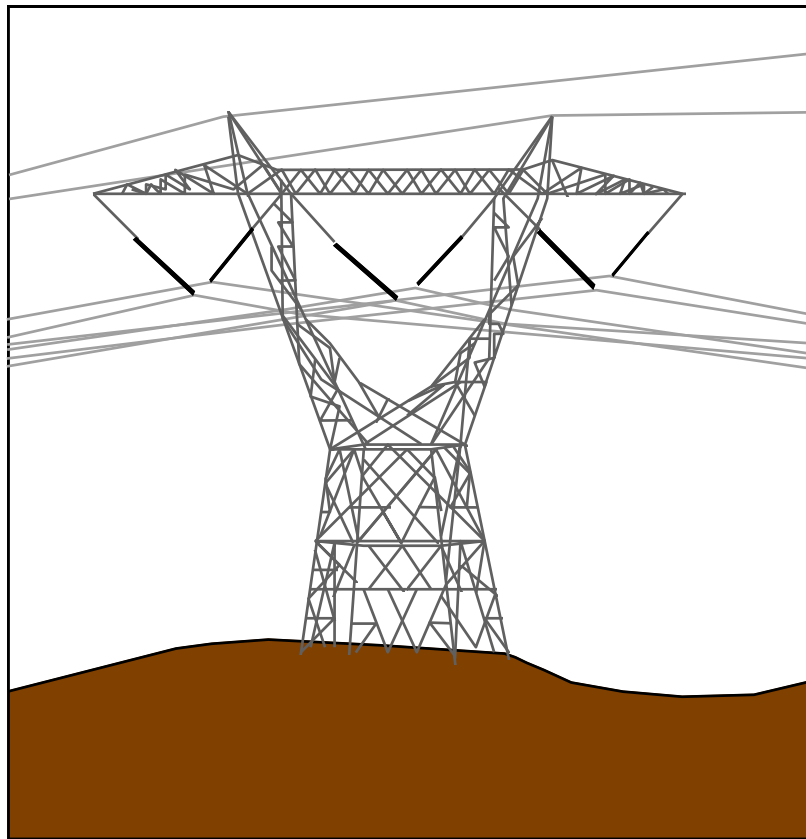


Message handbook for EDIEL

Implementation guide for Invoice message



EDIFACT-message:	INVOIC
EDIFACT-version:	D
EDIFACT-release:	93A
EDIFACT-status:	2
IG-status:	Under development - not for implementation
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1. INTRODUCTION

This document is an Implementation Guide (IG) for the Invoice message, to be used in the power industry. The IG describes the EDIFACT-message INVOIC in detail. The message is used to send Invoices in the power industry.

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.

The document is written by EdiSys AS, Norway on behalf of EDIEL, which is an organisation with members from the following organisations:

- Nord Pool ASA
- Svenska Kraftnät, Sweden
- Sydkraft, Sweden
- Statnett SF, Norway
- Viken Energinett, Norway
- Eltra, Denmark
- ELKRAFT, Denmark
- Imatran Voima Oy, Finland
- PVO-Group, Finland

The EDIEL organisation will work for standardisation of EDI-messages, communication, security etc. in the power industry, basically in the Nordic countries.

EDIEL is responsible for the documentation and further maintenance. This covers the following:

- Produce documentation of good quality
- Have knowledge about the parties using the documentation.
- Provide necessary support and help to the users of the documentation, so the documentation can be used in a correct way.
- Maintain the documentation as EDIFACT develops and in response to user-requests.

The documentation is primarily written for people who are going to implement EDIFACT in applications and EDI-software.

1.1. Overview of messages in the power industry

For the time being the Message handbook for EDIEL consists of

DELFOR	Delivery schedule message
MSCONS	Metered Service Consumption Report
QUOTES	Quote message
SLSRPT	Sales data report message
APERAK	Application Acknowledgement

The following message types are under development:

INVOIC	Invoice message
PRODAT	Product data message
REQOTE	Request for quotation message

At a later stage other messages will also be developed for use between parties in the power industry.

In addition a Functional description is available, which contains common descriptions for the different Implementation Guides. This includes relations between the different message types, use of codes and code lists, special conditions between the 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 «INVOICE MESSAGE »

2.1. Invoice message

The message type used for the Invoice message is the EDIFACT message INVOIC. This IG is based upon EANCOM subset of the Invoice message. The EDIEL Invoice message is made for interchanging of data between the participants in the Power market, and against their end users.

2.2. Functional Definition

A message claiming payment for goods or services supplied under conditions agreed between the seller and the buyer.

The United Nations Standard Invoice Message, with correct data qualification, serves also as the specification for Debit Note and Credit Note messages. Throughout this document, the reference to 'Invoice' may be interpreted as conveying the wider meaning of 'Invoice/Credit Note/Debit Note'.

2.3. Principles

- A seller may invoice for one or more transactions
- An invoice may refer to goods, items or services related to one or more orders, delivery instructions, call-offs, etc.
- An invoice may contain references to payment terms
- An invoice for cross border transactions may contain additional information for customs and/or statistical purposes/services
- An invoice may contain transport details.

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.93A
- [3] **Message handbook for EDIEL, Functional description**, version 2.1
- [4] **ISO 9735**, version 2, 1990.11.01
- [5] **HANCOM-brugerprofil for faktura** (DVA001V02), EAN-Danmark

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.96A [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 the development through the work.

There will be a test period with a following revision before a final Implementation guide will be made available.

The present document has the following status:

- **Under development – not for implementation**

4.1. Version number

The Implementation Guide will have 3 levels of version numbering. This will be Version, Release and Correction:

- The Correction (last number) will be updated when there have been «cosmetic» changes, like correction of examples, adding some text etc.
- The Release number will be updated when there have been minor changes to the IG, like adding several new codes etc.
- The Version number (first number) will be updated when there have been major changes, like new segments, data elements etc.

5. OVERVIEW OF THE MESSAGE

5.1. Special conditions for the invoice message

5.1.1. Allowances and charges

In this IG the possibility to define allowances and charges, as additions to line items, in the invoice header and detail sections are limited to the following:

- In the header section one allowance can be specified. This allowance must be specified with its amount and tax reduction. An allowance percentage can be stated for information.
- On each line item in the detail section Value added tax (VAT) and Energy fee should be defined.

All other allowances and charges should be defined as separate line items or included in the price.

5.1.2. Common invoicing

If common invoicing are wanted (e.g. when a Grid owner invoices both for the Supplier and for him self) and both parties are wanted defined in the header section (in the NAD segment in SG 2), two invoice messages should be made:

- When the Grid owner is invoicing for him self he will be defined as “SU – Supplier” in the NAD segment in SG 2.
- When the Grid owner is invoicing for the Supplier he will be defined as “II – Issuer of invoice” and the Supplier will be defined as “SU- Supplier” in the NAD segment in SG 2.

5.1.3. Invoicing from the Power exchange

On the power exchange a player can both buy and sell power in the same period. If the player is a “net seller” or a “net buyer” will be defined by his role in the NAD segment in SG 2:

- If he is a “net seller“ he will be defined as “SU – Supplier” in the NAD segment in SG 2.
- If he is a “net buyer“ he will be defined as “BY – Buyer” in the NAD segment in SG 2.

The opposite part will always be the Power exchange.

5.1.4. Credit note

A Credit note is used to credit an earlier sent Commercial invoice. The Credit note should refer to the earlier sent invoice.

5.1.5. Signs

???

5.1.6. Specification of parties, products etc.

In most countries the Invoice is a legal document. This means, among other things, that there are requirements for documentation over a longer period. To ensure that all Party Id's, product codes, allowance types, charge types, etc. can be understood over time it is advised to send the textual explanation to the coded information in the invoice.

