850 Purchase Order

Functional Group ID= \mathbf{PO}

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Heading:

М	Pos. <u>No.</u> 010	Seg. ID ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	<u>Max.Use</u> 1	Loop <u>Repeat</u>	Notes and <u>Comments</u>
М	020	BEG	Beginning Segment for Purchase Order	М	1		
	040	CUR	Currency	0	1		
	050	REF	Reference Identification	0	>1		
	060	PER	Administrative Communications Contact	0	3		
	080	FOB	F.O.B. Related Instructions	0	>1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1		
	150	DTM	Date/Time Reference	0	10		
	190	PID	Product/Item Description	0	200		
	200	MEA	Measurements	0	40		
	240	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		
			LOOP ID - N1			200	
	310	N1	Name	0	1		
	330	N3	Address Information	0	2		
	340	N4	Geographic Location	0	>1		

Detail:

М

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u> LOOP ID - PO1	Req. <u>Des.</u>	<u>Max.Use</u>	Loop <u>Repeat</u> 100000	Notes and <u>Comments</u>
ſ	010	PO1	Baseline Item Data	М	1	100000	n1
L	020	CUR	Currency	0	1		
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	0	1		
	060	MEA	Measurements	0	10		
	100	REF	Reference Identification	0	>1		
	210	DTM	Date/Time Reference	О	10		
			LOOP ID - SCH			200	
	295	SCH	Line Item Schedule	0	1		n2
			LOOP ID - N1			200	
	350	N1	Name	0	1		
	370	N3	Address Information	0	2		
	380	N4	Geographic Location	О	1		

Summary:

М

Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	<u>Max.Use</u>	Loop <u>Repeat</u>	Notes and <u>Comments</u>
		LOOP ID - CTT			1	
010	CTT	Transaction Totals	0	1		n3
030	SE	Transaction Set Trailer	М	1		

Transaction Set Notes

- **1.** PO102 is required.
- 2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
- **3.** The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

Segment:	ST Transaction Set Header
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

			L	Jata Element Summary		
	Ref.	Data				
	Des.	Element	<u>Name</u>		Attr	ributes
Μ	ST01	143	Transact	ion Set Identifier Code	Μ	ID 3/3
			Code uni	quely identifying a Transaction Set		
			850	Purchase Order		
Μ	ST02	329	Transact	ion Set Control Number	М	AN 4/9
			•	ng control number that must be unique within the tra- l group assigned by the originator for a transaction		ion set

BEG Beginning Segment for Purchase Order

Segment:	${f BEG}$ Beginning Segment for Purchase Order
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates
Syntax Notes:	
Semantic Notes: Comments:	1 BEG05 is the date assigned by the purchaser to purchase order.

			Data	i Element Summary		
	Ref.	Data Element	Nomo		A ++.	
М	<u>Des.</u> BEG01	Element 353	<u>Name</u> Transaction	Set Purpose Code		<u>ributes</u> ID 2/2
IVI	DEGUI	555		-	IVI	ID 2/2
			•	ying purpose of transaction set		
			00	Original		
			01	Cancellation		
			02	Add		
			04	Change		
			05	Replace		
Μ	BEG02	92	Purchase Or	rder Type Code	М	ID 2/2
			Code specify	ring the type of Purchase Order		
			NE	New Order		
			RL	Release or Delivery Order		
			SA	An order for goods and services placed pre-existing contract or blanket order Stand-alone Order	l again	ist a
14	DECAS	224	~		м	A NT 1 /22
Μ	BEG03	324		rder Number	Μ	AN 1/22
			Identifying n	umber for Purchase Order assigned by the orde	rer/pu	rchaser
	BEG04	328	Release Nun	nber	0	AN 1/30
				tifying a release against a Purchase Order prev ved in the transaction	iously	placed by the
			Or Previous	Order Number		
Μ	BEG05	373	Date		Μ	DT 8/8
			Date express	ed as CCYYMMDD		
			1			

CUR ~

Segment:	CUR Currency
Position:	040
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:	1 If CUR08 is present, then CUR07 is required.
	2 If CUR09 is present, then CUR07 is required.
	3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
	4 If CUR11 is present, then CUR10 is required.
	5 If CUR12 is present, then CUR10 is required.
	6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
	7 If CUR14 is present, then CUR13 is required.
	8 If CUR15 is present, then CUR13 is required.
	9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
	10 If CUR17 is present, then CUR16 is required.
	11 If CUR18 is present, then CUR16 is required.
	12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
	13 If CUR20 is present, then CUR19 is required.
	14 If CUR21 is present, then CUR19 is required.
Semantic Notes:	
Comments:	1 See Figures Appendix for examples detailing the use of the CUR segment.

