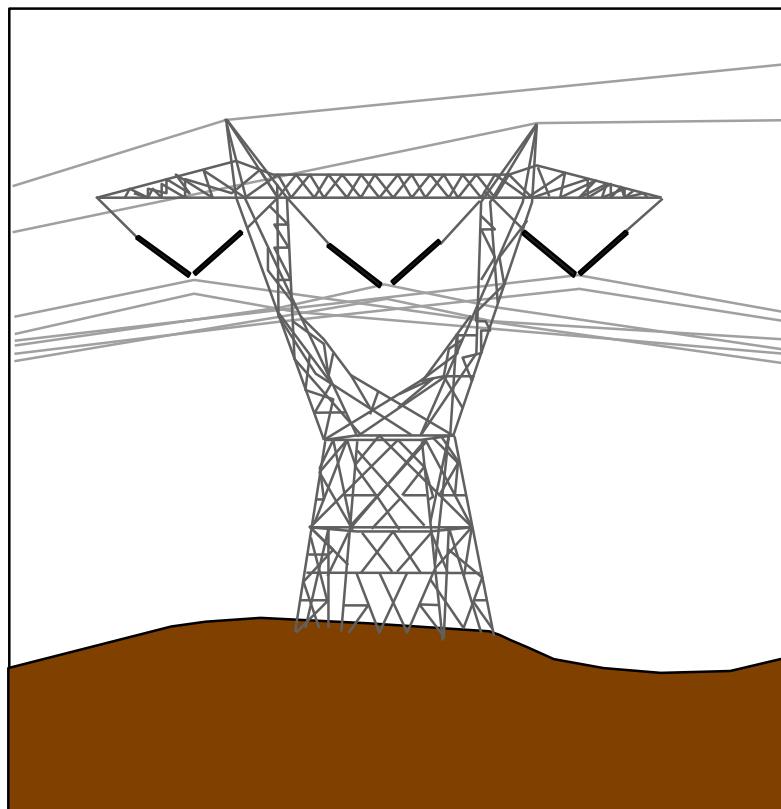


Message handbook for ebIX

Implementation guide for UTILITY MASTER DATA MESSAGE



EDIFACT-message:	UTILMD
EDIFACT-version:	D
EDIFACT-release:	02B
IG-status:	Working draft - Not for implementation
IG-version:	Planned as 5.0
IG-revision:	B
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C O N T E N T

1	INTRODUCTION	3
1.1	REQUIREMENTS FOR THE CHANGE OF SUPPLIER.....	3
1.2	PRELIMINARY REMARKS ON THE EXCHANGE OF DATA WHEN CHANGING THE SUPPLIER.....	3
2	GENERAL DESCRIPTION OF THE UTILMD MESSAGE.....	4
2.1	FUNCTIONAL DEFINITION	4
2.2	PRINCIPLES	4
3	REFERENCES	5
3.1	PRECEDENCE	5
4	QUALITY ASSURANCE	6
4.1	VERSION NUMBER	6
4.2	CODED VALUES	6
4.3	CORRECTIONS FROM EARLIER VERSIONS	6
5	SPECIAL CONDITIONS	7
6	OVERVIEW OF THE MESSAGE.....	8
6.1	CLASS DIAGRAM FOR THE UTILITY MASTER DATA MESSAGE.....	8
6.2	CUE LIST	9
6.3	MESSAGE DIAGRAM.....	13
6.4	SEGMENT TABLE	14
7	DETAILED DESCRIPTION OF THE MESSAGE	16
9	EAN (INTERNATIONAL ARTICLE NUMBERING ASSOCIATION).....	37
	APPENDIX A - EXAMPLE OF AN EDIFACT MESSAGE	64

1 INTRODUCTION

This document is an Implementation Guide (IG) for the Utility master data message, to be used in the power industry. The IG describes the EDIFACT-message UTILMD (Utility master data message) in detail. The message is sent between parties in the power industry. The message can be used for submission of master data regarding metering points, e.g. when the consumer changes the supplier.

This IG is a part of the "Message handbook for ebIX", which contains a set of IG's for different messages used in the power industry and a functional description, which contains common descriptions for the different IG's.

The Functional description contains common descriptions for the different Implementation Guides. This includes relationships between the different message types, use of codes and code lists, special conditions within and between countries (such as use of time zones), terms and notation, use of header and trailer segments (UNB and UNZ), etc.

The objective of this document is to achieve harmonisation within the European power industry. Since rules and legislation differs between the countries the following rules have been followed during the development of the IG:

- Each country has to make a national user guide with national rules and requirements.
- The process description about the change of supplier (process chart) is applicable independent of load profile procedures in use (analytical or synthetical methods).
- The present document does not give any indication about the period of time during which the change of a supplier has to be effected by the parties concerned. No information is given about the retention of the supply contract in the event of moving-out, the dunning system (reminders), the stopping of supply, current accounts, insolvency, questions of liability, data clearing, new connections or fixed-term connections.
- The present description reflects the current state of discussions in the project group.

1.1 Requirements for the change of supplier

Usually, the consumer triggers the change of supplier. The consumer concludes a supply contract with the new Balance supplier, asking at the same time to conclude the necessary grid connection and grid usage agreements. If required, the consumer needs to authorize the Balance supplier to do so. Of course, the consumer himself can give notice to his former Balance supplier or conclude a grid usage agreement with the Metering point administrator. Prior to the conclusion of a new supply contract, the consumer is obliged to verify whether the previous supply contract can be terminated with the given notice (as per end of month). If the consumer does not do so, he risks concluding two supply contracts at a time – unintentionally. Costs arising from the required cancellation in compliance with the usual term of balance assignments have to be borne by the responsible party.

1.2 Preliminary remarks on the exchange of data when changing the supplier

To enable a change of supplier in a cost-saving, easy and effective manner, an ebIX project groups is developing EDIFACT standard for data exchange: The message type UTILMD is used for exchanging master data, the message type UTILTS is made for exchanging metered values. The grid companies are recommended to adjust their requirements to this standard. The standard refers to both the settlement of consumers with profile based metering or continuous metering. This way, not all the fields are relevant to load profile customers.

2 GENERAL DESCRIPTION OF THE UTILMD MESSAGE

2.1 Functional Definition

The Utilities master data message is sent between responsible parties in a utilities infrastructure for the purpose of exchanging characteristics of objects and services. In addition the Utilities master data message may be used to request information. A party in a utilities infrastructure can for example be a net owner, a supplier, a balance responsible or a transmission system operator.

2.2 Principles

The Utilities master data message is used for exchanging characteristics of objects and services in the specified field, normally used for updating data bases with administrative and technical information of long validity, such as information concerning customers, partners and installations. The information may be of technical or administrative character, such as characteristics of a meter, tariffs, suppliers etc.

In addition the Utilities master data message may be used to request information.

Each set of master data can be identified according to its nature, e.g. by metering point identification or location identification. The message may be an initial message and does not require a response.

Examples of use are:

- Information regarding change of supplier, such as: Request for end user information.
- Information regarding the characteristics of an end user.
- Information about change of supplier.
- Information of contract termination from an end user.
- Exchange of changes in characteristics of objects or services between parties in a utilities infrastructure.
- Change of components or characteristics of components, such as change of a meter.

3 REFERENCES

This Implementation guide is based on the following documents.

- [1] **UN/EDIFACT directory**, D.02B
- [2] **Message handbook for ebIX, Functional description**
- [3] **ISO 9735**, version 2, 1990.11.01
- [4] **ebIX model for Customer switching in the energy market**

The documents can be found on:

<http://www.unece.org/trade/untdid/>
<http://www.ediel.org>

3.1 Precedence

If there should be any conflict regarding this Implementation guide or between this Implementation guide and other documents, the following precedence shall be used:

- 1 UN/EDIFACT directory, D.02B [1]
- 2 The Functional description [2]
- 3 This Implementation guide.

In this Implementation guide the EDIFACT message type is described in different ways. If there should be any conflict regarding the different descriptions, the detailed description in the last chapter should be used.

4 QUALITY ASSURANCE

This document is written by EdiSys AS on behalf of ebIX. Members of the ebIX-organisation have taken part in its development throughout.

The present document has the following status:

Request For Comments - Not for implementation

4.1 Version number

The Implementation Guide will have 2 levels of version numbering. This will be Version and Release. In addition there will be a Revision number.

- The Version number (first number) will be updated when there have been major changes like new versions of the message type.
- The Release number will be updated when there have been small changes to the IG, like adding new segments, new data elements etc. within the EDIFACT directory. These changes shall not influence existing implementations.
- The Revision number will be updated when there have been minor changes, like correction of examples, adding new codes etc. These changes shall not influence existing implementations.

4.2 Coded values

The following principles are used for codes and qualifiers:

- For those codes that seem to be stable over time it will be sent change requests (DMRs) to EDIFACT. These codes will in the current IG have a leading Z.
- For those codes used in date elements not maintained in the EDIFACT code list and for more uncertain codes, ebIX will maintain the code list. These codes will in the IG have a leading E.

4.3 Corrections from earlier versions

Corrections from version 5.0 A

- The code list responsible for code 260 is changed from Ediel to ebIX

In addition to minor text corrections the following changes has been made to this version of the IG:

This is a Implementation Guide for UTILMD under development and changes have not been recorded.

5 SPECIAL CONDITIONS

None.