5.1.7. OCR-code

A Payment reference, specifying an Id for the payment, is often sent in an invoice. The payment reference could for instance be the OCR (Optical Character Recognition) code. In the EDIEL invoice this should be defined in the RFF segment in SG 1.

5.2. Data model for the Invoice message

Below is shown a data model for the Invoice message:

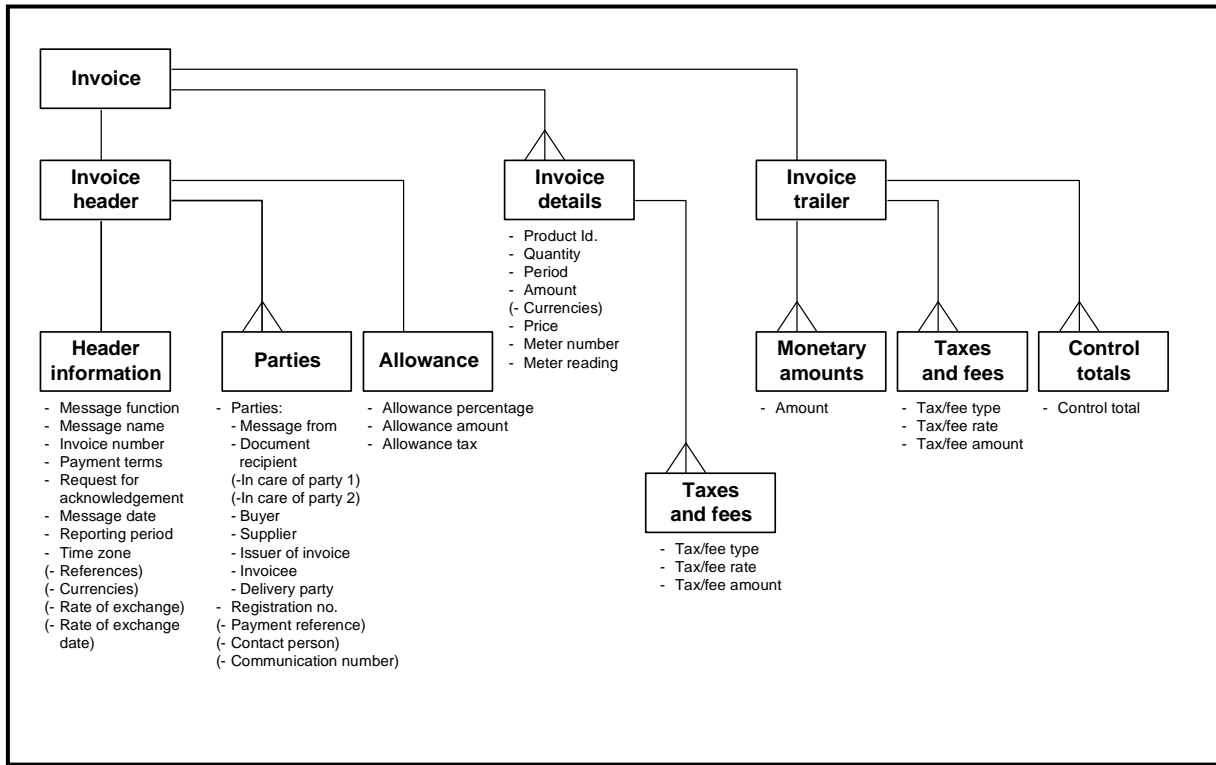


Figure 1 Data model for the Invoice message

The Attributes in parentheses are conditional attributes and are not necessarily transferred.

5.3. Cue list

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

General information about the message			
UNH	M	1	Message reference Message type
BGM	M	1	Commercial invoice / Credit note Invoice number <i>Message function</i> Request for acknowledgement
DTM	M	4	Message date Reporting period (Start/Stop) Time zone
References			
SG 1	D	7	
RFF	M	1	<i>Reference to Accounts receivable number</i> <i>Reference to Customer reference number</i> <i>Reference to Contract number</i> Reference to Invoice number <i>Reference to Price list number</i> <i>Reference to Sellers reference number</i> Reference to Reference to MSCONS message
Parties			
SG 2	R	9	
NAD	M	1	Parties: <ul style="list-style-type: none"> • <i>Message from</i> • <i>Document recipient</i> • <i>In care of party no. 1</i> • <i>In care of party no. 2</i> • <i>Buyer</i> • <i>Supplier</i> • <i>Issuer of invoice</i> • <i>Invoicee</i> • Delivery party For each party: <ul style="list-style-type: none"> • Party id. • Party name • Party address • Party country

References			
SG 3	D	2	
RFF	M	1	VAT registration number Company/place registration number Government reference number Payment reference
Contact person			
SG 5	O	1	
CTA	M	1	Contact person
COM	O	3	Communication number
Currencies			
SG 7	D	1	
CUX	M	1	Reference currency Target currency Rate of exchange
DTM	D	1	Rate of exchange date
Payment terms			
SG 8	R	1	
PAT	M	1	Payment terms type
DTM	D	1	Terms net due date
Allowance for the whole invoice			
SG 14	D	1	
ALC	M	1	Allowance
Percentage			
SG 17	O	1	
PCD	M	1	Percentage for the allowance
Monetary amount			
SG 18	R	1	
MOA	M	1	Monetary amount for the allowance
MVA			
SG 20	R	1	
TAX	M	1	Tax related information for the allowance
MOA	R	1	Tax amount for the allowance

Details of the individual invoiced items			
SG 22 D 200000			
LIN	M	1	Line number Product Id. (EAN)
PIA	D	1	Suppliers article number
IMD	A	1	Description of the product or service
QTY	R	1	Invoiced quantity Estimated quantity
DTM	O	2	Start period Stop period
Monetary amount relating to the product			
SG 23 R 2			
MOA	M	1	Monetary amount Currency
CUX	D	1	Reference currency Target currency Rate of exchange
Pricing information for the goods or services			
SG 25 R 1			
PRI	M	1	Contract price Unit basis / Price unit
Meter			
SG 29 D 1			
LOC	M	1	Meter (location) number
QTY	O	3	Latest cumulative quantity Previous cumulative quantity Meter constant
DTM	O	2	Meter reading date
Tax related information for the line item			
SG 30 D 2			
TAX	M	1	Tax/fee type Tax/fee rate
MOA	R	1	Tax amount

UNS	M	1	Section control
CNT	R	2	Control totals
Total amounts for the whole invoice			
SG 45	R	6	
MOA	M	1	Amount due/amount payable (Amount to be paid). Total line items amount. Prepaid amount (Amount which has been prepaid in advance). Taxable amount. Total charges/allowances (The amount specified is the total of all charges/allowances). Message total duty/tax/fee amount.
Taxes totals for the invoice			
SG 47	D	10	
TAX	M	1	Tax/fee type Tax/fee rate
MOA	R	2	Tax amount
UNT	M	1	Message trailer

At least the segment groups (with corresponding segments) marked with R or M have to be used in every message.

5.4. Message diagram

The Message diagram below shows the subset of the 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 over the EDIFACT message, please see the next chapter (segment table).

