

Knorr-Bremse Message Implementation Guideline

ORDERS D96A – Purchase Order Message

Subject:	EDI Message Implementation Guideline – ORDERS D96A	03
		Version
Valid for:	External Suppliers of Knorr-Bremse	10.02.2020
	Divisions	Valid from
Created by:	Knorr-Bremse EDI Team	I / APM 3.2

Change History

Version	Author	Changes
01 – 10.01.2020	PV	Initial Release
02 – 16.01.2020	PR	Removed some unused fields/segments Added PCD segment for early payment discount case
03 – 10.02.2020	PR	UNB 0102 (0002) – Use syntax version 4

ORDERS Purchase order message

HEADER

USER REQ	REQ. DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
	C	1	10	UNB	Interchange header
	M	1	20	UNH	Message header
	M	1	30	BGM	Beginning of message
	M	35	40	DTM	Date/time/period
LOOP ID - SG2_BUYER MAX: 99					
	C	1	130	NAD	Name and address
LOOP ID - SG5 MAX: 5					
	C	1	230	CTA	Contact information
	C	5	240	COM	Communication contact
LOOP ID - SG2_SUPPLIER MAX: 99					
	C	1	130	NAD	Name and address
LOOP ID - SG5 MAX: 5					
	C	1	230	CTA	Contact information
	C	5	240	COM	Communication contact
LOOP ID - SG2_DELIVERY MAX: 99					
	C	1	130	NAD	Name and address
LOOP ID - SG7 MAX: 5					
	C	1	300	CUX	Currencies
LOOP ID - SG8 MAX: 10					
	C	1	340	PAT	Payment terms basis
	C	1	350	PCD	Percentage details
LOOP ID - SG11 MAX: 5					
	C	1	450	TOD	Terms of delivery or transport

ITEMS

USER REQ	REQ. DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
LOOP ID - SG25 MAX: 200000					
	M	1	960	LIN	Line item
	C	25	970	PIA	Additional product id
	C	99	980	IMD	Item description
	C	10	1000	QTY	Quantity
	C	35	1030	DTM	Date/time/period
LOOP ID - SG28 MAX: 25					
	C	1	1210	PRI	Price details

USER REQ	REQ. DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
				LOOP ID - SG33	MAX: 9999
C		1	1430	LOC	Place/location identification

SUMMARY

USER REQ	REQ. DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
	M	1	2110	UNS	Section control
	C	12	2120	MOA	Monetary amount
	M	1	2180	UNT	Message trailer
	C	1	2230	UNZ	Interchange trailer

UNB**UNB ° Interchange header**

User Req: USED
Table/Area: 1
Loop: N/A
Loop Section: N/A
Position: 0010
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		S001	Syntax identifier			
	M	UNB0101	S001/0001	Syntax identifier	A	4	4
				UNOC UN/ECE level C			
	M	UNB0102	S001/0002	Syntax version number	N	1	1
				4 Version 4			
	M	UNB02	S002	Interchange sender			
	M	UNB0201	S002/0004	Interchange sender identification	AN	1	35
				Level 1 Note: Sender Identification. To be agreed with Knorr-Bremse EDI Team			
	M	UNB03	S003	Interchange recipient			
	M	UNB0301	S003/0010	Recipient identification	AN	1	35
				Level 1 Note: Receiver Identification. To be agreed with Knorr-Bremse EDI Team			
	M	UNB04	S004	Date and time of preparation			
	M	UNB0401	S004/0017	Date	N	6	6
				Level 1 Note: Date in CCYYMMDD of the EDI transmission			
	M	UNB0402	S004/0019	Time	N	4	4
				Level 1 Note: Time in HHMM of the EDI transmission			
	M	UNB05	0020	Interchange control reference	AN	1	14
				Level 1 Note: Unique reference of the interchange. This value should be repeated in UNZ 02 0020			

Set Note: UNB+UNOC:4+KNORRBREMSE+SUPPLIER+20200107:1023+1'

UNH ° Message header

User Req: USED
Table/Area: 1
Loop: N/A
Loop Section: N/A
Position: 0020
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	UNH01	0062	Message reference number	AN	1	14
Level 1 Note: EDI message number.							
	M	UNH02	S009	Message identifier			
	M	UNH0201	S009/0065	Message type identifier	AN	1	6
				ORDERS	Purchase order message		
	M	UNH0202	S009/0052	Message version number	AN	1	3
				D	Draft version/UN/EDIFACT Directory		
	M	UNH0203	S009/0054	Message release number	AN	1	3
				96A	Release 1996 - A		
	M	UNH0204	S009/0051	Controlling agency	AN	1	2
				UN	UN/CEFACT		

