SECTION

II Infrastructure Messages

03 DELORD

Delivery order Message

Version 4.0

EASEE-gas/Edig@s Workgroup

Document version: 3

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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 Delivery Order - DELORD - 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 DELORD message is for the exchange of the nominated shipper quantities between two System Operators which in an initial step enable the System Operators to inform their respective shippers of the counterparty values and in a second step enable the transmission of the final values to the matching System Operator for matching.

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 DELORD message is exchanged to provide the shipper quantities to be processed by a System Operator.

1.3 FIELD OF APPLICATION

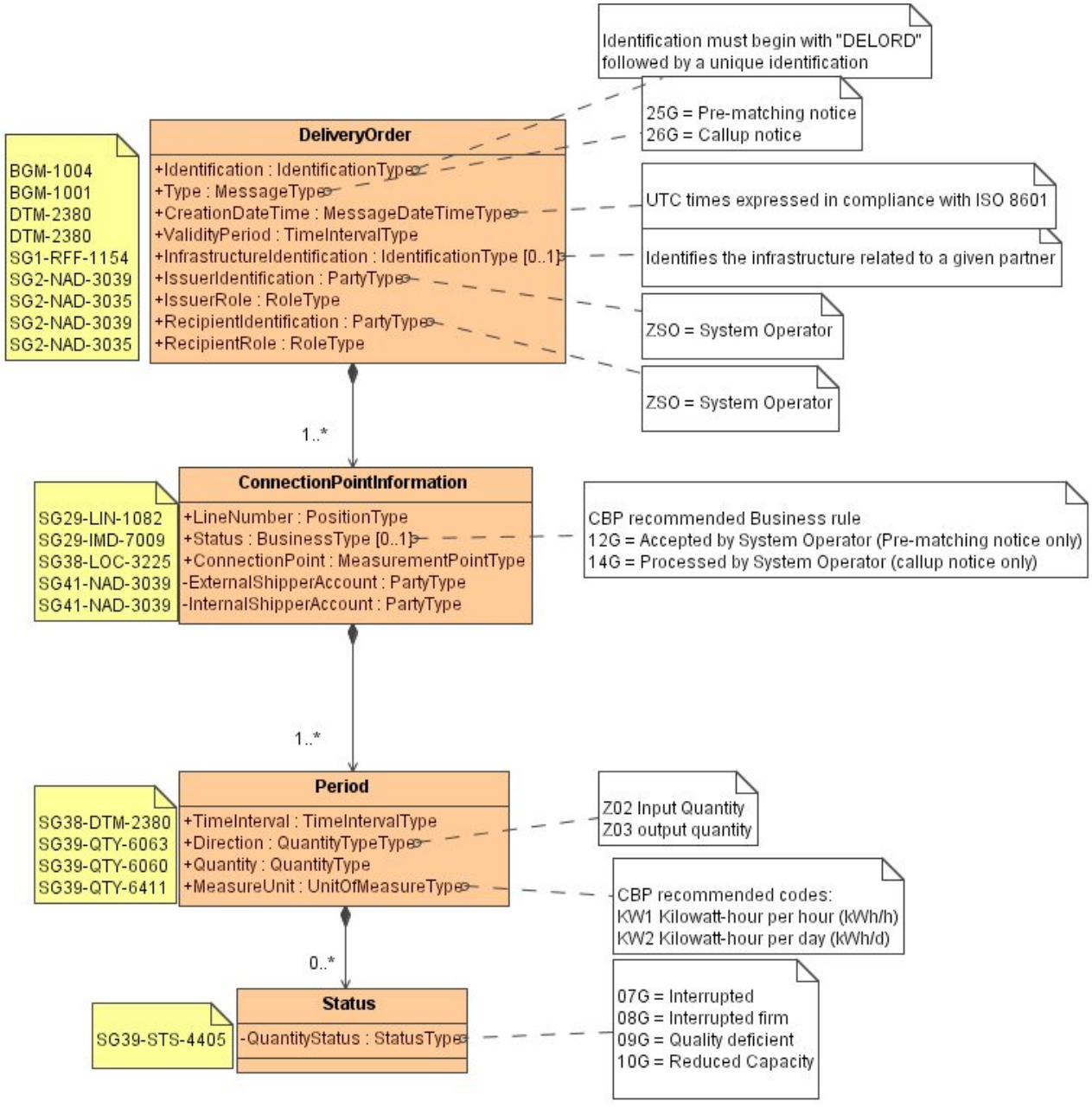
The DELORD message is used to enable the matching of nominated values.