	Ref.	Data			
	Des.	Element	Name		ibutes
Μ	CUR01	98	Entity Identifier Code	Μ	ID 2/3
			Code identifying an organizational entity, a physical location individual	, prop	berty or an
			BY Buying Party (Purchaser)		
М	CUR02	100	Currency Code	М	ID 3/3
171	CUR02	100	Code (Standard ISO) for country in whose currency the charge		
	CUDA2	280			R 4/10
	CUR03	200	Exchange Rate	-	
			Value to be used as a multiplier conversion factor to convert from one currency to another	mone	tary value
	CUR04	98	Entity Identifier Code	0	ID 2/3
			Code identifying an organizational entity, a physical location individual		-
	~~~~~	100	Refer to $004010$ Data Element Dictionary for acceptable code		
	CUR05	100	Currency Code	0	ID 3/3
			Code (Standard ISO) for country in whose currency the charge	es ar	-
	CUR06	669	Currency Market/Exchange Code	0	ID 3/3
			Code identifying the market upon which the currency exchan	ge rat	te is based
			Refer to 004010 Data Element Dictionary for acceptable code	e valu	les.
	CUR07	374	Date/Time Qualifier	Х	ID 3/3
			Code specifying type of date or time, or both date and time		
			Refer to 004010 Data Element Dictionary for acceptable code	e valu	ies.
	CUR08	373	Date	0	DT 8/8
			Date expressed as CCYYMMDD		
	CUR09	337	Time	0	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M (00-59), S = integer seconds (00-59) and DD = decimal secon seconds are expressed as follows: D = tenths (0-9) and DD = (00-99)	= miı nds; d	nutes ecimal

CUR10	374	Date/Time Qualifier	X	ID 3/3
CURIO	574	Code specifying type of date or time, or both date and time	21	10 5/5
		Refer to 004010 Data Element Dictionary for acceptable code	valu	es.
CUR11	373	Date	X	DT 8/8
oomii	0.0	Date expressed as CCYYMMDD		210/0
CUR12	337	Time	х	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = (00-59), S = integer seconds (00-59) and DD = decimal secon seconds are expressed as follows: D = tenths (0-9) and DD = 1 (00-99)	HHN = mir ds; d	MMSS, or nutes ecimal
CUR13	374	Date/Time Qualifier	Х	ID 3/3
		Code specifying type of date or time, or both date and time		
		Refer to 004010 Data Element Dictionary for acceptable code	valu	es.
CUR14	373	Date	Х	DT 8/8
		Date expressed as CCYYMMDD		
CUR15	337	Time	Х	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = (00-59), S = integer seconds (00-59) and DD = decimal secon- seconds are expressed as follows: D = tenths (0-9) and DD = 1 (00-99)	= mir ds; d	nutes ecimal
CUR16	374	Date/Time Qualifier	Х	ID 3/3
		Code specifying type of date or time, or both date and time		
		Refer to 004010 Data Element Dictionary for acceptable code	valu	es.
CUR17	373	Date	Х	DT 8/8
		Date expressed as CCYYMMDD		
CUR18	337	Time	Х	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = (00-59), S = integer seconds (00-59) and DD = decimal secon seconds are expressed as follows: D = tenths (0-9) and DD = H (00-99)	= mir ds; d	nutes ecimal
CUR19	374	Date/Time Qualifier	Х	ID 3/3
		Code specifying type of date or time, or both date and time		
		Refer to 004010 Data Element Dictionary for acceptable code	valu	es.
CUR20	373	Date	Х	DT 8/8
		Date expressed as CCYYMMDD		
CUR21	337	Time	Х	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where $H = hours (00-23)$ , $M = (00-59)$ , $S = integer seconds (00-59) and DD = decimal secondsseconds are expressed as follows: D = tenths (0-9) and DD = I (00-99)$	= mir ds; d	nutes ecimal

## **REF** Reference Identification

Segment:	<b>REF</b> Reference Identification
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<b>1</b> At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

М	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identification Qualifier	<u>Attı</u> M	<u>ributes</u> ID 2/3
			Code qualifying the Reference Identification		
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

# **PER** Administrative Communications Contact

Segment:	PER Administrative Communications Contact
Position:	060
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	3
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.
	2 If either PER05 or PER06 is present, then the other is required.
	3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:	

**Comments:** 

			Dutu Elei	nem Summury		
	Ref.	Data				
	Des.	<u>Element</u>	Name		Att	<u>ributes</u>
Μ	PER01	366	Contact Function	n Code	Μ	ID 2/2
			Code identifying t	he major duty or responsibility of the pers	on or	group named
			BD	Buyer Name or Department		
	PER02	93	Name		0	AN 1/60
			Free-form name			
	PER03	365	<b>Communication</b>	Number Qualifier	Х	ID 2/2
			Code identifying t	he type of communication number		
