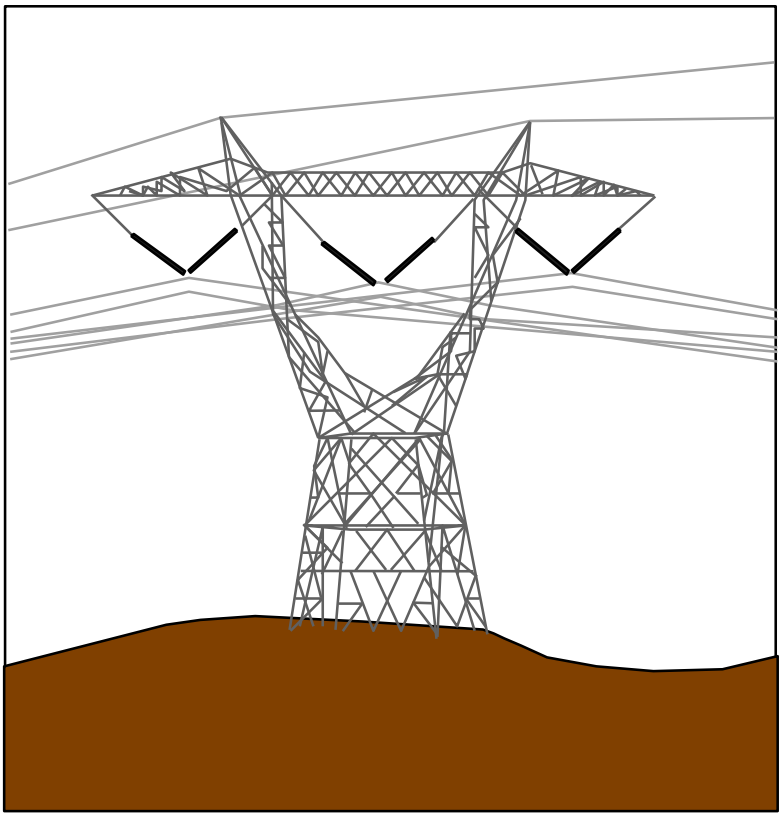
Message handbook for Ediel

Implementation guide for PRODUCT DATA MESSAGE



EDIFACT-message:	Extended PRODAT
EDIFACT-version:	D
EDIFACT-release:	97A
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1. INTRODUCTION

This document is an Implementation Guide (IG) for the Product data message, to be used in the power industry. The IG describes the EDIFACT-message PRODAT (Product data message) in detail. The message is sent between parties in the power industry and is used for submission of master data regarding end-users.

Note: This PRODAT message is extended in comparison to the EDIFACT UNSM message, with increased repetitions of segment group 8 (increased from 999 to 99.999 repetitions).

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. In the future several new IG's are planned.

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

2. GENERAL DESCRIPTION OF THE PRODAT MESSAGE

2.1. Functional Definition

A message to submit master data - a set of data that is rarely changed - to identify and describe products a supplier offers to his (potential) customer or buyer. This information of long validity includes technical and functional product description but not commercial terms and conditions. This message can be used as well to update the information on a previously sent PRODAT message.

2.2. Principles

This message provides product identification and description on the full or partial range of deliverable goods a supplier offers to his customers. It might be offered to a single customer, a multitude of customers and to agents as well.

The information enables customers to select goods according to appropriate needs. To achieve this the subsequent details may be provided on specified goods:

- products characteristics
- technical data
- utilisation description
- utilisation requirements
- handling information

The information may be provided either structured or in free format.

This message provides capability to identify technical information being mandatory for ordering. Descriptive and/or identifying parts of this message can be copied into orders as required.

The information is transferred as:

- General information
- Reference to end-user
- Information about end-users Serial Id.

3. REFERENCES

This Implementation guide is based on the following documents.

[1] **Norsk veiledning i bruk av EDIFACT**, version 2.0, November 1991 with addition of January 1994.

[2] **UN/EDIFACT Draft directory**, D.97A

[3] **Message handbook for Ediel, Functional description**

[4] **ISO 9735**, version 2, 1990.11.01

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.97A [2]
2. The Functional description [3]
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.

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. Corrections from earlier versions

Corrections from version 4.0.A:

* Addition of Installation as an optional attribute set for the message function Z14 Access to metering data confirmed/denied

Corrections from version 3.1.A:

* Updates related to implementation of EU regulation 2023/1162.
* Addition of a new message functions in SG0/BGM
  - **Z13** Request for access to metering data
  - **Z14** Access to metering data confirmed/denied
  - **Z15** End of active permission
  - **Z18** Request end of exchange of metering data
* Addition of "Report end date" and "Permission creation timestamp" in SG8/DTM
* New codes are added to "SG14/CAV/ C889 7111, Reason for transaction"
  - **Z96** Rejected by Operator
  - **S17** Start or end of data sharing
  - **S18** Historical metering data
* Addition of the following attributes in SG14/CCI, and their codes in SG14/CAV
  - *Flow direction* (E17, E18, E19)
  - *Permission status* (A74, A75, A76, A13)
  - *Permission purpose* (B71, B72, B73, B74, B75, B76)
  - *Permission end reason* (B77, B78, B79, B80, E37, E66)
  - For Product code in SG14/CCI a new attribute can be specified in SG14/CAV:
    - Energy product, e.g. 8716867000030 for Active energy.
* Addition of code *Z09 Permission id* in SG16/RFF.
* Added new and missing attributes in the "Cue list" (chapter 6.3).

* The classifications for new attributes in the list of Attributes and message functions in chapter 6.4 are added based on the Swedish implementation of the new message functions (Z13, Z14, Z15, Z18).

Corrections from version 3.0.A:
* Renamed Method for balance settlement code:
  Z32 from “Hourly based settlement” to “Continuous based settlement”
* Addition of new Measuring method code:
  Z04 15 minutes

Corrections from version 2.9.A:
* Addition of code *Z08 Calorific Value Area* in SG16/RFF and related usage in chapter **6.4** Attributes and Message functions

Corrections from version 2.8.A:
* Addition of code *Z07 Metering Point identification* in SG16/RFF
* Addition of code *Z70 Obligation to receive production* in SG14/CAV (Reason for transaction)
* Changed "Contract Start date" from “Not used” to “Optional” for PRODAT Z09

Corrections from version 2.7.B:
* Addition of code *Z03 Defined by Metering point administrator* in SG14/CAV
* Addition of *Measuring method* in PRODAT/Z09

Corrections from version 2.7.A:
* Textual corrections, such as spelling errors and alignment of page numbers.

Corrections from version 2.6.B:
* Addition of codes in SG14/CCI:
  Z20 Standard Industrial Classification Code
  Z21 Electricity fee, percentage
* SG14 is extended to 19 repetitions
* Addition of new *Party connected to grid status codes* in SG14/CAV
  Z42 Move from one metering point to another
  Z43 Additional metering point
* Addition of a new message function in SG0/BGM
  Z12 Information of move

Corrections from version 2.5.B:
* The maximum number of repetitions of segment group 8 has been increased from 999 to 99.999 repetitions.
- Two new *Reason for transaction* codes have been added:
  Z28 Portfolio overview
  Z29 Move without change of supplier
- 8 new *Reason for rejection* codes have been added:
  E14 Other reason
  E22 Metering point blocked for switch
  Z60 Error in date of birth or organisation Id
  Z61 Missing switch stand

Z62 Error in switch stand
Z63 Illegal end date
Z64 Ongoing switch

- One new party qualifier added:
  COT Involved party (New end-user)

Corrections from version 2.5.A:

- SG8/DTM is changed to a maximum of 5 repetitions, according to the UN/EDIFACT D.97A directory.

Corrections from version 2.4.F:

- The code "260, ebIX" is added to SG17/C082 3055.
- The code "52, Latest meter reading date" is added to SG8/DTM/C507 2005, with extension of the related repetitions of SG8 to maximum 6 occurrences.
- The code "Z18, Meter reading transmission method" is added to SG14/CCI. In addition the following related codes are added to SG14/CAV:
  Z50 Automatic meter reading
  Z51 Manually read
  Z52 Unread
- The code "Z19, Reason for rejection" is added to SG14/CCI, with extension of the related repetitions of SG14 to maximum 17 occurrences. In addition the following related codes are added to SG14/CAV:
  E10 Installation address or metering point not identifiable
  E17 Requested switch date not within time limits
  E50 Invalid period
- The code "AL, Cellular phone" is added to SG18/COM.
- The code "TN, Transaction reference number" is added to SG16/RFF, with extension of the related repetitions of SG16 to maximum 10 occurrences.
- The data element 1229 is opened in SG8/LIN for sending a "Status for answer", using the following codes:
  5 Accepted without amendment
  7 Not accepted
- The new elements above have been added to chapter "6.4 Attributes and Message functions".