1.4 REFERENCES

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

2 INFORMATION MODEL FOR DELORD

2.1 Information Model Structure



2.2 INFORMATION MODEL DESCRIPTION

A Delivery Order document is used during two distinct phases of the nomination process. It is used during the Transport phase by coordinating System Operators in a pre-matching step to exchange the initial shipper nominations. It is also used by coordinating System Operators in the call up step to exchange the final shipper nominations.

2.2.1 Rules governing the Delivery Order Document Class

2.2.1.1 IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Delivery Order document.
Description	A Delivery Order 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: DELORD 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 "DELORD20090101A00001". The sender must guarantee that this identification is unique over time
Size	The identification of a Delivery Order 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 Delivery Order Document that is being sent. The following types of Delivery Order Document are currently permitted: 25G = Pre-matching notice. A message exchanged between two System Operators to inform each other about accepted nomination at this connection point. 26G = Callup notice. A message to indicate the match or the mismatch of the quantities at the connection point.
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 INFRASTRUCTURE IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Reference to the infrastructure of a given partner.
Description	The Infrastructure Identification provides the identification of a given infrastructure of a partner.
Size	The Infrastructure Identification may not exceed 35 alphanumeric characters.
Applicability	This information is dependent
Dependence requirements	The use of this attribute depends on mutual agreement.

2.2.1.6 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.

2.2.1.7 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.

2.2.1.8 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.

2.2.1.9 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
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 Information Class

There may one to many Connection Points in a Delivery Order 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 STATUS

ACTION	DESCRIPTION
Definition of element	The identification of the status of the Connection Point Information assigned by the System Operator.
Description	The following status codes are permitted: 12G = Accepted by the System Operator (Pre-matching notice only). This status is used to qualify nominations from a shipper that have gone successfully through all the necessary controls and has been accepted by the System Operator. Depending on the TSA, the result of those different controls can lead to a modification of the quantities or to a partial or complete rejection of the nomination message. 14G = Processed by the System Operator (Callup notice only). This status is used to define nominations from a shipper that may have been modified by the System Operator taking into account any physical calculation, capacity constraint, balancing obligations, etc.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	This information is only used for Connection Point Information that has been reviewed by the System Operator

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 that is known to both System Operators that has been used in the nomination. 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 mandatory.
Dependence requirements	None

2.2.2.5 INTERNAL SHIPPER ACCOUNT – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	The identification of the shipper account that is known to the transmitting System Operator.
Description	The identification of the internal shipper account within a System Operator's system that is relevant to the nomination. 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 Internal Shipper Account is 35 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the Internal shipper Account and the coding scheme are mandatory.
Dependence requirements	None

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 transmitting 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)
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 Status Class

The Status Class may be used to provide additional information provided by the System Operator.

