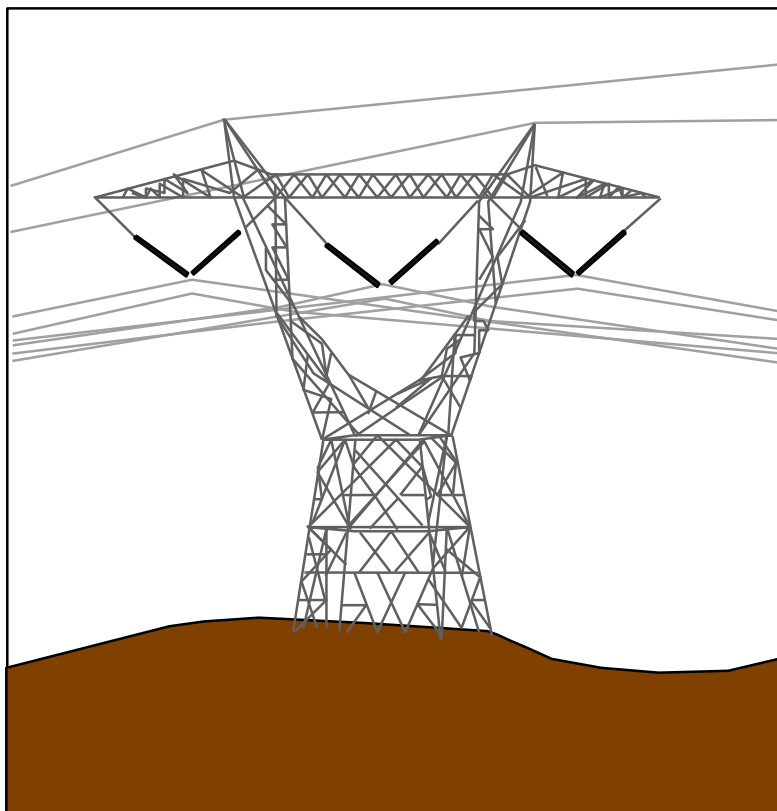


# Message handbook for Ediel

## Implementation guide for UTILITY TIME SERIES MESSAGE



EDIFACT-message:	UTILTS
EDIFACT-version:	D
EDIFACT-release:	02B
IG-status:	For implementation
IG-version:	5.0
IG-revision:	B
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## **1 INTRODUCTION**

This document is an Implementation Guide (IG) for the Utility time series message, to be used in the power industry. The IG describes the EDIFACT-message UTILTS (Utility time series message) in detail. The message is sent between parties in the power industry. The message can be used for exchange of time series of different kinds (e.g. quantities, prices, amounts etc.).

This IG is a part of the "Message handbook for Ediel", 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.
- Process descriptions are available in separate modelling documents.
- The present description reflects the current state of discussions in the project group.

## **2 GENERAL DESCRIPTION OF THE UTILTS MESSAGE**

### **2.1 Functional Definition**

The Utilities time series message is sent between responsible parties in a utilities infrastructure for the purpose of reporting time series and connected technical and/or administrative information.

### **2.2 Principles**

The Utilities time series message may contain time series for metered values, forecasts, estimates, prices, etc. Connected to each time series there may be technical and administrative information, such as characteristics of a meter, exchange rates, etc. Each time series will be identified by the companies and/or locations that are reported, the product and the validity time period. The message may be an initial message and does not require a response.

### **3 REFERENCES**

This Implementation guide is based on the following documents.

- [1] **UN/EDIFACT directory, D.02B.**
- [2] **Message handbook for Ediel, Functional description**
- [3] **ISO 9735**, version 2, 1990.11.01
- [4] **Ediel model for Change of Supplier in the electricity power 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 Draft directory, D.01C [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 Ediel. Members of the Ediel-organisation have taken part in its development throughout.

The present document has the following status:

- Request For Comment - 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 more uncertain codes Ediel will maintain the codes. 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

This is the first Ediel UTILTS Implementation Guide based on EDIFACT directory D02B.

## **5 SPECIAL CONDITIONS**

### **Electricity and gas**

This MIG has been developed for use in the electricity and in the gas sector.