Corrections from version 2.4.E:

- The code "354, Observation length" and related date formats is added to SG8/DTM/C507 2005.
- The classification of SG17/NAD is changed from Dependent to Optional for Z06, Z09 and Z10.
- The following classifications have been changed in 6.4 Attributes and Message functions:

Contract Start Date	changed to O for Z01
Date of birth (for end-user)	changed to O for Z02
Estimated period (annual) volume	changed to O for Z02
Reason for transaction	changed to O for Z01 and Z02
Reference to line item	changed to O for Z05, Z06, Z08, Z09 and Z10

- Observation Length is added to the "Cue list" (chapter 6.3) and "Attributes and Message functions" (chapter 6.4)

Corrections from version 2.4.D:

- The code "SE2, Swedish personal identity number" is added to SG17/NAD/C082 1131.

Corrections from version 2.4.C:

- Addition of code "Z17, Party connected to grid status" in CCI/6313
- Addition of code "Z41, Death" in CCI/6313

Corrections from version 2.4.B:

- New codes are added to "SG14/CAV/ C889 7111, Reason for transaction" and "SG14/CAV/ C889 3055, Code list responsible agency".
- The attributes "Meter reading frequency" and "Reason for transaction" are opened for usage ("O") in Message function Z10, "Change of Meter".

Corrections from version 2.4.A:

- The code "MTQ, m3, Cubic metre" is added to SG12/QTY/6411, Measure unit qualifier
- The comment "Code «MTQ» in data element 6411 is only used in the gas industry" is added to the segment description.

Corrections from version 2.3.K:

- The usage of data element UNH/S009 0057 is changed. It is now possible to add a version number of the relevant national user guide.
- The code "305, ETSO (European Transmission System Operator)" is added as code list responsible together with EAN, where relevant.
- The code "D, Disconnectable installation category D" is added to Installation status in SG14/CCI+CAV

Corrections from version 2.3.J:

- A reference to "ISO 3166-1 two alpha country code" is added to NAD.

Corrections from version 2.3.I:

- The attribute "Reason for contract closure" has changed name to "Reason for transaction". This is in line with the Ediel Change of Supplier (CoS) project and the proposal for an IG for UTILMD. The advantage is that the attribute can be used for all message functions (Z03 – Z10).
- The code "Z27, Change of balance responsible" is added to the attribute "Reason for transaction".

Corrections from version 2.3.H:

- "Meter reading frequency" added as optional (O), in the attribute table for Z02 and Z06
- "Balance responsible" added as optional (O), in the attribute table for Z10
- The code Z26 "Change to default supplier" is added to the code list for "Reason for contract closure" in SG14/CAV.

Corrections from version 2.3.G:

- The attribute "Method for balance settlement" is extended with an "O" (Optional) for the Z10 function (change of meter).
- The attribute "Suppliers contract no." is extended with an "O" (Optional) for the Z09 function (update of master data).

- The example is corrected. The identifications in LIN and NAT/IT are now the same.

Corrections from version 2.3.F:
- The code “Z05 - Estimated annual invoicing volume” is added to SG12/QTY.
- The codes “Z24 - Cancellation of change procedure” and “Z25 - Unspecified reason” are added to “Reason for contract closure” in SG14/CAV.
- The code “Z33 - Profiled settlement with single tariff” is added to “Method for balance settlement” in SG14/CAV.

Corrections from version 2.3.E:
- SG8/DTM is changed to have maximum 5 repetitions (according to EDIFACT).
- The code “Z23, Change of customer and supplier” is added to SG14/CAV.
- The classification of “Reason for contract closure” is changed to “O” for Z04.

Corrections from version 2.3.D:
- The classification of “Validity start date” is changed to “O” for function Z10.
- The classification of “End user” is changed from “O” to “R” for function Z08.
- The classification of “Net area” is changed to “O” for function Z01.
- The classification of Constant, Old constant, Number of digits and Old Number of digits are changed from “R” to “O” for function Z10
- The classification of Meter time frame is changed to “O” for the functions Z02 and Z10
- The classification of Method for balance settlement is changed to “O” for the functions Z03 and Z09
- The code “157, Validity start date” is added to DTM/SG8 for the functions Z06, Z09 and Z10.
- The classification of DTM/SG8 is changed from O5 to O6.
- The codes “GZ, Substitute supplier” and “SU, Supplier” are added to NAD/SG17.
- The classification of SG17 is changed from R6 to D8.

Corrections from version 2.3.C:
- The classification of “meter reading”, “meter reading date”, “old meter reading” and “old meter reading date” in function Z10 are changed from “R” to “O”.
- A chapter describing the use of the NAD segment in the detailed section (SG17) is added.
- New codes are added to data element C082 1131 and C082 3055 in the NAD segment in SG17.

Corrections from version 2.3.B:
- The EDIFACT directory is changed from D.96A to D.97A on the front page.

Corrections from version 2.3.A:
- The code “ACD - Additional reference number (Net-owner unspecified Id.)” is removed from the RFF segment in segment group 16.

5. SPECIAL CONDITIONS

5.1. Identification of parties in the NAD segment in the detailed section (SG17)

The following qualifiers should be used to identify parties in the NAD-segment in the detailed level (SG17).

C082 3039 (Party id identification)	**C082 1131 (Code list qualifier)**	**C082 3055 (Code list responsible)**
EAN International Location Number (ILN)	*Not used*	**9** EAN (European Article Numbering Association)
ETSO (European Transmission System Operator) Identification System (EIC)	*Not used*	**305** ETSO (European Transmission System Operator)
Company registration no. from «Foretaks-/Enhets-registeret» in Norway.	*Not used in the detail section*	**82** NO, Enhetsregisteret ved Bronnoysundregisterne. The co-ordinating register for companies and business units of companies at the Bronnoysund register centre.
Party ID	*Not used*	**89** Assigned by distributor (net-owner)
Party ID	*Not used*	**90** Assigned by manufacturer (Supplier)
Company registration no.	**SE1** Swedish company registration number	**ZZZ** Ediel Nordic Forum
Personal identity number	**SE2** Swedish personal identity number	**ZZZ** Ediel Nordic Forum
Date of birth	**1** Date of birth	**ZZZ** Ediel Nordic Forum **260** ebIX
Company registration no.	*Not used*	**105** DK, Ministry of taxation, Central Customs and Tax Administration
Company registration no.	*Not used*	**220** FI, Finnish tax board
Party ID	**100** Enhanced party identification	**EDI** Other Id. than power plant
Party ID	**160** Party identification	**SM** Participant Id at Nord Pool ASA
Party ID	**160** Party identification	**SVK** Svenska Kraftnät
Party ID	**160** Party identification	**SLY** Finnish Electricity Association

6. OVERVIEW OF THE MESSAGE

6.1. Data model for the Product data message

Shown below is a data model for the Product data message:

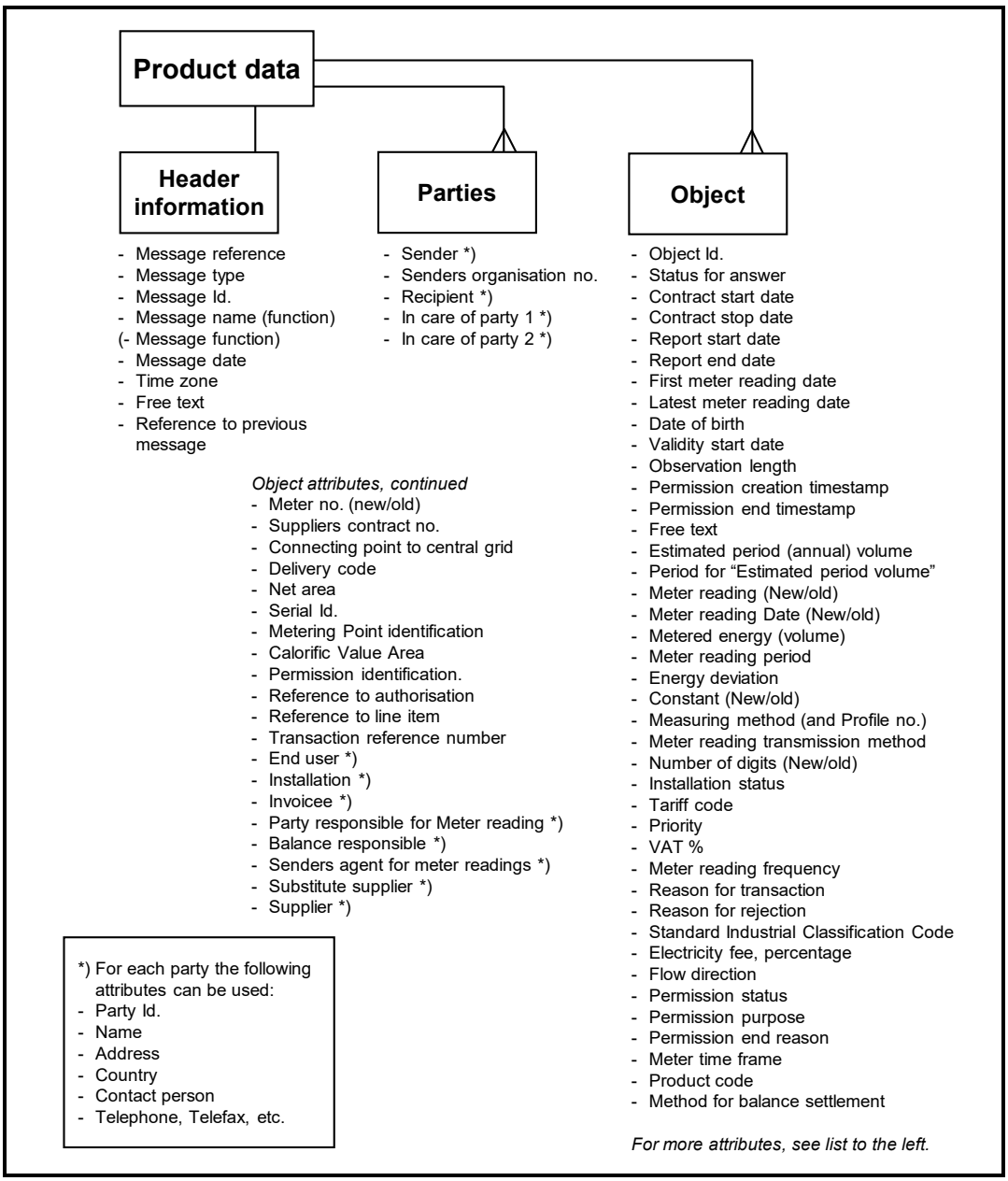

Figure 1 *Data model for the Product data message*

6.2. Message functions

The PRODAT message can be used for different purposes in the Power market. Below is shown a table describing the different functions available:

Code	Function	Parties
Z01	Request for end-user information from potential Supplier	Potential Supplier ==> Netowner
Z02	Answer on Request for end-user information	Netowner ==> Potential Supplier
Z03	Information about change of supplier	New Supplier ==> Netowner
Z04	Acknowledge on change of supplier (incl. update of master data)	Netowner ==> New Supplier
Z05	Acknowledge on change of supplier	Netowner ==> Old Supplier
Z06	Portfolio status (incl. update of master data)	Netowner ==> Supplier
Z08	Delivery contract closure	Supplier ==> Netowner
Z09	Update of Master data	Supplier ==> Netowner
Z10	Change of Meter	Netowner ==> Supplier
Z11	Meter information	Netowner ==> Supplier
Z12	Information of move	Netowner ==> Supplier
Z13	Request for access to metering data	ESCO ==> Netowner
Z14	Access to metering data confirmed/denied	Netowner ==> ESCO
Z15	End of active permission	Netowner ==> ESCO
Z18	Request end of exchange of metering data	ESCO ==> Netowner

6.3. Cue list

Below is a table describing the EDIFACT message and the relationships to the attributes in the data model.

Note: This PRODAT message is extended in comparison to the EDIFACT UNSM message, with increased repetitions of segment group 8 (increased from 999 to 99.999 repetitions).

General information about the message				
	UNH	M	1	Message reference Message type
	BGM	M	1	Message name (function) Message Id. (Message function)
	DTM	M	2	Message date Time zone
	FTX	O	1	Free text
References				
	SG 3	O	1	
	RFF	M	1	Reference to previous message
Parties				
	SG 4	R	4	
	NAD	M	1	Sender *) Recipient *) In care of party 1 *) In care of party 2 *)
Contact information				
	SG 5	O	1	
	CTA	M	1	Contact person
	COM	O	4	Telephone, fax, e-mail
Contact information				
	SG 6	O	1	
	RFF	M	1	Senders Organisation number
Detail section				
	SG 8	M	99.999	
	LIN	M	1	Object Id. Status for answer
	DTM	O	5	Contract start date Contract stop date Report start date Report end date First meter reading date Latest meter reading date Date of birth (for end-user) Validity start date Observation length Permission creation timestamp
	FTX	O	1	Free text

Meter reading			
SG 12	O	10	
QTY	M	1	Estimated period (annual) volume
			Meter reading (new/old)
			Metered energy (volume)
			Energy deviation
DTM	O	2	Period for “Estimated period volume”
			Meter reading date (new/old)
			Meter reading period
Characteristics			
SG 14	O	23	
CCI	M	1	Type of characteristic
CAV	R	1	Constant (new/old)
			Measuring method (and Profile number)
			Meter reading transmission method
			Number of digits (new/old)
			Installation Status
			Tariff code
			Priority
			VAT %
			Meter reading frequency
			Reason for transaction
			Method for balance settlement
			Product code
			Meter time frame
			Party connected to grid status
			Reason for rejection
			Standard Industrial Classification Code
			Electricity fee, percentage
			Flow direction
			Permission status
			Permission purpose
			Permission end reason
References			
SG 16	O	13	
RFF	M	1	Meter no. (new/old)
			Suppliers contract number
			Connecting point to central grid
			Delivery code
			Net area
			Serial Id.
			Metering Point identification
			Calorific Value Area
			Permission Id.
			Reference to authorisation
			Reference to line item
			Transaction reference number
End-user			
SG 17	D	8	

			NAD	M	1	End-user (Ultimate customer) *) Installation *) Invoicee (Party to whom an invoice is issued) *) Party responsible for Meter reading *) Balance responsible *) Senders agent for meter readings *) Substitute supplier *) Supplier*)
			Contact information			
			SG 18	O	1	
			CTA	M	1	Contact person
			COM	O	4	Telephone, telefax, e-mail
Message trailer						
			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. The attributes marked with *) includes the following “sub attributes”:

- Party Id.
- Party name
- Party address (Only in SG 17)
- Country

6.4. Attributes and Message functions

The PRODAT message can be used for different purposes in the Power market. Below is shown a table that describes which attributes that are used together with the different message functions:

Message function	**Z01**	**Z02**	**Z03**	**Z04**	**Z05**	**Z06**	**Z08**	**Z09**	**Z10**	**Z11**	**Z12**	**Z13**	**Z14**	**Z15**	**Z18**
Message reference	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Message type	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Message name (function)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Message Id.	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Message function	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Request for acknowledgement	O	O	O	O	O	O	O	O	O	O	O	R	R	R	R
Message date	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Time zone	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Free text (header)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Reference to previous message		O		O											
Sender *)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Senders organisation number	O		O												
Recipient *)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
In care of party 1 *)	O	O	O	O	O	O	O	O	O	O	O				
In care of party 2 *)	O	O	O	O	O	O	O	O	O	O	O				
Object Id.	O	R	O	R	R	R	R	R	R	R	R		O	R	R
Status for answer				O	O										
Contract start date	O		R	R		O		O			R				
Contract stop date			O	O	R	O	R	O							
Report start date				O								R	O		
Report end date												O	O		
First meter reading Date				O		O									
Latest meter reading Date				O		O									
Date of birth (for end-user)	O	O	O	O	O	O	O	O			O				
Validity start date						O		O	O						
Observation length				O		O			O				O		
Free text (for line item)	O	O	O	O	O	O	O	O	O	O	O				
Estimated period (annual) volume		O	O	R		O		O	O	O	O				

Message function	Z01	Z02	Z03	Z04	Z05	Z06	Z08	Z09	Z10	Z11	Z12	Z13	Z14	Z15	Z18
Period for “Estimated period volume”		O	O	O		O		O	O	O	O				
Meter reading						O			O	O					
Meter reading Date						O			O	R					
Old meter reading									O	O					
Old meter reading Date									O	R					
Permission creation timestamp													O	O	O
Permission end timestamp														R	R
Metered energy (volume)										R					
Meter reading period										R					
Energy deviation										O					
Constant				O		O			O						
Old Constant									O						
Measuring method (and Profile no.)		R	O	R		O		O	R			R	O		
Meter reading transmission method				O		O			O		O				
Number of digits				O		O			O						
Old Number of digits									O						
Installation status		O		O		O									
Tariff code				O		O									
Priority		O		O		O									
VAT %		O	O	O		O		O							
Meter reading frequency		O		O		O			O			R	O		
Reason for transaction	O	O	O	O	O	O	O	O	O		O	R	R	R	R
Transaction reference number				O	O										
Reason for rejection				O	O										
Flow direction												R	O		
Permission status													R	R	
Permission purpose												O	O		
Permission end reason														R	R
Meter time frame		O		O		O			O	O	O				
Party connected to grid status					O	O		O							
Method for balance settlement			O	O		O		O	O	O					
Standard Industrial Classification Code			O	O		O		O			O				
Electricity fee, percentage				O		O		O			O				

Message function	Z01	Z02	Z03	Z04	Z05	Z06	Z08	Z09	Z10	Z11	Z12	Z13	Z14	Z15	Z18
Product code			O	O	O	O	O	O	O	O					
Energy product												R	O		
Metering Point				O											
Calorific Value Area		O		O		O			O						
Meter no.	O		O	R	O	O	O		R	R	O				
Old Meter no.									R	O	O				
Suppliers contract no.			O	O	O	O	O	O		O	O				
Connecting point to central grid		O		O											
Delivery code			O	O		O									
Net area	O	O	O	O	O	O	O	O	O				O	R	R
Serial Id.		O	O	O	O	O	O	O	O						
Reference to authorisation	O		O		O		O					R			
Reference to line item	O	O	O	O	O	O	O	O	O			R	R	R	R
Permission Id													O	R	R
End-user (Ultimate customer) *)	R	R	R	R	R	O	R	O	O	R	R	R	O	R	R
Installation *)	O	O	O	O	O	O	O	O	O	O	O		O		
Invoicee *)			O	O	O	O	O	O							
Party responsible for Meter reading *)			O					O	O	O					
Balance responsible *)			O	O	O	O	O	O	O						
Senders agent for meter readings *)			O	O		O		O							
Substitute supplier *)		O		O		O		O							
Supplier*)		O		O		O		O							

The attributes marked with *) includes the following “sub attributes”:

- Party Id.
- Party name
- Party address (Only SG. 17)
- Country
- Contact person
- Telephone, Fax, etc.

