Customer Invoice Message

EDIFACT D01B INVOIC

Version: 1.2

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Changelog

Version	Date	Change	Author
1.0	13.06.2023	Initial definition	DAO
1.1	20.06.2023	Add line level order number references	DAO
1.2	03.04.2025	Rebrand to Brack.Alltron	BRA

Status Codes

Code	Description
M	Mandatory D01B Field
C	Conditional D01B Field

References

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

https://www.stylusstudio.com/edifact/D01B/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	
020	S002	INTERCHANGE SENDER	M		
	0004	Interchange sender identification	M	+7609999129308	Sender Party GLN
	0007	Identification code qualifier	C	:14	14 = EAN International
030	S003	INTERCHANGE RECIPIENT	M		
	0010	Interchange recipient identification	M	+760000000000	Receiver Party GLN
	0007	Identification code qualifier	C	:14	14 = EAN International
040	S004	DATE AND TIME OF PREPARATION	M		
	0017	Date	M	+210520	yyMMdd
	0019	Time	M	:0836	HHmm
050	0020	Interchange control reference	M	+123456	
060	S005	RECIPIENT'S REFERENCE/PASSWORD DETAILS	C		Not used
070	0026	Application reference	C		Not used
080	0029	Processing priority code	C		Not used
090	0031	Acknowledgement request	C		Not used
100	0032	Interchange agreement identifier	C		Not used
110	0035	Test indicator	C	+1	1 = Test

Example:

```
UNA:+.? '
UNB+UNOC:3+7609999129308:14+0:14+210520:0836+123456+++++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	+20210520083649	
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	

Example:

```
UNH+20210520083649+INVOIC:D:96A:UN'
```

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
020	1004	Document identifier	C	+31036674	Competec Invoice Id
030	1225	Message function, coded	C		Not used
040	4343	Response type, coded	C		Not used

Example:

```
BGM+380+31036674'
```

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	+3	*Supported codes:* 3 = Invoice date/time 137 = Document/message date/time
	2380	Date/time/period	C	:20230419	
	2379	Date/time/period format qualifier	C	:102	*Supported codes:* 102 = CCYYMMDD

Example:

```
DTM+3:20230419:102'
DTM+137:20210520:102'
```

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 number (purchase) DQ = Delivery note number
	1154	Reference number	C	:85651241	Buyers Order number/id

Example:

RFF+ON:85651241'

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 and 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	+IV	***Supported codes:*** IV = Invoicee BY = Buyer SU = Supplier DP = Delivery Party
020	C082	PARTY IDENTIFICATION DETAILS	C		
	3039	Party id. identification	M	+A001234	
030	C058	NAME AND ADDRESS	C		Not used
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 used
080	3251	Postcode identification	C	+8005	PLZ
090	3207	Country, coded	C	+CH	

Example:

```
NAD+IV+A001234++Sample Company:John Doe+Streetname 1:Building 10b+Zürich+
+8005+CH'
```

0250	Segment	FII	Financial institution information				

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	:CH9430761016097605323	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	:CHE-191.398. 369 MWST	

Example:

```
RFF+VA:CHE-191.398.369 MWST'
```

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	:7.7	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+++:::7.7+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	

Example:

`MOA+1:0.62'`

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
0290	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.

SG26 Used Segment List

Pos	Tag	Name
1100	LIN	Line item
1110	PIA	Additional product id
1130	IMD	Item description
1150	QTY	Quantity
1180	DTM	Date/time/period
1200	GIR	Related identification numbers
1250	SG27	Line item monetary amounts
1330	SG29	Line item prices
1550	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	Customer's line number
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	:EN	***Supported codes:*** 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++4250152110195:EN'
```

1110 | Segment | PIA | Additional product id					
A segment providing 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
020	C212	ITEM NUMBER IDENTIFICATION	M		
	7140	Item number	C	+18906117	
	7143	Item number type, coded	C	:BP	*Supported codes:* BP = Buyer's part number SA = Supplier's article number
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+18906117:BP'
PIA+1+1451693:SA'
```

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	+A	*Supported codes:* A = Free-form long description	
020	7081	Item characteristic, coded	C		Not used	
030	C273	ITEM DESCRIPTION	C			
	...					
	7008	Item description	C	:Buttergipfel	First 35 description chars	
	7008	Item description	C	:ExtraKnusprig	Second 35 description chars (descriptions longer than 70 chars will be trimmed)	
040	7383	Surface/layer indicator, coded	C		Not used	

Example:

```
IMD+A++:::Buttergipfel:ExtraKnusprig'
```

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	
	6411	Measure unit qualifier	C	:PCE	*Supported codes:* PCE = Piece

Example:

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

1180 | Segment | DTM | Date/time/period					
A segment specifying date/time/period details relating to the line item only.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	C507	DATE/TIME/PERIOD	M		
	2005	Date/time/period qualifier	M	+143	*Supported codes:* 143= Date on which the goods are taken over by the carrier 17 = Delivery date/time, estimated
	2380	Date/time/period	C	:20210520	
	2379	Date/time/period format qualifier	C	:102	*Supported codes:* 102 = CCYYMMDD

Example:

```
DTM+143:20210520:102'
DTM+17:20210521:102'
```

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.

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	+66	*Supported codes:* 66 = Goods item total (Net price times quantity for the line item)
	5004	Monetary amount	C	:11.78	

Example:

MOA+66:11.78'

1330	Segment Group 29	Price
A group of segments identifying the relevant pricing information for the goods or services invoiced.

SG29 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 used

Example:

```
PRI+AAA:5.89'
```

1390	Segment Group 30	Line References and Dates
A group giving references and where necessary, their dates, relating to the line item.

SG30 Used Segment List

Pos	Tag	Name
1400	RFF	Reference

1400 | Segment | RFF | Line Reference					
A segment identifying the reference by its number.					
Pos	Segment/Element	Description	Status	Example	Remarks
010	C506	REFERENCE	M		
	1153	Reference qualifier	M	+ON	***Supported codes:*** ON = Order number (purchase)
	1154	Reference number	C	12345	

Example:

```
RFF+ON:12345'
```

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	:2.5	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+++:::2.5+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	+1	*Supported codes:* 1 = VAT, 1st value
	5004	Monetary amount	C	:0.62	

Example:

MOA+1:0.62'

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
2210	SG51	Total amount references

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:* 77 = Invoice amount 124 = Tax amount 79 = Total line items amount 47 = Delivery fee
	5004	Monetary amount	C	:13.37	

Example:

MOA+77:13.37 '

2210 | Segment Group 51 | Total amount references

A group of segments for giving references and where necessary.

SG51 Used Segment List

Pos	Tag	Name
2220	RFF	Reference

2220 | Segment | RFF | Party Reference

A segment identifying a payment reference of an amount by its number, e.g. the QR Reference.

Pos	Segment/Element	Description	Status	Example	Remarks
010	C506	REFERENCE	M		
	1153	Reference qualifier	M	+PQ	*Supported codes:* PQ = Payment reference
	1154	Reference number	C	:810156000001111111310366743	QR Reference

Example:

RFF+PQ:810156000001111111310366743'

2240 | Segment Group 52 | Total invoice taxes
A group of segments specifying taxes totals for the invoice. Per tax rate there is one SG52.

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 the tax type to be summarized.					
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	:2.5	VAT rate
060	5305	Duty/tax/fee category, coded	C		
070	3446	Party tax identification number	C		Not used

Example:

TAX+7+VAT+++:::2.5+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	+1	*Supported codes:* 1 = VAT, 1st value
	5004	Monetary amount	C	:0.62	

Example:

MOA+125:71.30'

MOA+124:5.59'

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+20210520083649'

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	+210520083649	Interchange control reference from UNB segment

Example:

UNZ+1+210520083649'

Example INVOIC message

```
UNA:+.? '
UNB+UNOC:3+7609999129308:14+0:14+210520:0836+210520083649++++++1'
UNH+20210520083649+INVOIC:D:96A:UN'
BGM+380+31036674'
DTM+3:20230419:102'
DTM+137:20210520:102'
RFF+ON:PO1337'
RFF+DQ:31036674'
DTM+171:20230419:102'
NAD+IV+A12345++Sample AG+Teststrasse 1b+Zürich++8005'
NAD+BY+B12345++Sample AG+Teststreet 10+Dintikon++5606'
RFF+VA:CHE-114.904.380'
NAD+SU+7609999129308++Alltron AG+Hintermättlistr. 3+Mägenwil+
+5506+CH'
FII+RB+CH9430761016097605323'
RFF+VA:CHE-191.398.369 MWST'
TAX+7+VAT+++:::2.5+S'
MOA+1:0.15'
TAX+7+VAT+++:::7.7+S'
MOA+1:0.62'
CUX+2:CHF:4'
PAT+1++5:3:D:20'
LIN+1++4250152110195:EN'
PIA+1+18906117:BP'
PIA+1+1451693:SA'
IMD+A++:::Lunderland Bio-Kokosöl'
QTY+47:1:PCE'
DTM+143:20230419:102'
DTM+17:20230420:102'
MOA+66:5.89'
PRI+AAA:5.89'
RFF+ON:PO1337'
TAX+7+VAT+++:::2.5+S'
MOA+1:0.15'
UNS+S'
MOA+77:14.75'
RFF+PQ:810156000001111111310366743'
MOA+124:0.77'
MOA+79:5.89'
MOA+47:8.1'
UNT+40+20210520083649'
UNZ+1+210520083649'
```