

850 Purchase Order

Functional Group ID=**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:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BEG	Beginning Segment for Purchase Order	M	1		
	0500	REF	Reference Identification	O	>1		
	0600	PER	Administrative Communications Contact	O	3		
	0800	FOB	F.O.B. Related Instructions	O	>1		
LOOP ID - SAC						25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	1500	DTM	Date/Time Reference	O	10		
LOOP ID - N9						1000	
	2950	N9	Reference Identification	O	1		
	3000	MTX	Text	O	>1		
LOOP ID - N1						200	
	3100	N1	Name	O	1		
	3200	N2	Additional Name Information	O	2		
	3300	N3	Address Information	O	2		
	3400	N4	Geographic Location	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - PO1						100000	
M	0100	PO1	Baseline Item Data	M	1		n1
LOOP ID - PID						1000	
	0500	PID	Product/Item Description	O	1		
	0900	PO4	Item Physical Details	O	>1		
LOOP ID - SAC						25	
	1300	SAC	Service, Promotion, Allowance, or Charge	O	1		

Information

Summary:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
		LOOP ID - CTT			1	
0100	CTT	Transaction Totals	O	1		n2
M	0300	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

1. PO102 is required.
2. 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: 0100
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:
Comments:
Notes: Example:
 ST*850*0001

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M 1 ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M 1 AN 4/9

Segment: **BEG** Beginning Segment for Purchase Order
Position: 0200
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:

Comments:

Notes:

Example:
 BEG*00*ZZ*0091121524**20030922
 BEG*00*SA*5601121529**20030922
 BEG*00*SA*7602121529**20030922

Data Element Summary

Ref.	Data Element	Name	Attributes
M	BEG01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M 1 ID 2/2
M	BEG02	92 Purchase Order Type Code Code specifying the type of Purchase Order RO Rush Order Rush Order or Priority SKN Order SA Stand-alone Order Stand Alone order or Distributed PO ZZ Mutually Defined Toys 'R' Us uses this qualifier when the PO is Bulk formally contract order. The Bulk PO will be distributed to valid Toys 'R' Us Location at a later time.	M 1 ID 2/2
M	BEG03	324 Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Toys 'R' Us PO Number is 10 positions. Position 1-4 is the Location Number and 5 -10 is the PO number Eg. Bulk PO Number 0091123456 where 0091 is the 4-position dummy Distribution center code and 123456 is the 6-position PO number. Eg. Stand alone PO or Distributed PO Number 6301123456 where 6301 is the 4-position Distribution center code and 123456 is the 6-position PO number. Eg. Stand alone PO or Distributed PO Number 7302123456 where 7302 is the 4-position Store Number and 123456 is the 6-position PO number.	M 1 AN 1/22
M	BEG05	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M 1 DT 8/8

Segment: **REF** Reference Identification
Position: 0500
Loop:
Level: Heading
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.
- 3 If either C04005 or C04006 is present, then the other is required.

Comments:

Notes:

Example:
 REF*IA*99999

Data Element Summary

Ref.	Data Element	Name	Attributes
M	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification IA Internal Vendor Number	M 1 ID 2/3
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Toys 'R' Us Internal Vendor Number	X 1 AN 1/50

Segment: **PER** Administrative Communications Contact
Position: 0600
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.

Comments:

Notes:

Example:
 PER*BD*BUYER NAME*TE*9998881234

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366 Contact Function Code	M 1 ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		BD Buyer Name or Department	
		CR Customer Relations	
		SR Sales Representative or Department	
	PER02	93 Name	O 1 AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X 1 ID 2/2
		Code identifying the type of communication number	
		TE Telephone	
	PER04	364 Communication Number	X 1 AN 1/256
		Complete communications number including country or area code when applicable	

Segment: **FOB** F.O.B. Related Instructions
Position: 0800
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.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

Comments:

Notes:

Example:
 FOB*PP*CI*CITY ST 66666

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	FOB01	146 Shipment Method of Payment Code identifying payment terms for transportation charges	M 1 ID 2/2
		CC Collect	
		CF Collect, Freight Credited Back to Customer	
		FO FOB Port of Call	
		PP Prepaid (by Seller)	
	FOB02	309 Location Qualifier Code identifying type of location	X 1 ID 1/2
		CI City	
		DE Destination (Shipping)	
		OR Origin (Shipping Point)	
		PL Plant	
	FOB03	352 Description A free-form description to clarify the related data elements and their content	O 1 AN 1/80

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 1200
Loop: SAC Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

Comments:

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Example:
 SAC*A*F780****3*5*****02***OTH

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	SAC01	248 Allowance or Charge Indicator	M 1 ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X 1 ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		F780 Proforma Invoice	
	SAC05	610 Amount	O 1 N2 1/15
		Monetary amount	
	SAC06	378 Allowance/Charge Percent Qualifier	X 1 ID 1/1
		Code indicating on what basis allowance or charge percent is calculated	
		3 Discount/Gross	
	SAC07	332 Percent	X 1 R 1/6
		Percent expressed as a percent	
	SAC08	118 Rate	O 1 R 1/9
		Rate expressed in the standard monetary denomination for the currency specified	
	SAC09	355 Unit or Basis for Measurement Code	X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA Each	

SAC10	380	Quantity Numeric value of quantity	X	1 R 1/15
SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 02 Off Invoice	O	1 ID 2/2
SAC13	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1 AN 1/50
SAC15	352	Description A free-form description to clarify the related data elements and their content	X	1 AN 1/80

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 1300
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.
Comments: 1 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.
Notes: Example:
 ITD*01*3*1**10*****010DAYS

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
ITD01	336	Terms Type Code Code identifying type of payment terms 01 Basic	O 1 ID 2/2
ITD02	333	Terms Basis Date Code Code identifying the beginning of the terms period 3 Invoice Date	O 1 ID 1/2
ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O 1 R 1/6
ITD04	370	Terms Discount Due Date Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned	X 1 N0 1/3
ITD06	446	Terms Net Due Date Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	O 1 N0 1/3
ITD12	352	Description A free-form description to clarify the related data elements and their content	O 1 AN 1/80

Segment: **DTM** Date/Time Reference
Position: 1500
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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Comments:

Notes:

Example:
 DTM*193*20031019
 DTM*194*20031025
 DTM*037*20031008
 DTM*001*20031014

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374 Date/Time Qualifier	M 1 ID 3/3
		Code specifying type of date or time, or both date and time	
		001 Cancel After	
		037 Ship Not Before	
		193 Period Start	
		Earliest Date the Product should arrive at the Destination	
		194 Period End	
		Latest Date the Product should arrive at the Destination	
	DTM02	373 Date	X 1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	

Segment: **N9 Reference Identification**
Position: 2950
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Comments:

Notes:

Example:

N9*ZZ**SPECIAL HANDLING INSTRUCTIONS

Data Element Summary

Ref.	Data Element	Name	Attributes	
			M	ID
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification ZZ Mutually Defined	1	2/3
	N903	369 Free-form Description Free-form descriptive text	X	1 AN 1/45

Segment: **MTX** Text
Position: 3000
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:

- 1 If MTX01 is present, then MTX02 is required.
- 2 If MTX03 is present, then MTX02 is required.
- 3 If MTX05 is present, then MTX04 is required.

Comments:

- 1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

Notes: Example:
 MTX**PO MESSAGE

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
MTX02	1551	Message Text	X 1 AN 1/4096
		To transmit large volumes of message text	

Segment: **N1** Name
Position: 3100
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.
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.
 2 N105 and N106 further define the type of entity in N101.