6.5. Message diagram

The Message diagram below shows the subset of the standard EDIFACT message that is used in this IG. All segments and segment groups are shown according to the classification in this subset. For a complete overview of the EDIFACT standard message, please see the next chapter (segment table).

Note: This PRODAT message is extended in comparison to the EDIFACT UNSM message, with increased repetitions of segment group 8 (increased from 999 to 99.999 repetitions).

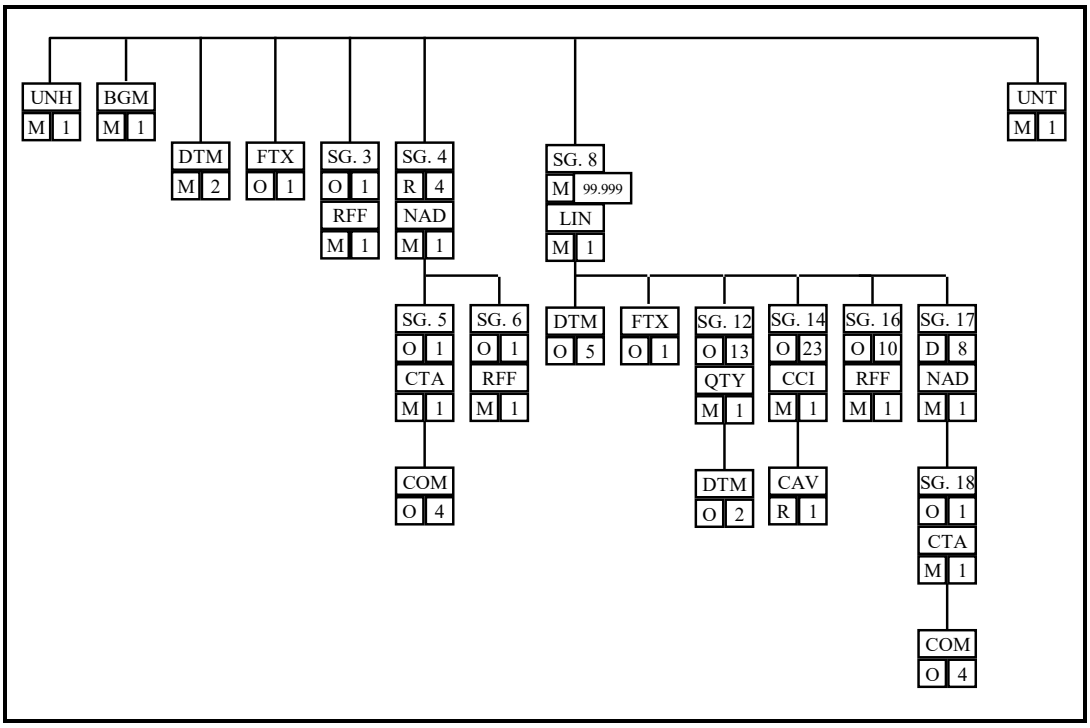

Figure 2 *Message diagram for Product data message*

6.6. Segment table

In this chapter the segment table for the Product data message (PRODAT) is shown by the way it is described in version D, release 97A of the EDIFACT directory. The segments and segment groups that are used in this IG are shown in bold type.

Note: This PRODAT message is extended in comparison to the EDIFACT UNSM message, with increased repetitions of segment group 8 (increased from 999 to 99.999 repetitions).

```
Tag Name                                      S   R

           HEADER SECTION

UNH Message header                            M   1
BGM Beginning of message                      M   1
DTM Date/time/period                          M   10
ALI Additional information                    C   5
IMD Item description                          C   10
FTX Free text                                 C   5
PGI Product group information                 C   10

    ----- Segment group 1  ------------------ C   10----------+
TRU Technical rules                           M   1           ¦
DTM Date/time/period                          C   1-----------+

    ----- Segment group 2  ------------------ C   10----------+
RCS Requirements and conditions               M   1           ¦
PIA Additional product id                     C   5-----------+

    ----- Segment group 3  ------------------ C   99----------+
RFF Reference                                 M   1           ¦
DTM Date/time/period                          C   5-----------+

    ----- Segment group 4  ------------------ C   99----------+
NAD Name and address                          M   1           ¦
                                                              ¦
    ----- Segment group 5  ------------------ C   5----------+¦
CTA Contact information                       M   1          ¦¦
COM Communication contact                     C   10---------+¦
                                                              ¦
    ----- Segment group 6  ------------------ C   5----------+¦
RFF Reference                                 M   1          ¦¦
DTM Date/time/period                          C   5-----------+

    ----- Segment group 7  ------------------ C   999---------+
CCI Characteristic/class id                   M   1           ¦
CAV Characteristic value                      C   10          ¦
MEA Measurements                              C   10----------+

           DETAIL SECTION

    ----- Segment group 8  ------------------ M   99.999------+
LIN Line item                                 M   1           ¦
```

```
PIA Additional product id                    C   10          ¦
DTM Date/time/period                         C   5           ¦
MEA Measurements                             C   10          ¦
HAN Handling instructions                    C   5           ¦
DOC Document/message details                 C   99          ¦
FTX Free text                                C   99          ¦
PGI Product group information                C   10          ¦
                                                             ¦
    ----- Segment group 9  ------------------ C   10---------+¦
IMD Item description                         M   1          ¦¦
FTX Free text                                C   99---------+¦
                                                             ¦
    ----- Segment group 10 ------------------ C   10---------+¦
TRU Technical rules                          M   1          ¦¦
DTM Date/time/period                         C   1----------+¦
                                                             ¦
    ----- Segment group 11 ------------------ C   10---------+¦
RCS Requirements and conditions              M   1          ¦¦
PIA Additional product id                    C   5----------+¦
                                                             ¦
    ----- Segment group 12 ------------------ C   10---------+¦
QTY Quantity                                 M   1          ¦¦
DTM Date/time/period                         C   5----------+¦
                                                             ¦
    ----- Segment group 13 ------------------ C   5----------+¦
PRI Price details                            M   1          ¦¦
CUX Currencies                               C   1          ¦¦
RNG Range details                            C   1----------+¦
                                                             ¦
    ----- Segment group 14 ------------------ C   999--------+¦
CCI Characteristic/class id                  M   1          ¦¦
CAV Characteristic value                     C   10         ¦¦
MEA Measurements                             C   10---------+¦
                                                             ¦
    ----- Segment group 15 ------------------ C   999--------+¦
ALI Additional information                   M   1          ¦¦
PCD Percentage details                       C   5----------+¦
                                                             ¦
    ----- Segment group 16 ------------------ C   99---------+¦
RFF Reference                                M   1          ¦¦
DTM Date/time/period                         C   5----------+¦
                                                             ¦
    ----- Segment group 17 ------------------ C   99---------+¦
NAD Name and address                         M   1          ¦¦
RFF Reference                                C   99         ¦¦
QTY Quantity                                 C   5          ¦¦
                                                            ¦¦
    ----- Segment group 18 ------------------ C   5---------+¦¦
CTA Contact information                      M   1         ¦¦¦
COM Communication contact                    C   10---------+¦
                                                             ¦
    ----- Segment group 19 ------------------ C   10---------+¦
DGS Dangerous goods                          M   1          ¦¦
QTY Quantity                                 C   1          ¦¦
FTX Free text                                C   5----------+¦
```

```
                                                          ¦
    ----- Segment group 20 ------------------ C   5----------+¦
PAC Package                                   M   1          ¦¦
MEA Measurements                              C   10         ¦¦
QTY Quantity                                  C   5          ¦¦
HAN Handling instructions                     C   5          ¦¦
PCI Package identification                    C   5----------+¦
                                                              ¦
    ----- Segment group 21 ------------------ C   999--------+¦
HYN Hierarchy information                     M   1          ¦¦
PIA Additional product id                     C   10         ¦¦
QTY Quantity                                  C   5          ¦¦
FTX Free text                                 C   99         ¦¦
                                                             ¦¦
    ----- Segment group 22 ------------------ C   999-------+¦¦
RFF Reference                                 M   1         ¦¦¦
DTM Date/time/period                          C   5---------+¦¦
                                                             ¦¦
    ----- Segment group 23 ------------------ C   99--------+¦¦
CCI Characteristic/class id                   M   1         ¦¦¦
CAV Characteristic value                      C   10        ¦¦¦
MEA Measurements                              C   10--------+¦¦
                                                             ¦¦
    ----- Segment group 24 ------------------ C   99--------+¦¦
NAD Name and address                          M   1         ¦¦¦
PIA Additional product id                     C   10        ¦¦¦
QTY Quantity                                  C   5         ¦¦¦
                                                            ¦¦¦
    ----- Segment group 25 ------------------ C   99-------+¦¦¦
CCI Characteristic/class id                   M   1        ¦¦¦¦
CAV Characteristic value                      C   99       ¦¦¦¦
MEA Measurements                              C   10----------+
UNT Message trailer                           M   1
```

6.7. Description of segments used

The segments and segment groups used in this IG are described below. The description is copied from version D, release 97A of the UN/EDIFACT directory. The way Ediel uses the segments are described in the next chapter.

