

3. Description of messages (EDIFACT)

Introduction

EDIFACT (= **E**lectronic **D**ata **I**nterchange for **A**dministration, **C**ommerce and **T**ransport) is an international standard in which all data structures are defined that cover the whole communication area of a company.

EDIFACT is used across industries, is hardware and network independent, flexible and built up according to a modular system.
Which available components are used in which concrete case can only be decided by the partners involved.

To facilitate the practical application, EDIFACT subsets were defined tailored to the needs of the user groups. Subsets have the task to limit the authorized possibility of how a message to be exchanged has to look like so that the clear communication of the partners is guaranteed.

Thus EDI has to be designed as easy as possible, ie few fields and only the most important information.
To achieve advantages at Phoenix Contact as well as the customer it is useful to realize on both sides at least one incoming and outgoing information.

Within the transmission of data in the EDIFACT format we prefer the telebox service X.400 of the German Telekom for safety reasons.

Only in exceptional cases orders via eMail are accepted.

Please only transfer data Phoenix Contact once you have got in touch with us.

General information

Contact person : Dipl.-Inf. Johannes Springst

Address: Phoenix Contact GmbH & Co.
Flachsmarktstraße 8
D - 32825 Blomberg

Telephone: +49 - 5235 / 3-41622

Fax: +49 - 5235 / 3-41919

eMail: jspringst@phoenixcontact.com

X400 address for EDI messages:

| | | |
|-----|---|-----------------|
| C | = | DE |
| A | = | viaT |
| S | = | Phoenix Contact |
| 0 | = | ABTEILUNG-IO |
| CN | = | Phoenix Contact |
| OU1 | = | Netze |

DUNS: 31-597-0970

International Location Number (ILN): 4017918000004

eMail address for EDI messages: edi@phoenixcontact.com

Used messages:

ORDERS
ORDRSP
INVOIC

Other message types on request.

a) Message type ORDERS

| Identifier Identification code | Segment name/Segment group Data element/Group name | Content | Conversion instructions | Status M=Must / O=Opt | Format |
|--|---|---------|--|-----------------------------|--------|
| UNA | Field separator standard | :+?.? | | M | an6 |
| Segment status: Must Example: UNA:+.? The field separator standard indicates how the decimal separator is placed, etc. | | | | | |
| UNB S001 | Syntax identifier | | | M | a3 |
| | Syntax identification code | +UNOC | character set „C“ is valid | M | a4 |
| | Syntax version number | :3 | | M | n1 |
| S002 | Sender of the transmission data file | + | ILN-/DUNS-/customer- Nr/free text | M | an..35 |
| | Sender description | : | 14 = given by EAN | O | an..4 |
| | Coding of sender description | | 1= DUNS-Nr | | |
| S003 | Receiver of transmission data file | + | 91= C-Nr at Phoenix Contact | M | an..35 |
| | Description of receiver | : | 4017918000004 | O | an..4 |
| | Coding of receiver description | : | 14 = ILN-Nr. Phoenix | O | an..14 |
| S004 | Forwarding address | + | eg subsidiaries | M | n6 |
| | Date/Time of creation | : | | M | n4 |
| 0020 | Date of creation | + | | M | an..14 |
| 0032 | Time of creation | + | JJMMTT, eg: 010926 | O | an..35 |
| 0035 | Data exchange reference | + | HHMM, eg: 1200 | O | n1 |
| | Exchange agreement | | Reference number EANCOM=EANCOM- Subset Test = 1 otherwise 0 or empty | | |
| Segment status: Must Example: UNB+UNOC:3+Sender description:14+4017918000004:14+010926:1200+1+EANCOM+1' The UNB segment mainly serves for communicating the sender, receiver and the creation of the message . | | | | | |

| | | | | | |
|--|---|-----------|---|---------|--------|
| UNH 0062 | Message head segment Message reference number | +1 | Message reference number, current No of messages in the data exchange | M M | an..14 |
| S009 | Message identification code | | | M | |
| | 0065 Identification code of message type | +ORDERS | Order | M | an..6 |
| | 0052 Version number of message type | :D | | M | an..3 |
| | 0054 Release number of message type | :96B | = EDIFACT list D.96B | M | an..3 |
| | 0051 Organisation in charge coded | :UN | = UNSM (United Nations Standard Messages) | M | an..2 |
| | 0057 Organisation in charge, coded | :EAN008 | = EAN Version number | O | an..6 |
| Segment status: Must Example: UNH+1+ORDERS:D:96B:UN:EAN008' The UNH segment serves for opening, identifying and specifying a message | | | | | |
| BGM C002 | Start of message Name of document/message Type of document, coded | +220 | 220 = order 221= call-off purchase order | M M | an..3 |
| | 1004 Number of document/message | +1234567 | Customer order number, clear | M | an..10 |
| Segment status: Must Example: BGM+220+1234567' The BGM segment serves for indicating the type and function of a message and for transmitting the identification number | | | | | |
| DTM C507 | Date indication | | | M | |
| | 2005 Qualifier | +137 | 137 = order date 2= requested delivery date | 1/ 2 | an..3 |
| | 2380 Date indication | :20011001 | | M | an..35 |
| | 2379 Format of date indication | :102 | = Format is JJJJMMTT | M M | an..3 |

Segment status: Must
 Example: DTM+137:20011001:102'
 The DTM segment serves for indicating a date and/or time.

| Identifier Identification code | Segment name/Segment group Data element/Group name | Content | Conversion instructions | Status M=Must / O=Opt | Format |
|--------------------------------------|---|---------|---|-----------------------------|--------|
| RFF C506 | Reference indications | | | O M M | |
| 1153 | Reference indications, coded | + | VC =Skeleton agreement number at Phoenix | | an..3 |
| 1154 | Reference number | : | Skeleton agreement number | M | an..10 |

Segment status: optional
 Example: RFF+VC:1234567'
 The RFF segment serves for indicating a reference

| | | | | | |
|-------------|------------------------------|---|---------------------------------|------------------|--------|
| RFF C506 | Reference indications | | | O M M M | |
| 1153 | Reference indications, coded | + | AEP = Project number at Phoenix | | an..3 |
| 1154 | Reference number | : | Project number | M | an..10 |