2.2.4.1 QUANTITY STATUS

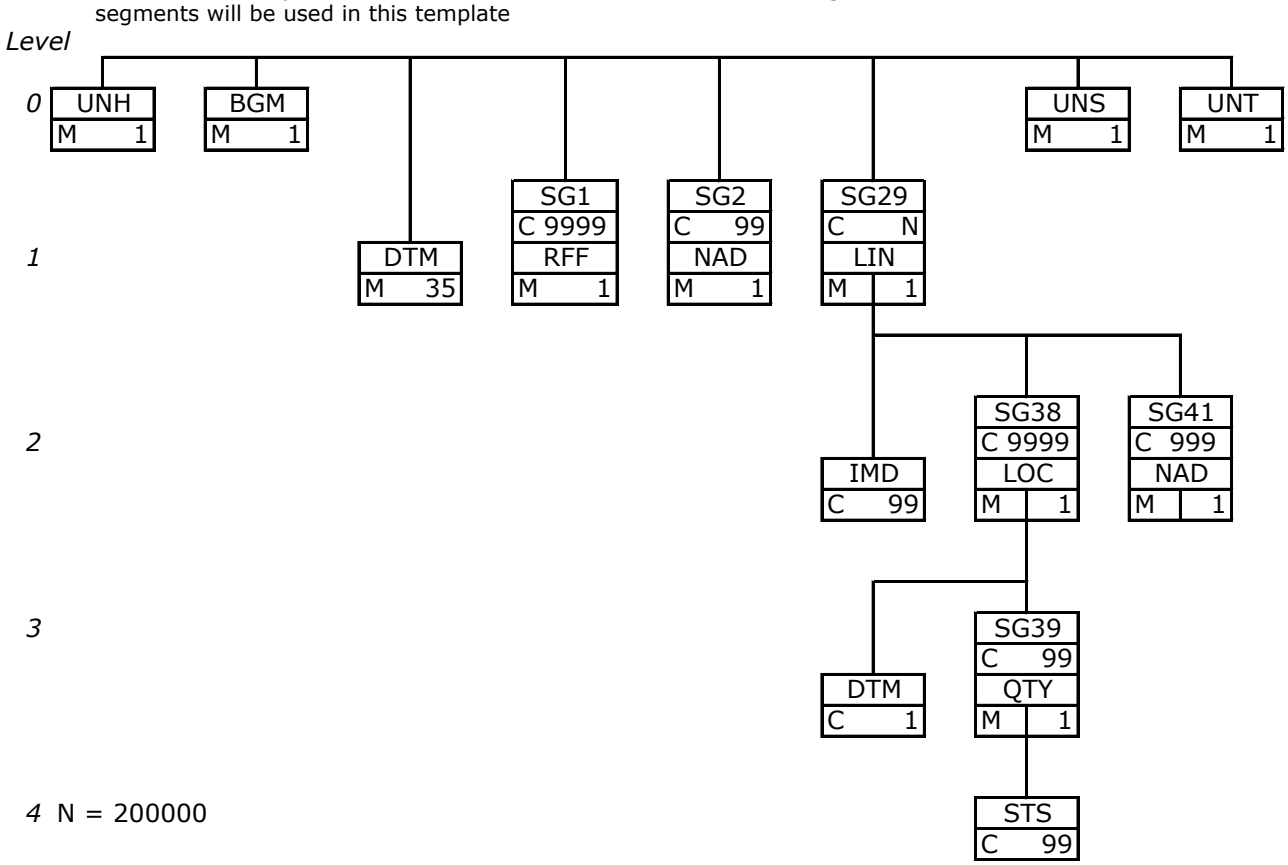
ACTION	DESCRIPTION
Definition of element	The status of given quantity within a time interval.
Description	This information provides status of the quantity for the being reported. Currently only one of the following status values are permitted: 07G = Interrupted. The value is decreased down to the interruptible capacity limit. 08G = Interrupted firm. The value is decreased down to the firm interruptible capacity in the case where no interruptible capacity remains. 09G = Quality deficient. The value is decreased due to the deficient quality of gas 10G = Reduced capacity. Confirmed capacity being less than the default capacity due to constraints or maintenance
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

3 EDIFACT IMPLEMENTATION OF DELORD

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 ORDERS D.08B Branching Diagram

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



3.2 EDIFACT Template Description

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

Message purpose	**BGM -1001 =**
Pre-matching notice: A message exchanged between two System Operators to inform each other about accepted nominations at this connection point	25G
Callup notice: A message to indicate the match or the mismatch of the quantities at the connection point.	26G

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. **DELORD** (=Delivery Order message)
S009:0052	M	an..3	Message version number	Version number of a message type. **3** (=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+DELORD:3:0:EG:EGAS40'**			