			EM	Electronic Mail		
			TE	Telephone		
	PER04	364	<b>Communication</b>	Number	Х	AN 1/80
			Complete communation applicable	nications number including country or area	a code	when

## FOR FOR Polated Instructions

Segment:	FOB F.O.B. Related Instructions
<b>Position:</b>	080
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify transportation instructions relating to shipment
Syntax Notes:	1 If FOB03 is present, then FOB02 is required.
	2 If FOB04 is present, then FOB05 is required.
	<b>3</b> If FOB07 is present, then FOB06 is required.
	4 If FOB08 is present, then FOB09 is required.
Semantic Notes:	<b>1</b> FOB01 indicates which party will pay the carrier.
	2 FOB02 is the code specifying transportation responsibility location.
	<b>3</b> FOB06 is the code specifying the title passage location.
	4 FOB08 is the code specifying the point at which the risk of loss transfers. This may
	be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:** 

			Data Element Summary		
	Ref.	Data			
	Des.	<u>Element</u>	Name	Att	ributes
Μ	FOB01	146	Shipment Method of Payment	Μ	ID 2/2
			Code identifying payment terms for transportation charges		
	FOB02	309	Location Qualifier	Х	ID 1/2
			Code identifying type of location		
	FOB04	334	Transportation Terms Qualifier Code	0	ID 2/2
			Code identifying the source of the transportation terms		
	FOB05	335	Transportation Terms Code	Х	ID 3/3
			Code identifying the trade terms which apply to the shipmen responsibility	it tran	sportation

Segment:	ITD Terms of Sale/Deferred Terms of Sale
Position:	130
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify terms of sale
Syntax Notes:	1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	1 ITD15 is the percentage applied to a base amount used to determine a late payment
	charge.
<b>Comments:</b>	<b>1</b> If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or
	ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

<b>D</b> 4		Data Element Summary		
Ref.	Data	N	• • •	•1 4
Des.	Element	Name	-	<u>ributes</u>
ITD01	336	Terms Type Code	0	ID 2/2
		Code identifying type of payment terms		
ITD02	333	Terms Basis Date Code	0	ID 1/2
		Code identifying the beginning of the terms period		
ITD03	338	Terms Discount Percent	0	R 1/6
		Terms discount percentage, expressed as a percent, available	to the	e purchaser if
		an invoice is paid on or before the Terms Discount Due Date		
ITD04	370	Terms Discount Due Date	Х	DT 8/8
		Date payment is due if discount is to be earned expressed in f CCYYMMDD	orma	t
ITD05	351	Terms Discount Days Due	x	N0 1/3
11005	551	-		110 110
		Number of days in the terms discount period by which payme discount is earned	int is	due il terms
ITD06	446	Terms Net Due Date	0	DT 8/8
11200		Date when total invoice amount becomes due expressed in fo	rmat	220,0
		CCYYMMDD	innat	
ITD07	386	Terms Net Days	0	N0 1/3
		Number of days until total invoice amount is due (discount no	ot app	olicable)
ITD08	362	Terms Discount Amount	0	N2 1/10
		Total amount of terms discount		
ITD09	388	Terms Deferred Due Date	0	DT 8/8
		Date deferred payment or percent of invoice payable is due ex	kpres	sed in format
		CCYYMMDD		
ITD10	389	Deferred Amount Due	X	N2 1/10
		Deferred amount due for payment		
ITD11	342	Percent of Invoice Payable	Х	R 1/5
		Amount of invoice payable expressed in percent		
ITD12	352	Description	0	AN 1/80
		A free-form description to clarify the related data elements ar	id the	eir content
ITD13	765	Day of Month	Х	N0 1/2
		The numeric value of the day of the month between 1 and the	max	imum day of
		the month being referenced	_	
ITD14	107	Payment Method Code	0	ID 1/2
		Code identifying type of payment procedures		
ITD15	954	Percent	0	R 1/10
		Percentage expressed as a decimal		

## **DTM** Date/Time Reference

Segment:	DTM Date/Time Reference
<b>Position:</b>	150
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	<b>3</b> If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	

**Comments:** 

	Ref.	Data	Data Element Summary		
	Des.	<b>Element</b>	Name	Att	<u>ributes</u>
Μ	DTM01	374	Date/Time Qualifier	Μ	ID 3/3
			Code specifying type of date or time, or both date and time		
	DTM02	373	Date	Х	DT 8/8
			Date expressed as CCYYMMDD		
	DTM03	337	Time	Х	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, o HHMMSSD, or HHMMSSDD, where H = hours (00-23), M (00-59), S = integer seconds (00-59) and DD = decimal seco seconds are expressed as follows: D = tenths (0-9) and DD = (00-99)	= mi nds; c	nutes lecimal
	DTM04	623	Time Code	0	ID 2/2
