

EDI Guideline

Delivery schedules

based on

EDIFACT DELFOR D.96A

Version 1.06
08.08.2013

KIM/BX - Integration & EDI

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History:

Version 1.0 - July 2011

- Initial release

Version 1.01 - 15.09.2011

- Page 29: UNT 0062: Wrong value amended. Now it is the same as UNH 0062.

Version 1.02 - 02.03.2012

- Page 23: QTY 6063: Value '66' (committed quantity) added.

Quantity qualifiers (6063) which are used only in conjunction with 'Level of commitment' (4017, SCC) values '2' and '3' have been changed from '113' to '66'.

- Page 23: Hint "Note: 'Level of commitment' (4017) SCC-values '2' and '3' ..." added in order to clarify that scheduling groups (QTY_SCC_DTM) which contains SCC-values 2 or 3 are for informational purposes only.

Version 1.03 - 22.03.2012

- Page 18: PIA 7140: Value 'K' (mark material as Consignation product) added
7143: Qualifier "GS" (General specification number) added

Version 1.04 - 15.01.2013

- Page 19: Segment SG4-NAD-SG8-SG12-IMD (item description) added.

Version 1.05 - 05.02.2013

- Page 15: NAD+DP... : Customer's plant is transmitted as 'Party identification' (SG4-NAD-C082-3039) instead of customers number at vendor.

Version 1.06 - 08.08.2013

- Page 20: Segment SG4-NAD-SG8-DTM (line item's expiration date) added.
- Page 27: Segment SG4-NAD-SG8-LIN-SG14-PAC (packaging info) added.
- Page 28: Segment SG4-NAD-SG8-LIN-SG14-PAC-QTY added.

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QTY	21	C	1	Quantity	28																							
UNS	22	M	1	End of detail / start of summary section	13																							
UNT	23	M	1	Message trailer	29																							
UNZ		M	1	Interchange trailer	30																							

M = Mandatory, C = Conditional

Example

```
UNB+UNOC:3+0000006543:ZZZ+0000003456:ZZZ+110712:2245+89'  
UNH+1+DELFOR:D:96A:UN'  
BGM+241+89'  
DTM+137:20110712:102'  
NAD+BY+0000006543::91++KION GROUP AG+Abraham-Lincoln-Str  
+Wiesbaden++65189+DE'  
CTA+SR+402:Daniel Radcliffe'  
COM+0044 1234 123456:TE'  
COM+Daniel.Radcliffe@kiongroup.com:EM'  
CTA+MD+004:Emma Watson'  
COM+0044 1234 654321:TE'  
COM+Emma.Watson@kiongroup.com:EM'  
NAD+SU+0000003456::92++ABC Products+32 Fulham Road+Stockholm++54321+SE'  
UNS+D'  
NAD+DP+1001::92++KION GROUP AG:SAP-LO 1101+ Abraham-Lincoln-Str  
+Wiesbaden++65189+DE'  
LOC+159+1101'  
LIN+10++1944408059:BP'  
PIA+1+6005044:SA'  
PIA+1+DRW/1944408059/04/000:DW'  
PIA+1+K:GS'  
IMD+F++::Valve'  
DTM+36:20120301:102'  
RFF+ON:5500012345'  
RFF+AAN:97'  
DTM+171:20110712:102'  
RFF+ALM:96'  
DTM+171:20110706:102'  
QTY+48:10:PCE'  
DTM+50:20110712:102'  
RFF+DQ:62189'  
QTY+70:94:PCE'  
QTY+66:14:PCE'  
SCC+2'  
DTM+55:20111009:102'  
QTY+66:3:PCE'  
SCC+3'  
DTM+55:20111108:102'  
QTY+113:5:PCE'  
SCC+1'  
DTM+2:20110707:102'  
QTY+113:5'  
SCC+4'  
DTM+2:20110808:102'  
QTY+113:4'  
SCC+4'  
DTM+2:20111003:102'  
QTY+113:3'  
SCC+4'  
DTM+2:20111107:102'  
QTY+113:6'  
SCC+4'  
DTM+2:20111210:102'
```

PAC++++A:Palette A1 -800x12'
QTY+52:100'
UNS+S'
UNT+47+1'
UNZ+1+89'