Set Note: UNH+1+ORDERS:D:96A:UN'

BGM**BGM ° Beginning of message**

User Req: USED
Table/Area: 1
Loop: N/A
Loop Section: N/A
Position: 0030
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C		C002	Document/message name			
	C	BGM0101	C002/1001	Document/message name, coded	AN	1	3
				220 Order			
	C	BGM02	1004	Document/message number	AN	1	35
				Level 1 Note: Purchase order number. To be sent back as is in ORDRSP.			
	C	BGM03	1225	Message function, coded	AN	1	3
				9 Original			

Set Note: BGM+220+4500126806+9'

DTM**DTM ° Date/time/period**

User Req: USED
Table/Area: 1
Loop: N/A
Loop Section: N/A
Position: 0040
Max Use: 35

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C507	Date/time/period			
	M	DTM0101	C507/2005	Date/time/period qualifier	AN	1	3
			137	Document/message date/time			
	C	DTM0102	C507/2380	Date/time/period	AN	1	35
			Level 1 Note: Date of the Purchase Order				
	C	DTM0103	C507/2379	Date/time/period format qualifier	AN	1	3
			102	CCYYMMDD			

Set Note: DTM+137:20200107:102'

NAD**NAD ° Name and address**

User Req: USED
Table/Area: 1
Loop: SG2_BUYER
Loop Section: NAD
Position: 0130
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	NAD01	3035	Party qualifier	AN	1	3
				BY Buyer			
	C	NAD02	C082	Party identification details			
	M	NAD0201	C082/3039	Party identification	AN	1	35
				Level 1 Note: Customer number at supplier.			
	C	NAD0203	C082/3055	Code list responsible agency, coded	AN	1	3
				91 Assigned by seller or seller's agent			

Set Note: NAD+BY+12345::91'

CTA**CTA ° Contact information**

User Req: USED
Table/Area: 1
Loop: SG5
Loop Section: NAD;CTA
Position: 0230
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C	CTA01	3139	Contact function, coded	AN	1	3
				IC Information contact			
	C	CTA02	C056	Department or employee details			
	C	CTA0201	C056/3413	Department or employee identification	AN	1	17

Set Note: CTA+IC+Mr. Mueller'

COM**COM ° Communication contact**

User Req: USED
Table/Area: 1
Loop: SG5
Loop Section: NAD;CTA
Position: 0240
Max Use: 5

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C076	Communication contact			
	M	COM0101	C076/3148	Communication number	AN	1	512
	M	COM0102	C076/3155	Communication channel qualifier	AN	1	3
				TE	Telephone		

Set Note: COM+089/22471862:TE'

NAD**NAD ° Name and address**

User Req: USED
Table/Area: 1
Loop: SG2_SUPPLIER
Loop Section: NAD
Position: 0130
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	NAD01	3035	Party qualifier	AN	1	3
				SU	Supplier		
	C	NAD02	C082	Party identification details			
	M	NAD0201	C082/3039	Party identification	AN	1	35
	C	NAD0203	C082/3055	Code list responsible agency, coded	AN	1	3
				92	Assigned by buyer or buyer's agent		

Set Note: NAD+SU+2345443::92'

CTA**CTA ° Contact information**

User Req: USED
Table/Area: 1
Loop: SG5
Loop Section: NAD;CTA
Position: 0230
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C	CTA01	3139	Contact function, coded	AN	1	3
				IC Information contact			
	C	CTA02	C056	Department or employee details			
	C	CTA0201	C056/3413	Department or employee identification	AN	1	17

Set Note: CTA+IC+Mr. Mueller'

COM**COM ° Communication contact**

User Req: USED
Table/Area: 1
Loop: SG5
Loop Section: NAD;CTA
Position: 0240
Max Use: 5

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C		C076	Communication contact			
	C	COM0101	C076/3148	Communication number	AN	1	512
	C	COM0102	C076/3155	Communication channel qualifier	AN	1	3
				TE	Telephone		

Set Note: COM+089/22471862:TE'

