COMPETEC

Supplier Invoice Message

EDIFACT D01B INVOIC

Version: 1.1

Author: Competec Service AG

Created: 01.05.2023

Changelog

Version	Date	Change	Author
1.0	01.05.2023	Initial definition	SEBR
1.1	25.07.2023	Corrections	DAO

Status Codes

Code	Description
M	Mandatory D01B Field
C	Conditional D01B Field

Colors Codes

Color	Description
	Mandatory Competec Field
	Conditional Competec Field
	Field not used by Competec

References

https://unece.org/trade/uncefact/introducing-unedifact

https://www.stylusstudio.com/edifact/D96A/INVOIC.htm

Head Section

UNB | Interchange Header					
Pos	Segment/Element	Description	Status	Example	Remarks
010	S001	SYNTAX IDENTIFIER	M		
	0001	Syntax identifier	M	+UNOC	
	0002	Syntax version number	M	:3	***Supported codes:*** 3, 4
020	S002	INTERCHANGE SENDER	M		
	0004	Interchange sender identification	M	+7609999…	Sender Party GLN
	0007	Identification code qualifier	C	:14	14 = EAN International
030	S003	INTERCHANGE RECIPIENT	M		
	0010	Interchange recipient identification	M	+762440…	Receiver Party GLN
	0007	Identification code qualifier	C	:14	14 = EAN International 59 = ODETTE
040	S004	DATE AND TIME OF PREPARATION	M		
	0017	Date	M	+20220707	yyMMdd
	0019	Time	M	:1155	HHmm
050	0020	Interchange control reference	M	+123	
	…				Not in use
110	0035	Test indicator	C	+1	1 = Test

Example:

UNB+UNOC:4+7609999999999:14+7601111111111:14+20240707:1155+123++++++1'

0010 | Segment | UNH | Message Header

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

Pos	Segment/Element	Description	Status	Example	Remarks
010	0062	MESSAGE REFERENCE NUMBER	M	+11	
020	S009	MESSAGE IDENTIFIER	M		
	0065	Message type	M	+INVOIC	
	0052	Message version number	M	:D	
	0054	Message release number	M	:01B	
	0051	Controlling agency, coded	M	:UN	
	0057	Association assigned code	C	:EAN010	
	…		C		Not in use

Example:

```
UNH+11+INVOIC:D:01B:UN:EAN010'
```

0020 | Segment | BGM | Beginning of message

A segment by which the sender must uniquely identify the invoice by means of its type and number and when necessary its function.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C002	DOCUMENT/MESSAGE NAME	C		
	1001	Document name code	C	+380	***Supported codes:*** 380 = Invoice
	…		C		Not in use
020	1004	Document identifier	C	+22095031075	Invoice nbr.
030	1225	Message function, coded	C	+9	***Supported codes:*** 9 = Original
040	4343	Response type, coded	C		Not in use

Example:

```
BGM+380+22095031075+9'
```

0030 | DTM | Date/time/period					
A segment specifying general dates and, when relevant, times related to the whole message.					
Pos	**Segment/Element**	**Description**	**Status**	**Example**	**Remarks**
010	C507	DATE/TIME/PERIOD	M		
	2005	Date/time/period qualifier	M	+137	*Supported codes:* 3 = Invoice Date 137 = Document date 35 = Delivery Date
	2380	Date/time/period	C	:20220705	
	2379	Date/time/period format qualifier	C	:102	*Supported codes:* 102 = CCYYMMDD

Example:

DTM+137:20220705:102'

DTM+35:20220705:102'

0120 | Segment Group 1 | References and Dates

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

SG1 Used Segment List

Pos	Tag	Name
0130	RFF	Reference
0140	DTM	Date/time/period

0130 | Segment | RFF | Reference

A segment to specify a reference by its number.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C506	REFERENCE	M		
	1153	Reference qualifier	M	+ON	*Supported codes:* ON = Order nr. (buyer) VN = Order nr. (supplier) IV = Invoice nr. AAK = Despatch advice nr. PQ = Payment reference (QR Reference)
	1154	Reference number	C	:1990845089'	
	...				Not in use

Example:

RFF+ON:1990845089'

0140 | Segment | DTM | Date/time/period

A segment specifying the date/time related to the reference.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C507	DATE/TIME/PERIOD	M		
	2005	Date/time/period qualifier	M	+171	*Supported codes:* 171 = Reference date/time
	2380	Date/time/period	C	:20230419	
	2379	Date/time/period format qualifier	C	:102	*Supported codes:* 102 = CCYYMMDD

Example:

DTM+171:20230419:102'

0220 | Segment Group 2 | Invoice Parties

A group of segments identifying the parties with associated information.