## 6 OVERVIEW OF THE MESSAGE

### 6.1 Class diagram for the Utility time series message

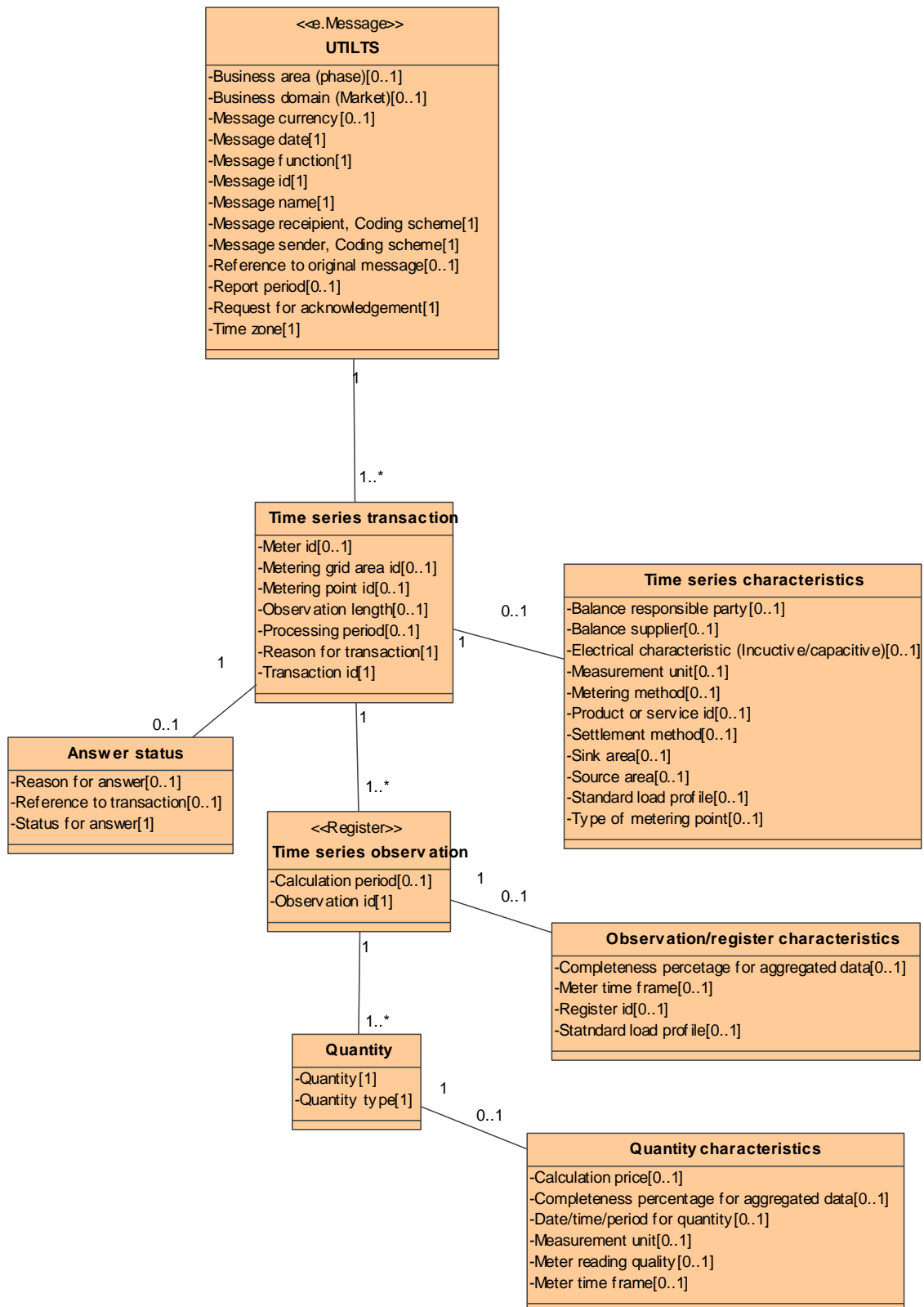


Figure 1 Class diagram for the Utility time series message



## 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	3		Message date Time zone Report period
MKS	R	1		Business domain (Market) Business area
PRC	C	9		Not used
<b>References</b>				
SG 1	O	1		
RFF	M	1		Reference to original message
DTM	C	9		Not used
<b>Message parties</b>				
SG 2	R	2		
NAD	M	1		Message recipient – Coding scheme Message sender – Coding scheme
RFF	C	1		Not used
<b>Contact information</b>				
SG 3	C	9		
CTA	M	1		Not used
COM	C	9		Not used
<b>Currencies / Rate of exchange</b>				
SG 4	O	1		
CUX	M	1		Message currency
DTM	C	9		Not used
STS	C	9		Not used
<b>Message details</b>				
SG 5	R	99999		
IDE	M	1		Transaction id
LOC	R	4		Metering point id Metering grid area id Source area Sink area
NAD	O	2		Balance responsible party Balance supplier
ALI	C	9		Not used
LIN	D	1		Product or service id
PIA	C	9		Not used
IMD	O	1		Electrical characteristic (Inductive/capacitive reactive power)

	DTM	O	2	Observation length Processing period
	PRC	C	9	Not used
	STS	O	2	Reason for transaction Status for answer Reason for answer
	AGR	C	9	Not used
	MEA	D	1	Measurement unit
	FTX	C	9	Not used
<b>References</b>				
	SG 6	O	2	
	RFF	M	1	Reference to transaction id Meter id
	DTM	C	9	Not used
<b>Characteristics</b>				
	SG 7	O	4	
	CCI	M	1	Standard load profile Settlement method Metering method Type of metering point
	CAV	R	1	
<b>Time series date/time/period</b>				
	SG 8	O	99999	
	SEQ	M	1	Observation id
	DTM	O	1	Calculation date/time/period
	RFF	O	1	Meter id Register id
	MOA	C	9	Not used
	PCD	O	1	Completeness percentage for aggregated data
<b>Characteristics for observation</b>				
	SG 9	O	2	
	CCI	M	1	
	CAV	R	1	Meter time frame Standard load profile
<b>Price</b>				
	SG 10	C	9	Not used
	PRI	M	1	Not used
	CUX	C	9	Not used
<b>Quantity</b>				
	SG 11	O	3	
	QTY	M	1	Quantity type <ul style="list-style-type: none"> <li>• Estimated annual volume</li> <li>• Estimated monthly volume</li> <li>• Period quantity, planned</li> <li>• Period quantity, reached</li> <li>• Meter reading</li> <li>• Maximum requestable quantity</li> <li>• Delivered quantity balance</li> <li>• Period quantity, calculated (for settlement and reconciliation)</li> </ul> Quantity Measurement unit

			DTM	O	1	Date/time/period for quantity <ul style="list-style-type: none"> <li>• Processing date/period</li> <li>• Previous meter reading date</li> <li>• Latest meter reading date</li> <li>• Validity start date</li> </ul>	
			STS	R	1	Meter reading quality	
			SG 12	C	99	<b>NOTE:</b> This segment group is under discussion and might be removed – If removed the meter time frame will be placed in SG9/CCI+CAV	
			CCI	M	1		
			CAV	C	99	Meter time frame	
			<b>Price</b>				
			SG 13	O	1		
			PRI	M	1	Calculation price	
			CUX	C	9	Not used	
<b>Message trailer</b>							
			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 yellow are not used in this subset.