6 OVERVIEW OF THE MESSAGE

6.1 Class diagram for the Utility master data message

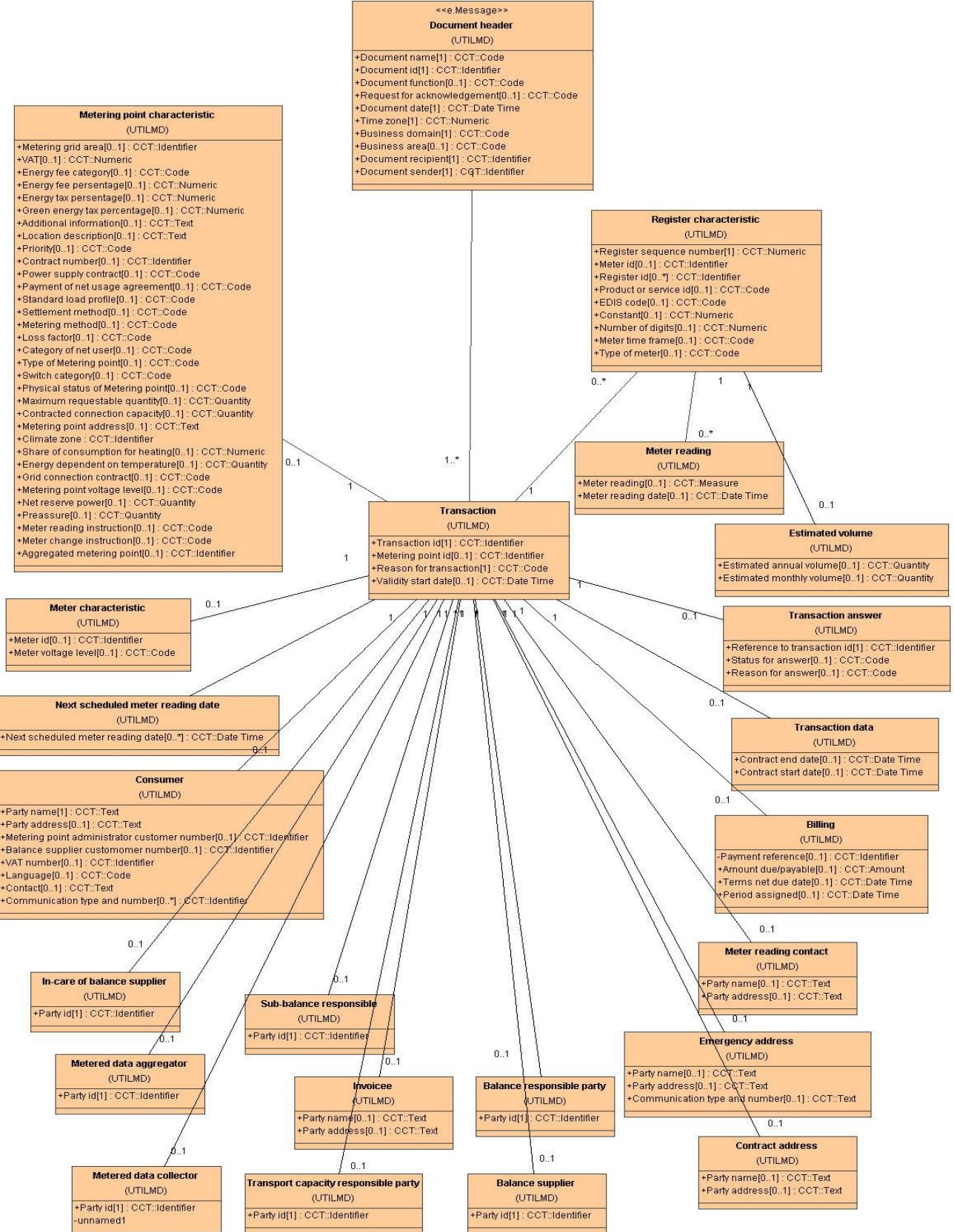


Figure 1 Class diagram for the Utility master data message

6.2 Cue list

Below is a table describing the EDIFACT message and the relationships to the attributes in the class diagram.

Message header			
	UNH	M 1	Message reference Message type
	BGM	M 1	Message name Message Id. Message function Request for acknowledgement
	DTM	M 2	Message date Time zone
	MKS	O 1	Business domain (Market) Business area
References	FTX	C 9	Not used
	SG 1	C 9	Not used
	RFF	M 1	Not used
	DTM	C 9	Not used
Message parties			
	SG 2	R 2	
	NAD	M 1	Message recipient – Coding scheme Message sender – Coding scheme
	RFF	C 1	Not used
	FII	C 1	Not used
Contact information			
	SG 3	C 9	
	CTA	M 1	Not used
	COM	C 9	Not used
Message details			
	SG 4	R 99999	
	IDE	M 1	Transaction id
	LIN	C 1	Not used
	PIA	C 9	Not used
	IMD	C 9	Not used
	DTM	O 99	Contract start date Contract end date Next scheduled meter reading date Validity start date
	PRC	C 9	Not used
	STS	O 2	Reason for transaction Status for answer Reason for answer
	TAX	O 4	VAT Energy fee - Tax/fee percentage - Tax/fee category Energy tax Green energy tax
	PTY	O 1	Priority

	FTX	O	2	Location description (According to German market rules)
				Additional information (According to German market rules)
	AGR	O	3	Grid connection contract
				Power supply contract (According to German market rules)
				Payment of net usage agreement (According to German market rules)
	INP	O	2	Meter reading instruction
				Meter change instruction (According to German market rules)
References				
	SG 5	R	3	
	LOC	R	4	Metering point id Metering grid area id Aggregated metering point (according to German market rules) Climate zone (According to German market rules)
	HYN	C	9	Not used
References				
	SG 6	O	3	
	RFF	M	1	Meter id Reference to transaction id Contract number (According to German market rules)
	DTM	C	9	Not used
Characteristics				
	SG 7	O	12	
	CCI	M	1	Type of characteristic
	CAV	R	1	Standard Load Profile Settlement method Metering point voltage level (According to German market rules) Meter voltage level factor (According to German market rules) Metering method Loss factor (According to Belgian market rules) Category of net user (According to Belgian market rules) Type of metering point Switch category Physical status for metering point Pressure Share of consumption for heating
Meter/register				
	SG 8	O	99	
	SEQ	M	1	Sequence number
	RFF	O	2	Meter id Register id
	PIA	O	1	Product or service id
Quantities				
	SG 9	O	5	

		QTY	M	1	Estimated annual volume Meter reading Maximum requestable quantity (Maximum power) Energy dependent on temperature (According to German market rules) Net reserve power (According to German market rules)
		DTM	O	1	Latest meter reading date
		STS	O	1	Capacity type
		LIN	C	9	Not used
Characteristics					
	SG 10	O	4		
	CCI	M	1		Type of characteristic
	CAV	R	1		Constant Number of digits Meter timeframe Type of meter (According to Belgian market rules)
Amounts					
	SG 11	O	1		
	MOA	M	1		Amount due/payable (According to German market rules)
	RFF	O	1		Payment reference (According to German market rules)
	DTM	O	2		Terms net du date (According to German market rules) Period assigned (According to German market rules)
Parties connected to object					
	SG 12	O	14		
	NAD	M	1		In-care of balance supplier (According to German market rules) Metered data aggregator Metered data collector Balance responsible party Balance supplier Contract address Metering point address Invoicee. Owner of property Consumer Sub-balance responsible (According to German market rules) Transport capacity responsible party Meter reading contact Emergency address
	RFF	O	3		Grid operators customer number (According to German market rules) Suppliers customer number (According to German market rules) VAT registration number
	DTM	O	9		Not used
	FII	O	9		Not used
	LAN	O	1		Language
Contact information					
	SG 13	O	1		
	CTA	M	1		Contact person

		COM	O	5	Telephone, fax, e-mail
Message trailer					
	CNT	O	1		Not used
	UNT	M	1		Message trailer

As a minimum, the segment groups (with corresponding segments) marked with R or M have to be used in every message.

6.3 Message diagram

The Message diagram below shows the subset of the standard EDIFACT message that is used in this IG. The segments and segment groups in grey are not used in this subset.