			Code identifying the time. In accordance with International S Organization standard 8601, time can be specified by a + or in hours in relation to Universal Time Coordinate (UTC) tim restricted character, + and - are substituted by P and M in the	- and e; sin	an indication ce + is a

## **PID** Product/Item Description

Segment:	PID Product/Item Description
Position:	190
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	1 If PID04 is present, then PID03 is required.
	2 At least one of PID04 or PID05 is required.
	<b>3</b> If PID07 is present, then PID03 is required.
	4 If PID08 is present, then PID04 is required.
	5 If PID09 is present, then PID05 is required.
Semantic Notes:	<b>1</b> Use PID03 to indicate the organization that publishes the code list being referred to.
	2 PID04 should be used for industry-specific product description codes.
	<b>3</b> PID08 describes the physical characteristics of the product identified in PID04. A
	"Y" indicates that the specified attribute applies to this item; an "N" indicates it does
	not apply. Any other value is indeterminate.
	4 PID09 is used to identify the language being used in PID05.
<b>Comments:</b>	1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If
	PID01 equals "X", then both PID04 and PID05 are used.
	2 Use PID06 when necessary to refer to the product surface or layer being described in
	the segment.

PID07 specifies the individual code list of the agency specified in PID03. 3

	D (		Data Elemo	ent Summary		
Μ	Ref. <u>Des.</u> PID01	Data <u>Element</u> 349	<u>Name</u> Item Description T			<u>ributes</u> ID 1/1
			•	format of a description		
				ta Element Dictionary for acceptable code	e valu	ies.
	PID02	750	Product/Process C		0	ID 2/3
				e general class of a product or process cha	aracte	ristic
			02	General Product Form		
			08	Product		
			09	Sub-product		
			11	Society, Government, Customer Specifi	catio	ns
			13	Quality (Quality Level)		
			14	Finish or Surface Roughness		
			15	Heat Treat/Anneal		
			16	Temper		
			17	Coating		
			18	Surface Treatment, Chemical		
			19	Surface Treatment, Mechanical		
			20	Ends: Slitting, Splitting, Cutting		
			21	Forming		
			22	Edge Treatment		
			23	Welds/Splices		
			25	End Treatment		
			28	Test Sample Frequency		
			29	Test Sample Location		
			30	Test Sample Direction		
			32	Type of Test/Inspection		
			35	Color		
			55	Alloy		

		58	Winding Instructions		
		9B	Product Application		
		PR	Manufacturing Process		
			Production operations performed on the pro reported	oduc	ct being
		TWF	Theoretical Weight Formula		
			Used to calculate a material weight		
PID03	559	Agency Qualifier	Code X		ID 2/2
		Code identifying the	ne agency assigning the code values		
		AA	Aluminum Association		
		CB	Copper and Brass Fabricators Council, Inc.		
		ST	American Iron & Steel Institute		
PID04	751	Product Descripti	ion Code X		AN 1/12
		A code from an inc characteristic	lustry code list which provides specific data a	bou	t a product
PID05	352	Description	Х		AN 1/80
		A free-form descri	ption to clarify the related data elements and t	heir	content
PID06	752	Surface/Layer/Po	sition Code C	) ]	ID 2/2
		Code indicating the	e product surface, layer or position that is beir	ng d	escribed

Segment:	MEA Measurements
Position:	200
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	<b>3</b> If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	<b>1</b> MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

		Data Elenent Summary		
Ref.	Data			
Des.	Element	Name	Attı	<u>ributes</u>
MEA01	737	Measurement Reference ID Code	0	ID 2/2
		Code identifying the broad category to which a measurement	appli	ies
MEA02	738	Measurement Qualifier	0	ID 1/3
		Code identifying a specific product or process characteristic t measurement applies	o wh	ich a
MEA03	739	Measurement Value	Х	R 1/20
		The value of the measurement		
MEA04	C001	Composite Unit of Measure	Х	
		To identify a composite unit of measure (See Figures Appen of use)	ndix f	or examples
C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
		Code specifying the units in which a value is being expressed which a measurement has been taken	, or n	nanner in
MEA05	740	Range Minimum	Х	R 1/20
		The value specifying the minimum of the measurement range		
MEA06	741	Range Maximum	Х	R 1/20
		The value specifying the maximum of the measurement range	e	
MEA09	752	Surface/Layer/Position Code	0	ID 2/2
		Code indicating the product surface, layer or position that is b	eing	described
			-	

## **TD5** Carrier Details (Routing Sequence/Transit Time)

Segment:	${f TD5}$ Carrier Details (Routing Sequence/Transit Time)