UNB M 1 Interchange Header

Description: Service segment providing the unique identification of an interchange. It allows the identification of the sender and the receiver of the interchange, gives date and time of preparation as well as the interchange control reference

Examples: **UNB+UNOC:3+12345:91+6789:92+110712:2245+89'**
UNB+UNOC:3+4399901834316:14+0000006789:92+110712:2245+89'
UNB+UNOC:3+KION:ZZZ+ABC_PRODUCTS:ZZZ+110712:2245+89'

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
S001	Syntax Identifier	M			
0001	Syntax Identifier	M	a4	M	UNOC
0002	Syntax version number	M	n1	M	3
S002	Interchange Sender	M			
0004	Sender identification	M	an..35	M	12345 = KION (brand) customer number at vendor 4399901834316 = GLN No. LMH 4399901361577 = GLN No. STILL
0007	Partner identification code qualifier	C	an14	C	91 = Assigned by vendor 14 = EAN International (GLN) ZZZ = Mutually agreed
S003	Interchange Recipient	M			
0010	Recipient Identification	M	an..35	M	6789 = Vendor number at KION 0000006789 ABC_PRODUCTS
0007	Partner identification code qualifier	C	an14	C	92 = Assigned by KION 14 = EAN International (GLN) ZZZ = Mutually agreed
S004	Date/Time of preparation	M		M	
0017	Date of preparation	M	n6	M	110712 = YYMMDD
0019	Time of preparation	M	n4	M	2245 = HHMM
0020	Interchange control reference	M	an..14	M	89 = No. of interchanges to partner

Segment No.: 1

UNH M 1 Message Header

Description: Service segment starting and uniquely identifying a message. The message type code for the delivery schedule message is DELFOR

Example: **UNH+1+DELFOR:D:96A:UN'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
0062	Message reference number	M	an..14	M	1 = No. of message within interchange
S009	Message Identifier	M			
0065	Message type	M	an..6	M	DELFOR
0052	Message version number	M	an..3	M	D
0054	Message release number	M	an..3	M	96A
0051	Controlling agency	M	an..2	M	UN

Segment No.: 2

BGM M 1 Beginning of Message

Description: A segment for the unique identification of the delivery schedule document, by means of its name and its number and when necessary its function.

Example: **BGM+241+89'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C002	Document / Message name	C		M	
1001	Document / Message name, coded	C	an..3	M	241 = Delivery Schedule
1004	Document number	C	an..35	C	89 = Interchange number (same as 0020)

Segment No.: 3

DTM M 35 Date and Time

Description: A segment specifying the date, and when relevant, the time/period of the beginning and ending of the validity period of the document. The DTM must be specified at least once to identify the Delivery Schedule document date. The date/time/period segment within other Segment group should be used whenever the date/time/period is logically related to another specified data item.

Example: **DTM+137:20110712:102'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C507	Date / Time / Period	M		M	
2005	Date / Time / Period qualifier	M	an..3	M	137 = Document / Message date/time
2380	Date	C	an..35	M	CCYYMMDD
2379	Format qualifier	C	an..3	M	102 = CCYYMMDD

Segment No.: 4 **SG2-NAD** (Buyer / Supplier)

SG2 C 20 Segment Group 2

Description: A group of segments identifying names, addresses, locations, and contacts relevant to the whole Delivery Schedule.

NAD M 1 Name and Address

Description: A segment for identifying names and addresses and their functions relevant for the whole Delivery Schedule.

Examples: **NAD+BY+000006543::91++ KION GROUP AG+Abraham-Lincoln-Str
 +Wiesbaden++65189+DE'**

**NAD+SU+000003456::92++ABC Products+32 Fulham Road
 +Stockholm++54321+SE'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
3035	Party qualifier	M	an..3	M	BY = Buyer SU = Supplier
C082	Party identification details	C		M	
3039	Party identification	M	an..35	M	000006543 = Customer No. KION at Supplier 000003456 = Supplier's No. at KION
3055	Responsible f. code	C	an..3	M	91 = Assigned by seller 92 = Assigned by buyer
C080	Party name	C		C	
3036	Name	M	an..35	M	Name
3036_2	Name	C	an..35	C	
3036_3	Name	C	an..35	C	
3036_4	Name	C	an..35	C	
C059	Street	C		C	
3042	Street and/or PO Box number	M	ab..35	M	Street
3042_2	Street and/or PO Box number	C	an..35	C	
3164	Name of city	C	an..35	C	City
3229	Country sub-entity identification	C	an..9	C	
3251	Postal code	C	an..9	C	Postal code
3207	Country code ISO 3166-2	C	an..3	C	Country code

Segment No.: 5 **SG2-NAD-SG3-CTA** (Sales representative / Material disposition contact)

SG2 C 20 Segment Group 2
NAD M 1 Name and Address

SG3 C 5 Segment Group 3

Description: A group of segments to identify people, functions, or departments and appropriate numbers to whom communication should be directed.