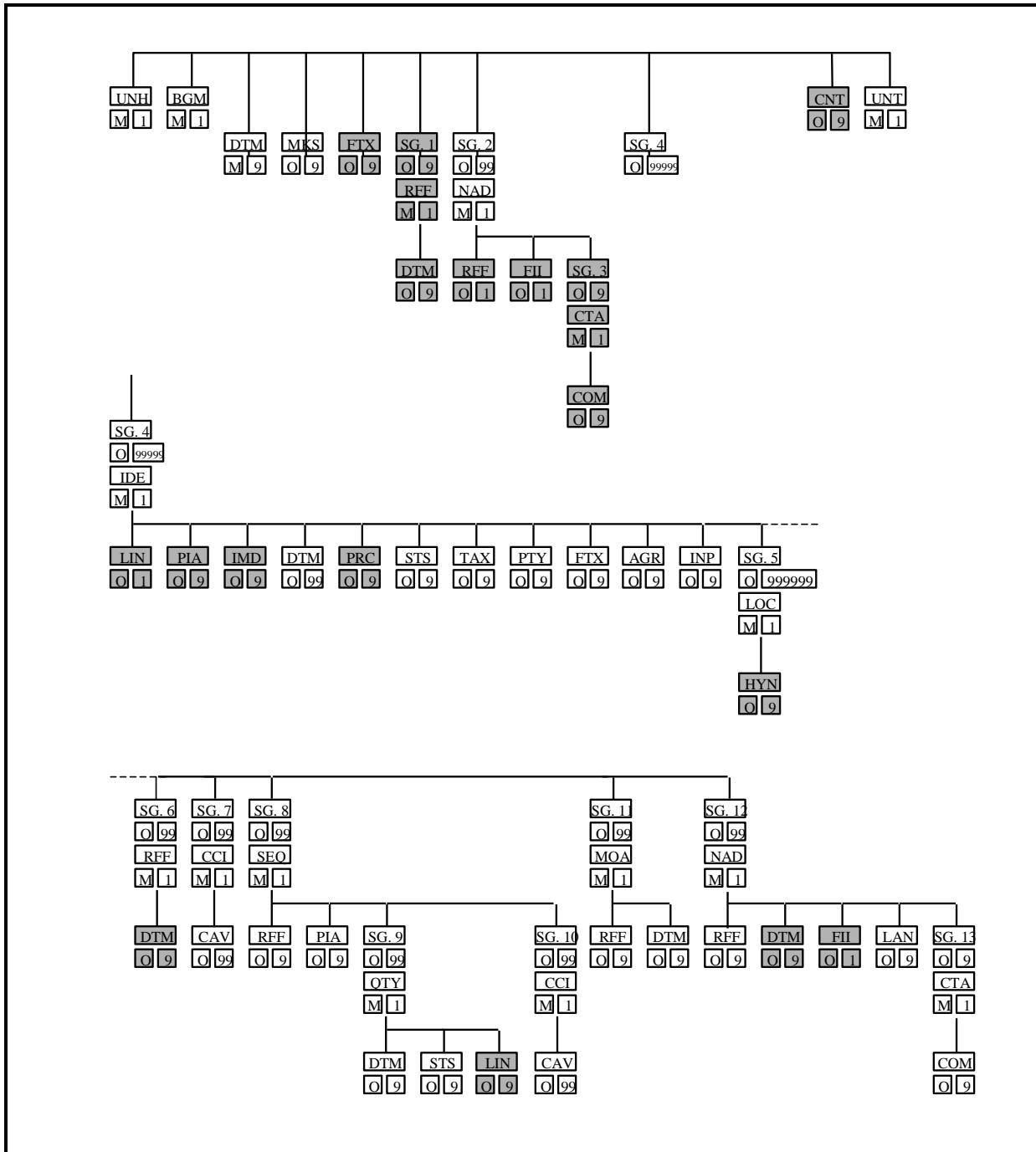


Figure 2 Message diagram for Utility master data message

6.4 Segment table

In this chapter the segment table for the Utility master data message (UTILMD) is shown by the way it is described in version D, release 01C of the EDIFACT directory. The segments and segment groups that are used in this IG are shown in bold type.

Pos	Tag Name	S	R
0010	UNH Message header	M	1
0020	BGM Beginning of message	M	1
0030	DTM Date/time/period	M	9
0040	MKS Market/sales channel information	C	9
0050	FTX Free text	C	9
0060	----- Segment group 1 -----	C	9-----+
0070	RFF Reference	M	1
0080	DTM Date/time/period	C	9-----+
0090	----- Segment group 2 -----	C	99-----+
0100	NAD Name and address	M	1
0110	RFF Reference	C	1
0120	FII Financial institution information	C	1
0130	----- Segment group 3 -----	C	9-----+
0140	CTA Contact information	M	1
0150	COM Communication contact	C	9-----++
0160	----- Segment group 4 -----	C	99999-----+
0170	IDE Identity	M	1
0180	LIN Line item	C	1
0190	PIA Additional product id	C	9
0200	IMD Item description	C	9
0210	DTM Date/time/period	C	99
0220	PRC Process identification	C	9
0230	STS Status	C	9
0240	TAX Duty/tax/fee details	C	9
0250	PTY Priority	C	9
0260	FTX Free text	C	9
0270	AGR Agreement identification	C	9
0280	INP Parties and instruction	C	9
0290	----- Segment group 5 -----	C	999999-----+
0300	LOC Place/location identification	M	1
0310	HYN Hierarchy information	C	9-----+
0320	----- Segment group 6 -----	C	99-----+
0330	RFF Reference	M	1
0340	DTM Date/time/period	C	9-----+
0350	----- Segment group 7 -----	C	99-----+
0360	CCI Characteristic/class id	M	1
0370	CAV Characteristic value	C	99-----+
0380	----- Segment group 8 -----	C	99-----+
0390	SEQ Sequence details	M	1
0400	RFF Reference	C	9
0410	PIA Additional product id	C	9
0420	----- Segment group 9 -----	C	99-----+
0430	QTY Quantity	M	1
0440	DTM Date/time/period	C	9
0450	STS Status	C	9

0460 + LIN Line item	C	9-----+
0470 ----- Segment group 10 -----	C	99-----+
0480 CCI Characteristic/class id	M	1
0490 CAV Characteristic value	C	99-----++
0500 ----- Segment group 11 -----	C	99-----+
0510 MOA Monetary amount	M	1
0520 RFF Reference	C	9
0530 DTM Date/time/period	C	9-----+
0540 ----- Segment group 12 -----	C	99-----+
0550 NAD Name and address	M	1
0560 RFF Reference	C	9
0570 DTM Date/time/period	C	9
0580 FII Financial institution information	C	1
0590 LAN Language	C	9
0600 ----- Segment group 13 -----	C	9-----+
0610 CTA Contact information	M	1
0620 COM Communication contact	C	9-----++
0630 CNT Control total	C	9
0640 UNT Message trailer	M	1

7 DETAILED DESCRIPTION OF THE MESSAGE

In this chapter all segments and segment groups are specified in detail. In the left column you will find a list of the attributes used.

The EDIFACT segments listed are copies of those defined in the original UN/EDIFACT directory except for data elements defined as conditional (C) which are redefined using the classification described in the Functional Description [2].

Note: In the comments in the detailed section it is partly stated if the element only is used in one or two countries. This information should not be regarded as final. The correct list of elements used in each country should be found in national documentation.



MESSAGE: UTILMD

SG 0

Function: The Utilities master data message is sent between responsible parties in a utilities infrastructure for the purpose of exchanging characteristics of objects and services. In addition the Utilities master data message may be used to request information.

Segments: UNH, BGM, DTM, SG 2, SG 4

UNH Message header
Function: A service segment starting and uniquely identifying a message.
Classification: Mandatory (M1).
Comments:
Example: UNH+1+UTILMD:D:02B:UN:EDIEL5'

	Ref.	Name	Cl.	Form.	Description
Message-reference	> 0062	MESSAGE REFERENCE NUMBER	M	an..14	The message reference uniquely identifies the message in the interchange. Typically by using a sequence number that identifies each message in the interchange. The first message will have reference number 1, the second message will have reference number 2, etc. The reference can be set to 1 in the first message of the next interchange.
Message-type	> S009 0065 0052 0054 0051 0057	MESSAGE IDENTIFIER Message type identifier Message type version number Message type release number Controlling agency Association assigned code	M M M M M R	an..6 an..3 an..3 an..2 an..6	<p>Code: UTILMD Code: D Code: 02B Code: UN Code: EDIEL5 / E5xxyy</p> <p>Use "EDIEL5" if the Ediel IG is implemented in its full version, or "E5xxyy" if a national IG is the basis: E5 Indicates Ediel version 5 xx ISO 2 letter country code or an abbreviation for an international organisation yy user guide or national implementation guide version number</p>
	0068	COMMON ACCESS REFERENCE	X	an..35	
	S010 0070 0073	STATUS OF THE TRANSFER Sequence message transfer number First/last seq. mess. transfer indicator.	X X X	n..2 a1	

BGM	Beginning of message
Function:	A segment by which the sender uniquely identifies the Utilities master data message by means of its name and number and its function.
Classification:	Mandatory (M1).
Comments:	<ul style="list-style-type: none">• See the [4] ebIX model for change of supplier, for a description on the use of the message functions.• 3055 in C002 Shall be used for “E-codes”• Code 5 in 1225 is not used in Germany
Example:	BGM+392+SSA1234+9+AB'

Ref.	Name	Cl.	Form.	Description
C002	DOCUMENT/MESSAGE NAME	R		

Message name	> 1001	Document name code	R	an..3	<p>Codes:</p> <p>392 Request to metering point administrator of start of supply (EDIFACT term: Notification of change of supplier)</p> <p>414 Confirmation of start of supply, may include master data for a metering point (EDIFACT term: Acknowledgement of change of supplier)</p> <p>406 Information or confirmation of end of supply (EDIFACT term: Notification to supplier of contract termination)</p> <p>432 Notification to grid operator of end of supply</p> <p>434 Notification to grid operator about balance responsibility (EDIFACT term: Notification of balance responsible entity change)</p> <p>E12 Confirmation about balance responsibility</p> <p>E07 Master data, metering point</p> <p>E08 Master data, meter</p> <p>E09 Master data, balance responsibility</p> <p>E10 Request for update of master data</p> <p>E21 Master data, party</p> <p>E22 Master data, billing</p> <p>E37 Metered data (time series), from Metered data collector to Metered data aggregator</p> <p>E38 Request master data, Meter</p> <p>E39 Request metered data</p> <p><i>Only for Germany:</i></p> <p>E01 Start of supply</p> <p>E02 Cancellation of supply</p> <p>E34 Start of a contract</p> <p>E35 Termination of a contract</p> <p>E03 Notice of master data change</p> <p>E27 Request</p> <p>E04 Overview of lost locations</p> <p>E05 Overview of new locations</p> <p>E06 Overview of active locations</p>
Message Id.	1131 3055 1000	Code list identification code Code list responsible agency code Document name	X D X	an..17 an..3 an..35	<p>Codes:</p> <p>260 ebIX</p>
	C106 1004 1056 1060	DOCUMENT/MESSAGE IDENTIFICATION Document identifier Version identifier Revision identifier	R R X X	an..35 an..35 an..9 an..6	Unique Id. of the message. Shall be unique over time for each party.