Segment status: optional
 Example: RFF+AEP:67
 The RFF segment serves for indicating a reference

| | | | | | |
|-------------|-------------------------------------|---|------------------------------------|--------|--------|
| FTX 4451 | Free text Text allocation, coded | + | MKS = Marking texts, customized | O M | an..3 |
| 4453 | Processing indication, coded | + | | O | an..3 |
| C107 | Text reference | | | M | |
| 4441 | Free text, coded | + | | O | an..3 |
| C108 | Text | | | M | |
| 4440 | Free text | + | Text indication | O1/1 | an..70 |

Segment status: optional
 Example: FTX+MKS+++this is a marking text
 The FTX segment serves for indicating free texts.

| | | | | | |
|-------------|---|---|---|-----------|--------|
| NAD 3035 | Name and address Involved, Qualifier | + | BY=buyer DP=delivery address SU=supplier | M1/3 M | an..3 |
| C082 | Identification | | | | |
| 3039 | | + | ILN-NR, Customer number a Phoenix (indication delivery address in uncoded text) | O | an..13 |
| 1131 | Code list, Qualifier | : | | O | an..3 |
| 3055 | Responsible for coding maintenance | : | | O | an..3 |
| C058 | Name and address in uncoded text | | 9 = EAN 91= Phoenix Conact is mandatory only with deviating delivery address | O | |
| 3124 | recipient participant name | + | | M O | an..35 |
| C080 | | | | M | |
| 3036 | | + | Name1 | O | an..30 |
| 3036 | | : | Name2 | O | an..30 |
| 3036 | | : | Name3 | O | an..30 |
| 3036 | | : | Name4 | O | an..30 |
| C059 | Indication on street | | | M | |
| 3042 | Street | + | | O | an..30 |
| 3164 | City | + | | | an..30 |
| 3229 | Part of country/district/county | + | | | an..9 |
| 3251 | Postal code | + | | | an..8 |
| 3207 | Indication on country code | + | | | an..3 |

Segment status: Must
 Example: NAD+BY+ILN Number customer::9'
 or NAD+DP+++Name1:Name2:Name3:Name4+Street+city++PC+Country code'
 The NAD segment serves of indicating the identification of the partner

| | | | | | |
|-------------|---|---|--------------------------|--------|--------|
| CTA 3139 | Contact information Contact information, coded | + | PD = Purchase department | O O | an..3 |
| C056 | Details on the contact partner | | | O | |
| 3413 | Contact partner, coded | + | Department | O | an..35 |
| 3412 | Name of contact partner | + | Name of person | O | an..3 |

Segment status: optional
 Example: CTA+PD+Department+Name of person'
 The CTA segment serves for indicating a department or a contact person.

| Identifier Identification code | Segment name/Segment group Data element/Group name | content | Conversion instructions | Status M=Must / O=Opt | Format |
|---|---|--|---|---|--|
| COM C076 3148 3155 | Communication information Indications on communication Contact number Contact number, coded | + : | Telephone number TE = Telephone number | O M M M | an..24 an..3 |
| Segment status: optional Example: COM+Telephone number:TE' The COM segment serves for indicating communication channels. | | | | | |
| COM C076 3148 3155 | Communication information Indication on communication Contact number Contact number, coded | + : | Telefax number FX = Fax number | O M M M | an..24 an..3 |
| Segment status: optional Example: COM+Telefax number:FX' The COM segment serves for indicating communication channels | | | | | |
| LIN 1082 1229 C212 7140 7143 | Position data Position number Message, coded Goods number Product number Product number, type ,coded | +1 + : +1234567 : | current number of position Product number or feature EN =EAN VP= assigned by Phoenix Contact | M 1/999 O O M M O | n..6 an..3 an..35 an..3 |
| Segment status: Must Example: LIN+1+++EAN Number::EN' or LIN+1+++Phoenix Article number:VP' Das LIN segment serves for indicating a position. | | | | | |
| PIA 4347 C212 7140 7143 1131 3055 | Additional product data Additional product data, coded Goods number, identification Product Number Product Number, type ,coded Code list, coded Administration | +1 : +1234567 :BP : :92 | 1=additional information Customer code number BP=administrated by customer 92= administrated by customer | O M M M O O O | an..3 an..35 an..3 an..3 an..3 |
| Segment status: optional Example: PIA+1+Article number customer:BP::92' The PIA segment serves for indicating additional position indications of the customer | | | | | |
| IMD 7077 7081 C273 7009 1131 3055 7008 7008 | Product description Product description, coded Product charateristic, coded Product description Product description, identification Code list, coded Administrative list, coded Product description, text Product description, Text | +F + : + : : : : : | F=free text Article definition1 Article definition2 | O O O O O O O O O | an..3 an..3 an..17 an..3 an..3 an..35 an..35 |
| Segment status: optional Example: IMD+F+:::Article description The IMD segment serves for describing the product in free or agreed form | | | | | |
| QTY C186 6063 6060 6411 | Quantity indication QUANTITY, Qualifier QUANTITY Measurement unit, Qualifier | +21 : : | 21 = ordered quantity acc to ISO standard PCE=piece MTR=Meter ... | M M M M M | an..3 n..13 an..3 |
| Segment status: optional Example: QTY+21+:12:PCE' The QTY segment serves for indicating quantities | | | | | |