CTA M 1 Contact

Description: A segment to identify the person, function, or department to whom communication should be directed.

Example: **CTA+SR+402:Daniel Radcliffe'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
3139	Contact function, coded	M	an..3	M	SR = Sales representative contact MD = Material disposition contact
C056	Department or employee details	C		C	
3413	Department or employee identification	C	an..17	C	402 = Ident.-No. purchaser
3412	Department or employee	C	an..35	C	Daniel Radcliffe

Segment No.: 6 **SG2-NAD-SG3-CTA-COM**

SG2	C	20	Segment Group 2
NAD	M	1	Name and Address
SG3	C	5	Segment Group 3
CTA	M	1	Contact

COM C 5 Communication

Description: A segment identifying communication types and numbers for the person, function, or department identified in the CTA..

Examples: **COM+0044 1234 654321:TE'**
 COM+Emma.Watson@kiongroup.com:EM'

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C076	Communication contact	C		C	
3148	Communication number	C	an..512	C	
3155	Communication channel qualifier	C	an..3	C	EM = Email TE = Telephone FX = Telefax

Segment No.: 7,20

UNS M 1 Section control

Description: A service segment placed at the start and the end of the detail section to avoid segment collision.

Example: **UNS+S'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
0081	Section identification	M	a..1	M	D = Header/detail section separation S = Detail/summary section separation

Segment No.: 8 **SG4-NAD** (Delivery party / unloading point)

SG4 C 500 Segment Group 4

Description: A group containing delivery details of line items.

NAD M 1 Name and Address

Description: A segment for identifying names and addresses and their functions relevant to the delivery point.

Example: **NAD+DP+1001::92++KION GROUP AG:SAP-LO 1101+Abraham-Lincoln-Str
 +Wiesbaden++65189+DE'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
3035	Party qualifier	M	an..3	M	DP = Delivery party
C082	Party identification details	C		C	
3039	Party identification	M	an..35	M	1001 = Customer's plant
3055	Responsible f. code	C	an..3	C	92 = Assigned by buyer
C080	Name and address	C		C	
3036	Name	M	an..35	M	Name
3036_2	Name	C	an..35	C	
3036_3	Name	C	an..35	C	
3036_4	Name	C	an..35	C	
C059	Name and address	C		C	
3042	Street and/or PO Box number	M	ab..35	M	Street
3042_2	Street and/or PO Box number	C	an..35	C	
3164	Name of city	C	an..35	C	City
3229	Country sub-entity identification	C	an..9	C	
3251	Postal code	C	an..9	C	Postal code
3207	Country code ISO 3166-2	C	an..3	C	Country code

Segment No.: 9 **SG4-NAD-LOC** (Unloading point)

SG4 C 500 Segment Group 4
NAD M 1 Name and Address

LOC C 10 Place / location information

Description: A segment identifying a specific location to which product, as specified in the LIN-Segment groups, should be delivered.

Example: **LOC+159+4101'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
3227	Place/location qualifier	M	an..3	M	159 = Additional internal destination
C517	Location identification	C		C	
3225	Place/location identification	C	an..25	C	4101 = Unloading point

Segment No.: 10 **SG4-NAD-SG8-LIN**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address

SG8 C 9999 Segment Group 8

Description: A group of segments providing details of the individual line items for the specified delivery point.

LIN M 1 Line item

Description: A segment identifying the details of the product.

Example: **LIN+10++1944408059:BP'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
1082	Line item number	C	n..6	C	10
1229	Action request/notification, coded	C	an..3	C	
C212	Item number identification	C		M	
7140	Item number	C	an..35	M	1944408059
7143	Item number type, coded	C	an..3	M	BP = Buyers part number

Segment No.: 11 **SG4-NAD-SG8-LIN-PIA**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

PIA C 1 Additional product id

Description: A segment providing additional product identification.