<b>Position:</b>	240
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
	2 If TD502 is present, then TD503 is required.
	<b>3</b> If TD507 is present, then TD508 is required.
	4 If TD510 is present, then TD511 is required.
	5 If TD513 is present, then TD512 is required.
	6 If TD514 is present, then TD513 is required.
	7 If TD515 is present, then TD512 is required.
Semantic Notes:	1 TD515 is the country where the service is to be performed.
<b>Comments:</b>	1 When specifying a routing sequence to be used for the shipment movement in lieu of
	specifying each carrier within the movement, use TD502 to identify the party
	responsible for defining the routing sequence, and use TD503 to identify the actual

## routing sequence, specified by the party identified in TD502.

Ref.	Data	Data Element Summary		
Des.	<u>Element</u>	<u>Name</u>	Attı	<u>ributes</u>
TD501	133	Routing Sequence Code	0	ID 1/2
		Code describing the relationship of a carrier to a specific ship	ment	movement
TD502	66	Identification Code Qualifier	Х	ID 1/2
		Code designating the system/method of code structure used for Code (67)	or Ide	entification
TD503	67	Identification Code	Х	AN 2/80
		Code identifying a party or other code		
TD504	91	Transportation Method/Type Code	Х	ID 1/2
		Code specifying the method or type of transportation for the s	hipn	nent
TD505	387	Routing	Х	AN 1/35
		Free-form description of the routing or requested routing for soriginating carrier's identity	shipn	nent, or the

Segment:	N1 _{Name}
Position:	310
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required.
	2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.N105 and N106 further define the type of entity in N101.

Data Element Summary						
М	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier (	Code	<u>Attı</u> M	<u>ributes</u> ID 2/3
			Code identifying an individual BT	n organizational entity, a physical location Bill-to-Party	i, proj	perty or an
			MF	Manufacturer of Goods		
			ST	Ship To		
			SU	Supplier/Manufacturer		
			VN	Vendor		
	N102	93	Name		Х	AN 1/60
			Free-form name			
	N103	66	Identification Cod	le Qualifier	Х	ID 1/2
			Code designating to Code (67)	he system/method of code structure used f	or Ide	entification
	N104	67	<b>Identification Cod</b> Code identifying a	le party or other code	X	AN 2/80

Segment:	N3 Address Information
Position:	330
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
<b>Comments:</b>	

			Data Element Summary		
	Ref.	Data			
	Des.	<u>Element</u>	Name	Attr	<u>ributes</u>
Μ	N301	166	Address Information	Μ	AN 1/55
			Address information		
	N302	166	Address Information	0	AN 1/55
			Address information		

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N4 Geographic Location
340
N1 Optional
Heading
Optional
>1
To specify the geographic place of the named party
1 If N406 is present, then N405 is required.
1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

		Data Element Summary		
Ref.	Data			
Des.	<u>Element</u>	Name	Att	<u>ributes</u>
N401	19	City Name	0	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	0	ID 2/2
		Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
N403	116	Postal Code	0	ID 3/15
		Code defining international postal zone code excluding punc (zip code for United States)	tuatio	on and blanks
N404	26	Country Code	0	ID 2/3
		Code identifying the country		

Segment:	PO1 Baseline Item Data
Position:	010
Loop:	PO1 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
<b>Purpose:</b>	To specify basic and most frequently used line item data
Syntax Notes:	1 If PO103 is present, then PO102 is required.
-	2 If PO105 is present, then PO104 is required.
	<b>3</b> If either PO106 or PO107 is present, then the other is required.
	4 If either PO108 or PO109 is present, then the other is required.
	5 If either PO110 or PO111 is present, then the other is required.
	6 If either PO112 or PO113 is present, then the other is required.
	7 If either PO114 or PO115 is present, then the other is required.
	8 If either PO116 or PO117 is present, then the other is required.
	9 If either PO118 or PO119 is present, then the other is required.
	10 If either PO120 or PO121 is present, then the other is required.
	11 If either PO122 or PO123 is present, then the other is required.
	12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:	
<b>Comments:</b>	<b>1</b> See the Data Element Dictionary for a complete list of IDs.
	2 PO101 is the line item identification.
	<b>3</b> PO106 through PO125 provide for ten different product/service IDs per each item.