| Identifier Identification code | Segment name/Segment group Data element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|---|-----------|--|-----------------------------|--------|
| DTM C507 | Date indication | | | M 1/2 | |
| 2005 | Qualifier | +2 | 2 = requested delivery date | M | an..3 |
| 2380 | Date indication | :20011001 | 20011001= Format is JJJJMMTT | M | an..35 |
| 2379 | Format of date indication | :102 | | M | an..3 |
| Segment status: optional Example: DTM+2:20011001:102' The DTM segment serves for indicating a date and/or time. It contains the requested delivery date of the customer from the order. | | | | | |
| UNS 0081 | Section control segment Section identification code, coded | +S | S=separation of position and total part | M M | a1 |
| Segment status: Must Example: UNS+S' The UNS segment serves for separating the position part from the total part. | | | | | |
| UNT 0074 | Message end segment Number of segments in one message | + | 12=12 segments in one message | M M | n..6 |
| 0062 | Message reference number | + | Reference number as in UNH-Seg. | M | an..14 |
| Segment status: Must Example: UNT+1+1' The UNT segment serves for ending a message and checking it for its completeness | | | | | |
| UNZ 0036 | User data end segment Data exchange counter | + | Number of messages | M M | n..6 |
| 0020 | Data exchange reference | + | | M | an..14 |
| Segment status: Must Example: UNZ+1+1' The UNZ segment serves for summing up several messages . | | | | | |

b) Type of message ORDRSP for order confirmation

| Identifier Identification code | Segment name/Segment group Data element/Group name | Content | Conversion instructions | Status M=Must / O=Opt | Format |
|--|---|---------|--|-----------------------------|--------|
| UNA | Field separator standard | :+.'? | | M | an6 |
| Segment status: Must Example: UNA:+.'? The field separator standard determines how the decimal separator is placed, etc | | | | | |
| UNB S001 | Syntax identifier | | | M | a3 |
| | Syntax identification code | +UNOC | character set „C“ is valid | M | a4 |
| | Syntax version number | :3 | | M | n1 |
| S002 | Sender of transmission data file | + | ILN/DUNS-/Customer Nr/Free text | M | an..35 |
| | Sender definition | : | 14 = assigned by EAN | O | an..4 |
| | Coding of sender definition | | 1= DUNS- Nr 91= Customer Nr at Phoenix Contact | | |
| S003 | Receiver of transmission data file | + | | M | an..35 |
| | Receiver definition | : | 4017918000004 | O | an..4 |
| | Coding of receiver definition | : | 14 = ILN-Nr. Phoenix | O | an..14 |
| S004 | Forwarding address | + | eg subsidiaries | M | n6 |
| 0020 | Date/time of creation | : | | M | n4 |
| 0032 | Date of creation | + | | M | an..14 |
| 0035 | Time of creation | + | JJMMTT, eg: 010926 | O | an..35 |
| | Date exchange reference | + | HHMM, eg: 1200 | O | n1 |
| | Exchange agreement | | Reference Number EANCOM=EANCOM- Subset Test = 1 otherwise 0 or empty | | |
| Segment status: Must Example: UNB+UNOC:3+sender definition :14+4017918000004:14+010926:1200+1+EANCOM+1' The UNB segment serves mainly for communicating the sender, receiver and the creation of the message | | | | | |