Message function	>	1225	MESSAGE FUNCTION CODE	R	an..3	Codes: 5 Replace of a previously sent message. 9 Original message.
Request for acknowledgement	>	4343	RESPONSE TYPE CODE	R	an..3	Codes: AB Message acknowledgement is required (APERAK). NA No acknowledgement needed

	DTM	Date/time/period																								
	Function:	A segment specifying general dates related to the whole message and the time zone used in the message. The segment must be specified at least once to specify the message date as allocated by the sender.																								
	Classification:	Mandatory (M2).																								
	Comments:	<ul style="list-style-type: none"> • Both Message date and Time zone are required. • There shall be only one offset to UTC for each message. • It is recommended to use UTC in all messages. • All applications should be able to understand other offsets to UTC. 																								
	Example:	DTM+137:200105011241:203' DTM+735:+0000:406'																								
Message date Time zone	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Ref.</th> <th style="text-align: left; padding: 2px;">Name</th> <th style="text-align: left; padding: 2px;">Cl.</th> <th style="text-align: left; padding: 2px;">Form.</th> <th style="text-align: left; padding: 2px;">Description</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">C507</td> <td style="padding: 2px;">DATE/TIME/PERIOD</td> <td style="padding: 2px;">M</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">></td> <td style="padding: 2px;">2005</td> <td style="padding: 2px;">Date or time or period function code qualifier</td> <td style="padding: 2px;">M</td> <td style="padding: 2px;">an..3</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">2380</td> <td style="padding: 2px;">Date or time or period text</td> <td style="padding: 2px;">R</td> <td style="padding: 2px;">an..35</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">2379</td> <td style="padding: 2px;">Date or time or period format code</td> <td style="padding: 2px;">R</td> <td style="padding: 2px;">an..3</td> </tr> </tbody> </table>	Ref.	Name	Cl.	Form.	Description	C507	DATE/TIME/PERIOD	M			>	2005	Date or time or period function code qualifier	M	an..3		2380	Date or time or period text	R	an..35		2379	Date or time or period format code	R	an..3
Ref.	Name	Cl.	Form.	Description																						
C507	DATE/TIME/PERIOD	M																								
>	2005	Date or time or period function code qualifier	M	an..3																						
	2380	Date or time or period text	R	an..35																						
	2379	Date or time or period format code	R	an..3																						

		MKS	Market/sales channel information		
		Function:	A segment to specify to which market the object relates.		
		Classification:	Optional (O1).		
		Comments:	<ul style="list-style-type: none"> • Recommended to be used. • Official codes for Garbage, TV Distribution and Water are expected in D.03A. 		
		Example:	MKS+23+E01::260'		
Business domain (Market)	>	Ref.	Name	Cl.	Form.
		7293	SECTOR AREA IDENTIFICATION CODE QUALIFIER	M	an..3
Business area		C332	SALES CHANNEL IDENTIFICATION	M	
		3496	Sales channel identifier	R	an..17
		1131	Code list identification code	X	an..17
		3055	Code list responsible agency code	R	an..3
		1229	ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	X	an..3



MESSAGE: UTILMD

SG 2

Function:	A group of segments identifying the parties with associated information relevant to the whole message, such as the sender and the receiver of the message.
Classification:	Required (R2).
Comments:	Both repetitions are required (MR and MS)
Segments:	NAD

NAD	Name and address
Function:	A segment for specifying the identification and/or the name and the address of the party, in coded or clear form, and the function relevant to the message. It is recommended that, if possible, only the coded form of the party ID should be specified.
Classification:	Mandatory (M1).
Comments:	<ul style="list-style-type: none"> • The qualifier MS should be used to identify the party responsible for the data (originator) and the qualifier MR for the final recipient.
Example:	NAD+MR+1234567890123::9'

Message recipient
Message sender
Coding scheme

Ref.	Name	Cl.	Form.	Description
3035	PARTY FUNCTION CODE QUALIFIER	M	an..3	Codes: MR Message recipient MS Document/message issuer/sender
> C082	PARTY IDENTIFICATION DETAILS	R		
> 3039	Party identifier	M	an..35	Party identification
> 1131	Code list identification code	X	an..17	
> 3055	Code list responsible agency code	R	an..3	Codes: 9 EAN (International Article Numbering association) 293 DE, VDEW 305 ETSO (EIC, ETSO Identification Code)
C058	NAME AND ADDRESS	X		
3124	Name and address description	X	an..35	
3124	Name and address description	X	an..35	
3124	Name and address description	X	an..35	
3124	Name and address description	X	an..35	
3124	Name and address description	X	an..35	

	C080	PARTY NAME	X		
	3036	Party name	X	an..35	
	3036	Party name	X	an..35	
	3036	Party name	X	an..35	
	3036	Party name	X	an..35	
	3036	Party name	X	an..35	
	3045	Party name format code	X	an..3	
	C059	STREET	X		
	3042	Street and number or post office box identifier	X	an..35	
	3042	Street and number or post office box identifier	X	an..35	
	3042	Street and number or post office box identifier	X	an..35	
	3042	Street and number or post office box identifier	X	an..35	
	3164	CITY NAME	X	an..35	
	C819	COUNTRY SUB-ENTITY DETAILS	X		
	3229	Country sub-entity name code	X	an..9	
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	X	an..3	
	3228	Country sub-entity name	X	an..70	
	3251	POSTAL IDENTIFICATION CODE	X	an..17	
	3207	COUNTRY NAME CODE	X	an..3	



MESSAGE: UTILMD

SG 4

Function: A group of segments providing details and characteristics of an object, such as a metering point.

Classification: Required (R99999).

Comments:

Segments: IDE, DTM, STS, TAX, PTY, FTX, AGR, INP, SG5, SG6, SG7, SG8, SG11, SG12

	IDE	Identity																																																																																																								
	Function:	A segment starting a new set of master data for an object, and identifying the type of object, such as a metering point.																																																																																																								
	Classification:	Mandatory (M1).																																																																																																								
	Comments:	<ul style="list-style-type: none"> • Unique id from the sender of the message, used to link the response to the original transaction. 																																																																																																								
	Example:	IDE+24+MD200105832134'																																																																																																								
Transaction id.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Ref.</th> <th style="text-align: left; padding: 2px;">Name</th> <th style="text-align: left; padding: 2px;">Cl.</th> <th style="text-align: left; padding: 2px;">Form.</th> <th style="text-align: left; padding: 2px;">Description</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">7495</td><td style="padding: 2px;">OBJECT TYPE CODE QUALIFIER</td><td style="padding: 2px;">M</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;">Codes: 24 Transaction</td></tr> <tr> <td style="padding: 2px;">C206</td><td style="padding: 2px;">IDENTIFICATION NUMBER</td><td style="padding: 2px;">R</td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">7402</td><td style="padding: 2px;">Object identifier</td><td style="padding: 2px;">M</td><td style="padding: 2px;">an..35</td><td style="padding: 2px;">Transaction id.</td></tr> <tr> <td style="padding: 2px;">7405</td><td style="padding: 2px;">Object identification code qualifier</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">4405</td><td style="padding: 2px;">Status description code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">C082</td><td style="padding: 2px;">PARTY IDENTIFICATION DETAILS</td><td style="padding: 2px;">X</td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">3039</td><td style="padding: 2px;">Party identifier</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..35</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">1131</td><td style="padding: 2px;">Code list identification code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..17</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">3055</td><td style="padding: 2px;">Code list responsible agency code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">4405</td><td style="padding: 2px;">STATUS DESCRIPTION CODE</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">1222</td><td style="padding: 2px;">CONFIGURATION LEVEL NUMBER</td><td style="padding: 2px;">X</td><td style="padding: 2px;">n..2</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">C778</td><td style="padding: 2px;">POSITION IDENTIFICATION</td><td style="padding: 2px;">X</td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">7164</td><td style="padding: 2px;">Hierarchical structure level identifier</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..35</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">1050</td><td style="padding: 2px;">Sequence position identifier</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..10</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">C240</td><td style="padding: 2px;">CHARACTERISTIC DESCRIPTION</td><td style="padding: 2px;">X</td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">7037</td><td style="padding: 2px;">Characteristic description code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..17</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">1131</td><td style="padding: 2px;">Code list identification code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..17</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">3055</td><td style="padding: 2px;">Code list responsible agency code</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..3</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">7036</td><td style="padding: 2px;">Characteristic description</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..35</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">7036</td><td style="padding: 2px;">Characteristic description</td><td style="padding: 2px;">X</td><td style="padding: 2px;">an..35</td><td style="padding: 2px;"></td></tr> </tbody> </table>	Ref.	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DTM	Date/time/period
Function:	A segment to specify dates associated with the object.
Classification:	Optional (O99).
Comments:	<ul style="list-style-type: none"> • Contract start/stop date is the dates when delivery starts or stops. • Qualifier 109 in 2379 is only used together with qualifier 752 in data element C507 2005. • 109: Month's number within a specific year: M = Month
Example:	DTM+92:200105080000:203'

Contract start date
Contract end date
Validity start date
Next scheduled meter reading date

Ref.	Name	Cl.	Form.	Description
C507 2005	DATE/TIME/PERIOD Date or time or period function code qualifier	M M	an..3	Codes: 92 Contract start date 93 Contract stop date 157 Validity start date 752 Meter reading date, next scheduled Date
> 2380	Date or time or period text	R	an..35	
2379	Date or time or period format code	R	an..3	Codes: 203 CCYYMMDDHHmm (92, 93, 157) 106 MMDD (752) 109 MM (752) 610 CCYYMM (752)

	STS	Status			
	Function:	A segment giving a status for the object, such as active or closed.			
	Classification:	Optional (O2).			
	Comments:	<ul style="list-style-type: none"> • Reason for transaction (code 7) is required for all messages except for BGM/1001/E10 and E07 in the Netherlands. • E06 from the Grid operator is used to change supplier (BGM/1001/414) without having received a change message (BGM/1001/392). • The code “260, ebIX” in DE 3055 shall be used together with “E-codes”. • C556 shall always be used together with “7, transaction” • General rules for E01: C555 shall always be used. If rejected also C556 shall be used. Special for Germany: C555 is not used C556 is always used. • If code “42, Approval pending” is used a new message with approved or rejected will be sent later. • Red italic text are under discussion 			
	Example:	STS+7++E03::260'			
> Status for answer	Ref.	Name	Cl.	Form.	Description
	C601 9015	STATUS CATEGORY Status category code	R M	an..3	Codes: 7 Transaction E01 Answer 260 ebIX
	1131 3055	Code list identification code Code list responsible agency code	X D	an..17 an..3	
	C555 4405	STATUS Status description code	D R	an..3	Codes: 39 Approved 41 Rejected 42 Approval pending
	1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
	4404	Status description	X	an..35	
	C556	STATUS REASON	D		