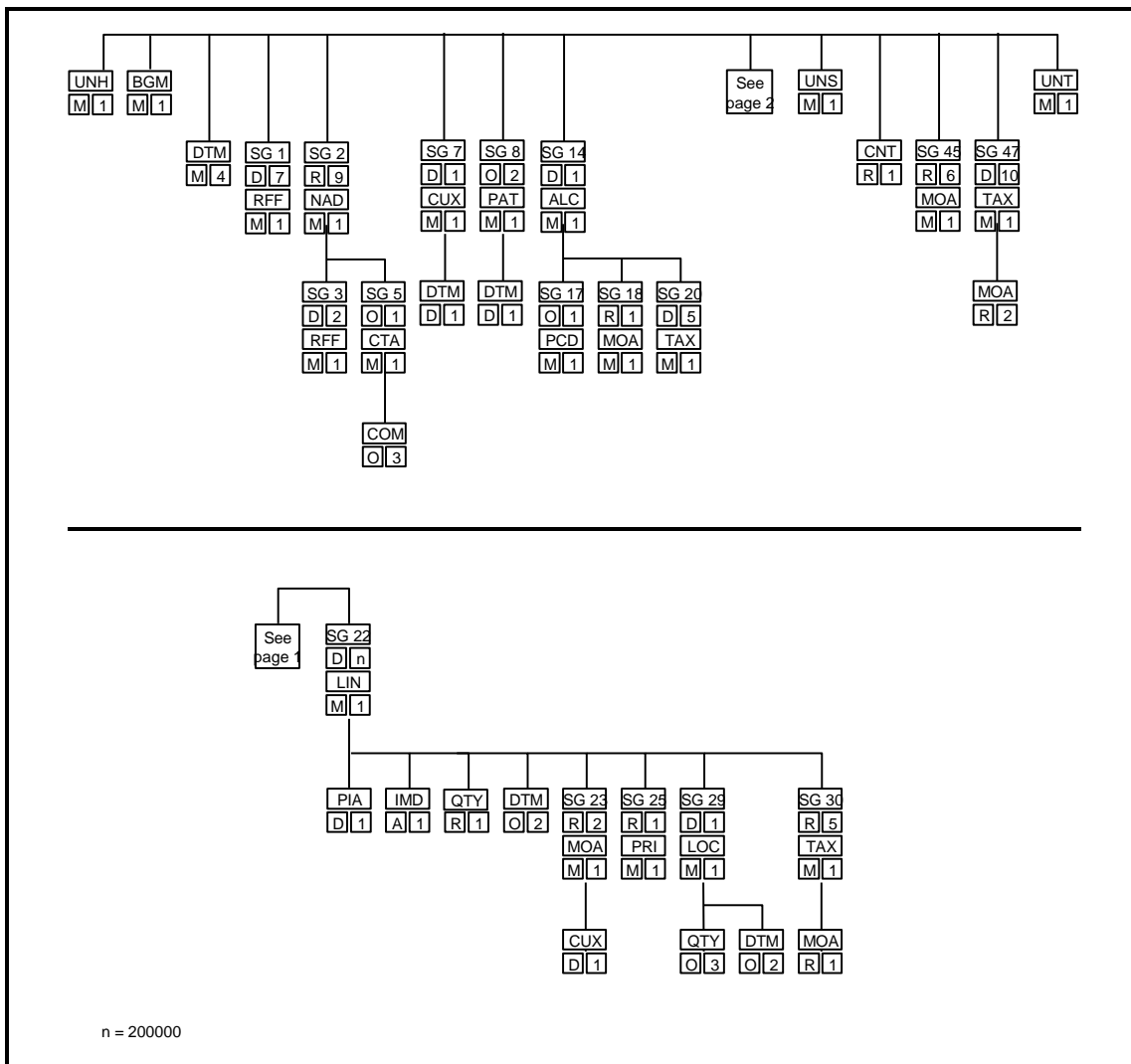


Figure 2 Message diagram for the Invoice message

5.5. Segment table

In this chapter the segment table for the Invoice message (INVOIC) is shown by the way it is described in version D, release 93A of the EDIFACT directory. The segments and segment groups that are used in this IG are shown with bold letters.

HEADER SECTION					
TAG	NAME	S	REPT	S	REPT
UNH	Message header	M	1		
BGM	Beginning of message	M	1		
DTM	Date/time/period	M	35		
PAI	Payment instructions	C	1		
ALI	Additional information	C	5		
IMD	Item description	C	1		
FTX	Free text	C	10		
--- Segment Group 1				C	10
RFF	Reference	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 2				C	20
NAD	Name and address	M	1		
LOC	Place/location identification	C	25		
FII	Financial institution information	C	5		
--- Segment Group 3				C	9999
RFF	Reference	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 4				C	5
DOC	Document/message details	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 5				C	5
CTA	Contact information	M	1		
COM	Communication contact	C	5		
--- Segment Group 6				C	5
TAX	Duty/tax/fee details	M	1		
MOA	Monetary amount	C	1		
LOC	Place/location identification	C	5		
--- Segment Group 7				C	5
CUX	Currencies	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 8				C	10
PAT	Payment terms basis	M	1		
DTM	Date/time/period	C	5		
PCD	Percentage details	C	1		
MOA	Monetary amount	C	1		
--- Segment Group 9				C	10
TDT	Details of transport	M	1		
--- Segment Group 10				C	10
LOC	Place/location identification	M	1		
DTM	Date/time/period	C	5		

--- Segment Group 11 -----				C	5	-----+
TOD	Terms of delivery	M	1			
LOC	Place/location identification	C	2			-----+
--- Segment Group 12 -----				C	1000	-----+
PAC	Package	M	1			
MEA	Measurements	C	5			
--- Segment Group 13 -----				C	5	-----+
PCI	Package identification	M	1			
RFF	Reference	C	1			
DTM	Date/time/period	C	5			
GIN	Goods identity number	C	5			-----+
--- Segment Group 14 -----				C	15	-----+
ALC	Allowance or charge	M	1			
ALI	Additional information	C	5			
--- Segment Group 15 -----				C	5	-----+
RFF	Reference	M	1			
DTM	Date/time/period	C	5			-----+
--- Segment Group 16 -----				C	1	-----+
QTY	Quantity	M	1			
RNG	Range details	C	1			-----+
--- Segment Group 17 -----				C	1	-----+
PCD	Percentage details	M	1			
RNG	Range details	C	1			-----+
--- Segment Group 18 -----				C	2	-----+
MOA	Monetary amount	M	1			
RNG	Range details	C	1			-----+
--- Segment Group 19 -----				C	1	-----+
RTE	Rate details	M	1			
RNG	Range details	C	1			-----+
--- Segment Group 20 -----				C	5	-----+
TAX	Duty/tax/fee details	M	1			
MOA	Monetary amount	C	1			-----+
--- Segment Group 21 -----				C	100	-----+
RCS	Requirements and conditions	M	1			
RFF	Reference	C	5			
DTM	Date/time/period	C	5			
FTX	Free text	C	5			-----+

DETAIL SECTION

TAG	NAME	S	REPT	S	REPT	
--- Segment Group 22 -----				C	200000	-----+
LIN	Line item	M	1			
PIA	Additional product id	C	25			
IMD	Item description	C	10			
MEA	Measurements	C	5			
QTY	Quantity	C	5			
PCD	Percentage details	C	1			
ALI	Additional information	C	5			
DTM	Date/time/period	C	35			
GIN	Goods identity number	C	1000			
GIR	Related identification numbers	C	1000			

QVA	Quantity variances	C	1		
FTX	Free text	C	5		
--- Segment Group 23				C	5
MOA	Monetary amount	M	1		
CUX	Currencies	C	1		
--- Segment Group 24				C	10
PAT	Payment terms basis	M	1		
DTM	Date/time/period	C	5		
PCD	Percentage details	C	1		
MOA	Monetary amount	C	1		
--- Segment Group 25				C	25
PRI	Price details	M	1		
API	Additional price information	C	1		
RNG	Range details	C	1		
DTM	Date/time/period	C	5		
--- Segment Group 26				C	10
RFF	Reference	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 27				C	10
PAC	Package	M	1		
MEA	Measurements	C	10		
--- Segment Group 28				C	10
PCI	Package identification	M	1		
RFF	Reference	C	1		
DTM	Date/time/period	C	5		
GIN	Goods identity number	C	10		
--- Segment Group 29				C	100
LOC	Place/location identification	M	1		
QTY	Quantity	C	1		
DTM	Date/time/period	C	5		
--- Segment Group 30				C	5
TAX	Duty/tax/fee details	M	1		
MOA	Monetary amount	C	1		
LOC	Place/location identification	C	5		
--- Segment Group 31				C	20
NAD	Name and address	M	1		
LOC	Place/location identification	C	5		
--- Segment Group 32				C	5
RFF	Reference	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 33				C	5
DOC	Document/message details	M	1		
DTM	Date/time/period	C	5		
--- Segment Group 34				C	5
CTA	Contact information	M	1		
COM	Communication contact	C	5		
--- Segment Group 35				C	15
ALC	Allowance or charge	M	1		
ALI	Additional information	C	5		
--- Segment Group 36				C	1