| | | | | | |
|--|--|-----------|--|--------|--------|
| UNH 0062 | Message head segment Message reference number | +1 | Message reference number, current Nr of the message in the data exchange | M M | an..14 |
| S009 | Message identification code | | | M | |
| 0065 | Identification code of the message type | +ORDRSP | Order confirmation | M | an..6 |
| 0052 | Version number of the message type | :D | | M | an..3 |
| 0054 | Release number of the message type | :96B | = EDIFACT register D.96B | M | an..3 |
| 0051 | Organisation in charge type | :UN | = UNSM (United Nations Standard Messages) | M | an..2 |
| 0057 | Organisation in charge, coded | :EAN008 | = EAN Version number | O | an..6 |
| Segment status: Must Example: UNH+1+ORDRSP:D:96B:UN:EAN008' The UNH segment serves for opening, identifying and specifying a message | | | | | |
| BGM C002 | Start of message Name of document/message | | | M | |
| 1001 | Type of document, coded | +220 | 231 = Order answer | M | an..3 |
| 1004 | Number of document/message | +1234567 | Phoenix order confirmation number | M | an..10 |
| Segment status: Must Example: BGM+221+1234567 The BGM segment serves for indicating the type and function of a message and for transmitting an identification number | | | | | |
| DTM C507 | Date indication | | | M 1/2 | |
| 2005 | Qualifier | +137 | 137 = order answer date | M | an..3 |
| 2380 | Date indication | :20011001 | = Format is JJJJMMTT | M | an..35 |
| 2379 | Format of date indication | :102 | | M | an..3 |
| Segment status: Must Example: DTM+137:20011001:102' The DTM segment serves for indicating a date and/or time | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|---|---|-----------|---|-----------------------------|--------|
| RFF C506 | Reference indications | | | M M M M | |
| 1153 | Reference indications, coded | + | ON = order number at customer | | an..3 |
| 1154 | Reference number | : | order number at customer | | an..10 |
| Segment status: Must Example: RFF+ON:1234567' The RFF segment serves for indicating a reference. | | | | | |
| DTM C507 | Date indication | | | M 1/2 M M M | |
| 2005 | Qualifier | +137 | 171 = order date | | an..3 |
| 2380 | Date indication | :20011001 | = Format is JJJJMMTT | | an..35 |
| 2379 | Format of date indication | :102 | | | an..3 |
| Segment status: Must Example: DTM+171:20011001:102' The DTM segment serves for indicating a date and/or time It refers to the RFF+ON-Segment. | | | | | |
| RFF C506 | Reference indications | | | O M M M | |
| 1153 | Reference indications, coded | + | VC = Skeleton agreement number at Phoenix | | an..3 |
| 1154 | Reference number | : | Skeleton agreement number | | an..10 |
| Segment status: optional Example: RFF+VC:1234567' The RFF segment serves for indicating a reference . | | | | | |
| RFF C506 | Reference indications | | | O M M M | |
| 1153 | Reference indications, coded | + | AEP = Project number at Phoenix | | an..3 |
| 1154 | Reference number | : | Project number | | an..10 |
| Segment status: optional Example: RFF+AEP:67' The RFF segment serves for indicating a reference. | | | | | |
| FTX 4451 | Free text Text allocation, coded | + | MKS = Marking texts, customized | O M | an..3 |
| 4453 | Processing indication, coded | + | | O | an..3 |
| C107 | Text reference | | | M | |
| 4441 | Free text, coded | + | | O | an..3 |
| C108 | Text | | | M | |
| 4440 | Free text | + | Text indication | O1/1 | an..70 |
| Segment status: optional Example: FTX+MKS+++this is a marking text' The FTX segment serves for indicating free texts. | | | | | |
| NAD 3035 | Name and address Involved, qualifier | + | BY=Buyer DP=Delivery address SU=Supplier | M1/3 M | an..3 |
| C082 | Identifications | | | | |
| 3039 | | + | ILN-NR, Customer number at Phoenix | O | an..13 |
| 1131 | Code list, Qualifier | : | (Indication delivery address with uncoded text) | O | an..3 |
| 3055 | Responsibility for code maintenance | : | | O | an..3 |
| C058 | Name and address in uncoded text | | | | |
| 3124 | recipient | + | 9 = EAN 91= Phoenix Contact Is mandatory only in case of deviating delivery address. | O | |
| C080 | Name of participant | | | M | an..35 |
| 3036 | | + | | O | an..30 |
| 3036 | | : | | M | an..30 |
| 3036 | | : | Name1 | O | an..30 |
| 3036 | | : | Name2 | O | an..30 |
| C059 | Indications on street | | Name3 | O | |
| 3042 | Street | + | Name4 | O | an..30 |
| 3164 | City | + | | O | an..30 |
| 3229 | Region/District/County | + | | | an..9 |
| 3251 | Postal code | + | | | an..8 |
| 3207 | Indications on county code | + | | | an..3 |
| acc to ISO country code | | | | | |
| Segment status: Must Example: NAD+BY+ILN-Number-customer::9' With delivery address:: NAD+DP+++Name1:Name2:Name3:Name4+Street+City++PC+Country code' The NAD segment serves for indicating the identification of a partner. | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|---|-----------------------------|---|-----------------------------|--|
| CTA 3139 C056 | Contact information Contact information, coded Details on contact partner | + | PD = Purchase department | O O O | an..3 an..35 an..3 |
| 3413 3412 | Contact partner, coded Name of contact partner | + + | Department Name of person | O O | an..35 an..3 |
| Segment status: optional Example: CTA+PD+Department+Name of person' The CTA segment serves for indicating a department or a contact person. | | | | | |
| COM C076 | Communication information Indications on communication | | | O M | |
| 3148 3155 | Contact number Contact number, coded | + : | Telephone number TE = Telephone number | M M | an..24 an..3 |
| Segment status: optional Example: COM+Telephone number:TE' The COM segment serves for indicating communication channels. | | | | | |
| COM C076 | Communication information Indication on communication | | | O M | |
| 3148 3155 | Contact number Contact number, coded | + : | Telefax number FX = Fax number | M M | an..24 an..3 |
| Segment status: optional Example: COM+Telefax Number:FX' The COM segment serves for indicating communication channels. | | | | | |
| CUX C504 | Currency Indications on currency | | | M M | |
| 6347 6345 | Type of currency, coded Currency | +2 : | 2 = Reference currency DEM = DM EUR = Euro | M M | an..3 an..3 |
| 6343 | Currency | :9 | 9 = Currency of order | M | an..3 |
| Segment status: Must Example: CUX+2:DEM:9' The CUX segment serves for indicating the currency. | | | | | |
| LIN 1082 1229 | Position data Position number Message, coded | +1 + | current number of position 3 = changed 5 = Accepted without change | M 1/999 O O | n..6 an..3 |
| C212 7140 7143 | Goods number Product number Product number, type ,coded | +1234567 : | Product number EN =EAN VP= assigned by Phoenix Contact | M M O | an..35 an..3 |
| Segment status: Must Example: LIN+1++EAN number::EN' or LIN+1++Phoenix-Article number:VP' the LIN segment serves for indicating a position. | | | | | |
| PIA 4347 C212 | Additional product data Additional product data, coded Goods number, Identification | +1 | 1=Additional information | O M M | an..3 |
| 7140 7143 1131 3055 | Product number Product number, type ,coded Code list, coded Administration | +1234567 :BP : :92 | Customer item number BP=administrated by customer 92= administrated by customer | M O O O | an..35 an..3 an..3 an..3 |
| Segment status: optional Example: PIA+1+Article number customer:BP::92' The PIA segment serves for indicating additional position indications of the customer. | | | | | |
| IMD 7077 7081 C273 | Product description Product description, coded Product charateristic, coded Product description | +F + | F=Free text | O O O | an..3 an..3 |
| 7009 1131 3055 7008 7008 | Product description, identification Code list, coded Administrative list, coded Product description, Text Product description, Text | + : : : : | Article description1 Article description2 | O O O O O | an..17 an..3 an..3 an..35 an..35 |
| Segment status: optional Example: IMD+F+:::Article description' The IMD segment serves for describing the product in free or agreed form | | | | | |

