## **850 Purchase Order**

#### Functional Group ID=**PO**

Updates:

- September 20, 2006: Add ISBN-13, GTIN-14 Product ID's. Replace XNET with US ECPA Christian.
- August 10, 2016: Modified document's file name and Header to replace "XNet" with "US ECPA Christian." Added version, "X12 vers 3060.." Since this standard has been in use at least 12 years, replaced "Draft Standard Trial Use" with "Standard."

#### **Introduction:**

This Standard 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:**

	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>
М	010	<u>ST</u>	Transaction Set Header	М	1		
М	020	<u>BEG</u>	Beginning Segment for Purchase Order	М	1		
	050	<u>REF</u>	Reference Identification	0	>1		
	080	<u>FOB</u>	F.O.B. Related Instructions	Ο	>1		
	110	<u>CSH</u>	Sales Requirements	Ο	5		
	150	DTM	Date/Time Reference	Ο	10		
	240	<u>TD5</u>	Carrier Details (Routing Sequence/Transit Time)	0	12		
			LOOP ID - N1			200	
	310	<u>N1</u>	Name	0	1		

#### **Detail:**

	Pos.	Seg.		Req.		Loop	Notes and
	<u>No.</u>	<u>ID</u>	<u>Name</u>	Des.	Max.Use	<u>Repeat</u>	<b>Comments</b>
			LOOP ID - PO1			100000	
Μ	010	<u>PO1</u>	Baseline Item Data	М	1		n1
			LOOP ID - CTP			>1	

040	<u>CTP</u>	Pricing Information	0	1
142	<u>CSH</u>	Sales Requirements	О	>1

#### Summary:

	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>
М	010	<u>CTT</u>	LOOP ID - CTT Transaction Totals	М	1	1	n2
М	030	<u>SE</u>	Transaction Set Trailer	М	1		

#### **Transaction Set Notes**

- **1.** PO102 is required.
- 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
<b>Purpose:</b>	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).
<b>Comments:</b>	

#### **Data Element Summary**

Ref.	Data			
<u>Des.</u> E	<u>Attributes</u>			
MST01	143	Transaction Set Identifier Code	Μ	ID 3/3
		Code uniquely identifying a Transaction Set		
		850 X12.1 Purchase Order		
MST02	329	Transaction Set Control Number	Μ	AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

# Segment: 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:1 BEG05 is the date assigned by the purchaser to purchase order.

**Comments:** 

#### **Data Element Summary**

Ref.	Data					
Des. ElementName Attributes						
MBEG01	353	Transaction Set Purpose Code	Μ	ID 2/2		
		Code identifying purpose of transaction set				
		00 Original				
MBEG02	92	Purchase Order Type Code	Μ	ID 2/2		
		Code specifying the type of Purchase Order				
		CN Consigned Order				
		NE New Order				
MBEG03	324	Purchase Order Number	Μ	AN 1/22		
		Identifying number for Purchase Order assigned by the orderer/pu	ırchas	er		
BEG04	328	Release Number	0	AN 1/30		
		Number identifying a release against a Purchase Order previously	place	ed by the parties		
		involved in the transaction				
MBEG05	373	Date	Μ	DT 6/6		
		Date (YYMMDD)				

# Segment: REF Reference Identification

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

#### **Data Element Summary**

Ref.	2	<b>N</b>	A <b>67</b>
<u>Des.</u> E	lemen	<u>itName</u>	<u>Attributes</u>
REF01	128	<b>Reference Identification Qualifi</b>	erO ID 2/3
		Code qualifying the Reference Ide	entification
		PD Promotion/Deal Number	
REF02	127	<b>Reference Identification</b>	C AN 1/30
		Promotion Code	

## Segment: FOB F.O.B. Related Instructions

Position:080 Loop: Level:Heading **Usage:**Optional Max Use:>1 **Purpose:** To specify transportation instructions relating to shipment Syntax Notes:1If FOB03 is present, then FOB02 is required. 2If FOB04 is present, then FOB05 is required. **3**If FOB07 is present, then FOB06 is required. 4If FOB08 is present, then FOB09 is required. Semantic Notes:1FOB01 indicates which party will pay the carrier. 2FOB02 is the code specifying transportation responsibility location. **3**FOB06 is the code specifying the title passage location. 4FOB08 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.** ElementName