Reason for transaction	>	9013	Status reason description code	M	an..3	Codes: <i>Transaction:</i> E01 Move E02 New installation E03 Change of supplier E04 Temporary supply E05 Cancellation of transaction E06 Unrequested Change of supplier (to default supplier or supplier of last resort). E20 End of supply E21 Change of customer E31 Price (according to German market rules) E32 Update of master data, metering point E34 Update of master data, consumer E40 Switch on drop E48 Master data for prospects E56 Switch of balance responsible party E57 Switch of metered data collector
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Reason for answer 1131 3055 9012	>	Continues from previous page	M	an..3	Codes: <i>Answer:</i> E07 General corrections (Confirmation) – Only DE E08 Major corrections (Confirmation) – Only DE E09 Installation address not in grid (Rejection) – Only DE E10 Installation address or metering point not identifiable (Rejection) E11 Measuring problem (Rejection) – Only DE E12 Unclear delivery relation (Rejection) – Only DE E13 Balancing problem (Rejection) – Only DE E14 Other reason (Rejection) – Only DE E15 No corrections (Confirmation) – Only DE E16 Unauthorised supplier (Rejection) E17 Requested switch date not within time limits (Rejection) E18 Unauthorised Balance responsible (Rejection) E19 Meter stand not within limits (Rejection) E22 Metering point blocked for switching (Rejection) E37 No valid access contract (Rejection) – Only BE E39 Date correction (Confirmation) – Only DE E41 Switch on drop (E40) expected (Rejection) – Only BE E54 Unauthorised transport capacity responsible party (Rejection) E55 Unauthorised metered data collector (Rejection)
		Code list identification code Code list responsible agency code Status reason description	X R X	an..17 an..3 an..256	Codes: 260 ebIX
	C556 9013	STATUS REASON Status reason description code	X X	an..3	
	1131 3055 9012	Code list identification code Code list responsible agency code Status reason description	X X X	an..17 an..3 an..256	
	C556 9013 1131	STATUS REASON Status reason description code Code list identification code	X X X	an..3 an..17	

	3055	Code list responsible agency code	X	an..3	
	9012	Status reason description	X	an..256	
	C556	STATUS REASON	X		
	9013	Status reason description code	X	an..3	
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	X	an..3	
	9012	Status reason description	X	an..256	
	C556	STATUS REASON	X		
	9013	Status reason description code	X	an..3	
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	X	an..3	
	9012	Status reason description	X	an..256	

	TAX	Duty/tax/fee details			
	Function:	A segment to specify relevant duty/tax/fee information, such as value added tax percentage.			
	Classification:	Optional (O4).			
	Comments:	• Use either C243 or 5305			
	Example:	TAX+6+AAE++++S'			
Energy fee VAT Energy tax Green energy tax	Ref. 5283	Name DUTY OR TAX OR FEE FUNCTION CODE QUALIFIER	Cl. M	Form. an..3	Description Codes: 6 Fee 7 Tax
	C241 5153	DUTY/TAX/FEE TYPE Duty or tax or fee type name code	R M	an..3	Codes: <i>Fee:</i> AAE Energy fee <i>Tax:</i> VAT Value added tax E01 Energy tax E02 Green energy tax
	1131 3055	Code list identification code Code list responsible agency code	X D	an..17 an..3	Codes: 260 ebIX
	5152	Duty or tax or fee type name	X	an..35	
	C533 5289	DUTY/TAX/FEE ACCOUNT DETAIL Duty or tax or fee account code	X		
	1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
	5286	DUTY OR TAX OR FEE ASSESSMENT BASIS QUANTITY	X	an..15	
	C243 5279 1131 3055	DUTY/TAX/FEE DETAIL Duty or tax or fee rate code Code list identification code Code list responsible agency code	D X X X	an..7 an..17 an..3	
	5278	Duty or tax or fee rate	R	an..17	Tax/fee percentage
	5273 1131 3055	Duty or tax or fee rate basis code Code list identification code Code list responsible agency code	X X	an..12 an..17 an..3	
Tax/fee percentage	5305	DUTY OR TAX OR FEE CATEGORY CODE	D	an..3	Codes: AA Lower rate E Exempt from tax (or fee) S Standard rate
	3446 1227	PARTY TAX IDENTIFIER CALCULATION SEQUENCE CODE	X X	an..20 an..3	

		PTY	Priority
		Function:	A segment for communication of priority information, such as if an installation is disconnectable or not.
		Classification:	Optional (O1).
		Comments:	
		Example:	PTY+10+5'
Priority	Ref. 4035	Name PRIORITY TYPE CODE QUALIFIER	Cl. M
	C585	PRIORITY DETAILS	R
	4037	Priority description code	M
	1131	Code list identification code	X
	3055	Code list responsible agency code	X
	4036	Priority description	X
			Form. an..3
			Description Codes:
			10 Disconnectability
			Codes:
			3 Not disconnectable (EDIFACT term: Normal)
			5 Disconnectable, category A (EDIAFCT term: Category A)
			6 Disconnectable, category B (EDIAFCT term: Category B)

	FTX	Free text			
	Function:	A segment with free text information, in coded or clear form, used when additional information is needed but cannot be accommodated within other segments. In computer to computer exchanges such text will normally require the receiver to process this segment manually.			
	Classification:	Optional (O2).			
	Comments:	<ul style="list-style-type: none"> Only used in Germany 			
	Example:	FTX+ACB+++This is text'			
Location description Additional info.	Ref.	Name	Cl.	Form.	Description
	4451	TEXT SUBJECT CODE QUALIFIER	M	an..3	Codes: AAI General information (location description according to German market rules) ACB Additional information (according to German market rules)
	4453	FREE TEXT FUNCTION CODE	X	an..3	
	C107	TEXT REFERENCE	X		
	4441	Free text description code	X		
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	X	an..17	
	C108	TEXT LITERAL	R		
	4440	Free text	M	an..512	Free text
	4440	Free text	O	an..512	Free text

	AGR	Agreement identification			
	Function:	A segment for specifying agreement details.			
	Classification:	Optional (O3).			
	Comments:	<ul style="list-style-type: none"> • C543 7433: E03 – E10 Only used in Germany • E04 is only used in end/cancellation of supply message 			
	Example:	AGR+11:E03::260'			
Grid connection contract type Power supply contract Payment of net usage agreement	Ref.	Name	Cl.	Form.	Description
	C543	AGREEMENT TYPE IDENTIFICATION	R		
	7431	Agreement type code qualifier	M	an..3	Codes: 11 Grid connection contract type 12 Power supply contract (According to Germany market rules) E03 Payment of net usage agreement (According to Germany market rules)
	> 7433	Agreement type description code	R	an..3	Codes: <i>Grid connection contract type:</i> E01 Contract directly between Grid operator and Customer E02 Contract between Supplier and Grid operator E03 Contract between Grid operator and Customer through Supplier E04 No net using contract <i>Power supply contract:</i> E05 Full supply E06 Partial supply (Open contract) E07 Partial supply (Schedule) E08 Co-operation <i>Payment of net usage agreement:</i> E09 Paid by customer E10 Paid by supplier
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	R	an..3	
	7434	Agreement type description	X	an..70	
	9419	SERVICE LAYER CODE	X	an..3	

	INP	Parties and instruction			
	Function:	A segment to specify parties to an instruction, the instruction, or both.			
	Classification:	Optional (O2).			
	Comments:	<ul style="list-style-type: none"> Code 33 in C522 4403 is only used in Germany 			
	Example:	INP++33:BV'			
Meter reading instruction Meter change instruction	Ref.	Name	Cl.	Form.	Description
	C849	PARTIES TO INSTRUCTION	X		
	3301	Enacting party identifier	X	an..35	
	3285	Instruction receiving party identifier	X	an..35	
	C522 4403	INSTRUCTION Instruction type code qualifier	R M	an..3	Codes: 32 Meter reading instruction 33 Meter change instruction (According to German market rules)
	4401	Instruction description code	R	an..3	Codes: BV Replace if necessary (33) BW Replace (33) BX Do not replace (33) E01 No meter reading available (32)
	1131 3055 4400	Code list identification code Code list responsible agency code Instruction description	X D X	an..17 an..3 an..35	Codes: 260 ebIX
	C850	STATUS OF INSTRUCTION	X		
	4405 3036	Status description code Party name	X X	an..3 an..35	
	1229	ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	X	an..3	



MESSAGE: UTILMD

SG 5

Function:	A group of segments identifying locations connected to the object, such as a metered grid area or a metering point and its position in a hierarchy.
Classification:	Required (R4).
Comments:	
Segments:	LOC

LOC

Function:	Place/location identification
Classification:	A segment to identify locations connected to the object, such as a metered grid area or a metering point.
Comments:	Mandatory (M1).
Example:	• Aggregated metering points are only used in Germany. LOC+172+871234567890123456::9'

Metering
point id,
Metering
grid area id
Aggregated
metering
point
Climate zone

Ref.	Name	Cl.	Form.	Description
3227	LOCATION FUNCTION CODE QUALIFIER	M	an..3	Codes: 172 Metering point id (EDIFACT term: Reporting location) 231 Metering grid area (EDIFACT term: Power grid area) Z01 Aggregated metering point, according to German market rules. Z02 Climate zone, according to German market rules
> 3225	LOCATION IDENTIFICATION Location name code	R	an..35	Location/area id
1131 3055	Code list identification code Code list responsible agency code	X R	an..17 an..3	Codes: 9 EAN (International Article Numbering association) 89 Assigned by distributor 293 DE, VDEW 305 ETSO (EIC, ETSO Identification Code)
3224	Location name	X	an..256	
C519	RELATED LOCATION ONE IDENTIFICATION	X		
3223	First related location name code	X	an..25	
1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	