| Identifier Identification code | Segment name/Segment group Data element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|---|--|-------------------------------|--|-----------------------------|--------------------------|
| QTY C186 6063 6060 6411 | Quantity indication QUANTITY, Qualifier QUANTITY Measurement unit, Qualifier | +21 : : | 21 =ordered quantity acc to ISO standard PCE=piece MTR=Meter ... | M M M M | an..3 n..13 an..3 |
| Segment status: optional Example: QTY+21+:12:PCE' The QTY segment serves for indicating quantities. | | | | | |
| QTY C186 6063 6060 6411 | Quantity indication QUANTITY, Qualifier QUANTITY Measurement unit, Qualifier | + : : | 113 = confirmed QUANTITY acc to ISO standard PCE=piece MTR=Meter ... | M M M M | an..3 n..13 an..3 |
| Segment status: optional Example: QTY+113+:12:PCE' The QTY-Segment serves for indicating quantities. | | | | | |
| DTM C507 2005 2380 2379 | Date indication Qualifier Date indication Format of date indication | +2 : :20011001 :102 | 2 = requested delivery date 20011001= Format is JJJJMMTT | M 1/2 M M M | an..3 an..35 an..3 |
| Segment status: optional Example: DTM+2:20011001:102' The DTM segment serves for indicating a date and/or time. It contains the requested delivery date of the customer from the order | | | | | |
| DTM C507 2005 2380 2379 | Date indication Qualifier Date indication Format of date indication | +69 : :20011001 :102 | 69 = confirmed delivery date = Format is JJJJMMTT | M 1/2 M M M | an..3 an..35 an..3 |
| Segment status: optional Example: DTM+69:20011001:102' The DTM segment serves for indicating a date and/or time. It refers to the RFF+ON segment. | | | | | |
| UNS 0081 | Section control segment Section identification code, coded | +S | S=Separation of position and total | M M | a1 |
| Segment status: Must Example: UNS+S' The UNS Segment serves for separating the position from total | | | | | |
| UNT 0074 0062 | Message end segment Number of segment in one message Message reference number | +12 : + | 12 = 12 Segments in one message Reference number as in the UNH Seg. | M M M | n..6 an..14 |
| Segment status: Must Example: UNT+12+1' The UNT segment serves for ending a message and checking it for its completeness | | | | | |
| UNZ 0036 0020 | User data end segment Data exchange counter Data exchange reference | + : + | Number of messages | M M M | n..6 an..14 |
| Segment status: Must Example: UNZ+1+1' The UNZ segment serves for summarizing several messages. | | | | | |

c) Type of message INVOIC for invoices

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|---|---------|---|-----------------------------|--------|
| UNA | Field separator standard | :+.?' | | M | an6 |
| Segment status: Must Example: UNA:+.?' The field separator standard determines how the decimal separator is positioned, etc. | | | | | |
| UNB S001 | Syntax identifier | | | M | a3 |
| | Syntax identification code | +UNOC | charachter set „C“ is valid | M | a4 |
| | Syntax version number | :3 | | M | n1 |
| S002 | Sender of transmission data file | + | ILN/DUNS-/Customer Nr/Free text | M | an..35 |
| | Sender description | : | 14 = assigned by EAN, 1= DUNS Nr | O | an..4 |
| | Coding of sender description | | | | |
| S003 | Receiver of transmission data file | + | 91= Customer Nr at Phoenix Contact | M | an..35 |
| | Receiver description | : | | O | an..4 |
| | Coding of receiver description | : | 4017918000004 | | |
| | Forwarding address | : | 14 = ILN Nr. Phoenix | O | an..14 |
| S004 | Date/time of creation | + | eg. subsidiaries | M | n6 |
| | Date of creation | : | | M | n4 |
| 0020 | Time of creation | + | JJMMTT, eg: 010926 | M | an..14 |
| 0032 | Data exchange reference | + | HHMM, eg: 1200 | O | an..35 |
| 0035 | Exchange agreement | + | Reference number EANCOM=EANCOM-Subset Test = 1 otherwise 0 or empty | O | n1 |
| Segment status: Must Example: UNB+UNOC:3+sender description:14+4017918000004:14+010926:1200+1+EANCOM+1' The UNB segment mainly serves for communicating the sender, the receiver and the creation of the message | | | | | |

| | | | | | |
|-------------|--|---------|--|--------|--------|
| UNH 0062 | Message head segment Message reference number | +1 | Message reference number, current Nr of messages in the data exchange | M M | an..14 |
| S009 | Message identification code | | | M | |
| | Identification code of the type of message | +INVOIC | Order confirmation | M | an..6 |
| | Version number of the type of message | :D | | M | an..3 |
| | Release number of the type of message | :96A | = EDIFACT register D.96B | M | an..3 |
| | Organisation in charge coded | :UN | = UNSM (United Nations Standard Messages) | M | an..2 |
| | Organisation in charge, coded | :EAN008 | = EAN Version number | O | an..6 |

Segment status: Must
 Example: UNH+1+ORDRSP:D:96B:UN:EAN008'
 The UNH segment serves for opening, identifying and specifying a message

| | | | | | |
|-------------|--|----------|-------------------------------|-------------|--------|
| BGM C002 | Begin of message Name of documents/message Type of document, coded | +380 | 380 = Invoice 381 = Credit | M M M | an..3 |
| 1004 | Number of document /message | +1234567 | Phoenix invoice number | M | an..10 |

Segment status: Must
 Example: BGM+380+1234567'
 The BGM segment serves for indicating the type and function of a message and for transmitting the identification number

| | | | | | |
|-------------|-------------------------------|-----------|--------------------------|------------|--------|
| DTM C507 | Date indication | | | M 1/2 M | |
| | Qualifier | +137 | 137 = Date of invoice | M | an..3 |
| | Date indication | :20011001 | | M | an..35 |
| | Format of the Date indication | :102 | 102 = Format is JJJJMMTT | M | an..3 |

Segment status: Must
 Example: DTM+137:20011001:102'
 The DTM segment serves for indicating a date and/or time.

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|---|---|-----------|-------------------------------|-----------------------------|--------|
| RFF C506 | Reference indications | | | M | |
| 1153 | Reference indications, coded | + | ON = Order number at customer | M | an..3 |
| 1154 | Reference number | : | Order number at customer | M | an..10 |
| Segment status: optional Example: RFF+ON:1234567' The RFF segment serves for indicating a reference. | | | | | |
| DTM C507 | Date indication | | | M | |
| 2005 | Qualifier | +137 | 171 = Order date | M | an..3 |
| 2380 | Date indication | :20011001 | | M | an..35 |
| 2379 | Format of date indication | :102 | 102 = Format is JJJJMMTT | M | an..3 |
| Segment status: Must Example: DTM+171:20011001:102' The DTM segment serves for indicating a date and/or time. It refers to the RFF+ON segment. | | | | | |
| RFF C506 | Reference indications | | | O | |
| 1153 | Reference indications, coded | + | DQ = Delivery note number | M | an..3 |
| 1154 | Reference number | : | Delivery note number | M | an..10 |
| Segment status: optional Example: RFF+DQ:1234567' The RFF segment serves for indicating a reference. It is only filled in when there is only one delivery note for an order. | | | | | |
| DTM C507 | Date indication | | | M 1/2 | |
| 2005 | Qualifier | +137 | 171 = delivery note date | M | an..3 |
| 2380 | Date indication | :20011001 | | M | an..35 |
| 2379 | Format of the date indication | :102 | 102= Format is JJJJMMTT | M | an..3 |
| Segment status: Must Example: DTM+171:20011001:102' The DTM segment serves for indicating a date and/or time. It refers to the RFF+DQ segment. | | | | | |