Header section

UNH, Message header
A service segment starting and uniquely identifying a message. The message type code for the Product data message is PRODAT.

Note: Product data messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element 0065 PRODAT
0052 D
0054 97A
0051 UN

BGM, Beginning of message
A segment by which the sender must uniquely identify the Product Data Message by means of its name and number and when necessary its function. Data element 1225 may be used to identify updates to a previously sent PRODAT message.

DTM, Date/time/period
A segment specifying general dates and, when relevant, times related to the whole message. The segment must be specified at least once to identify the Product Data Message date. The Date/time/period segment within other Segment groups should be used whenever the date/time/period requires to be logically related to another specified data item, for example the availability date for a specified line item (SG8-DTM following LIN).

FTX, Free text
A segment with free text information, in coded or clear form, used when additional information is needed relevant for all products described in the actual message but cannot be accommodated within other segments. In computer to computer exchanges such text will normally require the receiver to process this segment manually.

Segment group 3: RFF
A group of segments for giving references and where necessary, their dates, relating to the whole message.

RFF, Reference
A segment identifying a reference by its type and number.

Segment group 4: NAD-SG5
A group of segments identifying the parties with associated information relevant to the whole message.

NAD, Name and address

A segment identifying names and addresses of the parties, in coded or clear form, and their functions relevant to the message. At least one NAD-segment should be provided, for example the manufacturer, the supplier or message generator. It is recommended that, if possible, only the coded form of the party ID should be specified.

Segment group 5: CTA-COM
A group of segments giving contact details of a specific person and, or department within the party identified in the NAD segment.

CTA, Contact information
A segment to identify a person and, or department, and their function, to whom communications should be directed.

COM, Communication contact
A segment to identify a communication type and number for the contact specified in the CTA segment.

Segment group 6: RFF
A group of segments used to provide references and where necessary, their dates, related to the party identified in the NAD segment.

RFF, Reference
A segment identifying a reference by its type and number.

Detail section

Segment group 8: LIN-DTM-FTX-SG12-SG13-SG14-SG16-SG17
A group of segments providing details of a single product. This segment group may be repeated to give subline details.

LIN, Line item
A segment identifying the line item by the line item number and the product by its item number. Detailed product description can be specified using the following segment group: SG9 (IMD-FTX). Data element 1229 may be used to identify the current line item updating the correspondent line item of a previously sent PRODAT message.

DTM, Date/time/period
A segment specifying date and time or period details relating to the line item only, for example the date of first or last availability of specified product.

FTX, Free text
A segment with free text information, in coded or clear form, used when additional information on the actual product is needed but cannot be accommodated within other segments (for free format product description FTX in segment group 9 is to be used only). In computer to computer exchanges such text will normally require the receiver to process this segment manually.

Segment group 12: QTY-DTM
A group of segments to provide quantity for the specified product and where relevant related date and time information for example minimum delivery batch, indication of manufacturer's capacity within a given period.

QTY, Quantity
A segment to specify quantities related to the product.

DTM, Date/time/period
A segment indicating that date or time details relate to the quantity, for example number of time units needed to manufacture the specified product quantity.

Segment group 14: CCI-CAV
A group of segments providing product characteristic and-product characteristic details.

CCI, Characteristic/class id
A segment to identify product characteristic and, or the characteristic name and characteristic relevance for the business process.

CAV, Characteristic value
A segment to specify common product characteristic by value in either coded form or in free format.

Segment group 16: RFF
A group of segments giving references related to the product specified in the LIN segment.

RFF, Reference
A segment identifying the reference related to the product by its number and type and where appropriate a line within a document.

Segment group 17: NAD
A group of segments identifying the parties with associated information.

NAD, Name and address
A segment identifying names and addresses of the parties related to the identified product, in coded or clear form, and their functions for example supplier, warehouse, service. It is recommended that, if possible, only the coded form of the party ID should be specified.

Segment group 18: CTA-COM
A group of segments giving contact details of a specific person and, or department within the party identified in the NAD segment.

CTA, Contact information
A segment to identify a person and, or department, and their function, to whom communications should be directed.

COM, Communication contact
A segment to identify a communication type and number for the contact specified in the CTA segment.

UNT, Message trailer
A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

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 [3].

Note: This PRODAT message is extended in comparison to the EDIFACT UNSM message, with increased repetitions of segment group 8 (increased from 999 to 99.999 repetitions).

MESSAGE: PRODAT SG 0

Function: Product data message is sent between parties in the power industry and is used to submit master data.
Segments: UNH, BGM, DTM, FTX, SG 3, SG 4, SG 8

UNH Message header
Function: A service segment to start and identify a message.
Classification: Mandatory (M1).
Comments:
Example: UNH+1+PRODAT:D:97A:UN:EDIEL2'

		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	 **Code**: PRODAT **Code**: D **Code**: 97A **Code**: UN Use the code "EDIEL2" if the Ediel IG is implemented in its full version, or a code of the format "E2yyzz" if a national IG is the basis, where: E2 Indicates Ediel version 2 yy ISO 2 letter country code or an abbreviation for an international organisation zz user guide or national implementation guide version number
		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 to indicate the function of the message.
Classification: Mandatory (M1).
Comments: See chapter 6 for a description on the use of the message functions (Z01 – Z15, Z18l).
Example: BGM+Z03+SSA1234+9+AB'

		Ref.	Name	Cl.	Form.	Description
		C002	DOCUMENT/MESSAGE NAME	R		
Message name (function)	>	1001	Document/message name, coded	R	an..3	**Code**: Z01 Request for end-user information from potential Supplier Z02 Answer on Request for end-user information Z03 Information about change of supplier Z04 Acknowledgement on change of supplier (incl. Update of master data) to new supplier Z05 Acknowledgement on change of supplier to old supplier Z06 Portfolio status (incl. Update of master data) Z08 Delivery contract closure Z09 Update of Master data Z10 Change of Meter Z11 Meter information Z12 Information of move Z13 Request for access to metering data Z14 Access to metering data confirmed/denied Z15 End of active permission Z18 Request end of exchange of metering data
		1131	Code list qualifier	X	an..3	
		3055	Code list responsible agency, coded	X	an..3	
		1000	Document/message name	X	an..35	
Message Id.	>	1004	DOCUMENT/MESSAGE NUMBER	R	an..35	Unique Id. of the message. Shall be unique over time for each party.
Message function	>	1225	MESSAGE FUNCTION, CODED	O	an..3	**Code**: 5 Replace of a previously sent message. 9 Original message.
Request for acknowledgement	>	4343	RESPONSE TYPE, CODED	R	an..3	**Code**: AB Message acknowledgement is required (APERAK). NA No acknowledgement needed

Message date and Time zone

DTM Date/time/period
Function: A segment specifying the message date and Time zone.
Classification: Mandatory (M2).
Comments: Both Message date and Time zone shall be used.
Example: DTM+137:199905011241:203'

	Ref.	Name	Cl.	Form.	Description
	C507	DATE/TIME/PERIOD	M		
	2005	Date/time/period qualifier	M	an..3	**Code**: 137 Message date ZZZ Offset to UTC (GMT)
>	2380	Date/time/period	R	an..35	Date/time/period
	2379	Date/time/period format qualifier	R	an..3	**Code**: 203 CCYYMMDDHHmm, (137) 805 Hour, (ZZZ)

Free text

FTX Free text
Function: A segment with free text information. In computer to computer exchanges such text will normally require the receiver to process this segment manually.
Classification: Optional (O1).
Comments:
Example: FTX+AAI+++This is text'

	Ref.	Name	Cl.	Form.	Description
	4451	TEXT SUBJECT QUALIFIER	M	an..3	**Code:** AAI General information
	4453	TEXT FUNCTION, CODED	X	an..3	
	C107	TEXT REFERENCE	X		
	4441	Free text, coded	X	an..3	
	1131	Code list qualifier	X	an..3	
	3055	Code list responsible agency, coded	X	an..3	
	C108	TEXT LITERAL	R		
>	4440	Free text	M	an..70	Free text
	4440	Free text	O	an..70	Free text
	4440	Free text	O	an..70	Free text
	4440	Free text	O	an..70	Free text
	4440	Free text	O	an..70	Free text
	3453	LANGUAGE	X	an..3	