	For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Ref.	Data				
Des.	Element	Name		Att	<u>ributes</u>
PO101	350	Assigned Identifica	ation	0	AN 1/20
		Alphanumeric chara	acters assigned for differentiation within a	ı tran	saction set
PO102	330	<b>Quantity Ordered</b>		Х	R 1/15
		Quantity ordered			
PO103	355	Unit or Basis for M	Ieasurement Code	0	ID 2/2
		Code specifying the which a measureme BB	units in which a value is being expressed nt has been taken Base Box	l, or 1	nanner in
		KG	Kilogram		
		LB	Pound		
		PC	Piece		
PO104	212	Unit Price		Х	R 1/17
		Price per unit of pro	oduct, service, commodity, etc.		
PO106	235	Product/Service II	) Qualifier	Х	ID 2/2
		Code identifying the Product/Service ID	e type/source of the descriptive number us (234)	sed ir	1
		BP	Buyer's Part Number		
		EC	Engineering Change Level		
		GC	Grade Code		
		IN	Buyer's Item Number		
		MG	Manufacturer's Part Number		
		ON	Customer Order Number		
		PL	Purchaser's Order Line Number		
		PN	Company Part Number		
		РО	Purchase Order Number		
		RN	Release Number		
			Or Previous Order Number		

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		VN	Vendor's (Seller's) Item Number		
		VO	Vendor's Order Number		
		VX	Vendor's Specification Number		
PO107	234	Product/Serv	vice ID	Х	AN 1/48
		Identifying nu	imber for a product or service		

Segment:	CUR Currency
Position:	020
- <b>T</b>	PO1 Mandatory
	Detail
0	Optional
Max Use:	1
Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:	1 If CUR08 is present, then CUR07 is required.
	2 If CUR09 is present, then CUR07 is required.
	3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
	4 If CUR11 is present, then CUR10 is required.
	5 If CUR12 is present, then CUR10 is required.
	6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
	7 If CUR14 is present, then CUR13 is required.
	8 If CUR15 is present, then CUR13 is required.
	<ul><li>9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.</li></ul>
	10 If CUR17 is present, then CUR16 is required.
	· ·
	<b>12</b> If CUR19 is present, then at least one of CUR20 or CUR21 is required.
	<b>13</b> If CUR20 is present, then CUR19 is required.
	14 If CUR21 is present, then CUR19 is required.
Semantic Notes:	
<b>Comments:</b>	1 See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary	
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			Data Elem	ent Summary		
	Ref.	Data				
	Des.	Element	Name		Attr	<u>ibutes</u>
Μ	CUR01	98	Entity Identifier C	Code	Μ	ID 2/3
			Code identifying ar individual	organizational entity, a physical location	, prop	perty or an
			BY	Buying Party (Purchaser)		
Μ	CUR02	100	<b>Currency Code</b>		Μ	ID 3/3
			Code (Standard ISC	D) for country in whose currency the charge	ges are	e specified

Segment:	PID Product/Item Description
Position:	050
Loop:	PID Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	1 If PID04 is present, then PID03 is required.
	2 At least one of PID04 or PID05 is required.
	<b>3</b> If PID07 is present, then PID03 is required.
	4 If PID08 is present, then PID04 is required.
	5 If PID09 is present, then PID05 is required.
Semantic Notes:	<b>1</b> Use PID03 to indicate the organization that publishes the code list being referred to.
	2 PID04 should be used for industry-specific product description codes.
	<b>3</b> PID08 describes the physical characteristics of the product identified in PID04. A
	"Y" indicates that the specified attribute applies to this item; an "N" indicates it does
	not apply. Any other value is indeterminate.
	4 PID09 is used to identify the language being used in PID05.
<b>Comments:</b>	1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If
	PID01 equals "X", then both PID04 and PID05 are used.
	2 Use PID06 when necessary to refer to the product surface or layer being described in
	the segment.
	2 DID07 specifies the individual and list of the agency specified in DID02

**3** PID07 specifies the individual code list of the agency specified in PID03.

**Data Element Summary** 

Ref.	Data		·		
Des.	<u>Element</u>	<u>Name</u>			ributes
PID01	349	Item Description T		Μ	ID 1/1
		•	format of a description		
		F	Free-form		
		S	Structured (From Industry Code List)		
		Х	Semi-structured (Code and Text)		
PID02	750	Product/Process C	haracteristic Code	0	ID 2/3
		Code identifying the	e general class of a product or process cha	aracte	ristic
		02	General Product Form		
		08	Product		
		09	Sub-product		
		11	Society, Government, Customer Specifi	catio	ns
		13	Quality (Quality Level)		
		14	Finish or Surface Roughness		