| | | | | | |
|--|---|---|--|-----------|--------|
| NAD 3035 | Name and address Involved, Qualifier | + | BY = Buyer IV = Receiver of invoice DP = Delivery address SU = Supplier | M1/3 M | an..3 |
| C082 | Identification | + | | O | an..13 |
| 3039 | | | | | |
| 1131 | Code list, Qualifier | : | ILN-NR, Customer Number at Phoenix | O | an..3 |
| 3055 | Responsible for code maintenance | : | (indication of delivery address in uncoded text) | O | an..3 |
| C058 | Name and address in uncoded text | | | O | |
| 3124 | Receiver | + | 9 = EAN | M | an..35 |
| C080 | Name of participant | + | 91= Phoenix Contact Is mandatory only with deviating delivery address. | O | |
| 3036 | | + | | M | an..30 |
| 3036 | | : | | O | an..30 |
| 3036 | | : | | O | an..30 |
| 3036 | | : | | O | an..30 |
| C059 | Indications on street | | Name1 | O | |
| 3042 | Street | + | Name2 | O | |
| 3164 | City | + | Name3 | M | an..30 |
| 3229 | Region/District/County | + | Name4 | O | an..30 |
| 3251 | Postal code | + | | | an..8 |
| 3207 | Indications on country code | + | | | an..3 |
| acc to ISO country code | | | | | |
| Segment status: Must Example: NAD+BY+ILN-Number Customer::9' With delivery address:: NAD+DP+++Name1:Name2:Name3:Name4+Street+City++Postal code+country code' The NAD segment serves for indicating the identification of a partner. | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|--|-----------|--------------------------------|-----------------------------|--------|
| RFF C506 | Reference indications | | | O | |
| 1153 | Reference indications, coded | + | VA = UST-ID | M | an..3 |
| 1154 | Reference number | : | Sales tax-ID | M | an..10 |
| Segment status: optional Example: RFF+VA:1234567' The RFF segment serves for indicating a reference. It refers to the NAD segment. | | | | | |
| CUX C504 | Currency Indications on currency | | | M | |
| 6347 | Type of currency, coded | +2 | 2 = Reference currency | M | an..3 |
| 6345 | Currency | : | DEM = DM EUR = Euro | M | an..3 |
| 6343 | Currency | : 9 | 4 = Currency of invoice | M | an..3 |
| Segment status: Must Example: CUX+2:DEM:4' The CUX segment serves for indicating the currency. | | | | | |
| PAT 4279 | Payment conditions Payment conditions, coded | +3 | 3 = Fixed date | O | an..3 |
| Segment status: optional Example: PAT+3' The PAT segment serves for indicating the payment conditions. | | | | | |
| DTM C507 | Date indication | | | M | |
| 2005 | Qualifier | +12 | 12 = Due date for deduction | M | an..3 |
| 2380 | Date indication | :20011001 | | M | an..35 |
| 2379 | Format of date indication | :102 | 102= Format is JJJJMMTT | M | an..3 |
| Segment status: Must Example: DTM+12:20011001:102' The DTM segment serves for indicating a date and/or time. It refers to the PAT segment and indicates the date until which it is allowed to draw a payment discount . | | | | | |
| PCD C501 | Percentage Detailed indications on percentage | | | M | |
| 5245 | Detailed indications, coded | +12 | 12=deduction | M | an..3 |
| 5482 | Percentage | :10 | 10 = 10 % deduction | M | n..10 |
| 5249 | Percentage, coded | : | 13 = on invoice value | K | an..3 |
| Segment status: Must Example: PCD+12:10:13' The PCD segment serves for indicating the percentage deduction; it refers to the PAT-Segment. | | | | | |
| PAT 4279 | Payment conditions Payment conditions, coded | +3 | 3 = Field date | O | an..3 |
| Segment status: optional Example: PAT+3' The PAT segment serves for indicating payment conditions. | | | | | |
| DTM C507 | Date indication | | | M | |
| 2005 | Qualifier | +13 | 13 = Payable without deduction | M | an..3 |
| 2380 | Date indication | :20011001 | | M | an..35 |
| 2379 | Format of date indication | :102 | 102= Format is JJJJMMTT | M | an..3 |
| Segment status: Must Example: DTM+13:20011001:102'T The DTM segment serves for indicating a date and/or time. It refers to the PAT segment and indicates the date until which the amount must be paid without deduction | | | | | |
| TOD 4055 C100 | Delivery and transport conditions, coded Conditions, coded | +6 | 6 = delivery conditions | O | an..3 |
| 4053 | Indications on delivery conditions delivery conditions, coded | +CFR | CFR = Cost and freight | M | an..3 |
| 4052 | delivery conditions | : | Uncoded text | M | an..36 |
| Segment status: optional Example: TOD+6+CFR:Free domicile incl. packing' The TOD segment serves for indicating the delivery and transport conditions. | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|---|--|----------------------|--|-----------------------------|-----------------------------|
| ALC 5463 1227 C214 7161 | Surcharge/deductions Surcharges, deductions, coded calculation level, coded Special indications Special indications, coded | +A +1 +RAA | A=deduction 1 = first calculation level RAA = final discount | O M O O O | an..3 an..3 an..3 |
| Segment status: optional Example: ALC+A+++1+RAA' The ALC segment serves for indicating surcharges and/or deductions; here deduction | | | | | |
| PCD C501 5254 5482 | Percentage indications detailed Percentage indications Percentage indications, coded Percentage indications | +1 : | 1=deduction Percentage | O O O O | an..3 n..10 |
| Segment status: Must Example: PCD+1:5' The PCD segment serves for indicating the percentage on the ALC segment. | | | | | |
| MOA C516 5025 5004 | Amount indications Indications on amounts Indications on the amount, coded Amount indication | +8 : | 8=surcharge/deduction Amount indication of the deductions | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| ALC 5463 C214 7161 | Surcharges/Deductions Surcharges, Deductions, coded Special indications Special indications, coded | +C +PC | C=surcharge PC= package | O M O O | an..3 an..3 |
| Segment status: optional Example: ALC+C++++PC' The ALC segment serves for indicating surcharges and/or deductions; here surcharge | | | | | |
| MOA C516 5025 5004 | Amount indication Indication on amounts Indications on the amounts, coded Indication on amount | +8 : | 8= Surcharge/deduction Amount indication of surcharges | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| ALC 5463 C214 7161 | Surcharges/Deductions Surcharges, Deductions, coded Special indications Special indications, coded | +C +ADK | C=surcharge ADK = delivery cost | O M O O | an..3 an..3 |
| Segment status: optional Example: ALC+C++++ADK' The ALC segment serves for indicating surcharges and/or deductions; here surcharge | | | | | |
| MOA C516 5025 5004 | Amount indication Indication on amount Indications on the amounts, coded Indication on amount | +8 : | 8= surcharge/deduction Indication on amount of surcharges | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| ALC 5463 C214 7161 | Surcharges/Deductions Surcharges, deductions, coded Special indications Special indications, coded | +C +FC | C=surcharge FC = Freight costs | O M O O | an..3 an..3 |
| Segment status: optional Example: ALC+C++++FC' The ALC segment serves for indicating surcharges and/or deductions; here surcharge | | | | | |
| MOA C516 5025 5004 | Indication on amount Indication on amounts Indications on the amounts, coded Indication on amount | +8 : | 8= surcharge/deduction Indication on amount of surcharges | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| ALC 5463 C214 7161 | Surcharges/Deductions Surcharges, Deductions, coded Special indications Special indications, coded | +C +MAC | C=surcharge MAC = Processing surcharge | O M O O | an..3 an..3 |
| Segment status: optional Example: ALC+C++++MAC' The ALC segment serves for indicating surcharges, deductions; here surcharge | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|--|--------------------------|--|----------------------------------|----------------------------------|
| MOA C516 5025 5004 | Indication on amount Indication on amounts Indications on amounts, coded Indication on amount | +8 : | 8= surcharge/deduction Indication on amount of surcharges | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| LIN 1082 1229 C212 7140 7143 | Position data Position number Message, coded Goods number Product number Product number, type ,coded | +1 + +1234567 : | current Number of position 3 = changed Product number or characteristic EN =EAN VP=assigned by Phoenix Contact | M 1/999 O O M M O | n..6 an..3 an..35 an..3 |
| Segment status: Must Example: LIN+1++EAN-Number::EN' or LIN+1++Phoenix-Article Number:VP' The LIN segment serves for indicating a position. | | | | | |
| PIA 4347 C212 7140 7143 | Additional product data Additional product data, coded Goods number, identification Product number Product number, type ,coded | +1 +1234567 :BP | 1=Additional information Customer reference number BP=administered by customer | O M M M O | an..3 an..35 an..3 |
| Segment status: optional Example: PIA+1+Article number customer:BP::92' The PIA segment serves for indicating additional position indications of the customer. | | | | | |
| PIA 4347 C212 7140 7143 | Additional product data Additional product data, coded Goods number, identification Product number Product number, type,coded | +1 +2 :IN | 1=Additional information Customer position number IN=Customer position number | O M M M O | an..3 an..35 an..3 |
| Segment status: optional Example: PIA+1+Customer position number:IN' The PIA segment serves for indicating additional position indications of the customer' | | | | | |
| PIA 4347 C212 7140 7143 | Additional product data Additional product data, coded Goods number, identification Product number Product number, type ,coded | +5 +100506 :SA | 5=Product information Article number SA=Supplier article number | O M M M O | an..3 an..35 an..3 |
| Segment status: optional Example: PIA+5+Supplier item number:SA' The PIA segment serves for indicating the Phoenix article number. | | | | | |
| IMD 7077 C273 7008 7008 | Product description Product description, coded Product description Product description, part1 Product description, part2 | +F +Text1 :Text2 | F=Free text Article description by Phoenix Article description by Phoenix | O M M M O | an..3 an..35 an..35 |
| Segment status: optional Example: IMD+F+Text1:Text2' The IMD segment serves for indicating the article description. | | | | | |
| QTY C186 6063 6060 6411 | Quantity indication QUANTITY, Qualifier QUANTITY Measurement unit, Qualifier | + : : : | 47 =calculated QUANTITY acc to ISO standard PCE=piece MTR=Meter ... | M M M M M | an..3 n..13 an..3 |
| Segment status: optional Example: QTY+47+:12:PCE' The QTY segment serves for indicating the quantity. | | | | | |
| FTX 4451 C108 4440 | Free text Free text, coded Free text indications Free text | +ACB +Text | ACB=additional information Preferences | O M O | an..3 an..17 |
| Segment status: optional Example: FTX+ACB+Text' The FTX segment contains the preferences on the article. | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|---|---|--------------------------|---|-----------------------------|-------------------------------------|
| RFF C506 1153 1154 | Reference indications Reference indications, coded Reference number | + : | DQ = Delivery note number Delivery note number | O M M M | an..3 an..10 |
| Segment status: Kann Example: RFF+DQ:1234567' The RFF segment serves for indicating a reference. The RFF segment is only filled in if there are several delivery notes for an order. | | | | | |
| PRI C509 5125 5118 5284 | Price indications Price indication, coded Price Price unit | +AAB : : | AAB = Gross price Gross price Gross price unit | O M O O O | an..3 n..15 n..9 |
| Segment status: Kann Example: PRI+AAB:2345.23:100' The PRI segment serves for indicating a price. It contains the gross price at position level. | | | | | |
| ALC 5463 1227 C214 7161 | Surcharges/Deductions Surcharges, Deductions, coded Calculation level, coded Special indications Special indications, coded | +A +1 +RAA | A=deduction RAA = final discount | O M O O O | an..3 an..3 an..3 |
| Segment status: Kann Example: ALC+A+++1+RAA' The ALC segment serves for indicating surcharges and/or deductions; here deduction at position level | | | | | |
| PCD C501 5254 5482 | Percentage indications detailed percentage indications Percentage indications, coded Percentage indications | +1 : | 1=deduction Percentage | O O O O | an..3 n..10 |
| Segment status: Must Example: PCD+1:5' The PCD segment serves for indicating percentages on the ALC segment. | | | | | |
| MOA C516 5025 5004 | Amount indication Indication on amounts Indications amounts, coded Indication on amount | +8 : | 8=surcharge/deduction Indication on amount of deductions | O O O O | an..3 n..10 |
| Segment status: Must Example: MOA+8+12.50' The MOA segment serves for indicating amounts; it refers to the ALC segment. | | | | | |
| UNS 0081 | Section control segment Section identification code, coded | +S | S=Separation of position and total identification code | M M | a1 |
| Segment status: Must Example: UNS+S' The UNS segment serves for separating the position part from total. | | | | | |
| MOA C516 5025 5004 | Amount indication Indications on amount Indications on amounts, coded Indication on amount | +79 : | 79=total sum of positions Indication on amount | M O O O | an..3 n..10 |
| Segment status: Must Example: MOA+79+1250' The MOA segment serves for indicating amounts; here gross value of positions. | | | | | |
| MOA C516 5025 5004 | Indication on amount Indication on amounts Indications on the amounts, coded Indication on amount | +176 : | 176=VAT of positions Indication on amount | M O O O | an..3 n..10 |
| Segment status: Must Example: MOA+176+201' The MOA segment serves for indicating amounts; here VAT of positions. | | | | | |
| MOA C516 5025 5004 | Indication on amounts Indication on amount Indications on the amounts, coded Indication on amount | +86 : | 86=Net value of positions Indication on amount | M O O O | an..3 n..10 |
| Segment status: Must Example: MOA+86+1113' The MOA segment serves for indicating amounts; here net value of positions. | | | | | |