QTY	Quantity	M	1		
RNG	Range details	C	1	-----+	
--- Segment Group 37 ----- C 1 -----+					
PCD	Percentage details	M	1		
RNG	Range details	C	1	-----+	
--- Segment Group 38 ----- C 2 -----+					
MOA	Monetary amount	M	1		
RNG	Range details	C	1	-----+	
--- Segment Group 39 ----- C 1 -----+					
RTE	Rate details	M	1		
RNG	Range details	C	1	-----+	
--- Segment Group 40 ----- C 5 -----+					
TAX	Duty/tax/fee details	M	1		
MOA	Monetary amount	C	1	-----+	
--- Segment Group 41 ----- C 10 -----+					
TDT	Details of transport	M	1		
--- Segment Group 42 ----- C 10 -----+					
LOC	Place/location identification	M	1		
DTM	Date/time/period	C	5	-----+	
--- Segment Group 43 ----- C 5 -----+					
TOD	Terms of delivery	M	1		
LOC	Place/location identification	C	2	-----+	
--- Segment Group 44 ----- C 100 -----+					
RCS	Requirements and conditions	M	1		
RFF	Reference	C	5		
DTM	Date/time/period	C	5		
FTX	Free text	C	5	-----+	

SUMMARY SECTION

TAG	NAME	S	REPT	S	REPT
UNS	Section control	M	1		
CNT	Control total	C	10		
--- Segment Group 45 ----- M 100 -----+					
MOA	Monetary amount	M	1		
--- Segment Group 46 ----- C 1 -----+					
RFF	Reference	M	1		
DTM	Date/time/period	C	5	-----+	
--- Segment Group 47 ----- C 10 -----+					
TAX	Duty/tax/fee details	M	1		
MOA	Monetary amount	C	2	-----+	
--- Segment Group 48 ----- C 15 -----+					
ALC	Allowance or charge	M	1		
ALI	Additional information	C	1		
MOA	Monetary amount	C	2	-----+	
UNT	Message trailer	M	1		

5.6. Description of segments used

Below the segments and segment groups used in this IG are described. The description is copied from version D, release 93A of the UN/EDIFACT directory. *The way EDIEL uses the segments is described in the next chapter.*

Information to be provided in the Header Section:

UNH, Message header

A service segment starting and uniquely identifying a message. The message type code for the Invoice message is INVOIC.

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

Data element 0065 INVOIC
0052 D
0054 93A
0051 UN

6. 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 over 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 exchanged with the classification described in the Functional Description [3].



MESSAGE: INVOIC

SG 0

Function: A message claiming payment for goods or services supplied under conditions agreed between the seller and the buyer. The message serves also as the specification for Debit Note and Credit Note messages.

Segments: UNH, BGM, DTM, SG1, SG 2, SG 8, SG 14, SG 22

UNH Message header

Function: A service segment to start and identify a message.

Classification: Mandatory (M1).

Comments:

Example: UNH+1+INVOIC:D:93A:UN:EDIEL2'

Message-reference

>

Ref.	Name	Cl.	Form.	Description
0062	MESSAGE REFERENCE NUMBER	M	an..14	The message reference uniquely identifies the message in the interchange. This can for instance be done by using a sequence number that identifies each message in the interchange. The first message will have reference no. 1, the second message will have reference 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	Code: INVOIC
0052	Message type version number	M	an..3	Code: D
0054	Message type release number	M	an..3	Code: 93A
0051	Controlling agency	M	an..2	Code: UN
0057	Association assigned code	R	an..6	Code: EDIEL2
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 must uniquely identify the invoice by means of its type and number and when necessary its function.
Classification: Mandatory (M1).
Comments: Data element C002 3055 is only to be used if the code in C002 1001 is “30E”
Example: BGM+380+S12345++AB'

Ref.	Name	Cl.	Form.	Description
C002	DOCUMENT/MESSAGE NAME	R		
1001	Document/message name, coded	R	an..3	Code: 30E Invoice – Metered services <i>Jan Owe</i> 380 Commercial invoice <i>Jan Owe</i> 381 Credit note
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	D	an..3	Code: 9 EAN (International Article Numbering association)
1000	Document/message name	X	an..35	
1004	DOCUMENT/MESSAGE NUMBER	R	an..35	Invoice number
1225	MESSAGE FUNCTION, CODED	X	an..3	<i>Jan Owe</i>
4343	RESPONSE TYPE, CODED	A	an..3	Code: AB Message acknowledgement is required (APERAK). NA No acknowledgement needed

DTM Date/time/period
Function: A segment specifying general dates and, when relevant, times related to the whole message.
Classification: Mandatory (M4).
Comments: The segment must be specified at least once to identify the invoice date (Message date).
Example: DTM+137:19980401:102'

Message date and Reporting period

>

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date/time/period qualifier	M	an..3	Code: 137 Message date 167 Charge period start date 168 Charge period end 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: 102 YYYYMMDD (137, 167, 168) <i>Jan Owe</i> 203 YYYYMMDDHHmm, (137, 167, 168) <i>Jan Owe</i> 805 Hour, (ZZZ)



MESSAGE: INVOIC

SG 1

Function: A group of segments for giving references relating to the whole message.
Classification: Dependent (D7).
Comments: Shall be used when the message is used as a Credit note.
Segments: RFF

RFF Reference
Function: A segment identifying the reference by its number and where appropriate a line number within a document.
Classification: Mandatory (M1).
Comments: IV Shall be used with Credit note.
Example: RFF+PQ:123456677'

Ref.	Name	Cl.	Form.	Description	
C506	REFERENCE	M			
1153	Reference qualifier	M	an..3	Reference qualifier Code: <i>AP</i> Accounts receivable number <i>CR</i> Customer reference number <i>CT</i> Contract number <i>IV</i> Invoice number <i>PL</i> Price list number <i>PQ</i> Payment reference (OCR, KID, FIK) <i>SS</i> Sellers reference number <i>MSC</i> Reference to MSCONS message	
Reference >	1154	Reference number	R	an..35	Reference
	1156	Line number	X	an..6	
	4000	Reference version number	X	an..35	



MESSAGE: INVOIC

SG 2

Function: A group of segments identifying the parties with associated information (i.e. names, addresses, locations, and contacts relevant to the whole message).

Classification: Required (R9).

Comments: Party name, Party address, Place and Post code should be used for the codes “SU” and “BY” if not other agreed in an Interchange Agreement.

Segments: NAD-SG3-SG5

NAD Name and address

Function: A segment identifying names and addresses of the parties, in coded and clear form, and their functions relevant to the invoice. Identification of the seller and buyer parties is mandatory for the invoice message. It is recommended that the name and address is specified in structured format.

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+SU+123456789:NO3:82++Power ASA+
Power street 14:P.O. Box 123+OSLO+2345++NO'

Party Id.