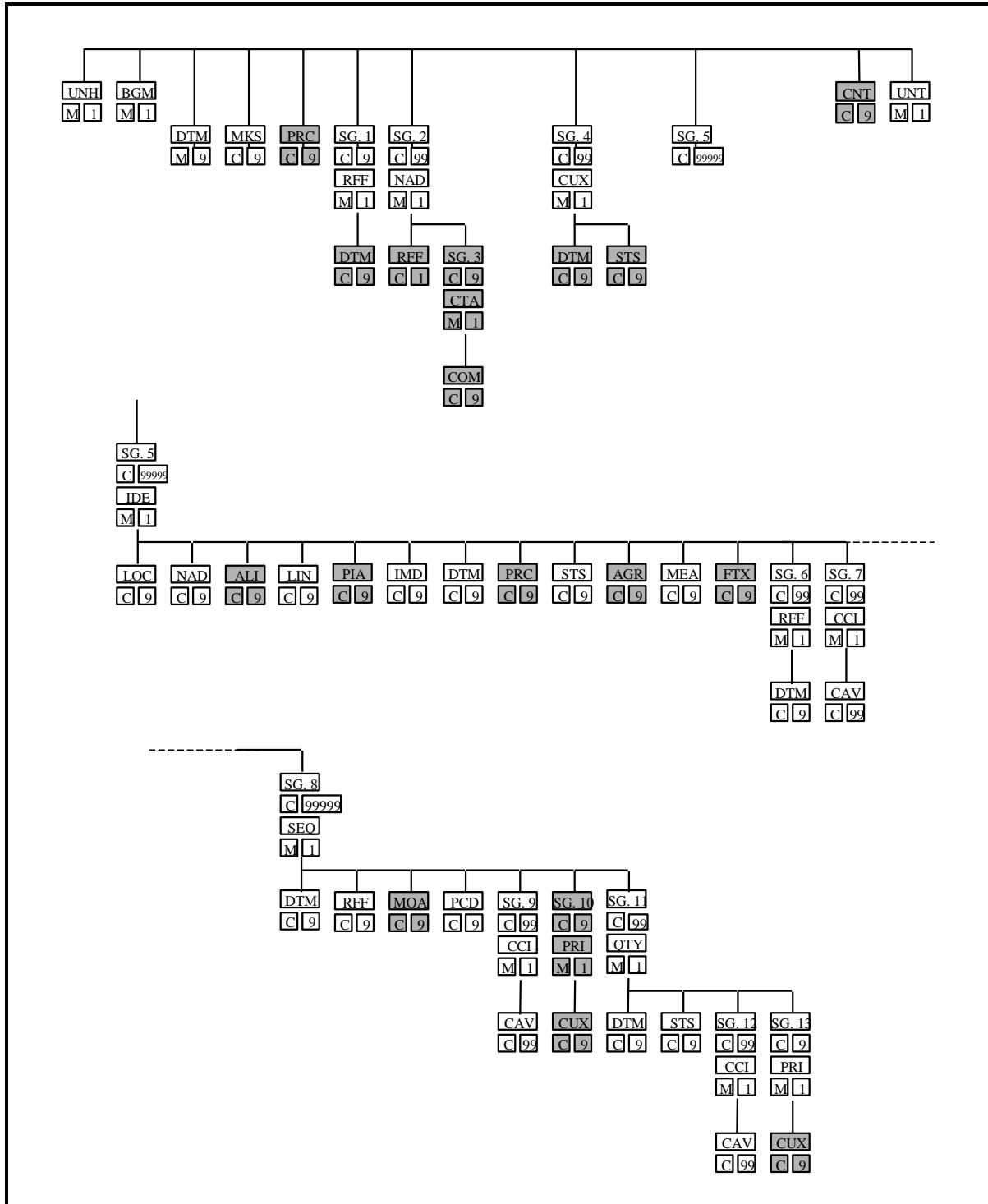


Figure 2 Message diagram for Utility time series message

6.4 Segment table

In this chapter the segment table for the Utility time series message (UTILTS) 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	<b>UNH Message header</b>	<b>M</b>	<b>1</b>
0020	<b>BGM Beginning of message</b>	<b>M</b>	<b>1</b>
0030	<b>DTM Date/time/period</b>	<b>M</b>	<b>9</b>
0040	<b>MKS Market/sales channel information</b>	<b>C</b>	<b>9</b>
0050	PRC Process identification	C	9
0060	----- <b>Segment group 1</b> -----	<b>C</b>	<b>9</b> -----+
0070	<b>RFF Reference</b>	<b>M</b>	<b>1</b>
0080	DTM Date/time/period	C	9-----+
0090	----- <b>Segment group 2</b> -----	<b>C</b>	<b>99</b> -----+
0100	<b>NAD Name and address</b>	<b>M</b>	<b>1</b>
0110	RFF Reference	C	1
0120	----- <b>Segment group 3</b> -----	<b>C</b>	<b>9</b> -----+
0130	CTA Contact information	M	1
0140	COM Communication contact	C	9-----++
0150	----- <b>Segment group 4</b> -----	<b>C</b>	<b>99</b> -----+
0160	<b>CUX Currencies</b>	<b>M</b>	<b>1</b>
0170	DTM Date/time/period	C	9
0180	STS Status	C	9-----+
0190	----- <b>Segment group 5</b> -----	<b>C</b>	<b>99999</b> -----+
0200	<b>IDE Identity</b>	<b>M</b>	<b>1</b>
0210	<b>LOC Place/location identification</b>	<b>C</b>	<b>9</b>
0220	<b>NAD Name and address</b>	<b>C</b>	<b>9</b>
0230	ALI Additional information	C	9
0240	<b>LIN Line item</b>	<b>C</b>	<b>9</b>
0250	PIA Additional product id	C	9
0260	<b>IMD Item description</b>	<b>C</b>	<b>9</b>
0270	<b>DTM Date/time/period</b>	<b>C</b>	<b>9</b>
0280	PRC Process identification	C	9
0290	<b>STS Status</b>	<b>C</b>	<b>9</b>
0300	AGR Agreement identification	C	9
0310	<b>MEA Measurements</b>	<b>C</b>	<b>9</b>
0320	FTX Free text	C	9
0330	----- <b>Segment group 6</b> -----	<b>C</b>	<b>99</b> -----+
0340	<b>RFF Reference</b>	<b>M</b>	<b>1</b>
0350	DTM Date/time/period	C	9-----+
0360	----- <b>Segment group 7</b> -----	<b>C</b>	<b>99</b> -----+
0370	<b>CCI Characteristic/class id</b>	<b>M</b>	<b>1</b>
0380	<b>CAV Characteristic value</b>	<b>C</b>	<b>99</b> -----+
0390	----- <b>Segment group 8</b> -----	<b>C</b>	<b>99999</b> -----+
0400	<b>SEQ Sequence details</b>	<b>M</b>	<b>1</b>
0410	<b>DTM Date/time/period</b>	<b>C</b>	<b>9</b>
0420	<b>RFF Reference</b>	<b>C</b>	<b>9</b>
0430	MOA Monetary amount	C	9
0440	<b>PCD Percentage details</b>	<b>C</b>	<b>9</b>
0450	----- <b>Segment group 9</b> -----	<b>C</b>	<b>99</b> -----+

0460	CCI Characteristic/class id	M	1	
0470	CAV Characteristic value	C	99-----+	
0480	----- Segment group 10 -----	C	9-----+	
0490	PRI Price details	M	1	
0500	CUX Currencies	C	9-----+	
0510	----- Segment group 11 -----	C	99-----+	
0520	QTY Quantity	M	1	
0530	DTM Date/time/period	C	9	
0540	STS Status	C	9	
0550	----- Segment group 12 -----	C	99-----+	
0560	CCI Characteristic/class id	M	1	
0570	CAV Characteristic value	C	99-----+	
0580	----- Segment group 13 -----	C	9-----+	
0590	PRI Price details	M	1	
0600	CUX Currencies	C	9-----+	
0610	CNT Control total	C	9	
0620	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:** This IG is based on a recast version of UTILTS. The message was approved on the latest UN/CEFACT Forum meeting. The EDIFACT directory D.02B is expected published in January 2003.



## MESSAGE: UTILTS

**SG 0**

**Function:** A service segment starting and uniquely identifying a message. The message type code for the Utilities time series message is UTILTS.