| Identifier Identification code | Segment name/Segment group Date element/Group name | Content | Conversion indications | Status M=Must / O=Opt | Format |
|--|---|-------------------------------|--|-----------------------------|--|
| MOA C516 5025 5004 | Indication on amount Indication on amounts Indications on the amounts, coded Indication on the amount | +125 : | 125=taxable amount Indication on amount | M O O O | an..3 n..10 |
| Segment status: Must Example: MOA+125+1250' The MOA segment serves for indicating amounts; here taxable amount of positions. | | | | | |
| TAX 5283 C241 5153 C243 5025 5305 | Indications on fees and taxes Funcion of indications, coded Type of tax Type of tax, coded Value of tax Tax, coded | +7 +VAT + +S | 7 = Tax VAT = Value Added Tax VAT amount S = Standard value | M O O O O O | an..3 an..3 n..17 an..3 |
| Segment status: Must Example: TAX+7+VAT+123+S' The MOA segment serves for indicating amounts; here gross value of positions | | | | | |
| UNT 0074 0062 | Message end segment Number of segments in one message Message reference number | + + | 12=12 Segments in one message Reference number as in the UNH- Seg. | M M M | n..6 an..14 |
| Segment status: Must Example: UNT+12+1' The UNT segment serves for ending a message and checking it for completeness | | | | | |
| UNZ 0036 0020 | User data end segment Data exchange counter Data exchange reference | + + | Number of messages | M M M | n..6 an..14 |
| Segment status: Must Example: UNZ+1+1' The UNZ segment serves for summarizing several messages. | | | | | |