	3222	First related location name	X	an..70	
	C553	RELATED LOCATION TWO IDENTIFICATION	X		
	3233	Second related location name code	X	an..25	
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	X	an..3	
	3232	Second related location name	X	an..70	
	5479	RELATION CODE	X	an..3	



MESSAGE: UTILMD

SG 6

Function:	A group of segments for specifying any references and associated dates valid for the object.
Classification:	Optional (O3).
Comments:	Recommended used for “Reference to transaction id” (TN) in answer messages.
Segments:	RFF

RFF	Reference
Function:	A segment identifying any references related to the object, such as a transaction reference number or a reference to a time series.
Classification:	Mandatory (M1).
Comments:	<ul style="list-style-type: none"> The code TN is recommended used in all response messages. The TN (Transaction reference number) is used to reference the Transaction id from the IDE segment in a corresponding message. CT is only used in Germany. Use either MG or SE for the meter number.
Example:	RFF+TN:ABC001582'

	Ref.	Name	Cl.	Form.	Description
Reference to transaction id	C506	REFERENCE	M		
	1153	Reference code qualifier	M	an..3	Codes: MG Meter unit number (Meter id.) SE Meter serial number (used for EAN GSAI) TN Transaction reference number CT Contract number (According to German market rules)
Meter id	1154	Reference identifier	R	an..70	Reference no.
Contract number	1156	Document line identifier	X	an..6	
	4000	Reference version identifier	X	an..35	
	1060	Revision identifier	X	an..6	



MESSAGE: UTILMD

SG 7

Function: A group of segments providing characteristics and characteristic details connected to the object.
Classification: Optional (O12).
Comments:
Segments: CCI, CAV

CCI Characteristic/class id
Function: A segment to identify characteristic and/or the characteristic name and characteristic relevance for the object, such as method for balance settlement or measurement method, number of digits of a meter etc.
Classification: Mandatory (M1).
Comments:
Example: CCI+++E01::260'

	Ref.	Name	Cl.	Form.	Description
Type of char-acteristic	7059	CLASS TYPE CODE	X	an..3	
	C502	MEASUREMENT DETAILS	X		
	6313	Measured attribute code	X	an..3	
	6321	Measurement significance code	X	an..3	
	6155	Non-discrete measurement name code	X	an..17	
	6154	Non-discrete measurement name	X	an..70	
	C240	CHARACTERISTIC DESCRIPTION	R		
	7037	Characteristic description code	M	an..17	Codes: E01 Standard Load Profile E02 Settlement method E03 Metering point voltage level E04 Meter voltage level factor (According to German market rules) E08 Metering method E09 Loss factor (According to Belgian market rules) E10 Category of net user (According to Belgian market rules) E12 Type of metering point E14 Switch category E15 Physical status for metering point E16 Pressure E17 share of consumption for heating
	1131	Code list identification code	X	an..17	
	3055	Code list responsible agency code	R	an..3	Codes: 260 ebIX
	7036	Characteristic description	X	an..35	

7036	Characteristic description	X	an..35	
4051	CHARACTERISTIC RELEVANCE, CODED	X	an..3	

CAV Characteristic value
Function: A segment to specify the value of the characteristic previously defined in either coded form or in free format.
Classification: Required (R1).
Comments:

- 1131 only used for Standard Load Profile
- Italic text refers to codes in the previous CCI segment.

Example: CAV+L1:TNT:260'

Ref.	Name	Cl.	Form.	Description
C889	CHARACTERISTIC VALUE	M		

Standard Load Profile Settlement method Metering point voltage level Meter voltage level Metering method Loss factor Category of net user Type of metering point Switch category Physical status for metering point Pressure	> 7111	Characteristic value description code	D	an..3	<p>Codes:</p> <p>Standard load profile: Use codes from national user guides made from the system operator, industry organisation, etc</p> <p>Settlement method: E01 Profiled E02 Non-profiled</p> <p>Metering point and meter voltage level: E03 maximum voltage E04 high voltage E05 medium voltage E06 low voltage E07 high voltage / transformation E08 medium voltage / transformation E09 low voltage / transformation</p> <p>Metering method: E13 Continuous E14 Non continuous E16 Not metered E24 Calculated</p> <p>Loss factor: Use codes from national user guides made from the system operator, industry organisation, etc</p> <p>Category of net user: Use codes from national user guides made from the system operator, industry organisation, etc</p> <p>Type of metering point: E17 Consumption E18 Production E19 Combined (Consumption and Production)</p> <p>Switch category: Use codes from national user guides made from the system operator, industry organisation, etc</p> <p>Physical status for metering point: E22 Connected E23 Disconnected</p> <p>Pressure: E10 Low E11 High 293 DE, VDEW DK Danish Ediel group DPO Dutch Profile Organisation EKS Elkraft system ELT Eltra SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät TNT TenneT BEL Belgium national standard</p> <p>Codes: 260 ebIX</p>
	1131	Code list identification code	D	an..17	
	3055	Code list responsible agency code	R	an..3	

Share of consumption for heating	>	7110 7110	Characteristic value description Characteristic value description	D X	an..35 an..35	Share of consumption for heating
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MESSAGE: UTILMD

SG 8

Function: A group of segments to specify quantities, characteristics and references of lower-level objects related to the current object, such as meters and/or registers of a meter.
Classification: Optional (O99).
Comments:
Segments: SEQ, RFF, PIA, SG9, SG10

SEQ

Sequence details

Function: A segment to provide a sequence number of the lower-level objects, such as the register number within a meter.

Classification: Mandatory (M1).

Comments:

- Normally the register number is a sequence number within the meter, defining the register. If only one register in the meter use "1".

Example: SEQ++1'

Sequence number

Ref.	Name	Cl.	Form.	Description
1229	ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	X	an..3	
C286	SEQUENCE INFORMATION	R		
1050	Sequence position identifier	M	an..10	Sequence number for register in the meter
1159	Sequence identifier source code	X	an..3	
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	X	an..3	

	RFF	Reference																																		
	Function:	A segment identifying any references related to the lower-level object, such as a register number or a reference to a contract.																																		
	Classification:	Optional (O2).																																		
	Comments:	<ul style="list-style-type: none"> • Use either MG or SE for the meter number. • AES is used for referencing a register id 																																		
	Example:	RFF+AES:ABC001582'																																		
Meter id Register id >	<table border="1"> <thead> <tr> <th>Ref.</th> <th>Name</th> <th>Cl.</th> <th>Form.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C506</td> <td>REFERENCE</td> <td>M</td> <td></td> <td></td> </tr> <tr> <td>1153</td> <td>Reference code qualifier</td> <td>M</td> <td>an..3</td> <td> Codes: MG Meter unit number (Meter id.) SE Meter serial number (used for EAN GSAI) AES Register id (EDIFACT term: Primary reference) Reference no. </td> </tr> <tr> <td>1154</td> <td>Reference identifier</td> <td>R</td> <td>an..70</td> <td></td> </tr> <tr> <td>1156</td> <td>Document line identifier</td> <td>X</td> <td>an..6</td> <td></td> </tr> <tr> <td>4000</td> <td>Reference version identifier</td> <td>X</td> <td>an..35</td> <td></td> </tr> <tr> <td>1060</td> <td>Revision identifier</td> <td>X</td> <td>an..6</td> <td></td> </tr> </tbody> </table>	Ref.	Name	Cl.	Form.	Description	C506	REFERENCE	M			1153	Reference code qualifier	M	an..3	Codes: MG Meter unit number (Meter id.) SE Meter serial number (used for EAN GSAI) AES Register id (EDIFACT term: Primary reference) Reference no.	1154	Reference identifier	R	an..70		1156	Document line identifier	X	an..6		4000	Reference version identifier	X	an..35		1060	Revision identifier	X	an..6	
Ref.	Name	Cl.	Form.	Description																																
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1153	Reference code qualifier	M	an..3	Codes: MG Meter unit number (Meter id.) SE Meter serial number (used for EAN GSAI) AES Register id (EDIFACT term: Primary reference) Reference no.																																
1154	Reference identifier	R	an..70																																	
1156	Document line identifier	X	an..6																																	
4000	Reference version identifier	X	an..35																																	
1060	Revision identifier	X	an..6																																	

Product or service id	PIA	Additional product id		
	Function:	A segment providing additional product identification connected to the lower-level object, such as a register of a meter.		
	Classification:	Optional (O1).		
	Comments:	<ul style="list-style-type: none"> 7143 is only used with EDIS codes 		
	Example:	PIA+5+1234567890123456:SRW::260'		
	Ref.	Name	Cl.	Form.
	4347	PRODUCT IDENTIFIER CODE QUALIFIER	M	an..3
	C212	ITEM NUMBER IDENTIFICATION	M	
	7140	Item identifier	R	an..35
	7143	Item type identification code	D	an..3
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	R	an..3
	C212	ITEM NUMBER IDENTIFICATION	X	
	7140	Item identifier	X	an..35
	7143	Item type identification code	X	an..3
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	X	an..3
	C212	ITEM NUMBER IDENTIFICATION	X	
	7140	Item identifier	X	an..35
	7143	Item type identification code	X	an..3
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	X	an..3
	C212	ITEM NUMBER IDENTIFICATION	X	
	7140	Item identifier	X	an..35
	7143	Item type identification code	X	an..3
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	X	an..3
	C212	ITEM NUMBER IDENTIFICATION	X	
	7140	Item identifier	X	an..35
	7143	Item type identification code	X	an..3
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	X	an..3



MESSAGE: UTILMD

SG 9

Function: A group of segments providing quantities connected to the lower-level object.
Classification: Optional (O5).
Comments:
Segments: QTY

QTY Quantity
Function: A segment identifying the quantity details, such as estimated annual consumption or production.
Classification: Mandatory (M1).
Comments:

- Qualifier 220 is only used in messages from the balance supplier to the grid operator.
- Qualifier 456 is only used in Germany