SG2 Used Segment List

Pos	Tag	Name
0230	NAD	Name & Address
0250	FII	Financial institution information
0270	SG3	Party References and Dates

0230 | Segment | NAD | Name and address

A segment identifying names and addresses of the parties and their functions relevant to the invoice.

Pos	Segment/Element	Description	Status	Example	Remarks
010	3035	Party qualifier	M	+SU	***Supported codes:*** SU = Supplier BY = Buyer DP = Delivery Party
020	C082	PARTY IDENTIFICATION DETAILS	C		
	3039	Party id. identification	M	+760999…	
030	C058	NAME AND ADDRESS	C		Not in use
040	C080	PARTY NAME	C		
	3036	Party name	M	+Sample Company	Address name 1
	3036	Party name	C	:John Doe	Address name 2
050	C059	STREET	C		
	3042	Street and number/p.o. box	M	+Streetname 1	Street name 1
	3042	Street and number/p.o. box	C	:Building 10b	Street name 2
060	3164	City name	C	+Zürich	
070	3229	Country sub-entity identification	C		Not in use
080	3251	Postcode identification	C	+8005	PLZ
090	3207	Country, coded	C	+CH	

Example:

```
NAD+SU+7609999111111::9++Company AG+Musterstrasse 11+Musterhausen++1234+CH'
```

0250	Segment	FII	Financial institution information				
A segment identifying the financial institution (e.g. bank) and relevant account numbers for the seller, buyer and where necessary other parties.							

Pos	Segment/Element		Description	Status	Example	Remarks
010	3035		Party qualifier	M	+RB	*Supported codes:* RB = Receiving financial institution
020	C078		ACCOUNT IDENTIFICATION	C		
		3194	Account holder number	C	:CH94307…	QR IBAN
030	C088		INSTITUTION IDENTIFICATION	C		Not used
040	3207		Country, coded	C		Not used

Example:

`FII+RB+CH9430761016097605323'`

0270	Segment Group 3	Party References and Dates
A group of segment for giving references only relevant to the specified party rather than the whole invoice.

SG3 Used Segment List

Pos	Tag	Name
0280	RFF	Reference

0280	Segment	RFF	Party Reference			
A segment identifying a party reference by its number.						

Pos	Segment/Element		Description	Status	Example	Remarks
010	C506		REFERENCE	M		
		1153	Reference qualifier	M	+VA	*Supported codes:* VA = VAT registration number
		1154	Reference number	C	:CHE191398369	The declaration of the VAT number of the invoicing party/renderer of service (code II from NAD) is mandatory. The UID number has to be submitted in the format CHE999999999

Example:

`RFF+VA:CHE191398369'`

0360 | Segment Group 6 | Tax information

A group of segments specifying tax related information.

SG6 Used Segment List

Pos	Tag	Name
0370	TAX	Reference
0380	MOA	Monetary amount

0370 | Segment | TAX | Duty/tax/fee details

A segment specifying a tax type, category and rate or exemption, relating to the whole invoice e.g. Value Added Tax at the standard rate is applicable for all items.

Pos	Segment/Element	Description	Status	Example	Remarks
010	5283	Duty/tax/fee function qualifier	M	+7	*Supported codes:* 7 = Tax
020	C241	DUTY/TAX/FEE TYPE	C		
	5153	Duty/tax/fee type, coded	C	+VAT	*Supported codes:* VAT = Value added tax
030	C533	DUTY/TAX/FEE ACCOUNT DETAIL	C		Not used
040	5286	Duty/tax/fee assessment basis	C		Not used
050	C243	DUTY/TAX/FEE DETAIL	C		
	5278	Duty/tax/fee rate	C	:8.1	VAT rate
060	5305	Duty/tax/fee category, coded	C	+S	*Supported codes:* S = Standard rate
070	3446	Party tax identification number	C		Not used

Example:

`TAX+7+VAT+++:::8.1+S'`

0380 | Segment | MOA | Monetary amount

A segment specifying the amount for the identified tax/fee.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C516	MONETARY AMOUNT	M		
	5025	Monetary amount type qualifier	M	+1	*Supported codes:* 1 = VAT, 1st value
	5004	Monetary amount	C	:0.62	
	6345	Currency, coded	C	:CHF	*Supported codes:* CHF
	…				

Example:

MOA+1:0.62:CHF'

0400 | Segment Group 7 | Currencies

A group of segments specifying the currencies and related dates/periods valid for the whole invoice.