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

**UNH** Message header

**Function:** A service segment starting and uniquely identifying a message.

**Classification:** Mandatory (M1).

**Comments:**

**Example:** UNH+1+UTILTS:D:01C:UN:EDIEL5'

Message-reference

Ref.	Name	Cl.	Form.	Description
> 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.
> S009	MESSAGE IDENTIFIER	M		
0065	Message type identifier	M	an..6	<b>Code:</b> UTILTS
0052	Message type version number	M	an..3	<b>Code:</b> D
0054	Message type release number	M	an..3	<b>Code:</b> 02B
0051	Controlling agency	M	an..2	<b>Code:</b> UN
0057	Association assigned code	R	an..6	<b>Code:</b> EDIEL5 / E5xxyy  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
0068	COMMON ACCESS REFERENCE	X	an..35	
S010	STATUS OF THE TRANSFER	X		
0070	Sequence message transfer number	X	n..2	
0073	First/last seq. mess. transfer. indicator.	X	a1	

Message-type



**BGM** Beginning of message  
**Function:** A segment by which the sender uniquely identifies the Utilities time series message by means of its name and number and when necessary its function.  
**Classification:** Mandatory (M1).  
**Comments:** • 3055 in C002 Shall be used for “Enn-codes” in C002 1001  
**Example:** BGM+E11+SSA1234+9+AB'

Ref.	Name	Cl.	Form.	Description
C002	DOCUMENT/MESSAGE NAME	R		
1001	Document name code	R	an..3	<b>Codes:</b> E11 Metered data, from Metered data aggregator to Balance supplier E13 Metered data, quantity per period E16 Request for metered data E23 Metered data for profiling E24 Aggregated metered data for profiled metering points to Balance responsible party E25 Aggregated metered data for reconciliation for profiled metering points to the Reconciliation responsible party E26 Reconciliation volumes E29 Aggregated metered data for verification of reconciliation E30 Metered data, from Metered data collector to Metered data aggregator E31 Aggregate metered data to the Balance settlement responsible
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	D	an..3	<b>Codes:</b> 260 ebIX
1000	Document name	X	an..35	
C106	DOCUMENT/MESSAGE IDENTIFICATION	R		
1004	Document identifier	R	an..35	Unique Id. of the message. Shall be unique over time for each party.
1056	Version identifier	X	an..9	
1060	Revision identifier	X	an..6	
C1225	MESSAGE FUNCTION CODE	R	an..3	<b>Codes:</b> 2 Delta updates (EDIFACT term: Addition) 3 Deletion 4 Change 5 Replace of a previously sent message. 6 Confirmation 9 Original message.

Request for acknowledgement	>	4343	RESPONSE TYPE CODE	R	an..3	<b>Codes:</b>
						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 (M3).

**Comments:**

- Both “137, Message date” and 735, Time zone” are required.
- There shall be only one offset to UTC for each message that covers all dates in the message (not including UNB).
- Its recommended always setting the offset to UTC to zero.
- “567, Report period” defines the period covered by the message. This period may be longer than the Event period in the detail section. E.g. for profiled metered metering points the meter stands may be read within one month (covered by the Event period), but the volumes may cover a year (Report period).

**Example:** DTM+137:200207011241:203'  
DTM+735:?+0000:406'

Message  
date  
Time zone  
Report  
period

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date or time or period function code qualifier	M	an..3	<b>Codes:</b> 137 Message date 567 Report period 735 Offset from Coordinated Universal Time (UTC)
2380	Date or time or period value	R	an..35	Date/time/period
2379	Date or time or period format code	R	an..3	<b>Codes:</b> 203 CCYYMMDDHHmm, (137) 406 ZHHMM, Offset from Coordinated Universal Time (UTC) where Z is plus (+) or minus (-). (735) 719 CCYYMMDDHHmm-CCYYMMDDHHmm, without hyphen (567)

**MKS** Market/sales channel information  
**Function:** A segment to specify to which market and/or through which sales distribution channel and/or for which end-use the time series relates.  
**Classification:** Advised (A1).  
**Comments:**

- Recommended to be used.
- Official codes for Garbage, TV Distribution and Water are expected in D.03A (spring 2003)

**Example:** MKS+23+E02::260'

Business domain  
(Market)

Business area

Ref.	Name	Cl.	Form.	Description
7293	SECTOR AREA IDENTIFICATION CODE QUALIFIER	M	an..3	<b>Codes:</b> 23 Electricity supply industry 27 Gas supply industry Z01 Garbage collection Z02 Cable TV channel distribution Z03 Water distribution
C332	SALES CHANNEL IDENTIFICATION	M		
3496	Sales channel identifier	R	an..17	<b>Codes:</b> E01 Structuring phase E02 Meter reading phase E03 Settlement phase
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	R	an..3	<b>Codes:</b> 260 ebIX
1229	ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	X	an..3	



## MESSAGE: UTILTS

SG 1

**Function:** A group of segments giving references and, where necessary, their dates relating to the whole message.  
**Classification:** Optional (O1)  
**Comments:**  
**Segments:** RFF

**RFF** Reference  
**Function:** A segment identifying a reference by its type and number.  
**Classification:** Mandatory (M1)  
**Comments:**

- This segment is only to be used in an UTILTS that is sent to reject a previous message.
- 1153: specifies the message type of the original message to which the reply is referring.
- 1154: in case of rejection the reference should be made to the message that is being rejected (message number in SG0/BGM/C106 1004)

**Example:** RFF+E25:012345'

Reference to original message >

Ref.	Name	Cl.	Form.	Description
C506	REFERENCE	M1		
1153	Reference function code qualifier	M	an..3	<b>Code:</b> E11 UTILTS E21 E13 UTILTS E13 E16 UTILTS E16 E23 UTILTS E23 E24 UTILTS E24 E25 UTILTS E25 E26 UTILTS E26 E29 UTILTS E29 E30 UTILTS E30 E31 UTILTS E31
1154	Reference identifier	R	an..35	Reference to original message
1156	Line number	X	an..6	
4000	Reference version identifier	X	an..35	
1060	Revision number	X	an..6	



## MESSAGE: UTILTS

## 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:**

- 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	<b>Codes:</b> MR Message recipient MS Document/message issuer/sender
C082	PARTY IDENTIFICATION DETAILS	R		Party identification
3039	Party identifier	M	an..35	
1131	Code list identification code	X	an..17	<b>Codes:</b> 9 EAN (International Article Numbering association) 293 DE, VDEW 305 ETSO (EIC, ETSO Identification Code)
3055	Code list responsible agency code	R	an..3	
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: UTILTS**

**SG 4**

**Function:** A group of segments specifying the currencies, related dates/periods and status for the rate of exchange valid for the whole message.  
**Classification:** Optional (O1).  
**Comments:**  
**Segments:** CUX

**CUX** Currencies  
**Function:** A segment identifying the currencies specified in the message, such as the currency in which the prices are expressed. A rate of exchange may be given to convert a reference currency into a target currency.  
**Classification:** Mandatory (M1).  
**Comments:**

- To inform the receiver about the currency used in the message.
- Not needed if a default currency is defined in national procedures.