MESSAGE: PRODAT — SG 3

Function: A group of segments giving references relevant to the whole
message, e. g. Reference to earlier received message.
Classification: Optional (O1).
Comments: Should be used if referring to an earlier sent or received message.
Segments: RFF

RFF Reference
Function: A segment to indicate the reference number of the original document/message sent/received.
Classification: Mandatory (M1).
Comments: The message Id., in data element 1004, in the BGM segment, in the received (original) message is to be used.
Example: RFF+ACW:ABC001582'

		Ref.	Name	Cl.	Form.	Description
		C506	REFERENCE	M		
		1153	Reference qualifier	M	an..3	**Code:** ACW Reference number to previous message
Reference to earlier sent message	>	1154	Reference number	R	an..35	Reference no.
		1156	Line number	X	an..6	
		4000	Reference version number	X	an..35	

MESSAGE: PRODAT SG 4

Function: A group of segments to specify the identifications of message sender, message receiver, in care of parties, contacts and communication channels.
Classification: Required (R4).
Comments: At least two repetitions (for «FR» and «DO») are required.
Segments: NAD, SG 5, SG 6

NAD Name and address
Function: A segment to specify the identification of the message issuer, message receiver and operator.
Classification: Mandatory (M1).
Comments:
- See the Functional description for a description of the use of data elements C082 1131 and C082 3055.
- Code «FR» and «DO» in data element 3035 are required

Example: NAD+FR+123456789:NO3:82++++OSLO+++NO'

		Ref.	Name	Cl.	Form.	Description
		3035	PARTY QUALIFIER	M	an..3	**Code:** FR Message from DO Document recipient C1 In care of party no. 1 C2 In care of party no. 2
		C082	PARTY IDENTIFICATION DETAILS	R		
Party Id.	>	3039	Party id identification	M	an..35	Party identification
Code list	>	1131	Code list qualifier	D	an..3	**Code:** 100 Enhanced party identification 160 Party identification NO3 Company registration no. from «Foretaksregisteret» in Norway
Code list responsible	>	3055	Code list responsible agency, coded	R	an..3	**Code:** 9 EAN (International Article Numbering association) 82 «Enhetsregisteret» in Norway 305 ETSO (European Transmission System Operator) EDI Other Id. than power plant SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät
		C058	NAME AND ADDRESS	X		
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	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, coded	X	an..3	
		C059	STREET	X		
		3042	Street and number/P.O. Box	X	an..35	
		3042	Street and number/P.O. Box	X	an..35	
		3042	Street and number/P.O. Box	X	an..35	
Place	>	3164	CITY NAME	O	an..35	Place (for generation of message)
		3229	COUNTRY SUB-ENTITY IDENTIFICATION	X	an..9	
		3251	POSTCODE IDENTIFICATION	X	an..9	
Country	>	3207	COUNTRY, CODED	R	an..3	**Code:** Use ISO 3166-1 two alpha country code, e.g.: DK Denmark FI Finland DE Germany NL Netherlands NO Norway SE Sweden GB United Kingdom

MESSAGE: PRODAT SG 5

Function: A group of segments to identify people, or departments.
Classification: Optional (O1).
Comments: Normally used for sender (code «FR» in NAD, SG. 2).
Segments: CTA, COM

Contact

CTA Contact information
Function: A segment to identify the person, or department to whom communication should be directed.
Classification: Mandatory (M1).
Comments: Normally used for sender (code «FR» in NAD, SG. 2)
- «MS» is used together with «FR» in NAD, SG. 2
- «MR» is used together with «DO» in NAD, SG. 2
- «IC» is used together with «C1» in NAD, SG. 2

Example: CTA+MS+:Ole Olsen'

	Ref.	Name	Cl.	Form.	Description
	3139	CONTACT FUNCTION, CODED	R	an..3	**Code:** MR Message recipient contact MS Message sender contact IC Information contact
	C056	DEPARTMENT OR EMPLOYEE DETAILS	R		
	3413	Department or employee identification	X	an..17	
>	3412	Department or employee	R	an..35	Contact person or department

Communication number

COM Communication contact
Function: A segment to indicate communication channel type and number inside the party's organisation, to which communication should be directed.
Classification: Optional (O4).
Comments:
Example: COM+4687397775:TE'

	Ref.	Name	Cl.	Form.	Description
	C076	COMMUNICATION CONTACT	M		
>	3148	Communication number	M	an..512	Communication number
	3155	Communication channel qualifier	M	an..3	**Code:** TE Telephone FX Telefax EM Electronic mail (Internet) XF X.400

MESSAGE: PRODAT — SG 6

Function: A group of segments used to provide references related to the party identified in the NAD segment.
Classification: Optional (O1).
Comments:
Segments: RFF

RFF Reference
Function: A segment identifying a reference by its type and number
Classification: Mandatory (M1).
Comments: To be used if an organisation number connected to the sender of a message is required.
Example: RFF+XA:0192345678'

		Ref.	Name	Cl.	Form.	Description
		C506	REFERENCE	M		
		1153	Reference qualifier	M	an..3	**Code:** XA Company/place registration number
Senders Organisation number	>	1154	Reference number	R	an..35	Senders Organisation number
		1156	Line number	X	an..6	
		4000	Reference version number	X	an..35	

MESSAGE: PRODAT SG 8

Function: A group of segments providing details of a single product.
Classification: Mandatory (M99.999).
Comments: The maximum number of repetitions of segment group 8 has been increased from 999 to 99.999 repetitions.
Segments: LIN, DTM, FTX, SG 12, SG 14, SG 16, SG 17

LIN Line item
Function: A segment identifying the line item by the line item number and the product by its item number.
Classification: Mandatory (M1).
Comments:
- Object Id can be omitted for function "Z01" and "Z03" in BGM if the object is identified using another reference (e. g. meter no.). For all other functions the Object Id shall be used.
- Composite C829, sub-line information, should be used for meters containing more than one register.

Example: LIN+1++1001987WK:::SVK'

		Ref.	Name	Cl.	Form.	Description
		1082	LINE ITEM NUMBER	R	n..6	Line number (sequence number)
Status for answer	>	1229	ACTION REQUEST/ NOTIFICATION, CODED	O	an..3	**Code:** 5 Accepted without amendment 7 Not accepted
		C212	ITEM NUMBER IDENTIFICATION	D		
Object Id.	>	7140	Item number	R	an..35	Object Id.
		7143	Item number type, coded	X	an..3	
		1131	Code list qualifier	X	an..3	
		3055	Code list responsible agency, coded	R	an..3	**Code:** 9 EAN (International Article Numbering association) 89 Assigned by distributor (net-owner) 90 Assigned by manufacturer (Supplier) 305 ETSO (European Transmission System Operator) ELT Eltra SM Nord Pool ASA SLY Finnish Electricity Association SVK Svenska Kraftnät
		C829	SUB-LINE INFORMATION	D		
		5495	Sub-line indicator, coded	R	an..3	**Code:** 1 Sub-line information
		1082	Line item number	R	n..6	Sub-line number (sequence number for each register of this meter)
		1222	CONFIGURATION LEVEL	X	n..2	
		7083	CONFIGURATION, CODED	X	an..3	

DTM Date/time/period
Function: A segment indicating the date/time/period details relating to the line item.
Classification: Optional (O5).
Comments:
- Time zone is defined in DTM / SG 0.
- "First meter reading date" is the date when reading begins.
- "Report start date" is the date when the first meter readings will be sent (in MSCONS).
- "Contract start/stop date" is the dates when delivery starts or stops.
- "Established date" is used for *Permission creation timestamp*.

Example: DTM+329:19990508:102'

		Ref.	Name	Cl.	Form.	Description
		C507	DATE/TIME/PERIOD	M		
		2005	Date/time/period qualifier	M	an..3	Code: 51 Cumulative quantity start date (First meter reading date) 52 Cumulative quantity end date (Latest meter reading date) 90 Report start date 91 Report end date 92 Contract start date 93 Contract stop date 157 Validity start date 329 Date of birth (end-user) 354 Observation length 693 Established date
Time period	>	2380	Date/time/period	R	an..35	Time
		2379	Date/time/period format qualifier	R	an..3	Code: 102 CCYYMMDD, (329) 203 CCYYMMDDHHmm, (51, 90, 91, 92, 93, 157, 693) 801 Year, To indicate a quantity of years (354) 802 Month, To indicate a quantity of months (354). 804 Day, To indicate a quantity of days (354). 806 Minute, To indicate a quantity of minutes (354).