SG7 Used Segment List

Pos	Tag	Name
0410	CUX	Currencies

0410 | Segment | CUX | Currencies

A segment identifying the invoice currency.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C504	CURRENCY DETAILS	C		
	6347	Currency details qualifier	M	+2	*Supported codes:* 2 = Reference currency
	6345	Currency, coded	C	:CHF	*Supported codes:* CHF
	6343	Currency qualifier	C	:4	*Supported codes:* 4 = Invoicing currency

Example:

CUX+2:CHF:4'

0430 | Segment Group 8 | Terms of payment

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

SG8 Used Segment List

Pos	Tag	Name
0440	PAT	Payment term basis

0440 | Segment | PAT | Payment terms basis

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

Pos	Segment/Element	Description	Status	Example	Remarks
010	4279	Payment terms type qualifier	M	+1	*Supported codes:* 1 = Basic
020	C110	PAYMENT TERMS	C		Not used
030	C112	TERMS/TIME INFORMATION	C		
	2475	Payment time reference, coded	M	+5	*Supported codes:* 5 = Date of invoice
	2009	Time relation, coded	C	:3	*Supported codes:* 3 = After reference
	2151	Type of period, coded	C	:D	*Supported codes:* D = Day
	2152	Number of periods	C	:20	Due date as absolute number of days after invoicing

Example:

```
PAT+1++5:3:D:20'
```

Detail Section

1090	Segment Group 26	Lines
A group of segments providing details of the individual invoiced items.

SG25 Used Segment List

Pos	Tag	Name
1100	LIN	Line item
1110	PIA	Additional product id
1130	IMD	Item description
1150	QTY	Quantity
1200	GIR	Related identification numbers
1030	SG27	Line item monetary amounts
1330	SG29	Line item prices
1310	SG34	Line item Tax information

1100	Segment	LIN	Line item			
A segment identifying the line item by the line number and configuration level, and additionally, identifying the product or service ordered.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	1082	Line item number	C	+1	
020	1229	Action request/notification, coded	C		Not used
030	C212	ITEM NUMBER IDENTIFICATION	C		
	7140	Item number	C	+9120072855368	EAN
	7143	Item number type, coded	C	:SRV	*Supported codes:* SRV = EAN.UCC Global Trade Item Number EN = International Article Numbering Association (EAN)
040	C829	SUB-LINE INFORMATION	C		Not used
050	1222	Configuration level	C		Not used
060	7083	Configuration, coded	C		Not used

Example:

```
LIN+1++4047443223210:SRV'
```

1110 | Segment | PIA | Additional product id						
A segment providing either additional identification to the product specified in the LIN segment.						
Pos	**Segment/Element**	**Description**	**Status**	**Example**	**Remarks**
010	4347	Product id. function qualifier	M	+1	*Supported codes:* 1 = Additional identification 5 = Product identification
020	C212	ITEM NUMBER IDENTIFICATION	M		
	7140	Item number	C	+1451693	
	7143	Item number type, coded	C	:SA	*Supported codes:* SA = Supplier article nr. IN = Buyer's item nr.
030	C212	ITEM NUMBER IDENTIFICATION	C		Not used
040	C212	ITEM NUMBER IDENTIFICATION	C		Not used
050	C212	ITEM NUMBER IDENTIFICATION	C		Not used
060	C212	ITEM NUMBER IDENTIFICATION	C		Not used

Example:

PIA+1+1451693:SA'

PIA+1+18906117:IN'

1130	Segment	IMD	Item description				
A segment for describing the product or service being ordered.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	7077	Item description type, coded	C	+F	*Supported codes:* A = Free-form long description F = Free form
020	7081	Item characteristic, coded	C		Not in use
030	C273	ITEM DESCRIPTION	C		
	...				Not in use
	7008	Item description	C	:Buttergipfel	First 35 description chars
	7008	Item description	C	:Extra Knusprig	Second 35 description chars (descriptions longer than 70 chars will be trimmed)
040	7383	Surface/layer indicator, coded	C		Not in use

Example:

```
IMD+F++:::Buttergipfel:Extra Knusprig'
```

1150	Segment	QTY	Quantity				
A segment identifying the invoiced quantity.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	C186	QUANTITY DETAILS	M		
	6063	Quantity qualifier	M	+47	*Supported codes:* 47 = Invoiced quantity
	6060	Quantity	M	:2	Only integer values supported
	6411	Measure unit qualifier	C	:PCE	*Supported codes:* PCE = Piece

Example:

```
QTY+47:2:PCE'
```

1200	Segment	GIR	Related identification numbers

A segment providing sets of related identification numbers for a line item, e.g. serial numbers, if available.