**Example:** CUX+2:SEK'

Message  
currency

Ref.	Name	Cl.	Form.	Description
C504	CURRENCY DETAILS	R		
6347	Currency usage code qualifier	M	an..3	Currency details qualifier <b>Code:</b> 2 Reference currency (The currency applicable to amounts stated. It may have to be converted).
6345	Currency identification code	R	an..3	Use ISO 4217 three letter currency code, e.g.: <b>Code:</b> DKK Denmark - Krone NOK Norwegian - Krone RUR Russia - Ruble SEK Sweden – Krona EUR Euro
6343	Currency type code qualifier	X	an..3	
6348	Currency rate value	X	n..4	
C504	CURRENCY DETAILS	X		
6347	Currency usage code qualifier	X	an..3	
6345	Currency identification code	X	an..3	
6343	Currency type code qualifier	X	an..3	
6348	Currency rate value	X	n..4	
5402	CURRENCY EXCHANGE RATE	X	n..12	
6341	EXCHANGE RATE CURRENCY MARKET IDENTIFIER	X	an..3	





## MESSAGE: UTILTS

SG 5

**Function:** A group of segments providing details of the time series and connected technical and/or administrative information. In addition to the time series itself, this includes identification of the time series, associated dates, references, characteristics, etc.

**Classification:** Required (R99999).

**Comments:**

**Segments:** IDE, LOC, NAD, LIN, IMD, DTM, STS, MEA, SG6, SG7, SG8

**IDE** Identity  
**Function:** A segment identifying a time series, the type of object and the product or service being reported in the time series (e.g. electrical energy, electrical power, water, gas).  
**Classification:** Mandatory (M1).  
**Comments:**

- Unique id from the sender of the message. The id may be used to link the response to the original transaction.

**Example:** IDE+24+MD200205832134'

Transaction id. >

Ref.	Name	Cl.	Form.	Description
7495	OBJECT TYPE CODE QUALIFIER	M	an..3	<b>Codes:</b> 24 Transaction
C206	IDENTIFICATION NUMBER	R		Transaction id.
7402	Object identifier	M	an..35	
7405	Object identification code qualifier	X	an..3	
4405	Status description code	X	an..3	
C082	PARTY IDENTIFICATION DETAILS	X		
3039	Party identifier	X	an..35	
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	X	an..3	
4405	STATUS DESCRIPTION CODE	X	an..3	
1222	CONFIGURATION LEVEL NUMBER	X	n..2	
C778	POSITION IDENTIFICATION	X		
7164	Hierarchical structure level identifier	X	an..35	
1050	Sequence position identifier	X	an..10	
C240	PRODUCT CHARACTERISTIC	X		
7037	Characteristic description code	X	an..17	
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	X	an..3	
7036	Characteristic description	X	an..35	

**LOC** Place/location identification  
**Function:** A segment to identify location(s) related to the time series.  
**Classification:** Required (R4).  
**Comments:**  
**Example:** LOC+172+871234567890123456::9'

Metering point id  
 Metering grid area id  
 Source area  
 Sink area

Ref.	Name	Cl.	Form.	Description
3227	LOCATION FUNCTION CODE QUALIFIER	M	an..3	<b>Codes:</b> 172 Metering point id (EDIFACT term "Reporting location") 231 Metering grid area (EDIFACT term "Grid area") 232 Source power area - The area that is the source of power. 233 Sink power area
C517	ITEM NUMBER IDENTIFICATION	R		
3225	Location name code	R	an..35	Metering point id or Metering grid area
1131	Code list qualifier	X	an..17	
3055	Code list responsible agency, coded	R	an..3	<b>Codes:</b> 9 EAN (International Article Numbering association) 89 Assigned by distributor 305 ETSO
3224	Location name	X	an..256	
C519	RELATED LOCATION ONE IDENTIFICATION	X		
3223	First related location name code	X	an..25	
1131	Code list qualifier	X	an..17	
3055	Code list responsible agency, coded	X	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 qualifier	X	an..17	
3055	Code list responsible agency, coded	X	an..3	
3232	Second related location name	X	an..70	
5479	RELATION CODE	X	an..3	

**NAD** Name and address  
**Function:** A segment to identify a premise or a party related to the time series.  
**Classification:** Optional (O2).  
**Comments:**

- Used for aggregations per party. E.g. the consumption for one Balance supplier (DDQ) in a metering grid area (code 231 in the previous LOC segment).
- Use only the parties that are a part in the aggregation.

**Example:** NAD+DDK+1234567890123::9'

Balance responsible party  
Balance supplier

Ref.	Name	Cl.	Form.	Description
3035	PARTY FUNCTION CODE QUALIFIER	M	an..3	<b>Code:</b> DDK Balance responsible party DDQ Balance power supplier
C082	PARTY IDENTIFICATION DETAILS	R		Party identification
3039	Party identifier	M	an..35	
1131	Code list identification code	X	an..17	
3055	Code list responsible agency code	R	an..3	
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	

**LIN** Line item  
**Function:** A segment used to identify the time series by its product identification.  
**Classification:** Dependent (D1).  
**Comments:**

- Not required for answers.

**Example:** LIN+++8716867000016:::9'

Product or service id.

Ref.	Name	Cl.	Form.	Description
1082	LINE ITEM IDENTIFIER	X	n..6	
1229	ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	X	an..3	
C212	ITEM NUMBER IDENTIFICATION	R		
7140	Item identifier	R	an..35	<b>Code:</b> 8716867000016 Power, Active 8716867000023 Power, Reactive 8716867000030 Energy, Active 8716867000047 Energy, Reactive 8716867000054 Connection, Capacity 8716867000061 Connection, Use 8716867000078 Transport, Capacity 8716867000085 Transport, Use
7143	Item type identification code	X	an..3	
1131	Code list identification code	X	an..3	
3055	Code list responsible agency code	R	an..3	<b>Code:</b> 9 EAN (International Article Numbering association)
C829	SUB-LINE INFORMATION	X		
5495	Sub-line indicator code	X	an..3	
1082	Line item identifier	X	n..6	
1222	CONFIGURATION LEVEL NUMBER	X	n..2	
7083	CONFIGURATION OPERATION CODE	X	an..3	

**IMD** ITEM DESCRIPTION  
**Function:** A segment to describe the product or service being reported. The segment may be used for specification of the use of the product (e.g. if the product is consumed, produced etc.).  
**Classification:** Optional (O1)  
**Comments:** *For specification of inductive and capacitive reactive power:*

- For netted time series use signed quantities in the QTY segment.
- For time series with only inductive or capacitive reactive power use the code 118 in DE 7081 combined with DE 7009 and always positive values in QTY.