Example: QTY+31:90:KWH'

	Ref.	Name	Cl.	Form.	Description
Estimated annual volume Maximum requestable quantity Net reserve power Meter reading Energy dependent on temperature Quantity	> C186 6063	QUANTITY DETAILS Quantity type code qualifier	M M	an..3	<p>Codes:</p> <p>31 Estimated annual volume 220 Meter reading 221 Maximum requestable quantity (Maximum power) 265 Energy dependent on temperature (EDIFACT term: "Factor") (According to German market rules) 456 Net reserve power (According to German market rules)</p>
	> 6060 6411	Quantity Measurement unit code	M R	an..35 an..3	<p>Quantity</p> <p>Codes:</p> <p>3B MJ (Megajoule) KWH Kilowatt-hour KVR kvar (Kilovar) KWT kW (Kilowatt) K3 kVAh (KiloVolt-Ampere reactive hour) MTQ Cubic metre Z16 kWh/K (kilowatt-hour/Kelvin).</p>

Latest meter reading date	DTM	Date/time/period																									
	Function:	A segment to specify dates or periods related to the previously specified quantity information.																									
	Classification:	Optional (O1).																									
	Comments:	<ul style="list-style-type: none">• Time zone is defined in DTM / SG 0.• For meter stands the time for meter reading will always be 00.00 hr at the given date.																									
	Example:	DTM+368:200106050000:203'																									
<table border="1"><thead><tr><th>Ref.</th><th>Name</th><th>Cl.</th><th>Form.</th><th>Description</th></tr></thead><tbody><tr><td>C507</td><td>DATE/TIME/PERIOD</td><td>M</td><td></td><td></td></tr><tr><td>2005</td><td>Date or time or period function code qualifier</td><td>M</td><td>an..3</td><td>Codes: 368 Latest meter reading date (220)</td></tr><tr><td>2380</td><td>Date or time or period text</td><td>R</td><td>an..35</td><td>Date, time or period</td></tr><tr><td>2379</td><td>Date or time or period format code</td><td>R</td><td>an..3</td><td>Codes: 203 CCYYMMDDHHmm (368)</td></tr></tbody></table>			Ref.	Name	Cl.	Form.	Description	C507	DATE/TIME/PERIOD	M			2005	Date or time or period function code qualifier	M	an..3	Codes: 368 Latest meter reading date (220)	2380	Date or time or period text	R	an..35	Date, time or period	2379	Date or time or period format code	R	an..3	Codes: 203 CCYYMMDDHHmm (368)
Ref.	Name	Cl.	Form.	Description																							
C507	DATE/TIME/PERIOD	M																									
2005	Date or time or period function code qualifier	M	an..3	Codes: 368 Latest meter reading date (220)																							
2380	Date or time or period text	R	an..35	Date, time or period																							
2379	Date or time or period format code	R	an..3	Codes: 203 CCYYMMDDHHmm (368)																							

		STS	Status			
		Function:	A segment giving the status for the quantity, such as metered, estimated or corrected.			
		Classification:	Optional (O1).			
		Comments:				
		Example:	STS+Z01+Z01'			
Capacity type	>	Ref.	Name	Cl.	Form.	Description
		C601 9015	STATUS CATEGORY Status category code	R M	an..3	Codes: Z01 Capacity
		1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
		C555 4405	STATUS Status description code	R M	an..3	Codes: <i>Capacity:</i> 123 Contracted Z02 Technical
		1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
		4404	Status description	X	an..35	
		C556 9013	STATUS REASON Status reason description code	X X	an..3	
		1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
		9012	Status reason description	X	an..256	
		C556 9013	STATUS REASON Status reason description code	X X	an..3	
		1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
		9012	Status reason description	X	an..256	
		C556 9013	STATUS REASON Status reason description code	X X	an..3	
		1131 3055	Code list identification code Code list responsible agency code	X X	an..17 an..3	
		9012	Status reason description	X	an..256	
		C556 9013	STATUS REASON Status reason description code	X X	an..3	
		1131	Code list identification code	X	an..17	

	3055	Code list responsible agency code	X	an..3	
	9012	Status reason description	X	an..256	



MESSAGE: UTILMD

SG 10

Function: A group of segments providing characteristics and characteristic details connected to the lower-level object.
Classification: Optional (O4).
Comments:
Segments: CCI, CAV

CCI Characteristic/class id
Function: A segment to identify a characteristic and/or the characteristic name and characteristic relevance for the lower-level object, such as number of digits of a meter etc.
Classification: Mandatory (M1).
Comments: • Code E13 is only used in Belgium.
Example: CCI+++E05::260'

Type of characteristic

Ref.	Name	Cl.	Form.	Description
7059	CLASS TYPE CODE	X	an..3	
C502	MEASUREMENT DETAILS	X		
6313	Measured attribute code	X	an..3	
6321	Measurement significance code	X	an..3	
6155	Non-discrete measurement name code	X	an..17	
6154	Non-discrete measurement name	X	an..70	
>	C240	CHARACTERISTIC DESCRIPTION	R	
	7037	Characteristic description code	M	an..17
	1131	Code list identification code	X	an..17
	3055	Code list responsible agency code	R	an..3
	7036	Characteristic description	X	an..35
	7036	Characteristic description	X	an..35
	4051	CHARACTERISTIC RELEVANCE, CODED	X	an..3
				Codes: E05 Constant E06 Number of digits E07 Meter time frame (code defining different time-periods for different registers) E13 Type of meter (According to Belgian market rules)
				Codes: 260 ebIX

CAV	Characteristic value
Function:	A segment to specify the value of the characteristic previously defined in either coded form or in free format.
Classification:	Required (R1).
Comments:	<ul style="list-style-type: none"> • Italic text refers to codes in the previous CCI segment • 1131 is only used together with national code lists
Example:	CAV+E10::260' CAV+:::10'

Ref.	Name	Cl.	Form.	Description
Meter time frame Type of meter	> 7111 CHARACTERISTIC VALUE Characteristic value description code	M D	an..3	<p>Codes:</p> <p><i>Meter time frame(1131 not used):</i></p> <p>E10 Low E11 High E12 Peak</p> <p><i>Or a national code used together with a code list responsible in 1131.</i></p>
	1131 Code list identification code	D	an..17	<p>Type of meter:</p> <p>Use codes from national user guides</p> <p>Codes:</p> <p>293 DE, VDEW DK Danish Ediel group DPO Dutch Profile Organisation EKS Elkraft system ELT Eltra SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät TNT TenneT BEL Belgium national standard</p>
Constant Number of digits	> 3055 Code list responsible agency code 7110 Characteristic value description	D D	an..3 an..35	<p>Codes:</p> <p>260 ebIX Constant Number of digits</p>
	7110 Characteristic value description	X	an..35	



MESSAGE: UTILMD

SG 11

Function: A group of segments for specifying monetary amounts related to the object and connected references and dates, such as grid access fee.
Classification: Optional (O1).
Comments: Only used in Germany
Segments: MOA, RFF, DTM

MOA Monetary amount
Function: A segment for specifying monetary amounts related to the object.
Classification: Mandatory (M1).
Comments: Only used in Germany
Example: MOA+9+456:EUR'

Amount due/
payable

Ref.	Name	Cl.	Form.	Description
C516 5025	MONETARY AMOUNT Monetary amount type code qualifier	M M	an..3	Codes: 9 Amount due/amount payable (According to German market rules)
5004 6345	Monetary amount Currency identification code	R R	n..35 an..3	Amount Codes: Use ISO 4217, 3-Alpha code, e.g.: EUR Euro
6343 4405	Currency type code qualifier Status description code	X X	an..3 an..3	

	<p>RFF Reference</p> <p>Function: A segment for identifying a reference to the amount.</p> <p>Classification: Optional (O1).</p> <p>Comments: Only used in Germany</p> <p>Example: RFF+PQ:PM3456123'</p>																																			
Payment reference >	<table border="1"><thead><tr><th>Ref.</th><th>Name</th><th>Cl.</th><th>Form.</th><th>Description</th></tr></thead><tbody><tr><td>C506</td><td>REFERENCE</td><td>M</td><td></td><td></td></tr><tr><td>1153</td><td>Reference code qualifier</td><td>M</td><td>an..3</td><td><p>Codes:</p><p>PQ Payment reference (According to German market rules)</p></td></tr><tr><td>1154</td><td>Reference identifier</td><td>R</td><td>an..70</td><td>Reference no.</td></tr><tr><td>1156</td><td>Document line identifier</td><td>X</td><td>an..6</td><td></td></tr><tr><td>4000</td><td>Reference version identifier</td><td>X</td><td>an..35</td><td></td></tr><tr><td>1060</td><td>Revision identifier</td><td>X</td><td>an..6</td><td></td></tr></tbody></table>	Ref.	Name	Cl.	Form.	Description	C506	REFERENCE	M			1153	Reference code qualifier	M	an..3	<p>Codes:</p> <p>PQ Payment reference (According to German market rules)</p>	1154	Reference identifier	R	an..70	Reference no.	1156	Document line identifier	X	an..6		4000	Reference version identifier	X	an..35		1060	Revision identifier	X	an..6	
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1156	Document line identifier	X	an..6																																	
4000	Reference version identifier	X	an..35																																	
1060	Revision identifier	X	an..6																																	