BGM-M	**BEGINNING OF MESSAGE – To indicate the type and function of a message and to transmit the identifying number.**			
C002:1001	M	An..3	Document name code	Code specifying the document name. *See restricted code list below*
C002:1131	N	An..3	Code list identification code	Code identifying a user or association maintained code list **NOT USED**
C002:3055	M	An..3	Code list responsible agency	Code identifying a user or association maintained code list. **321** (=Edig@s)
C002:1000	N	An..35	Document name	Name of a document. **NOT USED**
C106:1004	M	An..35	Document identifier	To identify a document. *See section 2.2.1.1*
C106:1056	N	An..9	Version identifier	To identify a version. **NOT USED**
C106:1060	N	An..6	Revision identifier	To identify a revision **NOT USED**
1225	M	An..3	MESSAGE FUNCTION CODE	Code indicating the function of the message. **9** (=Original)
4343	N	An..3	RESPONSE TYPE CODE	Code specifying the type of acknowledgment required or transmitted. **NOT USED**
Remarks	*There is one mandatory occurrence of BGM per message.*			
Attention	*The following structure for the message number in BGM-1004 is mandatory in the Edig@s messages: 6 character message code + a unique identification*			
Example	**BGM+26G::321+DELORD20090101A00001+9'**			

Restricted qualifier code list for BGM-C002:1001	
25G	*Prematching notice*
26G	Callup notice

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

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

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

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

SG1 – C	RFF
Remarks	*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 infrastructure identification which Identifies the infrastructure related to a given partner*

RFF – M	REFERENCE – To specify a reference. This identifies the infrastructure relevant for this message			
C506:1153	M	an..3	Reference code qualifier	Code qualifying a reference. **CT** *(=Infrastructure identification)*
C506:1154	M	an..35	Reference identifier	Identifies a reference. *Mutually agreed Infrastructure identification*
C506:1156	N	an..6	Document line identifier	To identify a line of a document. **NOT USED**
C506:1056	N	an..9	Version identifier	To identify a version. **NOT USED**
C506:1060	N	an..6	Revision identifier	To identify a revision. **NOT USED**
Remarks				
Example	**RFF+CT:TRABCRR01'**			

SG2 – M	NAD
Remarks	*Two NAD segments are mandatory, one to identify the issuer of the message and one to identify the recipient of the message*

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

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

DETAIL SECTION

SG29 – M	**LIN-IMD-SG38-SG41**
Remarks	*This segment group 29 is mandatory and provides the quantities and related information. At least one occurrence must appear in the message.* *Segment (groups) that are typically included in this occurrence are:* ➢ *LIN to uniquely identify the line item – (mandatory)* ➢ *IMD to provide the business rules qualification flag – (conditional)* ➢ *SG38–[DTM-SG39(QTY-STS)] to provide a line item related to a connection point and quantity, date/time/period information and status information relevant for that connection point – (mandatory)* ➢ *SG41-[NAD] to provide a line item related to shipper identifications – (mandatory)*

LIN - M	**LINE ITEM – To identify a line item and configuration.** **Starts each new occurrence of the LIN-Loop**			
1082	M	n..6	LINE ITEM IDENTIFIER	To identify a line item. *Sequential number*
1229	N	an..3	ACTION CODE	Code specifying the action to be taken or already taken. **NOT USED**
C212:7140	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	*LIN-1082 is an identification, assigned by the originator of the message, allowing to unambiguously identify each new occurrence of LIN in the message.* ***Recommendation**: unless special requirements impose a different approach Edig@s recommends the use of a simple numerical sequence starting with '1' and incremented with 1 for each new occurrence of the LIN-segment.*			
Example	**LIN+3'**			

IMD - C	**ITEM DESCRIPTION – To describe an item in either an industry or free format.** *Provides the business rules qualification for all quantities in this LIN*			
7077	N	an..3	DESCRIPTION FORMAT CODE	Code specifying the format of a description. **NOT USED**
C272:7081	M	an..3	Item characteristic code	Code specifying the characteristic of an item. **05G** (=Business rules qualification flag)
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. *See restricted code list below*
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. **321** (=Edig@s)
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	*In this position IMD is only used to transmit a business rules qualification flag or additional business information flag that provides the Delivery Order status for all quantities in this LIN-loop.*			
Example	**IMD++05G+14G::321'**			