**Example:** IMD++118+E01::260'

Electrical characteristic >

Ref.	Name	Cl.	Form.	Description
7077	ITEM DESCRIPTION TYPE, CODED	X	an..3	<b>Code:</b>
C272 7081	ITEM CHARACTERISTIC Item characteristic code	R R	an..3	<b>Code:</b> 118 Electrical (Code indicating the product's electrical characteristics)
1131 3055	Code list identification code Code list responsible agency code	X X	an..3 an..3	
C273 7009	ITEM DESCRIPTION Item description identification	R R	an..17	<b>Code:</b> <i>Electrical characteristic:</i> E01 Inductive E02 Capacitive
1131 3055	Code list identification code Code list responsible agency code	X R	an..3 an..3	<b>Codes:</b> 260 ebIX
7008 7008 3453	Item description Item description Language name code	X X X	an..256 an..256 an..3	
7383	SURFACE/LAYER CODE	X	an..3	

**DTM** Date/time/period  
**Function:** A segment to specify dates associated with the time series.  
**Classification:** Optional (O2).  
**Comments:**

- Time zone is defined in DTM / SG 0.
- “354, Activity date range” is used for the observation length, instead of a specification of the start and end date/time in the detail section of the message. If this option is used the format qualifier used should be 806.
- The end period should be “exclusive”, e.g. the whole day and night of July 5<sup>th</sup>, 2002 is expressed as 200207050000200207060000.

**Example:** DTM+324:200207050000200207060000:203'

Observation length  
Processing period

Ref.	Name	Cl.	Form.	Description
C507 2005	DATE/TIME/PERIOD Date or time or period function code qualifier	M M	an..3	<b>Codes:</b> 324 Processing period 354 Observation length (EDIFACT term: “Activity period date range”)
2380	Date or time or period value	R	an..35	Date, time or period
2379	Date or time or period format code	R	an..3	<b>Codes:</b> 710 CCYYMM-CCYYMM, without hyphen (324) 719 CCYYMMDDHHmm- CCYYMMDDHHmm, without hyphen (324) 806 Number of minutes (354)



**STS** Status  
**Function:** A segment giving the status for the time series being reported, such as metered, estimated or corrected.  
**Classification:** Optional (O2).  
**Comments:**

- The code “260, ebIX” in DE 3055 shall be used together with “E-codes”.
- C555 only used in combination to “E01, Answer”
- Red italic text are under discussion

**Example:** STS+7++E03::260’

Status for answer

Ref.	Name	Cl.	Form.	Description
C601	STATUS CATEGORY	R		
9015	Status category code	M	an..3	<b>Code:</b> 7 Transaction E01 Answer
1131	Code list qualifier	X	an..17	
3055	Code list responsible agency, coded	D	an..3	<b>Code:</b> 260 ebIX
C555	STATUS	D		
4405	Status description code	R	an..3	<b>Code:</b> 41 Rejected
1131	Code list qualifier	X	an..17	
3055	Code list responsible agency, coded	X	an..3	
4404	Status description	X	an..35	
C556	STATUS REASON	R		

Reason for transaction Reason for answer	>	9013	Status reason description code	M	an..3	<p><b>Codes:</b></p> <p><i>Transaction:</i></p> <p>E01 Move</p> <p>E02 New installation</p> <p>E03 Change of supplier</p> <p>E04 Temporary supply</p> <p>E06 Unrequested Change of supplier (to default supplier or supplier of last resort).</p> <p>E20 End of supply</p> <p>E21 Change of customer</p> <p>E23 Periodic meter reading</p> <p>E24 Change of meter characteristic (incl. meter change), last stand</p> <p>E25 Change of meter characteristic (incl. meter change), first stand</p> <p>E28 Profile maintenance</p> <p>E30 Historical data</p> <p>E35 Combined customer &amp; supplier switch</p> <p>E40 Switch on drop</p> <p>E43 Reconciliation</p> <p>E44 Settlement</p> <p><i>Answer:</i></p> <p>E10 Installation address or metering point not identifiable (Rejection)</p> <p>E16 Unauthorised Balance supplier (Rejection)</p> <p>E18 Unauthorised Balance responsible party (Rejection)</p> <p>E29 Product code unknown or not related to metering point (Rejection)</p> <p><i>E46 Meter stand and metering date do not correspond (Rejection)</i></p> <p><i>E47 No ongoing switch for metering point (Rejection)</i></p> <p>E49 Metering grid area not identifiable (Rejection)</p> <p><i>E50 Invalid period (Rejection)</i></p> <p><i>E51 Invalid number of decimals (Rejection)</i></p> <p><i>E52 Invalid load profile (Rejection)</i></p>
		1131	Code list qualifier	X	an..17	
		3055	Code list responsible agency, coded	R	an..3	<p><b>Codes:</b></p> <p>260 ebIX</p>
		9012	Status reason description	X	an..256	
		C556	STATUS REASON	X		
		9013	Status reason description code	X	an..3	
		1131	Code list qualifier	X	an..17	
		3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	X	an..3	
	9012	Status reason description	X	an..256	

**MEA** Measurements  
**Function:** A segment for specifying physical measurements or measurement unit connected to the time series.  
**Classification:** Dependent (D1).  
**Comments:**

- Measurement unit for quantities are either defined in MEA for the whole detail section or in QTY for each quantity.

**Example:** MEA+AAZ++MWH'

Measure unit >

Ref.	Name	Cl.	Form.	Description
6311	MEASUREMENT PURPOSE CODE QUALIFIER	M	an..3	<b>Code:</b> AAZ Handling unit measurement
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	
C174	VALUE/RANGE	R		
6411	Measurement unit code	M	an..3	<b>Code:</b> <i>Power:</i> KVR kvar (Kilovar) KWT kW (Kilowatt) MAW MW (Megawatt) MVA MVA (Megavolt-ampere) Z03 MVA (MegaVolt-Ampere reactive power) <i>Energy:</i> 3B MJ (Megajoule ) GWH GWh (Gigawatt-hour) KWH kWh (Kilowatt-hour) K3 kVAh (KiloVolt-Ampere reactive hour) - (also to be used for kVAh/h) MWH MWh (Megawatt-hour) Z05 MW/Hz (Frequency adjustment) <i>Miscellaneous:</i> MTQ Cubic metre
6314	Measure	X	an..18	
6162	Range minimum quantity	X	n..18	
6152	Range maximum quantity	X	n..18	
6432	Significant digits quantity	X	n..2	
7383	SURFACE OR LAYER CODE	X	an..3	



## MESSAGE: UTILTS

SG 6

**Function:** A group of segments for specifying any references and associated dates valid for the current time series.  
**Classification:** Dependent (O2)  
**Comments:**  
**Segments:** RFF, DTM

**RFF** Reference  
**Function:** A segment identifying any references related to the current time series.  
**Classification:** Mandatory (M2)  
**Comments:**

- TN is used for answers/acknowledgements
- Use either MG or SE for identification of a meter

**Example:** RFF+MG:012345'

Ref.	Name	Cl.	Form.	Description
C506	REFERENCE	M1		
1153	Reference function code qualifier	M	an..3	<b>Code:</b> MG Meter unit number (for other identification systems than for EAN GSAI) SE Meter serial number (for EAN GSAI identification system) TN Transaction reference number Z01 Virtual meter unit number
1154	Reference identifier	R	an..35	Meter id Reference to Transaction id
1156	Line number	X	an..6	
4000	Reference version identifier	X	an..35	
1060	Revision number	X	an..6	