NAD**NAD ° Name and address**

User Req: USED
Table/Area: 1
Loop: SG2_DELIVERY
Loop Section: NAD
Position: 0130
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	NAD01	3035	Party qualifier	AN	1	3
				DP	Delivery party		
	C	NAD02	C082	Party identification details			
	M	NAD0201	C082/3039	Party identification	AN	1	35
	C	NAD0203	C082/3055	Code list responsible agency, coded	AN	1	3
				92	Assigned by buyer or buyer's agent		
	C	NAD04	C080	Party name			
	M	NAD0401	C080/3036	Party name	AN	1	35
	C	NAD0402	C080/3036	Party name	AN	1	35
	C	NAD0403	C080/3036	Party name	AN	1	35
	C	NAD0404	C080/3036	Party name	AN	1	35
	C	NAD05	C059	Street			
	M	NAD0501	C059/3042	Street and number/p.o. box	AN	1	35
	C	NAD0502	C059/3042	Street and number/p.o. box	AN	1	35
	C	NAD06	3164	City name	AN	1	35
	C	NAD08	3251	Postcode identification	AN	1	9
	C	NAD09	3207	Country, coded	AN	1	3

Set Note: NAD+DP+SDHU::92+KNORR-BREMSE+Ortsteil Seubtendor+Tanna++DE'

CUX**CUX ° Currencies**

User Req: USED
Table/Area: 1
Loop: SG7
Loop Section: CUX
Position: 0300
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C		C504	Currency details			
	M	CUX0101	C504/6347	Currency details qualifier	AN	1	3
				2 Reference currency			
	C	CUX0102	C504/6345	Currency, coded	AN	1	3
	C	CUX0103	C504/6343	Currency qualifier	AN	1	3
				9 Order currency			

Set Note: CUX+2:EUR:9'

PAT**PAT ° Payment terms basis**

User Req: USED
Table/Area: 1
Loop: SG8
Loop Section: PAT
Position: 0340
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	PAT 01	4279	Payment terms type qualifier	AN	1	3
				1	Basic		
				22	Discount		
	C	PAT 03	C112	Terms/time information			
	M	PAT 0301	C112/2475	Payment time reference, coded	AN	1	3
				5	Date of invoice		
	C	PAT 0303	C112/2151	Type of period, coded	AN	1	3
				D	Day		
	C	PAT 0304	C112/2152	Number of periods	N	1	3

Set Note: PAT+1++5::D:90'

PCD**PCD ° Percentage details**

User Req: USED
Table/Area: 1
Loop: SG8
Loop Section: PAT
Position: 0350
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C501	Percentage details			
	M	PCD0101	C501/5245	Percentage qualifier	AN	1	3
				12 Discount			
	C	PCD0102	C501/5482	Percentage	N	1	10
			Level 1 Note: Percentage of early payment discount (if applicable).				

Set Note: PCD+12:5'

TOD**TOD ° Terms of delivery or transport**

User Req: USED
Table/Area: 1
Loop: SG11
Loop Section: TOD
Position: 0450
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C	TOD01	4055	Terms of delivery or transport function, coded	AN	1	3
				Level 1 Note: Indication whether the terms relate to e.g. price conditions, delivery conditions, transport conditions, or a combination of these.			
				6	Delivery condition		
	C	TOD03	C100	Terms of delivery or transport			
	C	TOD0301	C100/4053	Terms of delivery or transport, coded	AN	1	3
				Level 1 Note: CFR Cost & Freight DDP Delivered duty paid to destination EXW Ex works			
	C	TOD0304	C100/4052	Terms of delivery or transport	AN	1	70

Set Note: TOD+6++EXW'

LIN**LIN ° Line item**

User Req: USED
Table/Area: 2
Loop: SG25
Loop Section: LIN
Position: 0960
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Min Type	Len.	Max Len.
	C	LIN01	1082	Line item number	N	1	6
Level 1 Note: Unique line item number within an order. To be sent back as is in ORDRSP.							
	C	LIN02	1229	Action request/notification, coded	AN	1	3
				1 Added			
	C	LIN03	C212	Item number identification			
	M	LIN0301	C212/7140	Item number	AN	1	35
Level 1 Note: Article number							
	M	LIN0302	C212/7143	Item number type, coded	AN	1	3
				BP Buyer's part number			

Set Note: LIN+00010+1+567456123:BP'

PIA**PIA ° Additional product id**

User Req: USED
Table/Area: 2
Loop: SG25
Loop Section: LIN
Position: 0970
Max Use: 25

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C	PIA01	4347	Product id. function qualifier	AN	1	3
				5 Product identification			
	C	PIA02	C212	Item number identification			
	C	PIA0201	C212/7140	Item number	AN	1	35
				Level 1 Note: Article number			
	C	PIA0202	C212/7143	Item number type, coded	AN	1	3
				SA Supplier's article number			

Set Note: PIA+5+332465:SA'