Restricted qualifier code list for IMD-C273:7009	
12G	Accepted by System Operator
14G	Processed by System Operator

SG38 – M	LOC- DTM-SG39
Remarks	*The mandatory segment group 38 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:* ➢ *LOC to identify a connection point that is relevant for this line item – (mandatory)* ➢ *DTM to specify relevant date/time/period information – (mandatory)* ➢ *SG39 (QTY-STS) with QTY to provide the quantity information relevant for this connection point – (mandatory) and eventually STS to provide status information relevant to the quantity.*

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	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. *See restricted code list below*
C517:3224	N	an..256	Location name	Name of the location. **NOT USED**
C519:3223	N	an..35	First related location identifier	To identify a first related location. **NOT USED**
C519:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C519:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C519:3222	N	an..70	First related location name	Name of first related location. **NOT USED**
C553:3233	N	an..35	Second related location identifier	To identify a second related location. **NOT USED**
C553:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C553:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C553:3232	N	an..70	Second related location name	Name of the second related location. **NOT USED**
5479	N	an..3	RELATION CODE	Code specifying a relation. **NOT USED**
Remarks				
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 preceding quantity			
C507:2005	M	an..3	Date or time or period function code qualifier	Code qualifying the function of a date, time or period. **2** *(=Delivery date/time requested)*
C507:2380	M	an..35	Date or time or period text	The value of a date, a date and time, a time or of a period in a specified representation. *Period in format as indicated in C507:2379*
C507:2379	M	an..3	Date or time or period format code	Code specifying the representation of a date, time or period. **719** (=CCYYMMDDHHMMCCYYMMDDHHMM)
Remarks	*DTM can be repeated only 1 time per LOC in segment group 38.*			
Example	**DTM+2:200309150400200309160400:719'**			

SG39 – M	QTY-STS
Remarks	*The mandatory segment group 39 may be repeated up to 99 times as required to cover the requirements for indicating the quantities and their status information per connection point The segment group consists of:* ➢ *QTY to provide the quantity 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 – (conditional)*

QTY –M	QUANTITY – To specify a pertinent quantity.			
C186:6063	M	an..3	Quantity type code qualifier	Code qualifying the type of quantity. *See restricted qualifier code list below*
C186:6060	M	an..35	Quantity	Alphanumeric representation of a quantity. *Actual quantity*
C186:6411	M	an..8	Measurement unit code	Code specifying the unit of measurement. *See recommended qualifier code list below*
Remarks	*There is only one QTY per LOC in segment group 38.*			
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)

STS-C	Status – To specify the status of an object or service, including its category and the reason(s) for the status.			
C601:9015	M	an..3	Status category code	Code specifying the category of a status. **08G** *(=Status category)*
C601:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C601:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **321** (=Edig@s)
C555:4405	M	an..3	Status description code	Code specifying a status. *See restricted code list below*
C555:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C555:3055	M	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **321** (=Edig@s)
C555:4404	N	an..35	Status description	Free form description of a status. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status **NOT USED**.
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
C556:9013	N	an..3	Status reason description code	Code specifying the reason for a status. **NOT USED**
C556:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C556:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C556:9012	N	an..256	Status reason description	Free form description of the status reason. **NOT USED**
Remarks				
Example	**STS+08G::321+07G::321'**			

Restricted qualifier code list for STS-C555:4405	
07G	Interrupted
08G	Interrupted firm
09G	Quality deficient
10G	Reduced Capacity