Meter id >  
Reference to transaction id



**MESSAGE: UTILTS**

**SG 7**

**Function:** A group of segments providing characteristics and characteristic details connected to the current time series.  
**Classification:** Optional (O4)  
**Comments:**  
**Segments:** CCI, CAV

**CCI** CHARACTERISTIC/CLASS ID  
**Function:** A segment to identify characteristic and/or the characteristic name and characteristic relevance for the time series.  
**Classification:** Mandatory (M1)  
**Comments:**  
**Example:** CCI++E01::260'

Standard load profile  
 Settlement method  
 Metering method  
 Type of metering point

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, coded	X	an..3	
6155	Non-discrete measurement name code	X	an..17	
6154	Non-discrete measurement name	X	an..70	
C240	PRODUCT CHARACTERISTIC	R		
> 7037	Characteristic description code	M	an..17	<b>Code:</b> E01 Standard load profile E02 Settlement method E08 Metering method E12 Type of metering point
1131	Code list identification code	X	an..3	
3055	Code list responsible agency code	R	an..3	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 shall be used if the codes used are taken from a national code list.

**Example:** CAV+A2:TNT:260'

Character-  
istic value,  
coded

Ref.	Name	Cl.	Form.	Description
C889	CHARACTERISTIC VALUE	M1		
7111	Characteristic value, coded	R	an..3	<i>Standard load profile:</i> Use national code list  <i>Settlement method:</i> E01 Profiled E02 Non-profiled  <i>Metering method:</i> E13 Continuous E14 Non-continuous E16 Not metered  <i>Type of metering point:</i> E17 Consumption E18 Production E19 Combined (Consumption and Production) E20 Exchange
1131	Code list identification code	R	an..3	<b>Codes:</b> 293 DE, VDEW BEL Belgium national standard DPO Dutch Profile Organisation EKS Elkraft system ELT Eltra SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät
3055	Code list responsible agency code	R	an..3	<b>Codes:</b> 260 ebIX
7110	Characteristic value	X	an..35	
7110	Characteristic value	X	an..35	



**MESSAGE: UTILTS**

**SG 8**

**Function:** A group of segments providing details of the time series.  
**Classification:** Optional (O99999).  
**Comments:**  
**Segments:** SEQ, DTM, RFF, PCD, SG9, SG11

**SEQ** Sequence details  
**Function:** A segment to identify the sequence of the observations in a time series.  
**Classification:** Mandatory (M1).  
**Comments:**  
**Example:** SEQ++1'

Observation id

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	Observation id
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	



Calculation date/time/period >

Meter id >

Register id

**DTM** Date/time/period  
**Function:** A segment to specify a date or a period identifying a new observation in a time series.  
**Classification:** Optional (O1).  
**Comments:**

- Time zone is defined in DTM / SG 0.
- “257, Calculation date/time/period” is used for Reconciliation price period.
- The end period should be “exclusive”, e.g. July 2002 is expressed as 200207200208.

**Example:** DTM+257:200206200207:710'

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date or time or period function code qualifier	M	an..3	<b>Codes:</b> 257 Calculation date/time/period
2380	Date or time or period value	R	an..35	Date, time or period
2379	Date or time or period format code	R	an..3	<b>Codes:</b> 710 CCYYMM-CCYYMM, without hyphen (257)

**RFF** Reference  
**Function:** A segment to specify references connected to the observations.  
**Classification:** Optional (O1)  
**Comments:**

- Use either MG or SE for identification of a meter

**Example:** RFF+AES:198734'

Ref.	Name	Cl.	Form.	Description
C506	REFERENCE	M1		
1153	Reference function code qualifier	M	an..3	<b>Code:</b> MG Meter unit number (for other identification systems than for EAN GSAI) SE Meter serial number (for EAN GSAI identification system) AES Register id (EDIFACT term: “Primary reference”) Z01 Virtual meter unit number
1154	Reference identifier	R	an..35	Register id
1156	Line number	X	an..6	
4000	Reference version identifier	X	an..35	
1060	Revision number	X	an..6	

**PCD** Percentage details  
**Function:** A segment providing observations of percentages in a time series.  
**Classification:** Optional (O1)  
**Comments:**  
**Example:** PCD+77:32'

Complete-  
 ness per-  
 centage for  
 aggregated  
 data

Ref.	Name	Cl.	Form.	Description	
C501	PERCENTAGE DETAILS	M1			
5245	Percentage type code qualifier	M	an..3	<b>Codes:</b> 77 Completeness percentage for aggregated data (EDIFACT term "Percent of total ")	
5482	Percentage	R	n..10		Percentage
5249	Percentage basis identification code	X	an..3		
1131	Code list identification code	X	an..17		
3055	Code list responsible agency code	X	an..3		
4405	STATUS DESCRIPTION CODE	X	1 an..3		



**MESSAGE: UTILTS**

**SG 9**

**Function:** A group of segments providing characteristics and characteristic details connected to the observations, such as the number of digits and the constant of a meter or a register.

**Classification:** Optional (O2)

**Comments:**

**Segments:** CCI, CAV

**CCI** CHARACTERISTIC/CLASS ID

**Function:** A segment to identify characteristic and/or the characteristic name and characteristic relevance for the observations.

**Classification:** Mandatory (M1)

**Comments:**

**Example:** CCI++E07::260'

Meter time  
frame  
Standard  
load  
profile

>

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, coded	X	an..3	
6155	Non-discrete measurement name code	X	an..17	
6154	Non-discrete measurement name	X	an..70	
C240	PRODUCT CHARACTERISTIC	R		
7037	Characteristic description code	M	an..17	<b>Codes:</b> E01 Standard load profile E07 Meter time frame (code defining different time-periods for different registers)
1131	Code list identification code	X	an..3	
3055	Code list responsible agency code	R	an..3	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:**  
**Example:** CAV+A2:TNT:260'

Meter time  
frame  
Standard  
load  
profile

Ref.	Name	Cl.	Form.	Description
C889	CHARACTERISTIC VALUE	M1		
7111	Characteristic value, coded	R	an..3	<b>Codes:</b> <i>Standard load profile:</i> Use national code list  <i>Meter time frame (1131 not used):</i> E10 Low E11 High E12 Peak Or a national code used together with a code list responsible in 1131.
1131	Code list identification code	D	an..3	<b>Codes:</b> 293 DE, VDEW BEL Belgium national standard EKS Elkraft system ELT Eltra SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät TNT TenneT
3055	Code list responsible agency code	R	an..3	<b>Codes:</b> 260 ebIX
7110	Characteristic value	X	an..35	
7110	Characteristic value	X	an..35	



## MESSAGE: UTILTS

SG 11

**Function:** A group of segments providing observation of quantities with related characteristics and statuses, in a time series.  
**Classification:** Optional (O99).  
**Comments:**  
**Segments:** QTY, DTM, STS

**QTY** Quantity  
**Function:** A segment identifying the quantity details in a time series.  
**Classification:** Mandatory (M1).  
**Comments:**

- 6411 is only used if not stated in MEA.
- Code 220 only used for meter stands.