Notes: Example:
 N1*ST*TOYS R US*9*0643364720091
 N1*BY*TOYS R US*9*0643364720000
 N1*MF*VENDOR NAME
 N1*SF*VENDOR NAME

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser) MF Manufacturer of Goods SF Ship From ST Ship To	M 1 ID 2/3
	N102	93 Name Free-form name	X 1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	X 1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code When N101 ="ST" then this code will be Toys 'R' Us Duns # + Toys 'R' Us Location # Example: 0643364725501 where 5501 is the Location #	X 1 AN 2/80

Segment: N2 Additional Name Information
Position: 3200
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Comments:
Notes:

Example:
N2*TRU PURCHASING

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
M	N201	93	Name Free-form name	M 1 AN 1/60
	N202	93	Name Free-form name	O 1 AN 1/60

Segment: N3 Address Information
Position: 3300
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Comments:
Notes: Example:
 N3*1 GEOFFREY WAY

Data Element Summary

Ref.	Des.	Data		Attributes
		Element	Name	
M	N301	166	Address Information Address information	M 1 AN 1/55
	N302	166	Address Information Address information	O 1 AN 1/55

Segment: **N4 Geographic Location**
Position: 3400
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

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.

Notes: Example:
N4*WAYNE*NJ*07470

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O 1 AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	X 1 ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O 1 ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	

Segment: **PO1** **Baseline Item Data**
Position: 0100
Loop: PO1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: 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.
- 3 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.

Comments:

- 1 See the Data Element Dictionary for a complete list of IDs.
- 2 PO101 is the line item identification.
- 3 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.

Notes: Example:
PO1**1008*EA*1.47**IT*727766*VA*33333*UP*076976976976
PO1**25*EA*15**IT*872872*VA*OKIE-DOKIE*UP*920741920741*KB*88*CL*60
*SZ*18M

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
PO102	330	Quantity Ordered Quantity ordered	X 1 R 1/15
PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	O 1 ID 2/2
PO104	212	Unit Price Price per unit of product, service, commodity, etc.	X 1 R 1/17
PO106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) IT Buyer's Style Number	X 1 ID 2/2
PO107	234	Product/Service ID Identifying number for a product or service Toys 'R' Us ITEM Number	X 1 AN 1/48
PO108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VA Vendor's Style Number	X 1 ID 2/2

PO109	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
PO110	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		UP UCC - 12		
		Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)		
PO111	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
		UPC code with Check Digit		
PO112	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		KB Data Category Code		
PO113	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
		Department Number		
PO114	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		CL Color		
PO115	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
PO116	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		SZ Vendor Alphanumeric Size Code		
PO117	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
		Size 1		
PO118	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		SZ Vendor Alphanumeric Size Code		
PO119	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
		Size 2		
PO120	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		EN EAN/UCC - 13		
		Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)		
PO121	234	Product/Service ID	X	1 AN 1/48

Identifying number for a product or service

Segment: **PID** **Product/Item Description**
Position: 0500
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.
- 3 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.

Comments:

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

Notes: Example:
 PID*F****ITEM DESCRIPTION

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PID01	Item Description Type Code indicating the format of a description F Free-form	M 1 ID 1/1
	PID05	Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80

Segment: **PO4** Item Physical Details
Position: 0900
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.
- 3 PO418 is the number of packages in this layer.

Notes: Example:
 PO4*12****G*7.1*LB*.8*CF*****1
 PO4*2****G*7.1*LB*.8*CF*****6****1

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Pack</u>	
PO401	356	Pack	O 1 N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container	
PO404	103	Packaging Code	X 1 AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used then Part 1 is always required CTN25 Carton, Corrugated or Solid	
PO405	187	Weight Qualifier	O 1 ID 1/2
		Code defining the type of weight G Gross Weight	
PO406	384	Gross Weight per Pack	X 1 R 1/9
		Numeric value of gross weight per pack	
PO407	355	Unit or Basis for Measurement Code	X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	
PO408	385	Gross Volume per Pack	X 1 R 1/9
		Numeric value of gross volume per pack	

PO409	355	Unit or Basis for Measurement Code	X	1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		CF Cubic Feet		
PO414	810	Inner Pack	O	1 N0 1/6
		The number of eaches per inner container		
PO418	1470	Number	O	1 N0 1/9
		A generic number. PO418 is the number of packages in this layer.		

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 1300
Loop: SAC Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 is required.