>

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 BY Buyer SU Supplier II Issuer of invoice IV Invoicee PE Payee DP Delivery party
C082	PARTY IDENTIFICATION DETAILS	R		
3039	Party id identification	M	an..35	Party identification
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)EDI Other Id. than power plant 82 «Enhetsregisteret» in Norway ELT Eltra SM Nord Pool ASA SLY Finnish Electricity Association 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	
Party name	>	C080	PARTY NAME	O		
		3036	Party name	M	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	
Party address	>	C059	STREET	D		
		3042	Street and number/P.O. Box	M	an..35	Street and number/P.O. Box
		3042	Street and number/P.O. Box	O	an..35	Street and number/P.O. Box
Place	>	3164	CITY NAME	O	an..35	Place
		3229	COUNTRY SUB-ENTITY IDENTIFICATION	X	an..9	
Post code	>	3251	POSTCODE IDENTIFICATION	O	an..9	Post code
Country	>	3207	COUNTRY, CODED	O	an..3	Code: NO Norway SE Sweden FI Finland DK Denmark



MESSAGE: INVOIC

SG 3

Function: A group of segment for giving references only relevant to the specified party rather than the whole invoice.

Classification: Dependent (D2).

- Comments:**
- “VA” or “GN” Shall always be used for the supplier (“SU” in the NAD segment).
 - “VA” or “GN” Shall be used internationally for the buyer (“BY” in the NAD segment).
 - “PQ”/”AP” is optional and only used for the supplier (“SU” in the NAD segment).

Segments: RFF

RFF Reference

Function: A segment identifying the reference by its number.

Classification: Mandatory (M1).

- Comments:** **For Norway:**
 1153: “VA” if VAT-obliged.
 “GN” if not VAT-obliged
 1154 (for “VA”):
 FORETAKSREGISTERET NO<orgnr>MVA
 or NO<orgnr>MVA
 1154 (for “GN”):
 FORETAKSREGISTERET NO<orgnr>
 or NO<orgnr>

- For Sweden:**
 1153: “VA” shall be used.
 1154 (for “VA”):
 SE<orgnr>

Example: RFF+VA: NO123456789MVA’

Reference >

Ref.	Name	Cl.	Form.	Description
C506	REFERENCE	M		
1153	Reference qualifier	M	an..3	Reference qualifier Code: VA VAT registration number GN Government reference number PQ Payment reference (OCR, KID, FIK) AP Accounts receivable number Jan Owe
1154	Reference number	R	an..35	Reference
1156	Line number	X	an..6	
4000	Reference version number	X	an..35	



MESSAGE: INVOIC

SG 5

Function: A group of segments giving contact details of the specific person or department within the party identified in the NAD segment.
Classification: Optional (O1).
Comments: *Used for the supplier ("SU" in the NAD segment).*
Segments: CTA, COM

CTA Contact information
Function: A segment to identify a person or department, and their function, to whom communications should be directed.
Classification: Mandatory (M1).
Comments: *«MR» is used together with «DO» in NAD, SG 2*
«MS» is used together with «FR» in NAD, SG 2
«IC» is used together with «CI» in NAD, SG 2
«SA» is used together with «SU» in NAD, SG 2
Example: CTA+SA+: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 SA Sales administration
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

Contact >

Comm.
 number

COM Communication contact
Function: A segment to identify a communications type and number
 for the contact specified in the CTA segment.
Classification: Optional (O3).
Comments:
Example: CTA+mr.power@power.com:EM'

Ref.	Name	Cl.	Form.	Description
C076	COMMUNICATION CONTACT	M		
3148	Communication number	M	an..25	Communication number
3155	Communication channel qualifier	M	an..3	Code: TE Telephone FX Telefax EM Electronic mail



MESSAGE: INVOIC

SG 7

Function: A group of segments specifying the currencies and related dates/periods valid for the whole invoice. Currency data maybe omitted in national applications but will be required for international transactions.

Classification: Dependent (D1).

Comments:

- Shall be used in international trade in the header or in the detail section.
- The use of this segment group should be specified in an Interchange Agreement.

Segments: CUX, DTM

CUX Currencies

Function: A segment identifying the currencies required in the invoice e.g. the invoice currency. A rate of exchange may be given to convert a reference currency into a target currency.

Classification: Mandatory (M1).

Comments: In the example below 100 SEK = 98.25 NOK

Example: CUX+2:SEK:4+3:NOK:11+98.25'

Reference
currency

Ref.	Name	Cl.	Form.	Description
C504	CURRENCY DETAILS	R		
6347	Currency details qualifier	M	an..3	Currency details qualifier Code: 2 Reference currency (the currency applicable to amounts stated. It may have to be converted).
6345	Currency, coded	R	an..3	ISO currency code Code: DEM Germany - Deutsche Mark DKK Denmark – Krone FIM Finland – Markka NLG Netherlands – Guilder NOK Norwegian – Krone RUR Russia – Ruble SEK Sweden – Krona XEU European Monetary Coop. Fund, (Euro)
6343	Currency qualifier	R	an..3	Currency qualifier Code: 4 Invoicing currency (the name or symbol of the monetary unit used for calculation in an invoice).
6348	Currency rate base	X	n..4	

Target currency	C504	CURRENCY DETAILS	O			
	6347	Currency details qualifier	R	an..3	Currency details qualifier Code: 3 Target currency (The currency which should be used to the target destination of the transaction).	
	6345	Currency, coded	R	an..3	ISO currency code Code: DEM Germany - Deutsche Mark DKK Denmark – Krone FIM Finland – Markka NLG Netherlands – Guilder NOK Norwegian – Krone SEK Sweden – Krona	
	6343	Currency qualifier	R	an..3	Currency qualifier Code: 11 Payment currency (the name or symbol of the monetary unit used for payment). 15 Sender local currency	
	6348	Currency rate base	X	n..4		
Rate of exchange	>	5402	RATE OF EXCHANGE	D	n..12	Rate of exchange
		6341	CURRENCY MARKET EXCHANGE, CODED	X	an..3	

Rate of exchange date/time	>	DTM	Date/time/period			
		Function:	A segment specifying the date related to the rate of exchange.			
		Classification:	Dependent (D1).			
		Comments:	Shall be used if “rate of exchange” is specified in the CUX segment.			
		Example:	DTM+134:19980204:102'			
		Ref.	Name	Cl.	Form.	Description
		C507	DATE/TIME/PERIOD	M		
		2005	Date/time/period qualifier	M	an..3	Code: 134 Rate of exchange date/time
		2380	Date/time/period	R	an..35	Date/time/period
		2379	Date/time/period format qualifier	R	an..3	Code: 102 YYYYMMDD



MESSAGE: INVOIC

SG 8

Function: A group of segments specifying the terms of payment applicable for the whole invoice.

Classification: Required (R1).

Comments:

Segments: PAT, DTM

PAT Payment terms basis

Function: A segment identifying the payment terms and date/time basis.

Classification: Mandatory (M1).

Comments: Payment date may be given in composite element C112 or in the DTM segment.

Example: PAT+3++66:1'

Payment terms type

Ref.	Name	Cl.	Form.	Description
4279	PAYMENT TERMS TYPE QUALIFIER	M	an..3	Code: 3 Fixed date
C110	PAYMENT TERMS	X		
4277	Terms of payment identification	X	an..17	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
4276	Terms of payment	X	an..35	
4276	Terms of payment	X	an..35	
C112	TERMS/TIME INFORMATION	R		
2475	Payment time reference, coded	M	an..3	Code: 66 Specified date
2009	Time relation, coded	R	an..3	Code: 1 Reference date
2151	Type of period, coded	X	an..3	
2152	Number of periods	X	n..3	

Terms net
 due date >

DTM Date/time/period
Function: A segment giving the specific date/time/period, if needed, of any payments, discounts, instalments etc.
Classification: Required (R1).
Comments:
Example: DTM+13:19980423:102'

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date/time/period qualifier	M	an..3	Code: 13 Terms net due date (date by which payment must be made.
2380	Date/time/period	R	an..35	Date
2379	Date/time/period format qualifier	R	an..3	Code: 102 YYYYMMDD



MESSAGE: INVOIC

SG 14

Function: A group of segments specifying allowances and charges for the whole invoice. The allowance or charge specified within this Segment group relates to the total invoice. It cannot be overridden at detail level. Where relevant, additional information, tax and alternate currency details are to be indicated in the TAX and MOA segments.