Attributes

**Shipment Method of Payment** MFOB01 146

M ID 2/2 Code identifying payment terms for transportation charges

CC Collect

- DF Defined by Buyer and Seller
- PC Prepaid but Charged to Customer
- PP Prepaid (by Seller)

# Segment: CSH Sales Requirements Position:110 Loop: Level:Heading Usage:Optional Max Use:5 Purpose: To specify general conditions or requirements of the sale Syntax Notes: 1If CSH02 is present, then CSH03 is required. 2If either CSH06 or CSH07 is present, then the other is required. 3If either CSH09 or CSH10 is present, then the other is required. Semantic Notes: 1CSH03 is the maximum monetary amount value which the order must not exceed. 2CSH04 is the account number to which the purchase amount is charged. 3CSH05 is the date specified by the sender to be shown on the invoice. 4CSH06 identifies the source of the code value in CSH07.

#### **Data Element Summary**

Ref. Data <u>Des. ElementName</u>

#### <u>Attributes</u> O ID 1/2

CSH01 563 Sales Requirement Code

Code to identify a specific requirement or agreement of sale

- B Back Order Only If New Item
- N No Back Order
- O Back Order If Items Are Out of Stock or Not Yet Published
- P2 Ship As Soon As Possible
- SC Ship Complete
- Y Back Order if Out of Stock

## Segment: DTM Date/Time Reference

Position:150 Loop: Level:Heading Usage:Optional Max Use:10 Purpose: To specify pertinent dates and times Syntax Notes:1At least one of DTM02 DTM03 or DTM06 is required. 2If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

**Comments:** 

#### **Data Element Summary**

Ref. Des. F	Data	tName	<b>A ++ +</b>	ibutes
MDTM01	374	Date/Time Qualifier	$\mathbf{M}$	ID 3/3
		Code specifying type of date or time, or	both o	date and time
		001 Cancel After		
		010 Requested Ship		
		175 Cancel if not shipped by		
<b>DTM02</b>	373	Date	С	DT 6/6
		Date (YYMMDD)		
DTM05	624	Century	С	N0 2/2
		The first two characters in the designation	on of t	he year (CCYY)

# Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position:240 Loop: Level:Heading Usage:Optional May Use:12

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.

**3**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.

#### Semantic Notes:

**Comments: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.

#### **Data Element Summary**

-

Ref.	Data				
Des. ElementName <u>Attributes</u>					
TD501	133	Routing Sequence Code	0	ID 1/2	
		Code describing the relationship of a carrier to a specific shipment	move	ement	
		B Origin/Delivery Carrier (Any Mode)			
<b>TD502</b>	66	Identification Code Qualifier	С	ID 1/2	
		Code designating the system/method of code structure used for Ide	entific	ation Code (67)	
		2 Standard Carrier Alpha Code (SCAC)			

#### TD503 67 Identification Code

#### Code identifying a party or other code.

List of Carriers is provided for those without access to SCAC Codes. Any valid SCAC Code should be supported.

- CDDN Caliber Dedicated Transport
- CFYW Consolidated Freightways
- DHLC DHL Airways
- FDE Federal Express
- RPSI Roadway Package System
- UPSN United Parcel Service -UPS
- USPS US Postal Service
- YFSY Yellow Freight

#### TD505 387 Routing

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

#### TD512 284 Service Level Code

#### ID 2/2

0

С

AN 1/35

Code indicating the level of transportation service or the billing service offered by the transportation carrier

- 3D Three Day Service
- G2 Standard Service
- ME Metro
- ND Next Day Air

Delivery during business day hours of next business day

- NH Next Day Hundred Weight
- ON Overnight
- SE Second Day
- SG Standard Ground
- SH Second Day Hundred Weight
- SI Standard Ground Hundred Weight

# 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:1At least one of N102 or N103 is required.

**2**If either N103 or N104 is present, then the other is required.

#### Semantic Notes:

Comments:1This 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.
 2N105 and N106 further define the type of entity in N101.