SG41 – M	NAD			
Remarks	*The mandatory segment group 41 consists only of NAD.* *The segment group must be repeated 2 times per LIN in segment group 29 to identify the internal and external shipper that is specific for the data contained in this LIN-loop.* *If different parties are related to different connection points, quantities, dates, contracts, etc. then a new segment group 29 must be created for each new combination.*			
NAD - M	**NAME AND ADDRESS – To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.** **Identifies a party specifically related to this Lin-loop**			
3035	M	an..3	PARTY FUNCTION CODE QUALIFIER	Code giving specific meaning to a party. *See restricted qualifier code list below*
C082:3039	M	an..35	Party identifier	Code specifying the identity of a party. *Mutually agreed identification of the Shipper*
C082:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. **NOT USED**
C082:3055	*M*	*an..3*	*Code list responsible agency code*	*Code specifying the agency responsible for a code list.* *See restricted code list below*
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C058:3124	N	an..35	Name and address description	Free form description of a name and address line. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3036	N	an..35	Party name	Name of a party. **NOT USED**
C080:3045	N	an..3	Party name format code	Party name format code **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
C059:3042	N	an..35	Street and number or post office box identifier x	To identify a street and number and/or Post Office box number. **NOT USED**
3164	N	an..35	CITY NAME	Name of a city. **NOT USED**
C819:3229	N	an..9	Country subdivision identifier	To identify a country subdivision, such as state, canton, county, prefecture. **NOT USED**
C819:1131	N	an..17	Code list identification code	Code identifying a user or association maintained code list. Not used **NOT USED**
C819:3055	N	an..3	Code list responsible agency code	Code specifying the agency responsible for a code list. **NOT USED**
C819:3228	N	an..70	Country subdivision name	Name of a country subdivision, such as state, canton, county, prefecture. **NOT USED**
3251	N	an..17	POSTAL IDENTIFICATION CODE	Code specifying the postal zone or address. **NOT USED**
3207	N	an..3	COUNTRY IDENTIFIER	Identification of the name of the country or other geographical entity as defined in ISO 3166-1 and UN/ECE Recommendation 3. **NOT USED**
Remarks				
Example	**NAD+ZSH+SHIPPER02::ZSO'**			

Restricted qualifier code list for NAD-3035	
ZES	External Shipper account
ZSH	Internal Shipper account