Classification: Dependent (D1).

Comments: Shall be used for allowances if this cannot be specified on the detail section.

Segments: ALC-SG17-SG18-SG20

ALC Allowance or charge

Function: A segment identifying the charge or allowance and, where necessary, its calculation sequence.

Classification: Mandatory (M1).

Comments: Data element C214 7160 should be used if not other agreed in an Interchange Agreement.

Example: ALC+A++2++DI::Large consumer discount'

Ref.	Name	Cl.	Form.	Description
5463	ALLOWANCE OR CHARGE QUALIFIER	M	an..3	Code: A Allowance
C552	ALLOWANCE/CHARGE INFORMATION	X		
1230	Allowance or charge number	X	an..35	
5189	Charge/allowance description, coded	X	an..3	
4471	SETTLEMENT, CODED	R	an..3	Code: 2 Off invoice (The allowance or charge is being deducted from the invoice).
1227	CALCULATION SEQUENCE INDICATOR, CODED	X	an..3	
C214	SPECIAL SERVICES IDENTIFICATION	R		
7161	Special services, coded	M	an..3	Code: DI Discount
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
7160	Special service	A	an..35	Description of Allowance or charge

Description >
Of allowance



MESSAGE: INVOIC

SG 17

Function: A group of segments specifying the percentage for the allowance or charge
Classification: Optional (O1).
Comments:
Segments: PCD

PCD Percentage details
Function: A segment identifying the percentage and the percentage basis for the calculation of the allowance or charge.
Classification: Mandatory (M1).
Comments:
Example: PCD+1:5'

Allowance
 Percentage >

Ref.	Name	Cl.	Form.	Description
C501	PERCENTAGE DETAILS	M		
5245	Percentage qualifier	M	an..3	Code: 1 Allowance Allowance Percentage
5482	Percentage	R	n..8	
5249	Percentage basis, coded	X	an..3	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	



MESSAGE: INVOIC

SG 18

Function: A group of segments specifying a monetary amount for an allowance or charge. A range to which the allowance or charge applies can be specified.
Classification: Required (R1).
Comments:
Segments: MOA

MOA Monetary amount
Function: A segment identifying the monetary amount for the allowance or charge.
Classification: Mandatory (M1).
Comments:
Example: MOA+204+2360'

Allowance amount

>

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 204 Allowance amount
5004	Monetary amount	R	n..18	Allowance amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	



MESSAGE: INVOIC

SG 20

Function: A group of segments specifying tax related information for the allowance or charge and.
Classification: Required (R1).
Comments: Used for Tax reduction on allowances.
Segments: TAX, MOA

TAX Duty/tax/fee details
Function: A segment specifying the tax type, category and rate, or exemption, related to the allowance or charge.
Classification: Mandatory (M1).
Comments:
Example: TAX+7+VAT+++:::22+S'

Tax rate

>

Ref.	Name	Cl.	Form.	Description
5283	DUTY/TAX/FEE FUNCTION QUALIFIER	M	an..3	Code: 7 Tax
C241 5153	DUTY/TAX/FEE TYPE Duty/tax/fee type, coded	R R	an..3	Code: VAT Value added tax
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5152	Duty/tax/fee type	X	an..35	
C533 5289	DUTY/TAX/FEE ACCOUNT DETAIL Duty/tax/fee account identification	X X	an..6	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5286	DUTY/TAX/FEE ASSESSMENT BASIS	X	an..15	
C243 5279	DUTY/TAX/FEE DETAIL Duty/tax/fee rate identification	R X	an..7	Tax rate
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5278	Duty/tax/fee rate	R	an..17	
5273	Duty/tax/fee rate basis identification	X	an..12	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5305	DUTY/TAX/FEE CATEGORY, CODED	R	an..3	
3446	PARTY TAX IDENTIFICATION NUMBER	X	an..20	

Tax amount >

MOA Monetary amount
Function: A segment specifying the amount for the allowance or charge.
Classification: Required (R1).
Comments: Used for Tax reduction on allowances.
Example: MOA+124+4360'

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 124 Tax amount
5004	Monetary amount	R	n..18	Tax amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	



MESSAGE: INVOIC

SG 22

Function: A group of segments providing details of the individual invoiced items. There must be at least one occurrence of Segment group 22 within an invoice, but not necessarily in a credit note or a debit note. This Segment group may be repeated to give sub-line details.

Classification: Dependent (D200000).

Comments:

Segments: LIN, PIA, IMD, QTY, DTM, SG 23, SG 25, SG 29, SG 30

LIN Line item

Function: A segment identifying the line item by the line number and configuration level, and additionally, identifying the product or service invoiced. Other product identification numbers, e.g. Supplier product number etc., can be specified within the following PIA segment.

Classification: Mandatory (M1).

Comments: Composite C212 shall be used if there is an EAN article number for the product – if not use the supplier article number in the PIA segment.

Example: LIN+4+1234567890123:EN::9'

Ref.	Name	Cl.	Form.	Description
1082	LINE ITEM NUMBER	R	n..6	Line number (sequence no.).
1229	ACTION REQUEST/ NOTIFICATION, CODED	X	an..3	
C212	ITEM NUMBER IDENTIFICATION	D		
7140	Item number	R	an..35	Product identification
7143	Item number type, coded	R	an..3	Code: EN International Article Numbering Association (EAN)
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	R	an..3	Code: 9 EAN (International Article Numbering association)
5495	SUB-LINE INDICATOR, CODED	X	an..3	
1222	CONFIGURATION LEVEL	X	n..2	
7083	CONFIGURATION, CODED	X	an..3	

PIA Additional product id
Function: A segment providing either additional identification to the product specified in the LIN segment (e.g. Harmonised System number), or provides any substitute product identification.
Classification: Dependent (D1).
Comments: Shall be used if EAN number is missing.
Example: PIA+1+8765885764:SA'

Article no. >

Ref.	Name	Cl.	Form.	Description
4347	PRODUCT ID FUNCTION QUALIFIER	M	an..3	Code: 5 Product identification
C212	ITEM NUMBER IDENTIFICATION	M		
7140	Item number	R	an..35	Article number
7143	Item number type, coded	R	an..3	Code: SA Supplier's article number
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	Code: ELT Eltra SLY Finnish Electricity Association SM Nord Pool ASA SVK Svenska Kraftnät
C212	ITEM NUMBER IDENTIFICATION	X		
7140	Item number	X	an..35	
7143	Item number type, coded	X	an..3	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
C212	ITEM NUMBER IDENTIFICATION	X		
7140	Item number	X	an..35	
7143	Item number type, coded	X	an..3	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
C212	ITEM NUMBER IDENTIFICATION	X		
7140	Item number	X	an..35	
7143	Item number type, coded	X	an..3	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
C212	ITEM NUMBER IDENTIFICATION	X		
7140	Item number	X	an..35	
7143	Item number type, coded	X	an..3	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	

IMD Item description
Function: A segment for describing the product or service being invoiced as well as product characteristic. This segment should be used for products or services that cannot be fully identified by a product code or article number.
Classification: Advised (A1).
Comments: The segment should be used if not other agreed in an Interchange Agreement.
Example: IMD+FL++:::Power consumption'

Product-
description

>

Ref.	Name	Cl.	Form.	Description
7077	ITEM DESCRIPTION TYPE, CODED	R	an..3	Code: F Free-form
7081	ITEM CHARACTERISTIC, CODED	X	an..3	
C273	ITEM DESCRIPTION	X		
7009	Item description identification	X	an..7	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
7008	Item description	R	an..35	Product description
7008	Item description	O	an..35	Product description
7383	SURFACE/LAYER INDICATOR, CODED	X	an..3	