**Example:** QTY+31:90:KWH'

Quantity type

>

Quantity Measurement unit

>

Ref.	Name	Cl.	Form.	Description
C186	QUANTITY DETAILS	M		
6063	Quantity type code qualifier	M	an..3	<b>Codes:</b> 31 Estimated annual volume 135 Period quantity, planned 136 Period quantity, reached 220 Meter reading 221 Maximum requestable quantity 260 Delivered quantity balance Z01 Period quantity, calculated (for settlement and reconciliation) Z02 Estimated monthly volume
6060	Quantity	M	an..35	Quantity
6411	Measurement unit code	D	an..3	<b>Codes:</b> <i>Power:</i> KVR kvar (Kilovar) KWT kW (Kilowatt) MAW MW (Megawatt) <i>Energy:</i> 3B MJ (Megajoule ) GWH GWh (Gigawatt-hour) KWH kWh (Kilowatt-hour) K3 kVArh (KiloVolt-Ampere reactive hour) - <i>(also to be used for kVArh/h)</i> MWH MWh (Megawatt-hour) <i>Miscellaneous:</i> MTQ Cubic metre

**DTM** Date/time/period  
**Function:** A segment to specify a date or a period related to the previous quantity.  
**Classification:** Optional (O1).  
**Comments:**

- 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'

Date/time/  
 period for  
 quantity

Ref.	Name	Cl.	Form.	Description
C507 2005	DATE/TIME/PERIOD Date or time or period function code qualifier	M M	an..3	<b>Codes:</b> 157 Validity start date (31) 324 Processing date/period (135, 136) 367 Previous meter reading date (220) 368 Latest meter reading date (220)
2380	Date or time or period value	R	an..35	Date, time or period
2379	Date or time or period format code	R	an..3	<b>Codes:</b> 203 CCYYMMDDHHmm (157, 367, 368) 719 CCYYMMDDHHmm- CCYYMMDDHHmm, without hyphen (324)

**STS** Status

**Function:** A segment giving the status for the quantity, e.g. metered, estimated or corrected.

**Classification:** Required (O1).

**Comments:** 4405:

- Codes are EDIFACT codes. The interpretation of the codes (unauthorised etc.) is specific for the power sector (Ediel).
- Code 86 is only used in addition to code 81 (in that case SG8 will appear twice in the message: one meter stand with code 86 and one switch stand with code 81).
- Code 102 is only used in addition to code 81 (in that case SG8 will appear twice in the message: one meter stand with code 102 and one switch stand with code 81).

**Example:** STS+8+22'

Meter reading quality

Ref.	Name	Cl.	Form.	Description
C601 9015	STATUS CATEGORY Status category code	R M	an..3	<b>Codes:</b> 8 Meter reading quality
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..17 an..3	
C555 4405	STATUS Status description code	R M	an..3	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..17 an..3	<b>Codes:</b> <i>Volumes:</i> 36 Revised 46 Non existent (EDIFACT term: Does not exist) 56 Estimated 81 Metered (EDIFACT term: Definitive) 121 Complete Z01 Adjusted <i>Meter stands:</i> 22 Unauthorised (EDIFACT term: Subject to agreed condition) 36 Revised 46 Non existent (EDIFACT term: Does not exist) 56 Estimated 81 Switch stand (EDIFACT term: Definitive) 86 Authorised (EDIFACT term: Ratified) 102 Negotiated between partners (EDIFACT term: Settled)
4404	Status description	X	an..35	
C556 9013	STATUS REASON Status reason description code	X X	an..3	

	1131	Code list qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17	
	3055	Code list responsible agency, coded	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 qualifier	X	an..17		
3055	Code list responsible agency, coded	X	an..3		
9012	Status reason description	X	an..256		





## MESSAGE: UTILTS

SG 12

**Function:** A group of segments providing characteristics and characteristic details connected to the quantity.  
**Classification:** Optional (O1)  
**Comments:** **NOTE:** This segment group is under discussion and might be removed – If removed the meter time frame will be placed in SG9/CCI+CAV  
**Segments:** CCI, CAV

**CCI** CHARACTERISTIC/CLASS ID  
**Function:** A segment to identify characteristic and/or the characteristic name and characteristic relevance for the quantity.  
**Classification:** Mandatory (M1)  
**Comments:**  
**Example:** CCI++E07::260'

Meter time frame

>

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, coded	X	an..3	
6155	Non-discrete measurement name code	X	an..17	
6154	Non-discrete measurement name	X	an..70	
C240	PRODUCT CHARACTERISTIC	R		
7037	Characteristic description code	M	an..17	<b>Codes:</b> E07 Meter time frame (code defining different time-periods for different registers)
1131	Code list identification code	X	an..3	
3055	Code list responsible agency code	R	an..3	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:**  
**Example:** CAV+A2:TNT:260'

Ref.	Name	Cl.	Form.	Description
C889	CHARACTERISTIC VALUE	M1		
7111	Characteristic value, coded	R	an..3	<b>Codes:</b> <i>Meter time frame:</i> E10 Low E11 High
1131	Code list identification code	X	an..3	
3055	Code list responsible agency code	R	an..3	<b>Codes:</b> 260 ebIX
7110	Characteristic value	X	an..35	
7110	Characteristic value	X	an..35	

Meter time frame >



**MESSAGE: UTILTS**

**SG 13**

**Function:** A group of segments providing one or more prices connected to the previous quantity with related currency.  
**Classification:** Optional (O1)  
**Comments:**  
**Segments:** PRI

**PRI** Price details  
**Function:** A segment identifying the price details.  
**Classification:** Mandatory (M1).  
**Comments:** •  
**Example:** PRI+CAL:129.23451:::KWH '

Calculation price >

Ref.	Name	Cl.	Form.	Description
C509	PRICE INFORMATION	R		
5125	Price code qualifier	M	an..3	<b>Code:</b> CAL Calculation price
5118	Price amount	R	n..15	Price
5375	Price type code	X	an..3	
5387	Price specification code	X	an..3	
5284	Unit price basis quantity	X	n..9	
6411	Measure unit code	R	an..3	<b>Code:</b> KWH Kilo Watt-hour (kWh)
5213	SUB-LINE ITEM PRICE CHANGE OPERATION CODE	X	an..3	



## MESSAGE: UTILTS

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 – MESSAGE EXAMPLES**

To be completed.