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

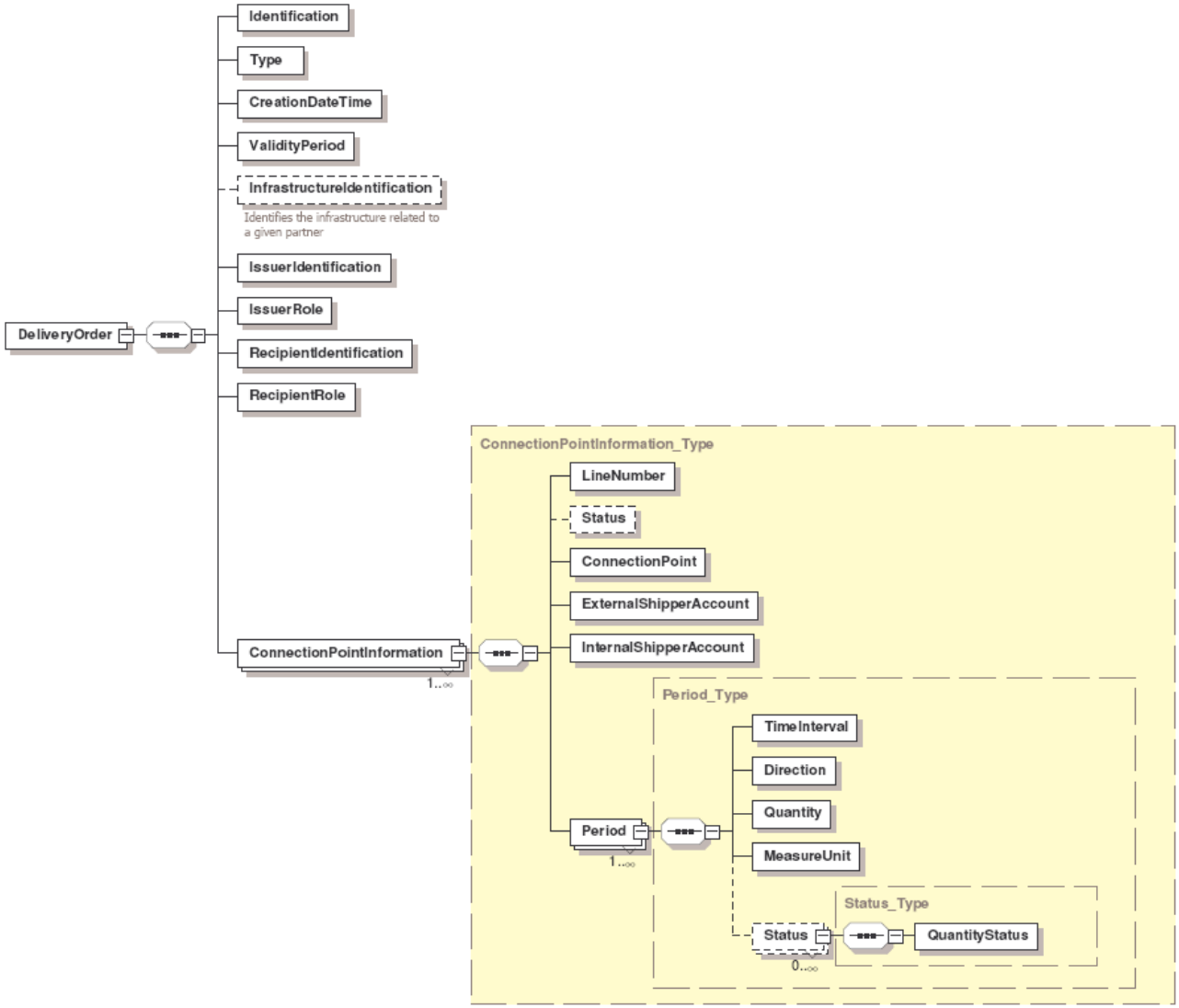
UNS - M	**SECTION CONTROL – To separate header, detail and summary sections of a message. Separates the Detail and the Summary sections**			
0081	M	a1	Section identification	Separates sections in a message. **S** (=Detail/Summary section separation)
Remarks	*There is one mandatory occurrence of UNS at 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. *Total number of segments in message (including UNH & UNT)*
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender. *Must be identical to UNH-0062*
Remarks	*There is one mandatory occurrence of UNT at the end of the message.*			
Example	**UNT+175+1'**			

4 XML IMPLEMENTATION OF DELORD

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: “3”. This corresponds to the Message Implementation Guide Version number.

4.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="3.5">
    <xsd:import namespace="core-cmpts.xsd" schemaLocation="../cclib/core-cmpts.xsd"/>
    <!--
            EDIGAS Document Automatically generated from a UML class diagram using XMI.
            Generation tool version 1.7
        -->
    <xsd:element name="DeliveryOrder">
        <xsd:complexType>
            <xsd:annotation>
                <xsd:documentation/>
            </xsd:annotation>
            <xsd:sequence>
                <xsd:element name="Identification" type="ecc:IdentificationType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="Type" type="ecc:MessageType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="ValidityPeriod" type="ecc:TimeIntervalType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="InfrastructureIdentification" type="ecc:IdentificationType" minOccurs="0">
                    <xsd:annotation>
                        <xsd:documentation>Identifies the infrastructure related to a given partner</xsd:documentation>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="IssuerIdentification" type="ecc:PartyType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="IssuerRole" type="ecc:RoleType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="RecipientIdentification" type="ecc:PartyType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="RecipientRole" type="ecc:RoleType">
                    <xsd:annotation>
                        <xsd:documentation/>
                    </xsd:annotation>
                </xsd:element>
                <xsd:element name="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">
                <xsd:annotation>
                    <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="Status" type="Status_Type" minOccurs="0" 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">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Status" type="ecc:BusinessType" 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">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="InternalShipperAccount" type="ecc:PartyType">
                <xsd:annotation>
                    <xsd:documentation/>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="Period" type="Period_Type" maxOccurs="unbounded"/>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="Status_Type">
        <xsd:annotation>
            <xsd:documentation/>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="QuantityStatus" 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, and 6411
4.0	3	2011-01-04	Editorial correction to put the correct name in the identification attribute.