Free text	>	**FTX** Free text **Function:** A segment with free text information connected to the line item. In computer to computer exchanges such text will normally require the receiver to process this segment manually. **Classification:** Optional (O1). **Comments:** **Example:** FTX+ACB+++This is text’

Ref.	Name	Cl.	Form.	Description
4451	TEXT SUBJECT QUALIFIER	M	an..3	**Code:** ACB Additional information
4453	TEXT FUNCTION, CODED	X	an..3	
C107 4441 1131 3055	TEXT REFERENCE Free text, coded Code list qualifier Code list responsible agency, coded	X X X X	 an..3 an..3 an..3	
C108 4440 4440 4440 4440 4440	TEXT LITERAL Free text Free text Free text Free text Free text	R M O O O O	 an..70 an..70 an..70 an..70 an..70	 Free text Free text Free text Free text Free text
3453	LANGUAGE	X	an..3	

MESSAGE: PRODAT — SG 12

Function: A group of segments providing details of the meter and associated dates.
Classification: Optional (O10).
Comments:
Segments: QTY, DTM

QTY Quantity
Function: A segment identifying the consumption details, e. g. opening meter read.
Classification: Mandatory (M1).
Comments:
- Use either code "31" or "67" for estimated volumes. A DTM segment defining the period for the estimated volume must follow "67". SG 12 may be repeated several times if code "67" is used.
- The code Z05 could be used together with 31 or 67 (or alone) when there is a difference between the estimated volume and the volume used for invoicing.
- "Energy deviation" is the difference between estimated and metered quantity.
- The code «MTQ» in data element 6411 is only used in the gas industry.

Example: QTY+31:90:KWH'

		Ref.	Name	Cl.	Form.	Description
		C186	QUANTITY DETAILS	M		
		6063	Quantity qualifier	M	an..3	**Code:** 31 Estimated annual volume 67 Estimated reading quantity (Estimated period volume). Z05 Estimated annual invoicing volume 137 Cumulative quantity, preceding period, measured - (Old meter reading) 140 Cumulative quantity, actual measured – (Meter reading) 143 Quantity, remaining (Energy deviation) 220 Meter reading (Metered energy (volume))
Quantity	>	6060	Quantity	M	n..15	Quantity
		6411	Measure unit qualifier	O	an..3	**Code:** KWH Kilowatt-hour MTQ Cubic metre (m^3)

DTM Date/time/period
Function: A segment indicating the date/time/period details relating to the quantity in the QTY segment.
Classification: Optional (O2).
Comments:
- Time zone is defined in DTM / SG 0.
- This segment should not be used when reporting Estimated annual volume (code 31 in QTY)
- Code 7 in data element C507 2005 and code 203 in data element C507 2379 are used for meter readings.
- Code 158 and 159 in data element C507 2005 and code 108 in data element C507 2379 are used for ”Estimated period volume”. 2 occurrences are necessary.
- Code 324 in data element C507 2005 and code Z13 in data element C507 2379 are used for “Energy deviation” (code 143 in QTY) and “Metered energy” (code 220 in QTY)

Example: DTM+7:199905030000:203'

		Ref.	Name	Cl.	Form.	Description
		C507	DATE/TIME/PERIOD	M		
		2005	Date/time/period qualifier	M	an..3	**Code:** 7 Effective date/time 158 Horizon start date 159 Horizon end date 324 Processing date/period (Meter reading period)
Time period	>	2380	Date/time/period	R	an..35	Time or Meter time frame
		2379	Date/time/period format qualifier	R	an..3	**Code**: 108 WW (158, 159) 203 CCYYMMDDHHmm, (7) Z13 CCYYMMDDHHmm-CCYYMMDDHHmm (Without hyphen), (324)

MESSAGE: PRODAT — SG 14

Function: A group of segments providing product characteristic and-product characteristic details.
Classification: Optional (O23).
Comments:
Segments: CCI, CAV

Type of characteristic

CCI Characteristic/class id
Function: A segment to identify product characteristic and, or the characteristic name and characteristic relevance for the business process.
Classification: Mandatory (M1).
Comments:
Example: CCI++Z02'

	Ref.	Name	Cl.	Form.	Description
	7059	PROPERTY CLASS, CODED	X	an..3	
>	C502	MEASUREMENT DETAILS	R		
	6313	Property measured, coded	R	an..3	**Code**: Z02 Constant Z03 Old Constant Z04 Measuring method (and Profile no.) Z05 Number of digits Z06 Old Number of digits Z07 Installation status Z08 Tariff code Z09 Priority Z10 VAT % Z12 Meter reading frequency Z13 Reason for transaction Z14 Product code Z15 Method for balance settlement Z16 Meter time frame (code defining different time-periods for different registers) Z17 Party connected to grid status Z18 Meter reading transmission method Z19 Reason for rejection Z20 Standard Industrial Classification Code Z21 Electricity fee, percentage Z22 Flow direction Z23 Permission status Z24 Permission purpose Z25 Permission end reason
	6321	Measurement significance, coded	X	an..3	
	6155	Measurement attribute identification	X	an..17	

6154	Measurement attribute	X	an..70	
C240	PRODUCT CHARACTERISTIC	X		
7037	Characteristic identification	X	an..17	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
7036	Characteristic	X	an..35	
7036	Characteristic	X	an..35	
4051	CHARACTERISTIC RELEVANCE, CODED	X	an..3	

CAV Characteristic value

Function: A segment to specify common product characteristic by value in either coded form or in free format.

Classification: Required (R1).

Comments:
- For code Z04 in the CCI segment both data element C889 7111 and data element C889 7110 can be used.
- For other codes in the CCI segment, use either data element C889 7111 or data element C889 7110

Example: CAV+:::123’

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

Measuring method Grid Tariff Priority Installation status Reason for transaction Meter reading trans-mission method Method for balance settlement Party connected to grid status Reason for rejection	>	7111	Characteristic value, coded	D	an..3	**Code:** *Measuring method:* Z01 Profile Z02 Hour Z03 Defined by Metering Point Administrator Z04 15 minutes *Tariff code:* Use bilateral defined codes *Priority:* A Disconnectable installation category A B Disconnectable installation category B C Disconnectable installation category C D Disconnectable installation category D P Installation with priority *Installation status:* Z11 Closed Z12 Active *Reason for transaction:* Z21 Customer move Z22 Change of supplier Z23 Change of customer and supplier Z24 Cancellation of change procedure Z25 Unspecified reason Z26 Change to default supplier Z27 Change of balance responsible Z28 Portfolio overview Z29 Move without change of supplier Z70 Obligation to receive production Z96 Rejected by Operator E32 Update of master data, metering point E34 Update of masterdata, consumer E58 Update of masterdata, meter E64 Update of master data, metering point, requiring meter reading S17 Start or end of data sharing S18 Historical metering data *Method for balance settlement:* Z31 Profiled settlement, meter dependent Z32 Continuous based settlement Z33 Profiled settlement with single tariff

						Code: *Party connected to grid status* Z41 Death Z42 Move from one metering point to another Z43 Additional metering point *Meter reading transmission method* Z50 Automatic meter reading Z51 Manually read Z52 Unread *Reason for rejection* E10 Installation address or metering point not identifiable E14 Other reason E17 Requested switch date not within time limits E22 Metering point blocked for switch E50 Invalid period Z60 Error in date of birth or organisation Id Z61 Missing switch stand Z62 Error in switch stand Z63 Illegal end date Z64 Ongoing switch *Flow direction* E17 Consumption E18 Production E19 Combined *Permission status* A74 Validated A75 Invalid A76 Timed out A13 Withdrawn *Permission purpose* B71 (Explicit) Permission from the customer B72 In execution of a contract with the customer (Execution of contract) B73 Legal obligations B74 In protection of vital interests of the customer B75 In order to perform a duty of common (national) interest B76 Justified interest of the dataprocessee *Permission end reason* B77 Fulfilment of purpose B78 Reach of end timestamp B79 Revocation B80 Termination E37 No valid Grid access contract E66 Customer move out
		1131	Code list qualifier	X	an..3	

		3055	Code list responsible agency, coded	D	an..3	**Code:** SM Nord Pool ASA SVK Svenska Kraftnät SLY Finnish Electricity Association 89 Assigned by distributor (net-owner) 90 Assigned by manufacturer (Supplier) 260 ebIX
Constant Number of digits VAT % Profile number Meter reading frequency Standard Industrial Classification Code Electricity fee, percentage	>	7110	Characteristic value	D	an..35	Product code Meter time frame Constant (new/old) Number of digits (new/old) VAT % Profile number Meter reading frequency (Number of readings a year.) Standard Industrial Classification Code Electricity fee, percentage
Energy product		7110	Characteristic value	D	an..35	Energy product, e.g. 8716867000030 for Active energy, see further ENTSO-E code list.