Examples: **PIA+1+6005044:SA'**

PIA+1+DRW/1944408059/04/000:DW'

PIA+1+K:GS'

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
4347	Product id. function qualifier	M	an..3	M	1 = Additional identification
C212	Item number identification	M		M	
7140	Item number	C	an..35	C	6005044 DRW/1944408059/04/000 DRW = Drawing 1944408059 = Number 04 = Version 000 = Part K = Consignation product
7143	Item number type, coded	C	an..3	N	SA = Supplier's article number DW = Drawing GS = General specification number (used for Konsi)

Segment No.: 12 **SG4-NAD-SG8-LIN-IMD**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

IMD C 10 Item description

Description: A segment for describing the product or the service to be delivered.

Example: **IMD+F++:::Valve'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
7077	Item description type, coded	C	an..3	M	F = Free form
7081	Item characteristic, coded	C	an..3	C	
C273	Item description	C		M	
7009	Item description identification	C	an..17	C	
1131	Code list qualifier	C	an..3	C	
3055	Code list responsible agency, coded	C	an..3	C	
7008	Item description	C	an..35	M	Valve
7008_2	Item description	C	an..35	C	
1222	Configuration level	C	n..2	C	
7083	Configuration, coded	C	an..3	C	

Segment No.: 13 **SG4-NAD-SG8-LIN-DTM**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

DTM C 5 Expiration date

Description: Date/time/period associated with the line item.

Example: **DTM+36:20120301:102'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C507	Date / Time / Period	M		M	
2005	Date / time / period qualifier	M	an..3	M	36 = Expiration date
2380	Date / time / period value	C	an..35	C	20120301 = Expiration date
2379	Date / time / period format qualifier	C	an..3	C	102 = CCYYMMDD

Segment No.: 14 **SG4-NAD-SG8-LIN-SG10-RFF**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

SG10 C 10 Segment Group 10

Description: A group of segments giving references to the line item and where necessary, their dates.

RFF M 1 Reference

Description: A segment giving references to the line item.

Examples: **RFF+ON:5500012345'**

RFF+AAN:97'

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C506	Reference	M		M	
1153	Reference qualifier	M	an..3	M	ON = Order number AAN = Delivery schedule number
1154	Reference number	C	an..35	C	5500012345 97

Segment No.: 15 **SG4-NAD-SG8-LIN-SG10-RFF -DTM**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item
SG10 C 10 Segment Group 10
RFF M 1 Reference

DTM C 1 Date / time / period

Description: Date / time of the referred document.

Example: **DTM+171:20110712:102'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C507	Date / Time / Period	M		M	
2005	Date / time / period qualifier	M	an..3	M	171 = Reference date / time
2380	Date / time / period value	C	an..35	C	20110712 = Delivery schedule date
2379	Date / time / period format qualifier	C	an..3	C	102 = CCYYMMDD

Segment No.: 16 **SG4-NAD-SG8-LIN-SG12-QTY**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

SG12 C 200 Segment Group 12

Description: A group of segments specifying quantity related information for actual delivery, reporting or cumulative quantities and forecast quantities as required for the line item.

QTY C 1 Quantity

Description: A segment to specify pertinent quantities which may be relating to schedule(s) and/or pattern established in the SCC/DTM segment, e.g. delivery quantity or a specified date.

Example: **QTY+48:10:PCE'**
 QTY+66:10:PCE'
 QTY+113:15:PCE'

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C186	Quantity details	M			
6063	Quantity qualifier	M	an..3	M	48 = Received quantity 66 = Committed quantity 70 = Cumulative quantity received 113 = Quantity to be delivered
6060	Quantity	M	n..15	M	15
6411	Measure unit qualifier	C	an..3	M	PCE = Piece

Note: 'Quantity qualifier' (6063) value '66' will only be used in conjunction with 'Level of commitment' (4017, see next page) SCC-values '2' and '3'.

Segment No.: 17 **SG4-NAD-SG8-LIN-SG12-QTY-SSC**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item
SG12 C 200 Segment Group 12
QTY C 1 Quantity

SSC C 1 Scheduling conditions

Description: A segment specifying the type of the schedule being given.