Comments:

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Example:
 SAC*A*F780****3*5**EA*1000**02***OTH

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	SAC01	248 Allowance or Charge Indicator	M 1 ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X 1 ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		F780 Proforma Invoice	
	SAC05	610 Amount	O 1 N2 1/15
		Monetary amount	
	SAC06	378 Allowance/Charge Percent Qualifier	X 1 ID 1/1
		Code indicating on what basis allowance or charge percent is calculated	
		3 Discount/Gross	
	SAC07	332 Percent	X 1 R 1/6
		Percent expressed as a percent	
	SAC08	118 Rate	O 1 R 1/9
		Rate expressed in the standard monetary denomination for the currency specified	
	SAC09	355 Unit or Basis for Measurement Code	X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA Each	

SAC10	380	Quantity Numeric value of quantity	X	1 R 1/15
SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge	O	1 ID 2/2
SAC13	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1 AN 1/50
SAC15	352	Description A free-form description to clarify the related data elements and their content	X	1 AN 1/80

Segment: **CTT** Transaction Totals
Position: 0100
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.
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example:
 CTT*1

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		354	Number of Line Items Total number of line items in the transaction set	M 1 N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 0300
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: Example:
 SE*25*0001

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M 1 AN 4/9

Example for Stand Alone or Distributed Purchase Order

ISA*00* *00* *01*064336472 *ZZ*VENDORISAID
*030922*1711*^*00400*000000114*0*T*>
GS*PO*064336472*VENDORGS*20030922*1711*114*X*004030
ST*850*0001
BEG*00*SA*5602121529**20030922
REF*IA*55555
PER*BD*BUYER NAME*TE*9998881234
FOB*PP*CI*CITY ST 66666
ITD*01*3*12**10*****010DAYS
DTM*193*20031228
DTM*194*20040103
DTM*037*20031217
DTM*001*20031223
N9*ZZ**SPECIAL HANDLING INSTRUCTIONS
MTX**PO MESSAGE
N1*ST*TOYS R US*9*0643364725602
N3*16040 SHERMAN WAY
N4*VAN NUYS*CA*91406
N1*BY*TOYS R US*9*0643364720000
N3*225 SUMMIT AVE 1ST FLR
N4*MONTVALE*NJ*07645
N1*MF*VENDOR NAME
N4*CITY*ST*66666
N1*SF*VENDOR NAME
N4*CITY*ST*66666
PO1**100*EA*3**IT*444444*VA*AAA*UP*454545454517
PID*F*****CRYING DOLL
PO4*10****G*1*LB*1*CF*****10
PO1**100*EA*3**IT*555555*VA*BBBB*UP*454545454524
PID*F*****DOLL
PO4*10****G*1*LB*1*CF*****10
CTT*7
SE*28*0001
GE*1*114
IEA*1*000000114

Example for Bulk Purchase Order

ISA*00* *00* *01*064336472 *ZZ*VENDORISAID
*030922*1711*^*00400*000000115*0*T*>
GS*PO*064336472*VENDORGS*20030922*1711*115*X*004030
ST*850*0001
BEG*00*ZZ*0091121278**20030827
REF*IA*55555
PER*BD*BUYER NAME*TE*9998881234
FOB*PP*CI*CITY ST 66666
SAC*A*F780***3*5**EA*1000**02***OTH
ITD*01*3*1**10*****010DAYS
DTM*193*20031228
DTM*194*20040103
DTM*037*20031218
DTM*001*20031224
N9*ZZ**SPECIAL HANDLING INSTRUCTIONS
MTX**PO MESSAGE
N1*ST*TOYS R US*9*0643364720091
N3*BULK PURCHASE ORDER
N4*BULK P.O.*XX*999999999
N1*BY*TOYS R US*9*0643364720000
N3*225 SUMMIT AVE 1ST FLR
N4*MONTVALE*NJ*07645
N1*MF*VENDOR NAME
N4*CITY*ST*66666
N1*SF*VENDOR NAME
N4*CITY*ST*66666
PO1**1000*EA*29.99**IT*888888*VA*K911*UP*121212121212
PID*F****ITEM DESCRIPTION
PO4*10****G*10*LB*.6*CF*****100
SAC*A*F780***3*2**EA*1000**02***OTH
SE*25*0001
GE*1*115
IEA*1*000000115