		15	Heat Treat/Anneal		
		16	Temper		
		17	Coating		
		18	Surface Treatment, Chemical		
		19	Surface Treatment, Mechanical		
		20	Ends: Slitting, Splitting, Cutting		
		21	Forming		
		22	Edge Treatment		
		23	Welds/Splices		
		25	End Treatment		
		28	Test Sample Frequency		
		29	Test Sample Location		
		30	Test Sample Direction		
		32	Type of Test/Inspection		

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М

		35	Color		
		55	Alloy		
		58	Winding Instructions		
		9B	Product Application		
		PR	Manufacturing Process		
		TWF	Production operations performed on the preported Theoretical Weight Formula	rod	uct being
			Used to calculate a material weight		
		ZZ	Mutually Defined		
PID03	559	Agency Qualifier (	Code	X	ID 2/2
		Code identifying the	e agency assigning the code values		
		AA	Aluminum Association		
		CB	Copper and Brass Fabricators Council, Inc	г.	
		ST	American Iron & Steel Institute		
PID04	751	Product Description	on Code	X	AN 1/12
		A code from an ind characteristic	ustry code list which provides specific data	abo	out a product
PID05	352	Description		Х	AN 1/80
		A free-form descrip	tion to clarify the related data elements and	the	eir content
PID06	752	Surface/Layer/Pos	ition Code	0	ID 2/2
		Code indicating the	product surface, layer or position that is be	ing	described

Segment:	MEA Measurements
Position:	060
Loop:	PID Optional
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	<b>3</b> If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	<b>1</b> When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

		Data Element Summary		
Ref.	Data			
Des.	<u>Element</u>	Name	Attr	<u>ributes</u>
MEA01	737	Measurement Reference ID Code	0	ID 2/2
		Code identifying the broad category to which a measurement	appli	ies
MEA02	738	Measurement Qualifier	0	ID 1/3
		Code identifying a specific product or process characteristic to measurement applies	o wh	ich a
MEA03	739	Measurement Value	Х	R 1/20
		The value of the measurement		
MEA04	C001	Composite Unit of Measure	Х	
		To identify a composite unit of measure (See Figures Appen of use)	dix f	or examples
C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
		Code specifying the units in which a value is being expressed which a measurement has been taken	, or n	nanner in
MEA05	740	Range Minimum	Х	R 1/20
		The value specifying the minimum of the measurement range		
MEA06	741	Range Maximum	Х	R 1/20
		The value specifying the maximum of the measurement range	;	
MEA09	752	Surface/Layer/Position Code	0	ID 2/2
		Code indicating the product surface, layer or position that is b	eing	described

## REF Poferonea Identification

Segment:	<b>REF</b> Reference Identification
Position:	100
Loop:	PO1 Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes: Comments:	<b>1</b> REF04 contains data relating to the value cited in REF02.

## **Data Element Summary**

			Data Element Summary		
	Ref.	Data			
	Des.	<b>Element</b>	Name	Att	<u>ributes</u>
Μ	REF01	128	<b>Reference Identification Qualifier</b>	Μ	ID 2/3
			Code qualifying the Reference Identification		
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	n Set o	or as
	REF03	352	Description	Х	AN 1/80
			A free-form description to clarify the related data elements a	and the	eir content

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### **DTM** Date/Time Reference Segment: **Position:** 210 PO1 Loop: Mandatory Level: Detail Usage: Optional Max Use: 10 To specify pertinent dates and times **Purpose:** Syntax Notes: At least one of DTM02 DTM03 or DTM05 is required. 1 If DTM04 is present, then DTM03 is required. 2 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

	Ref.	Data	Data Element Summary		
	Des.	<u>Element</u>	Name	Att	<u>ributes</u>
Μ	DTM01	374	Date/Time Qualifier	Μ	ID 3/3
			Code specifying type of date or time, or both date and time		
	DTM02	373	Date	Х	DT 8/8
			Date expressed as CCYYMMDD		
	DTM03	337	Time	Х	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, o HHMMSSD, or HHMMSSDD, where H = hours (00-23), M (00-59), S = integer seconds (00-59) and DD = decimal seconds seconds are expressed as follows: D = tenths (0-9) and DD = (00-99)	= mi nds; c	nutes lecimal
	DTM04	623	Time Code	0	ID 2/2
			Code identifying the time. In accordance with International S Organization standard 8601, time can be specified by $a + or - in$ hours in relation to Universal Time Coordinate (UTC) time restricted character, $+$ and $-$ are substituted by P and M in the	- and e; sin	an indication ce + is a

Segment:	SCH Line Item Schedule
Position:	295