Pos	Segment/Element	Description	Status	Example	Remarks
010	7297	Set identification qualifier	M	+1	*Supported codes:* 1 = Product
020	C206	IDENTIFICATION NUMBER	M		
	7402	Identity number	M	+GPKBD1102A123456	
	7405	Identity number qualifier	C	:BN	*Supported codes:* BN = Serial number

Example:

```
GIR+1+GPKBD1102A123456:BN'

GIR+1+GPKBD1102A678910:BN'
```

1250 | Segment Group 27 | Line Amounts

A group of segments specifying any monetary amounts relating to the products and when necessary a currency.

SG27 Used Segment List

Pos	Tag	Name
1260	MOA	Monetary amount

1260 | Segment | MOA | Monetary amount

A segment specifying any monetary amounts relating to the product.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C516	MONETARY AMOUNT	M		
	5025	Monetary amount type qualifier	M	+203	*Supported codes:* 203 = Line item amount 66 = Goods item total (Net price times quantity for the line item)
	5004	Monetary amount	C	:11.78	

Example:

```
MOA+203:11.78'
```

1330 | Segment Group 29 | Price

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

SG28 Used Segment List

Pos	Tag	Name
1340	PRI	Price details

1340 | Segment | PRI | Price details

A segment to specify the price type and amount.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C509	PRICE INFORMATION	C		
	5125	Price qualifier	M	+AAA	*Supported codes:* AAA = Calculation net
	5118	Price	C	:5.89	
020	5213	Sub-line price change, coded	C		Not in use

Example:

PRI+AAA:5.89'

1390 | Segment Group 30 | References

A group giving references and where necessary, their dates, relating to the line item.

SG30 Used Segment List

Pos	Tag	Name
1400	RFF	Order ID and Line number

1400 | Segment | RFF | Reference

A segment to specify the price type and amount.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C506	REFERENCE	C		
	1153	Reference code qualifier	M	+ON	*Supported codes:* ON = Order nr. (buyer) VN = Order nr. (supplier) LI = Line item reference nr.
	1154	Referenz identifier	C	:1990845089	Order nr.
	1156	Document line identifier	C	:1	
	…		C		Not in use

Example:

```
RFF+ON:1990845089:1'

RFF+LI:10000'
```

1550 | Segment Group 34 | Line item tax

A group of segments specifying tax related information for the line item

SG34 Used Segment List

Pos	Tag	Name
1560	TAX	Duty/tax/fee details
1570	MOA	Monetary amount

1560 | Segment | TAX | Duty/tax/fee details

A segment specifying a tax type, category and rate, or exemption, relating to the line item.

Pos	Segment/Element	Description	Status	Example	Remarks
010	5283	Duty/tax/fee function qualifier	M	+7	*Supported codes:* 7 = Tax
020	C241	DUTY/TAX/FEE TYPE	C		
	5153	Duty/tax/fee type, coded	C	+VAT	*Supported codes:* VAT = Value added tax
030	C533	DUTY/TAX/FEE ACCOUNT DETAIL	C		Not used
040	5286	Duty/tax/fee assessment basis	C		Not used
050	C243	DUTY/TAX/FEE DETAIL	C		
	...				
	5278	Duty/tax/fee rate	C	:2.6	VAT rate
060	5305	Duty/tax/fee category, coded	C	+S	*Supported codes:* S = Standard rate
070	3446	Party tax identification number	C		Not used

Example:

TAX+7+VAT+++:::2.6+S'

1570 | Segment | MOA | Monetary amount				
A segment specifying the amount for the identified tax/fee.				

Pos	Segment/Element	Description	Status	Example	Remarks
010	C516	MONETARY AMOUNT	M		
	5025	Monetary amount type qualifier	M	+124	*Supported codes:* 124 = Tax amount 125 = Taxable amount
	5004	Monetary amount	C	:0.62	
	6345	Currency, coded	C	:CHF	

Example:

`MOA+125:410.6:CHF'`

`MOA+124:31.62:CHF'`

Summary section

2170 | Segment | UNS | Section control					
A service segment placed at the start of the summary section to avoid segment collision.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	0081	Section identification	M	+S	*Supported codes:* S = Detail/summary section separation

Example:

UNS+S'

2190 | Segment Group 50 | Total amounts
A group of segments giving total amounts for the whole invoice and - if relevant -detailing amounts pre-paid with relevant references and dates.