	DTM	Date/time/period																								
	Function:	A segment specifying the date/time related to the referenced information.																								
	Classification:	Optional (O2).																								
	Comments:	Only used in Germany																								
	Example:	DTM+672:3:801'																								
Terms net due date Period assigned	<table border="1"> <thead> <tr> <th>Ref.</th><th>Name</th><th>Cl.</th><th>Form.</th><th>Description</th></tr> </thead> <tbody> <tr> <td>C507</td><td>DATE/TIME/PERIOD</td><td>M</td><td></td><td></td></tr> <tr> <td>2005</td><td>Date or time or period function code qualifier</td><td>M</td><td>an..3</td><td> Codes: 13 Terms net due date (According to German market rules) 672 Period assigned (According to German market rules) Date/time/period </td></tr> <tr> <td>> 2380</td><td>Date or time or period text</td><td>R</td><td>an..35</td><td></td></tr> <tr> <td>2379</td><td>Date or time or period format code</td><td>R</td><td>an..3</td><td> Codes: 102 CCYYMMDD 801 Year (a quantity of years) 802 Month (a quantity of months) </td></tr> </tbody> </table>	Ref.	Name	Cl.	Form.	Description	C507	DATE/TIME/PERIOD	M			2005	Date or time or period function code qualifier	M	an..3	Codes: 13 Terms net due date (According to German market rules) 672 Period assigned (According to German market rules) Date/time/period	> 2380	Date or time or period text	R	an..35		2379	Date or time or period format code	R	an..3	Codes: 102 CCYYMMDD 801 Year (a quantity of years) 802 Month (a quantity of months)
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2379	Date or time or period format code	R	an..3	Codes: 102 CCYYMMDD 801 Year (a quantity of years) 802 Month (a quantity of months)																						



MESSAGE: UTILMD

SG 12

Function: A group of segments identifying parties related to the object or service, with associated information, such as end user, installation, invoicee, etc.
Classification: Optional (O14).
Comments:
Segments: NAD, RFF, SG 13

NAD Name and address
Function: A segment for specifying the identification and/or the name and address of the party, in coded or clear form, and the functions relevant to the object or service. It is recommended that, if possible, only the coded form of the party identification should be specified.
Classification: Mandatory (M1).
Comments:

- Party id is required for all parties except UD and IT, which might be identified with a name and an address.

Example: NAD+IT+8712345678901::9'

Ref.	Name	Cl.	Form.	Description
------	------	-----	-------	-------------

In-care of balance supplier Metered data aggregator Metered data collector Balance responsible party Balance supplier Contract address Metering point address Invoicee. Owner of property Consumer Sub-balance responsible Transport capacity responsible party Meter reading contact Emergency address	>	3035	PARTY FUNCTION CODE QUALIFIER	M	an..3	Codes: AG In-care of balance supplier (According to German market rules) (EDIFACT term: Agent/representative) CS Metered data aggregator (EDIFACT term: Consolidator) DDE Metered data collector (EDIFACT term: Meter reader) DDK Balance responsible party DDQ Balance supplier (EDIFACT term: Balance power supplier) FS Contract address (EDIFACT term: Party authorized to make definite a contract action) IT Metering point address (EDIFACT term: Installation on site) IV Invoicee. Party to whom an invoice is issued. OE Owner of property UD Consumer, address for correspondence (EDIFACT term: Ultimate customer) WP Sub-balance responsible (According to German market rules) (EDIFACT term: Sub-entity) Z01 Transport capacity responsible party Z02 Meter reading contact (party to contact for self reading, such as address for reading cards) Z03 Emergency address
			C082	D		
			3039	M	an..35	Party identification
			1131	X	an..17	
			3055	R	an..3	
			C058	X		Codes:
			3124	X	an..35	9 EAN (International Article Numbering association)
			3124	X	an..35	293 DE, VDEW
			3124	X	an..35	305 ETSO (EIC, ETSO Identification Code)
			3124	X	an..35	
			3124	X	an..35	
			C080	D		
			3036	M	an..35	Party name
			3036	O	an..35	Party name
			3036	O	an..35	Party name
			3036	X	an..35	
			3036	X	an..35	
			3045	X	an..3	
		C059	STREET	D		

Address	>	3042	Street and number or post office box identifier	M	an..35	Address
		3042	Street and number or post office box identifier	O	an..35	Address
		3042	Street and number or post office box identifier	O	an..35	Address
		3042	Street and number or post office box identifier	O	an..35	Address
City name	>	3164	CITY NAME	D	an..35	City name
		C819	COUNTRY SUB-ENTITY DETAILS	X		
		3229	Country sub-entity name code	X	an..9	
		1131	Code list identification code	X	an..17	
		3055	Code list responsible agency code	X	an..3	
		3228	Country sub-entity name	X	an..70	
Postcode	>	3251	POSTAL IDENTIFICATION CODE	D	an..17	Postcode
Country	>	3207	COUNTRY NAME CODE	D	an..3	Codes: ISO 3166 2-Alpha Code, e.g.: BE Belgium DK Denmark FI Finland FR France DE Germany NL Netherlands NO Norway SE Sweden GB United Kingdom

	RFF	Reference																				
	Function:	A segment for inclusion of any references related to the current party, such as fiscal number or government reference number.																				
	Classification:	Optional (O3).																				
	Comments:																					
	Example:	RFF+AVC:123001582'																				
Grid operators customer number Suppliers customer number VAT registration number	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Ref.</th> <th style="text-align: left; padding: 2px;">Name</th> <th style="text-align: left; padding: 2px;">Cl.</th> <th style="text-align: left; padding: 2px;">Form.</th> <th style="text-align: left; padding: 2px;">Description</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">C506 1153</td> <td style="padding: 2px;">REFERENCE Reference code qualifier</td> <td style="padding: 2px;">M M</td> <td style="padding: 2px;">an..3</td> <td style="padding: 2px;"> Codes: CAZ Grid operator's customer reference number (According to German market rules) AVC Supplier's customer reference number (According to German market rules) VA VAT registration number Customer number </td> </tr> <tr> <td style="padding: 2px;">> 1154</td> <td style="padding: 2px;">Reference identifier</td> <td style="padding: 2px;">R</td> <td style="padding: 2px;">an..70</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">1156 4000 1060</td> <td style="padding: 2px;">Document line identifier Reference version identifier Revision identifier</td> <td style="padding: 2px;">X X X</td> <td style="padding: 2px;">an..6 an..35 an..6</td> <td style="padding: 2px;"></td> </tr> </tbody> </table>	Ref.	Name	Cl.	Form.	Description	C506 1153	REFERENCE Reference code qualifier	M M	an..3	Codes: CAZ Grid operator's customer reference number (According to German market rules) AVC Supplier's customer reference number (According to German market rules) VA VAT registration number Customer number	> 1154	Reference identifier	R	an..70		1156 4000 1060	Document line identifier Reference version identifier Revision identifier	X X X	an..6 an..35 an..6		
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1156 4000 1060	Document line identifier Reference version identifier Revision identifier	X X X	an..6 an..35 an..6																			

		LAN	LANGUAGE	
		Function:	A segment to indicate the languages for the specified party.	
		Classification:	Optional (O1).	
		Comments:		
		Example:	LAN+6+DUT'	
Language	>	Ref.	Name	Cl. Form. Description
		3455	LANGUAGE CODE QUALIFIER	M an..3 Codes: 6 For all types of communication (Language used for all types of communications.)
		C508	LANGUAGE DETAILS	R
		3453	Language name code	R an..3 Codes: <i>ISO 639-1988(639-1, 2 letter code), e.g.:</i> FR French NL Flemish; Dutch EN English DE German
		3452	Language name	X an..35



MESSAGE: UTILMD

SG 13

Function: A group of segments giving contact details of a specific person and/or department within the party identified.
Classification: Optional (O1).
Comments:
Segments: CTA, COM

CTA Contact information
Function: A segment to identify a person and/or department, and their function, to whom communications should be directed
Classification: Mandatory (M1).
Comments:
Example: CTA+IC+:Ole Olsen'

Contact

Ref.	Name	Cl.	Form.	Description
3139	CONTACT FUNCTION CODE	R	an..3	Codes: IC Information contact
C056	DEPARTMENT OR EMPLOYEE DETAILS	R		
3413	Department or employee name code	X	an..17	
> 3412	Department or employee name	R	an..35	Contact person or department

Communication number	<p>COM Communication contact Function: A segment to identify a communication type and number for the contact specified. Classification: Optional (O5). Comments: Example: COM+4687397775:TE'</p> <table border="1" data-bbox="377 512 1394 871"><thead><tr><th>Ref.</th><th>Name</th><th>Cl.</th><th>Form.</th><th>Description</th></tr></thead><tbody><tr><td>C076</td><td>COMMUNICATION CONTACT</td><td>M</td><td></td><td></td></tr><tr><td>3148</td><td>Communication address identifier</td><td>M</td><td>an..512</td><td>Communication number</td></tr><tr><td>3155</td><td>Communication address code qualifier</td><td>M</td><td>an..3</td><td>Codes: TE Telephone FX Telefax EM Electronic mail (Internet) XF X.400 TL Telex</td></tr></tbody></table>	Ref.	Name	Cl.	Form.	Description	C076	COMMUNICATION CONTACT	M			3148	Communication address identifier	M	an..512	Communication number	3155	Communication address code qualifier	M	an..3	Codes: TE Telephone FX Telefax EM Electronic mail (Internet) XF X.400 TL Telex
Ref.	Name	Cl.	Form.	Description																	
C076	COMMUNICATION CONTACT	M																			
3148	Communication address identifier	M	an..512	Communication number																	
3155	Communication address code qualifier	M	an..3	Codes: TE Telephone FX Telefax EM Electronic mail (Internet) XF X.400 TL Telex																	



MESSAGE: UTILMD

SG 0

Function: Summary section

Classification: Mandatory (M1).

Comments:

Segments: CNT, UNT

UNT Message trailer

Function: A service segment ending a message, giving the total number of segments in the message (including the UNH & UNT) and the control reference number of the message.

Classification: Mandatory (M1).

Comments:

Example: UNT+11+1'

Ref.	Name	Cl.	Form.	Description
0074	NUMBER OF SEGMENTS IN THE MESSAGE	M	n..6	Number of segments in the message, including UNH and UNT.
0062	MESSAGE REFERENCE NUMBER	M	an..14	Control reference number. Equal to 0062 in UNH

APPENDIX A - EXAMPLE OF AN EDIFACT MESSAGE

To be completed.