MESSAGE: PRODAT — SG 16

Function: A group of segments giving references related to the product specified in the LIN segment.
Classification: Optional (O13).
Comments:
Segments: RFF

RFF Reference
Function: A segment identifying the reference related to the product by its number and type and where appropriate a line within a document.
Classification: Mandatory (M1).
Comments: The line item reference number (LI) can be defined by the sender of function Z01 and Z03 and should be returned in corresponding Z02 and Z04.
Example: RFF+MG:ABC001582'

		Ref.	Name	Cl.	Form.	Description
		C506	REFERENCE	M		
		1153	Reference qualifier	M	an..3	**Code:** MG Meter unit number (Meter no.) Z02 Old Meter no. VC Vendor contract number (Supplier contract number) ANJ Authorisation number (Reference to authorisation) Z03 Connecting point to central grid Z04 Delivery code (defines a supplier in a net area or an connecting point) Z05 Net area Z06 Serial Id Z07 Metering Point identification Z08 Calorific Value Area (A Calorific Value Area is a predefined set of Metering points for which the same established calorific value is applied) Z09 Permission Id. LI Line item reference number TN Transaction reference number
Reference	>	1154	Reference number	R	an..35	Reference no.
		1156	Line number	X	an..6	
		4000	Reference version number	X	an..35	

MESSAGE: PRODAT — SG 17

Function: A group of segments identifying the parties (end-users) with associated information.
Classification: Dependent (D8).
Comments:
Segments: NAD, SG 18.

NAD Name and address
Function: A segment identifying names and addresses of the parties related to the identified product, in coded or clear form, and their functions for example supplier, warehouse, service. It is recommended that, if possible, only the coded form of the party ID should be specified.
Classification: Mandatory (M1).
Comments:
- Agent/representative (AG) in data element 3035 is used for the senders party that will send/receive meter readings (MSCONS).
- See chapter 5 for a description of the use of data elements C082 1131 and C082 3055.

Example: NAD+ IT+7331507000006::9'

		Ref.	Name	Cl.	Form.	Description
		3035	PARTY QUALIFIER	M	an..3	**Code:** AG Agent/representative (Senders agent for meter readings, MSCONS) COT Involved party (New end-user) GZ Substitute supplier IT Installation on site (Installation) IV Invoicee. Party to whom an invoice is issued. SU Supplier UD Ultimate customer (End-user) Z01 Party responsible for Meter reading Z02 Balance responsible
Party Id.	>	C082	PARTY IDENTIFICATION DETAILS	R		
		3039	Party id identification	M	an..35	Party identification
		1131	Code list qualifier	D	an..3	**Code:** 1 Date of birth 100 Enhanced party identification 160 Party identification SE1 Swedish company registration number SE2 Swedish personal identity number

Code list responsible	>	3055	Code list responsible agency, coded	R	an..3	**Code:** 9 EAN (International Article Numbering association) 82 «Enhetsregisteret» in Norway 89 Assigned by distributor (net-owner) 90 Assigned by manufacturer (Supplier) 105 DK, Ministry of taxation, Central Customs and Tax Administration 220 FI, Finnish tax board 260 ebIX 305 ETSO (European Transmission System Operator) EDI Other Id. than power plant SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät ZZZ Ediel Nordic Forum
		C058	NAME AND ADDRESS	X		
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		3124	Name and address line	X	an..35	
		C080	PARTY NAME	D		
Party name	>	3036	Party name	O	an..35	Party name
		3036	Party name	O	an..35	Party name
		3036	Party name	X	an..35	
		3036	Party name	X	an..35	
		3036	Party name	X	an..35	
		3045	Party name format, coded	X	an..3	
		C059	STREET	D		
Address	>	3042	Street and number/P.O. Box	O	an..35	Address
		3042	Street and number/P.O. Box	O	an..35	Address
		3042	Street and number/P.O. Box	O	an..35	Address
Place	>	3164	CITY NAME	D	an..35	City name
		3229	COUNTRY SUB-ENTITY IDENTIFICATION	X	an..9	
Postcode	>	3251	POSTCODE IDENTIFICATION	D	an..9	Postcode
Country	>	3207	COUNTRY, CODED	O	an..3	**Code:** Use ISO 3166-1 two alpha country code, e.g.: DK Denmark FI Finland DE Germany NL Netherlands NO Norway SE Sweden GB United Kingdom

MESSAGE: PRODAT — SG 18

Function: A group of segments to identify people, or departments.
Classification: Optional (O1).
Comments: To specify contact person and telephone, fax etc. for the parties defined in NAD, SG 17.
Segments: CTA, COM

Contact

CTA Contact information
Function: A segment to identify the person, or department to whom communication should be directed.
Classification: Mandatory (M1).
Comments:
Example: CTA+IC+:Ole Olsen'

	Ref.	Name	Cl.	Form.	Description
	3139	CONTACT FUNCTION, CODED	R	an..3	**Code:** IC Information contact
	C056	DEPARTMENT OR EMPLOYEE DETAILS	R		
	3413	Department or employee identification	X	an..17	
>	3412	Department or employee	R	an..35	Contact person or department

Communication number

COM Communication contact
Function: A segment to indicate communication channel type and number inside the party's organisation, to which communication should be directed.
Classification: Optional (O4).
Comments:
Example: COM+4687397775:TE'

	Ref.	Name	Cl.	Form.	Description
	C076	COMMUNICATION CONTACT	M		
>	3148	Communication number	M	an..512	Communication number
	3155	Communication channel qualifier	M	an..3	**Code:** TE Telephone AL Cellular phone FX Telefax EM Electronic mail (Internet) XF X.400

MESSAGE: PRODAT SG 0

Function: Summary section
Classification: Mandatory (M1).
Comments:
Segments: UNT

UNT Message trailer
Function: A service segment ending a message, giving the total number of segments in the message 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 EXAMPLES OF EDIFACT MESSAGES

A.1 Norwegian example

```
UNA:+.? '
UNB+UNOC:3+102987654321:82+102123456789:82+990517:1245+PROZ031245'
UNH+1+PRODAT:D:97A:UN: E2NO2A'
BGM+Z03+PROZ03000002+9+NA'
DTM+137:199905171245:203'
DTM+ZZZ:1:805’
NAD+FR+333666999:NO3:82++++TROMSØ+++NO'
CTA+MS+:Ole Hansen'
COM+77889900:TE'
COM+77889901:FX'
COM+prodatkontakt@kraftleverandor.no:EM'
COM+G=Ole;S=Hansen;P=kraftleverandor;A=telemax;C=NO:XF'
NAD+DO+123456789:NO3:82++++OSLO+++NO'
CTA+MR+:Anne Liane'
NAD+C1+987654321:NO3:82+++++++NO'
LIN+1++1122334455667:::89'
DTM+92:199904050000:203'
DTM+329:19402902:102’
FTX+ACB+++Dette er hagebyabonement'
QTY+31:20000:KWH'
CCI++Z04'
CAV+Z01’
RFF+MG:TK1000123'
RFF+Z04:KLTN3550’
NAD+UD+543210::89++Ole Olsen+Transformatorveien 99+Oslo++0303+NO'
CTA+IC+:Ole Olsen’
COM+ole.olsen@online.no:EM'
NAD+IT+1122334455667::89++Ole Olsen Hagebyabonement+Hagebyveien 234+ Oslo++0701+NO'
NAD+IV+765432::89++Agda Olsen+Beitostølveien 233+Beitostølen++4321+NO’
LIN+2++1122334455668:::89'
DTM+92:199904050000:203'
DTM+93:200004050000:203'
DTM+329:19723101:102’
QTY+31:30000:KWH'
QTY+67:10000:KWH’
DTM+158:1:108’
DTM+159:13:108’
QTY+67:5000:KWH’
DTM+158:13:108’
DTM+159:26:108’
QTY+67:5000:KWH’
DTM+158:26:108’
DTM+159:39:108’
QTY+67:10000:KWH’
DTM+158:39:108’
DTM+159:52:108’
CCI++Z04'
CAV+Z01’
RFF+MG:TK1000333'
RFF+Z04:KLTN3550’
NAD+UD+444444::89++Petra Pedersen+Kraftsvingen 3+Oslo++0421+NO'
CTA+IC+:Øystein Pedersen’
COM+oystein.pedersen@imagine.no:EM'
COM+53001122:TE’
NAD+IT+1122334455668::89++Petra Agnethe Pedersen+Kraftsvingen 3+Oslo++0421+NO'
UNT+56+1'
UNZ+1+PROZ031245'
```

Appendix B DICTIONARY

English	Norwegian
Bulk Supply Code	Komponentkode i RK-avregning mod Statnett (se også Delivery point).
Constant	Konstant (omregningsfaktor)
Connecting point to central grid	Leveransepunkt
Data Provider	Oppgavegiver
Delivery point	Komponentkode i RK-avregning mod Statnett (se også Bulk Supply Code)
Measuring method	Type måling
Meter location	Målested
Metered	Målt total
Metered Value Id.	Identifikasjon av målepunkt
Netowner Id.	Identifikasjon av netteier (Foretaksnr.)
Network non metered	JIP (Justert Innmatings Profil)
Number of digits	Antall siffer
Power industry	Elforsyningen
Power plant	Stasjonsgruppe
Serial Id.	Serie Id.
Supplier Id.	Identifikasjon av leverandør (Foretaksnr.)
Supplier metered	Sum timemålt
Supplier non metered	Ferdigbehandlet andel av JIP
Supplier profile ratio	Prosentandel av JIP
Supplier total	Totalt for leverandør