SG50 Used Segment List

Pos	Tag	Name
2200	MOA	Monetary amount
2240	SG52	A group of segments specifying taxes totals for the invoice.

2200 | Segment | MOA | Monetary amount					
A segment giving the total amounts for the whole invoice message.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	C516	MONETARY AMOUNT	M		
	5025	Monetary amount type qualifier	M	+77	*Supported codes:* 47 = Delivery fee 77 = Invoice amount 79 = Total line items amount 86 = Total monetary amount 124 = Tax amount 125 = Taxable Amount
	5004	Monetary amount	C	:13.37	

Example:

MOA+77:13.37'

MOA+86:500.91'

2240 | Segment Group 52 | Taxes and Totals

A group of segments specifying taxes totals for the invoice.

SG52 Used Segment List

Pos	Tag	Name
2250	TAX	Duty/tax/fee details
2260	MOA	Monetary Amount

2250 | Segment | TAX | Duty/tax/fee details

A segment specifying a tax type, category and rate or exemption, relating to the whole invoice e.g. Value Added Tax at the standard rate is applicable for all items.

Pos	Segment/Element	Description	Status	Example	Remarks
010	5283	Duty/tax/fee function qualifier	M	+7	*Supported codes:* 7 = Tax
020	C241	DUTY/TAX/FEE TYPE	C		
	5153	Duty/tax/fee type, coded	C	+VAT	*Supported codes:* VAT = Value added tax
030	C533	DUTY/TAX/FEE ACCOUNT DETAIL	C		Not used
040	5286	Duty/tax/fee assessment basis	C		Not used
050	C243	DUTY/TAX/FEE DETAIL	C		
	5278	Duty/tax/fee rate	C	:8.1	VAT rate
060	5305	Duty/tax/fee category, coded	C	+S	*Supported codes:* S = Standard rate
070	3446	Party tax identification number	C		Not used

Example:

TAX+7+VAT+++:::8.1+S'

2260 | Segment | MOA | Monetary amount					
A segment giving the total amounts for the whole invoice message.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	C516	MONETARY AMOUNT	M		
	5025	Monetary amount type qualifier	M	+124	*Supported codes:* 124 = Tax amount 125 = Taxable amount
	5004	Monetary amount	C	:35.81	

Example:

MOA+124:35.81'

MOA+125:465.1'

2320 | 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.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	0074	Number of segments in a message	M	+39	
020	0062	Message reference number	M	+20210520083649'	Message reference number from UNH segment

Example:

UNT+39+11'

UNZ | Interchange trailer					
To end and check the completeness of an interchange.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	0036	Interchange control count	M	+1	
020	0020	Interchange control reference	M	+123	Interchange control reference from UNB segment

Example:

UNZ+1+123'

Example INVOIC Message

	UNA:+.? '	
	UNB+UNOC:4+7609999999999:14+7601111111111:14+20240707:1155+123++++++1'	
	UNH+11+INVOIC:D:01B:UN:EAN010'	
	BGM+380+22095031075+9'	
	DTM+3:20230419:102' DTM+137:20210520:102'	
Header	RFF+ON:PO1337' DTM+171:20220614:102' RFF+AAK:31036674'	SG1
	NAD+SU+7609999123456::9++Test Supplier AG+Teststreet 1+City++1234+CH'FII+RB+CH9430761016097605323' RFF+VA:CHE101234567'	SG2
	NAD+BY+7609999129308::9' RFF+VA:CHE105991234'	SG2
	NAD+DP+7613081000000::9++Alltron AG+Rossgassmoos 10+Willisau++6131+CH'	SG2
	CUX+2:CHF:4' SG7	
Detail	LIN+1++4047443223210:SRV' PIA+1+345087:IN' PIA+1+00111363:SA' IMD+F++CU::9:Zwischenbausatz Waschmaschinen::DE' QTY+47:10:PCE'	SG26
	MOA+203:410.6'	SG27
	PRI+AAA:41.06'	SG29
	RFF+ON:1990845089:17' RFF+LI:10000'	SG30
	TAX+7+VAT+++:::8.1' MOA+125:410.6' MOA+124:31.62'	SG34
Summary	UNS+S'	
	MOA+86:500.91'	SG50
	TAX+7+VAT+++:::7.7' MOA+124:35.81' MOA+125:465.1'	SG52
	UNT+46+11' UNZ+1+123'	