IMD**IMD ° Item description**

User Req: USED
Table/Area: 2
Loop: SG25
Loop Section: LIN
Position: 0980
Max Use: 99

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C	IMD01	7077	Item description type, coded	AN	1	3
				F Free-form			
	C	IMD03	C273	Item description			
	C	IMD0304	C273/7008	Item description	AN	1	35
	C	IMD0305	C273/7008	Item description	AN	1	35

Set Note: IMD+F++::VERSCHLUSSSCHRAUBE'

QTY**QTY ° Quantity**

User Req: USED
Table/Area: 2
Loop: SG25
Loop Section: LIN
Position: 1000
Max Use: 10

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C186	Quantity details			
	M	QTY0101	C186/6063	Quantity qualifier	AN	1	3
				21	Ordered quantity		
	M	QTY0102	C186/6060	Quantity	N	1	15
	C	QTY0103	C186/6411	Measure unit qualifier	AN	1	3
			Level 1 Note: PCE				

Set Note: QTY+21:35:PCE'

DTM**DTM ° Date/time/period**

User Req: USED
Table/Area: 2
Loop: SG25
Loop Section: LIN
Position: 1030
Max Use: 35

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C507	Date/time/period			
	M	DTM0101	C507/2005	Date/time/period qualifier	AN	1	3
				2	Delivery date/time, requested		
	C	DTM0102	C507/2380	Date/time/period	AN	1	35
	C	DTM0103	C507/2379	Date/time/period format qualifier	AN	1	3
				102	CCYYMMDD		

Set Note: DTM+2:20200223:102'

PRI**PRI ° Price details**

User Req: USED
Table/Area: 2
Loop: SG28
Loop Section: LIN;PRI
Position: 1210
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	C		C509	Price information			
	M	PRI0101	C509/5125	Price qualifier	AN	1	3
				AAA Calculation net			
	C	PRI0102	C509/5118	Price	N	1	15
	C	PRI0105	C509/5284	Unit price basis	N	1	9
	C	PRI0106	C509/6411	Measure unit qualifier	AN	1	3

Set Note: PRI+AAA:341.52:::1:PCE'

LOC**LOC ° Place/location identification**

User Req: USED
Table/Area: 2
Loop: SG33
Loop Section: LIN;LOC
Position: 1430
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	LOC01	3227	Place/location qualifier	AN	1	3
				159	Additional internal destination		
				ZZZ	Mutually defined		
	C	LOC02	C517	Location identification			
	C	LOC0201	C517/3225	Place/location identification	AN	1	25

Set Note: LOC+159+0650'

UNS**UNS ° Section control**

User Req: USED
Table/Area: 3
Loop: N/A
Loop Section: N/A
Position: 2110
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	UNS01	0081	Section identification	A	1	1
				S			
				Detail/summary section separation			

Set Note: UNS+S'

MOA**MOA ° Monetary amount**

User Req: USED
Table/Area: 3
Loop: N/A
Loop Section: N/A
Position: 2120
Max Use: 12

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M		C516	Monetary amount			
	M	MOA0101	C516/5025	Monetary amount type qualifier	AN	1	3
				86	Message total monetary amount		
	C	MOA0102	C516/5004	Monetary amount	N	1	18
	C	MOA0103	C516/6345	Currency, coded	AN	1	3

Set Note: MOA+86:341.52:EUR'

UNT**UNT ° Message trailer**

User Req: USED
Table/Area: 3
Loop: N/A
Loop Section: N/A
Position: 2180
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	UNT01	0074	Number of segments in a message	N	1	6
				Level 1 Note: Total number of segments in message including UNH/UNT			
	M	UNT02	0062	Message reference number	AN	1	14
				Level 1 Note: Same as UNH 01 0062			

Set Note: UNT+24+1'

UNZ**UNZ ° Interchange trailer**

User Req: USED
Table/Area: 3
Loop: N/A
Loop Section: N/A
Position: 2230
Max Use: 1

Data Element Summary

User Req	Req. Des.	Ref. Des.	Data Element	Element Name	Data Type	Min Len.	Max Len.
	M	UNZ01	0036	Interchange control count	N	1	6
Level 1 Note: Total number of messages in interchange							
	M	UNZ02	0020	Interchange control reference	AN	1	14
Level 1 Note: Same as UNB 05 0020							

Set Note: UNZ+1+1'

For any question regarding this guideline, please contact Knorr-Bremse's EDI Team:

cvsemi@knorr-bremse.com (CVS)
railedi.resmuc@knorr-bremse.com (RVS)



Knorr-Bremse Group