Example: **SSC+4'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
4017	Level of commitment	M	an..3	M	1 = Firm commitment 2 = Commitment for manufacturing and material 3 = Commitment for material 4 = Planning / forecast

Note: 'Level of commitment' (4017) SCC-values '2' and '3' are intended to communicate the dates and quantities which relates to the commitment for manufacturing and/or material.

Both groups (see example below) are for informational purposes only!

QTY+66:500:PCE'
 SCC+2'
 DTM+55:20120531:102'

QTY+66:600:PCE'
 SCC+3'
 DTM+55:20120829:102'

Segment No.: 18 **SG4-NAD-SG8-LIN-SG12-QTY-DTM**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item
SG12 C 200 Segment Group 12
QTY C 1 Quantity

DTM C 2 Date and Time

Description: A segment indicating the date/time/period details relating to the quantity and schedule details in the QTY/SCC segments. This segment may indicate date/time ranges, e.g. start and end dates for a delivery pattern, or delivery window.

Example: **DTM+50:20110712:102'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C507	Date / Time / Period	M		M	
2005	Date / Time / Period qualifier	M	an..3	M	2 = Delivery date/time requested 50 = Goods receipt date/time 55 = Confirmed date/time
2380	Date	C	an..35	M	20110712
2379	Format qualifier	C	an..3	C	102 = CCYYMMDD

Segment No.: 19 **SG4-NAD-SG8-LIN-SG12-QTY-SG13-RFF**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item
SG12 C 200 Segment Group 12
QTY C 1 Quantity

SG13 C 10 Segment Group 13

Description: A group of segments for referencing specific product delivery release information and where necessary their date.

RFF C 1 Reference

Description: A segment for referencing specific product delivery release information e.g. appointment.

Example: **RFF+DQ:62189'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C506	Reference	M			
1153	Reference qualifier	M	an..3	M	DQ = Delivery note number
1154	Reference number	M	an..13	M	62189

Segment No.: 20 **SG4-NAD-SG8-LIN-SG14-PAC**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

SG14 C 50 Segment Group 14

Description: A group of segments identifying the packaging, physical dimensions, and marks and numbers for goods referenced in the line item to be delivered.

PAC C 1 Reference

Description: A segment specifying the number of package units and the physical type of packaging for the line item, e.g. pallet.

Example: **PAC++++A:Palette A1-800x12'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
7224	Number of packages	C	n..8		
C531	Packaging Details	C			
7075	Packaging level, coded	C	an..3		
7233	Packaging related information, coded	C	an..3		
7073	Packaging terms and conditions, coded	C	an..3		
C202	Package Type	C			
7065	Type of packages identification	C	an..17		
1131	Code list qualifier	C	an..3		
3055	Ode list responsible agency, coded	C	an..3		
7064	Type of packages	C	an..35		
C402	Package Type Identification	C		C	
7077	Item description, coded	M	an..3	M	A = Free-form description
7064	Type of packages	M	an..35	M	Palette A1-800x12

Segment No.: 21 **SG4-NAD-SG8-LIN-SG14-PAC-QTY**

SG4 C 500 Segment Group 4
NAD M 1 Name and Address
SG8 C 9999 Segment Group 8
LIN M 1 Line item

SG14 C 50 Segment Group 14
PAC C 1 Reference

QTY C 1 Quantity

Description: A segment to specify pertinent quantities relating to the physical units (packages) described in the PAC segment.

Example: **QTY+52:100'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
C186	Quantity details	M			
6063	Quantity qualifier	M	an..3	M	52 = Quantity per pack
6060	Quantity	M	n..15	M	100
6411	Measure unit qualifier	C	an..3		

Segment No.: 23

UNT M 1 Message trailer

Description: A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

Example: **UNT+46+1'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
0074	Number of segments in a message	M	n..10	M	46
0062	Message reference number	M	an..14	M	1 = No. of message within interchange (repetition of UNH 0062)

UNZ M 1 Interchange trailer

Description: To end and check the completeness of an interchange.

Example: **UNZ+1+89'**

EDIFACT Standard Definition				KION Usage	
Tag	Name	St	Ft	St	Description and/or Example
0036	Interchange control count	M	n..6	M	1 = number of messages in transmission
0020	Interchange control reference	M	an..14	M	89 = number of interchanges to partner (repetition of UNB 0020)