QTY Quantity
Function: A segment identifying the product quantities e.g. invoiced quantity.
Classification: Required (R1).
Comments:
Example: QTY+47:20:KWH'

Quantity >
Measure unit >

Ref.	Name	Cl.	Form.	Description
C186	QUANTITY DETAILS	M		
6063	Quantity qualifier	M	an..3	Quantity qualifier Code: 47 Invoiced quantity
6060	Quantity	M	n..15	Quantity
6411	Measure unit qualifier	R	an..3	Code: 3B Megajoule GV Gigajoule GWH Gigawatt-hour KWH Kilowatt-hour KWT Kilowatt MAW Megawatt MQS Cubic metre/second, water MTQ Cubic metre MTR Metre MVA Megavolt-ampere MWH Megawatt-hour Z01 MWh/h Z02 kWh/h Z03 MVAh (MegaVolt-Ampere reactive power) Z04 MVAh/h (MegaVolt-Ampere reactive power) Z05 MW/Hz (Frequency adjustment) Z09 Megajoule/second

DTM Date/time/period
Function: A segment specifying date/time/period details relating to the line item only.
Classification: Optional (O2).
Comments:
Example: DTM+167:199807051200:203'

Charge period

>

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date/time/period qualifier	M	an..3	Date/time/period qualifier Code: 167 Charge period start date 168 Charge period end date
2380	Date/time/period	R	an..35	Charge period start/stop
2379	Date/time/period format qualifier	R	an..3	Date/time/period format qualifier Code: 203 YYYYMMDDHHmm



MESSAGE: INVOIC

SG 23

Function: A group of segments specifying any monetary amounts relating to the products and when necessary a currency.
Classification: Required (R2).
Comments:

- Currency shall be used in international trade in the header or in the detail section.
- The use of this segment group should be specified in an Interchange Agreement.

Segments: MOA, CUX

MOA Monetary amount
Function: A segment specifying any monetary amounts relating to the product, e.g. item amount, insurance value, customs value.
Classification: Mandatory (M1).
Comments:
Example: MOA+66:556784'

Monetary amount

>

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 66 Goods item total (Net price x quantity for the line item). 203 Line item amount (Goods item total minus allowances plus charges for line item).
5004	Monetary amount	R	n..18	Monetary amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	

CUX Currencies
Function: A segment identifying the currencies required in the line item, when is different from the heading currencies. A rate of exchange may be given to convert a reference currency into a target currency.
Classification: Dependent (D1).
Comments:

- Shall be used in international trade in the header or in the detail section.
- Only necessary for the first repetition after a change in currency or rate of exchange.
- In the example below 100 SEK = 98.25 NOK.

Example: CUX+2:SEK:4+3:NOK:11+98.25'

Reference
currency

>

Ref.	Name	Cl.	Form.	Description
C504	CURRENCY DETAILS	R		
6347	Currency details qualifier	M	an..3	Currency details qualifier Code: 2 Reference currency (the currency applicable to amounts stated. It may have to be converted).
6345	Currency, coded	R	an..3	ISO currency code Code: DEM Germany - Deutsche Mark DKK Denmark - Krone FIM Finland - Markka NLG Netherlands - Guilder NOK Norwegian - Krone RUR Russia - Ruble SEK Sweden - Krona XEU European Monetary Coop. Fund, (Euro)
6343	Currency qualifier	R	an..3	Currency qualifier Code: 4 Invoicing currency (the name or symbol of the monetary unit used for calculation in an invoice).
6348	Currency rate base	X	n..4	

Target currency	>	C504	CURRENCY DETAILS	R		
		6347	Currency details qualifier	R	an..3	Currency details qualifier Code: 3 Target currency (The currency which should be used to the target destination of the transaction).
		6345	Currency, coded	R	an..3	ISO currency code Code: DEM Germany - Deutsche Mark DKK Denmark – Krone FIM Finland – Markka NLG Netherlands – Guilder NOK Norwegian – Krone RUR Russia – Ruble SEK Sweden – Krona XEU European Monetary Coop. Fund, (Euro)
		6343	Currency qualifier	R	an..3	Currency qualifier Code: 11 Payment currency (the name or symbol of the monetary unit used for payment). 15 Sender local currency
		6348	Currency rate base	X	n..4	
Rate of exchange	>	5402	RATE OF EXCHANGE	D	n..12	Rate of exchange
		6341	CURRENCY MARKET EXCHANGE, CODED	X	an..3	



MESSAGE: INVOIC

SG 25

Function: A group of segments identifying the relevant pricing information for the goods or services invoiced

Classification: Required (R1)

Comments:

Segments: PRI

PRI Price details

Function: A segment to specify the price type and amount. The price used in the calculation of the line amount will be identified as 'Price'. Indication of "net price" or "gross price" can be given in 5387 "Price type qualifier".

Classification: Mandatory (M1).

Comments: Measure unit shall be the same as for the quantity in the QTY segment.

Example: PRI+AAA:90.46:CT'

Contract price

>

Ref.	Name	Cl.	Form.	Description
C509	PRICE INFORMATION	R		
5125	Price qualifier	M	an..3	Code: AAA Calculation net (The price stated is the net price including allowances/charges).
5118	Price	R	n..15	Contract price
5375	Price type, coded	R	an..3	Code: CT Contract
5387	Price type qualifier	X	an..3	
5284	Unit price basis	X	n..9	
6411	Measure unit qualifier	X	an..3	
5213	SUB-LINE PRICE CHANGE, CODED	X	an..3	



MESSAGE: INVOIC

SG 29

Function: A group of segments specifying destination and quantity details for consignments involving multi-destination deliveries for a specified line item.
Classification: Dependent (D1).
Comments: In EDIEL used for “Meter location”.
Segments: LOC, QTY, DTM

LOC Place/location identification
Function: A segment indicating the location to which part of the consignment has been delivered.
Classification: Mandatory (M1).
Comments:
Example: LOC+7+9876543210987::9’

Meter

>

Ref.	Name	Cl.	Form.	Description
3227	PLACE/LOCATION QUALIFIER	M	an..3	Code: 7 Place of delivery
C517	LOCATION IDENTIFICATION	R		
3225	Place/location identification	R	an..25	EAN location number or Meter number
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 (Grid owner)
3224	Place/location	X	an..70	
C519	RELATED LOCATION ONE IDENTIFICATION	X		
3223	Related place/location one identification	X	an..25	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
3222	Related place/location one	X	an..70	
C553	RELATED LOCATION TWO IDENTIFICATION	X		
3233	Related place/location two identification	X	an..25	
1131	Code list qualifier	X	an..3	
3055	Code list responsible agency, coded	X	an..3	
3232	Related place/location two	X	an..70	
5479	RELATION, CODED	X	an..3	

Quantity

Meter reading date

QTY Quantity
Function: A segment specifying the quantity delivered to the identified location.
Classification: Optional (O3).
Comments:
Example: QTY+74:23456'

Ref.	Name	Cl.	Form.	Description
C186	QUANTITY DETAILS	M		
6063	Quantity qualifier	M	an..3	Quantity qualifier Code: 74 Latest cumulative quantity 79 Previous cumulative quantity 129 Units per unit price (Constant)
6060	Quantity	M	n..15	Quantity
6411	Measure unit qualifier	X	an..3	

DTM Date/time/period
Function: A segment specifying the dates and/or times that the delivery has been made.
Classification: Optional (O2).
Comments:
Example: DTM+367:19980405:102'

Ref.	Name	Cl.	Form.	Description
C507	DATE/TIME/PERIOD	M		
2005	Date/time/period qualifier	M	an..3	Date/time/period qualifier Code: 367 Previous meter reading date 368 Latest meter reading date
2380	Date/time/period	R	an..35	Meter reading date
2379	Date/time/period format qualifier	R	an..3	Date/time/period format qualifier Code: 102 YYYYMMDD



MESSAGE: INVOIC

SG 30

- Function:** A group of segments specifying tax related information for the line item, and when necessary, the location(s) to which that tax information relates.
- Classification:** Dependent (D2).
- Comments:** Shall be used if VAT (Value Added Tax) or Energy fee is relevant for this line item.
- Segments:** TAX, MOA

TAX Duty/tax/fee details
Function: A segment specifying a tax type, category and rate, or exemption, relating to the line item.
Classification: Mandatory (M1).
Comments:

- Data element C241 3055 is used together with «ENG».
- Data element C243 5273 is used together with «ENG».
- Data element C243 3055 is used together with «ENG».