Loop:	SCH Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the data for scheduling a specific line-item
Syntax Notes:	1 If SCH03 is present, then SCH04 is required.
	2 If SCH08 is present, then at least one of SCH09 or SCH10 is required.
	<b>3</b> If SCH09 is present, then SCH08 is required.
	4 If SCH10 is present, then SCH08 is required.
Semantic Notes:	<b>1</b> SCH12 is the schedule identification.
<b>Comments:</b>	<b>1</b> SCH05 specifies the interpretation to be used for SCH06 and SCH07.

			Data Elem	ent Summary		
	Ref.	Data			•	
М	<u>Des.</u> SCH01	Element 380	<u>Name</u> Ouontitu			<u>ributes</u> R 1/15
IVI	50.001	380	Quantity		IVI	K 1/15
	COLLOS		Numeric value of q	· •		TD 4/2
Μ	SCH02	355		Aeasurement Code	Μ	ID 2/2
			which a measureme		l, or r	nanner in
			BB	Base Box		
			KG	Kilogram		
			LB	Pound		
			PC	Piece		
	SCH03	<b>98</b>	Entity Identifier C	Code	0	ID 2/3
			Code identifying an individual	n organizational entity, a physical location	, prop	perty or an
	SCH04	93	Name		Х	AN 1/60
			Free-form name			
Μ	SCH05	374	Date/Time Qualifi	er	Μ	ID 3/3
			Code specifying typ	pe of date or time, or both date and time		
Μ	SCH06	373	Date		Μ	DT 8/8
			Date expressed as (	CCYYMMDD		
	SCH07	337	Time		0	TM 4/8
			HHMMSSD, or HI (00-59), S = integer seconds are express (00-99)	24-hour clock time as follows: HHMM, on HMMSSDD, where $H =$ hours (00-23), M r seconds (00-59) and DD = decimal seconds as follows: D = tenths (0-9) and DD =	= min nds; d	nutes lecimal lredths
	SCH08	374	Date/Time Qualifi		X	ID 3/3
			Code specifying typ	pe of date or time, or both date and time		

Segment:	N1 Name
Position:	350
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required.
	2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

provide a key to the table maintained by the transaction processing party.N105 and N106 further define the type of entity in N101.

	Ref.	Data	Dutu Litin			
	Des.	Element	<u>Name</u>		Att	<u>ributes</u>
Μ	N101	98	<b>Entity Identifier C</b>	Code	Μ	ID 2/3
			Code identifying an individual	n organizational entity, a physical location	, prop	perty or an
			BT	Bill-to-Party		
			MF	Manufacturer of Goods		
			ST	Ship To		
			SU	Supplier/Manufacturer		
			VN	Vendor		
	N102	93	Name		Х	AN 1/60
			Free-form name			
	N103	66	<b>Identification Cod</b>	e Qualifier	Х	ID 1/2
			Code designating th Code (67)	ne system/method of code structure used f	or Ide	entification
	N104	67	<b>Identification Cod</b>	e	Х	AN 2/80
			Code identifying a	party or other code		

Segment:	N3 Address Information
Position:	370
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
<b>Comments:</b>	

	Ref.	Data			
	Des.	<b>Element</b>	Name	Attı	ibutes
Μ	N301	166	Address Information	Μ	AN 1/55
			Address information		
	N302	166	Address Information	0	AN 1/55
			Address information		

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Segment:	N4 Geographic Location
Position:	380
Loop:	N1 Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 If N406 is present, then N405 is required.
Semantic Notes:	
Comments:	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

		Data Element Summary		
Ref.	Data			
Des.	<b>Element</b>	Name	Att	<u>ributes</u>
N401	19	City Name	0	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	0	ID 2/2
		Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
N403	116	Postal Code	0	ID 3/15
N404	26	Code defining international postal zone code excluding punc (zip code for United States) Country Code	tuatio	n and blanks
1,104	20	Code identifying the country	0	

Segment:	CTT Transaction Totals
Position:	010
Loop:	CTT Optional
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Syntax Notes:	1 If either CTT03 or CTT04 is present, then the other is required.
	2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:	
Comments:	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.

			Data Element Summary		
	Ref.	Data			
	Des.	<b>Element</b>	Name	Atti	ributes
Μ	CTT01	354	Number of Line Items	Μ	NO 1/6
			Total number of line items in the transaction set		

## Segment: **SE** Transaction Set Traile

<b>SL</b> Transaction Set Trailer
030
Summary
Mandatory
1
To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
<b>1</b> SE is the last segment of each transaction set.

	Ref.	Data			
	Des.	<u>Element</u>	<u>Name</u>	Attr	ibutes
Μ	SE01	96	Number of Included Segments	Μ	N0 1/10
			Total number of segments included in a transaction set include segments	ding S	T and SE
Μ	SE02	329	Transaction Set Control Number	Μ	AN 4/9
			Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction		ion set