4. Message description (CSV format)

Besides the above mentioned EDIFACT format Phoenix Contact also accepts orders that are first registered in a table calculation software (example Microsoft Excel) and then stored as ASCII data file in the so-called CSV format. Thereby one field always corresponds to one column that exists even if it is not filled in.

The field separator in this case is the semicolon.

| Field Nr. | Field name | Content | Status M=Must / O=Opt | Format |
|-----------|------------|---------|-----------------------------|--------|
|-----------|------------|---------|-----------------------------|--------|

Head data

| | | | | |
|---|------------------------------------|---|---|--------|
| 1 | Clear message reference number | | M | an..35 |
| 2 | Identification of sender | DUNS number or customer Nr. at Phoenix Contact | M | an..35 |
| 3 | Identification of receiver | PHXBL for Phoenix Contact in Blomberg, PHXLUE for Phoenix Feinbau in Lüdenscheidt, PHXBP for Phoenix Electronics in Bad Pyrmont | M | an..35 |
| 4 | Type of message | ORDERS for orders | M | an..6 |
| 5 | Order number of customer | | O | an..35 |
| 6 | Ordering date | | O | an..35 |
| 7 | Customer number at Phoenix Contact | | M | an..35 |
| 8 | Company name of customer | | O | an..35 |

Optional address data

| | | | | |
|----|--------------|-----------|---|--------|
| 9 | Country | ISO Codes | O | an..3 |
| 10 | Company name | | O | an..35 |
| 11 | Name 2 | | O | an..30 |
| 12 | Street | | O | an..30 |
| 13 | Postal code | | O | an..10 |
| 14 | City | | O | an..30 |

Optional Order head text

| | | | | |
|----|-----------------|--|---|---------|
| 15 | Order head text | | O | an..255 |
|----|-----------------|--|---|---------|

Ordering position data

| | | | | |
|----|---|--|---|---------|
| 16 | Ordering position number of customer | | O | an..6 |
| 17 | Project number | | O | an..6 |
| 18 | Skeleton agreement number | | O | an..8 |
| 19 | Phoenix Contact article number / EAN Code | | O | an..30 |
| 20 | Phoenix Contact Order key | | O | an..35 |
| 21 | Customer article number | | O | an..35 |
| 22 | Article description | | O | an..35 |
| 23 | Order quantity | | M | an..15 |
| 24 | Requested delivery date | | O | an..35 |
| 25 | Order position text | | O | an..255 |