Example: TAX+7+ENG::60+++::432:KVH::60+S'

Tax/fee type >

Ref.	Name	Cl.	Form.	Description
5283	DUTY/TAX/FEE FUNCTION QUALIFIER	M	an..3	Code: 7 Tax
C241 5153	DUTY/TAX/FEE TYPE Duty/tax/fee type, coded	R R	an..3	Code: VAT Value added tax ENG "Energy fee" CST Commodity specific tax??
1131 3055	Code list qualifier Code list responsible agency, coded	X D	an..3 an..3	Code: 60 Assigned by national trade agency
5152	Duty/tax/fee type	X	an..35	
C533	DUTY/TAX/FEE ACCOUNT DETAIL	X		
5289	Duty/tax/fee account identification	X	an..6	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5286	DUTY/TAX/FEE ASSESSMENT BASIS	X	an..15	
C243 5279	DUTY/TAX/FEE DETAIL Duty/tax/fee rate identification	R X	an..7	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5278	Duty/tax/fee rate	R	an..17	<ul style="list-style-type: none"> • Percentage for VAT • Energy fee for ENG
5273	Duty/tax/fee rate basis identification	D	an..12	Code: KWH Kilowatt
1131 3055	Code list qualifier Code list responsible agency, coded	X D	an..3 an..3	Code: 60 Assigned by national trade agency
5305	DUTY/TAX/FEE CATEGORY, CODED	R	an..3	Code: S Standard rate E Exempt from tax
3446	PARTY TAX IDENTIFICATION NUMBER	X	an..20	

Tax/fee rate >

Tax amount >

MOA Monetary amount
Function: A segment specifying the amount for the identified tax/fee.
Classification: Required (R1).
Comments: Use "0" (Zero) as "Tax amount" if there are no VAT or Energy fee on this line item.
Example: MOA+124+260'

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 124 Tax amount
5004	Monetary amount	R	n..18	Tax amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	



MESSAGE: INVOIC

SG 0

Function: Summary Section
Classification: Mandatory (M1).
Comments:
Segments: UNS, CNT, SG 45, SG 47, UNT

UNS Section control
Function: A service segment placed at the start of the summary section to avoid segment collision.
Classification: Mandatory (M1).
Comments:
Example: UNS+S'

Ref.	Name	Cl.	Form.	Description
0081	SECTION IDENTIFICATION	M	a1	Code: S Detail/summary section separation

CNT Control total
Function: A segment by which control totals may be provided by the sender for checking by the receiver.
Classification: Required (R2).
Comments: The code "2" in data element C270 6069 is required, code "1" is advised to be used.
Example: CNT+2:35'

Ref.	Name	Cl.	Form.	Description
C270	CONTROL	M		
6069	Control qualifier	M	an..3	Code: 1 Algebraic total of the quantity values in line items in a message 2 Number of line items in message
6066	Control value	M	n..18	Control totals
6411	Measure unit qualifier	X	an..3	

Control Totals >



MESSAGE: INVOIC

SG 45

Function: A group of segments giving total amounts for the whole invoice and - if relevant - detailing amounts pre-paid with relevant references and dates.
Classification: Required (R6).
Comments:
Segments: MOA

MOA Monetary amount
Function: A segment giving the total amounts for the whole invoice message such as message monetary amount, message line item total amount, amount subject to payment discount, amount subject to tax, alternative currency total amount, total additional amount, sub-total amounts prepaid, total amount prepaid.
Classification: Mandatory (M1).
Comments: Currency should be given in the CUX segment in the header section.
Example: MOA+125:6450'

Type of amount

>

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 9 Amount due/amount payable (Amount to be paid.). 79 Total line items amount. 113 Prepaid amount (Amount which has been prepaid in advance). 125 Taxable amount. 131 Total charges/allowances (The amount specified is the total of all charges/allowances). 176 Message total duty/tax/fee amount.
5004	Monetary amount	R	n..18	Amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	

Amount

>



MESSAGE: INVOIC

SG 47

Function: A group of segments specifying taxes totals for the invoice.
Classification: Dependent (D10).
Comments: Shall be used if the TAX segment is used in the header- or detail section.
Segments: TAX, MOA

TAX Duty/tax/fee details
Function: A segment specifying the tax type to be summarised.
Classification: Mandatory (M1).
Comments:

- The code RED is connected to tax reduction that is specified in the TAX segment in the header section.
- Data element C241 3055 is used together with «ENG» and “RED”.
- Data element C243 5273 is used together with «ENG».
- Data element C243 3055 is used together with «ENG».
- Data element 5305 is used together with «VAT» and “RED”.

Example: TAX+7+VAT++++:::22+S'

Ref.	Name	Cl.	Form.	Description
5283	DUTY/TAX/FEE FUNCTION QUALIFIER	M	an..3	Code: 7 Tax
C241 5153	DUTY/TAX/FEE TYPE Duty/tax/fee type, coded	R R	an..3	Code: VAT Value added tax RED Reduced Value added tax ENG "Energy fee"
1131 3055	Code list qualifier Code list responsible agency, coded	X D	an..3 an..3	Code: 60 Assigned by national trade agency
5152	Duty/tax/fee type	X	an..35	
C533	DUTY/TAX/FEE ACCOUNT DETAIL	X		
5289	Duty/tax/fee account identification	X	an..6	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5286	DUTY/TAX/FEE ASSESSMENT BASIS	X	an..15	
C243 5279	DUTY/TAX/FEE DETAIL Duty/tax/fee rate identification	X X	an..7	
1131 3055	Code list qualifier Code list responsible agency, coded	X X	an..3 an..3	
5278	Duty/tax/fee rate	R	an..17	<ul style="list-style-type: none"> Percentage for VAT Energy fee for ENG
5273	Duty/tax/fee rate basis identification	D	an..12	Code: KWH Kilowatt
1131 3055	Code list qualifier Code list responsible agency, coded	X D	an..3 an..3	Code: 60 Assigned by national trade agency
5305	DUTY/TAX/FEE CATEGORY, CODED	R	an..3	Code: S Standard rate E Exempt from tax
3446	PARTY TAX IDENTIFICATION NUMBER	X	an..20	

Tax/fee type

Tax/fee rate

>

MOA Monetary amount
Function: A segment specifying the summary amount for the tax specified.
Classification: Required (R2).
Comments:

- The codes “124” and “125” are both required for “VAT” and “RED” in the TAX segment.
- The code “124” is required for “ENG” in the TAX segment.

Example: MOA+124+4598'

Tax(able)
Amount

>

Ref.	Name	Cl.	Form.	Description
C516	MONETARY AMOUNT	M		
5025	Monetary amount type qualifier	M	an..3	Code: 124 Tax amount (Tax imposed by government or other official authority related to the weight/volume charge or valuation charge). 125 Taxable amount
5004	Monetary amount	R	n..18	Tax(able) Amount
6345	Currency, coded	X	an..3	
6343	Currency qualifier	X	an..3	
4405	Status, coded	X	an..3	



MESSAGE: INVOIC

SG 0

Function: Message trailer
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+34+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 - EXAMPLE OF AN EDIFACT MESSAGE