoleType">
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```



```

        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="ConnectionPointInformation" type="ConnectionPointInformation_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="Period_Type">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="TimeInterval" type="ecc:TimeIntervalType">
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        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Direction" type="ecc:QuantityTypeType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Quantity" type="ecc:QuantityType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="MeasureUnit" type="ecc:UnitOfMeasureType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="ReasonForChange" type="ecc:StatusType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="CapacityStatus" type="CapacityStatus_Type" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ConnectionPointInformation_Type">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="LineNumber" type="ecc:PositionType">
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        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="SubContractReference" type="ecc:IdentificationType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="ConnectionPoint" type="ecc:MeasurementPointType">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="ExternalShipperAccount" type="ecc:PartyType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CapacityStatus_Type">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>

```

```
</xsd:annotation>
<xsd:sequence>
  <xsd:element name="CapacityType" type="ecc:StatusType">
    <xsd:annotation>
      <xsd:documentation/>
    </xsd:annotation>
  </xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:schema>
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5 DOCUMENT CHANGE LOG

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