Data Element Summary

#### C AN 2/20

Ref.	Data				
Des. 1	Elemer	<u>utName</u>	<u>Attributes</u>		
<b>MN101</b>	<b>98</b>	Entity Identifier Code M ID 2/2			
		Code identifying an organizational entity, a physical location, ST Ship To	or an i	individual	
N102	93	Name	С	AN 1/35	
		Free-form name			
N103	66	Identification Code Qualifier	С	ID 1/2	
		Code designating the system/method of code structure used for 15 Standard Address Number (SAN)	r Iden	tification Code (67)	
N104	67	Identification Code	С	AN 2/20	
		Code identifying a party or other code (SAN #)			

# Segment: PO1 Baseline Item Data

Position:010 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.

#### 12If either PO124 or PO125 is pres

#### Semantic Notes:

**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.

#### **Data Element Summary**

 Ref.
 Data

 Des.
 ElementName

 PO101
 350

 Assigned Identification

#### <u>Attributes</u>

O AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

PO102	330	Quantity Ordered	С	R 1/9
		Quantity ordered		
PO103	355	Unit or Basis for Measurement Code	0	ID 2/2
		Code specifying the units in which a value is being expressed, or mann	er in	which a
		measurement has been taken		
		BX Box		
		CA Case		
		DZ Dozen		
		PK Package		
		ST Set		
		UN Unit		
		"Unit" or "Each"		
		YD Yard		
PO104	212	Unit Price	0	R 1/17
		Price per unit of product, service, commodity, etc.		
PO105	639	Basis of Unit Price Code	0	ID 2/2
		Code identifying the type of unit price for an item		
		NC No Charge		
		NT Net		
		Indicates a net unit price		
		PR Promotion		
		SR Suggested Retail		
		WE Wholesale Price per Each		
PO106	235	Product/Service ID Qualifier	С	ID 2/2
		Code identifying the type/source of the descriptive number used in Pro	duct/	Service ID (234)
		CB Buyer's Catalog Number		
PO107	234	Product/Service ID	С	AN 1/40
		Identifying number for a product or service (SKU #)		
PO108	235	Product/Service ID Qualifier	С	ID 2/2
		Code identifying the type/source of the descriptive number used in Pro	duct/	Service ID (234)
		CB Buyer's Catalog Number		
		IB International Standard Book Number (ISBN)		
		UP U.P.C. Consumer Package Code (1-5-5-1)		
		EN (ISBN-13) 13-digit European Article Number (EAN) (2-5-5-1)		
		UK 14-digit GTIN, UCC/EAN 1-2-5-5-1. Used when a leading digit i		
		13 that specifies the packaging level (such as a carton). When the	-	
		greater than a unit (such as a carton), a new check digit must be c	alcul	ated.
		VN Vendor's (Seller's) Item Number		
PO109	234	Product/Service ID	С	AN 1/40
		Identifying number for a product or service	_	
PO110	235	Product/Service ID Qualifier	С	ID 2/2
		Code identifying the type/source of the descriptive number used in Pro	duct/	Service ID (234)
		GC Grade Code		
PO111	234	Product/Service ID	С	AN 1/40
		Identifying number for a product or service		

# Segment: CTP Pricing Information

Position:040 Loop:CTP Optional Level:Detail Usage:Optional Max Use:1 Purpose:To specify pricing information Syntax Notes:1If either CTP04 or CTP05 is present, then the other is required. 2If CTP06 is present, then CTP07 is required. 3If CTP09 is present, then CTP02 is required. 4If CTP10 is present, then CTP02 is required. Semantic Notes:1CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given. 2CTP08 is the rebate amount. Comments:1See Figures Appendix for an example detailing the use of CTP03 and CTP04. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

#### **Data Element Summary**

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D C

Ref.	Data				
Des.	<u>ElementName</u> <u>A</u>			<u>Attributes</u>	
CTP02	236	Price Identifier Code	Χ	ID 3/3	
		Code identifying pricing specification			
		RES Resale			
		SLP Suggested List Price			
CTP03	212	Unit Price	0	R 1/17	
		Price per unit of product, service, commodity, etc.			
CTP04	380	Quantity	Χ	R 1/15	
		Numeric value of quantity			
CTP05	C001	Composite Unit of Measure	Х		
		To identify a composite unit of measure (See Figures Appendix for ex	kample	es of use)	
MC00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2	
		Code specifying the units in which a value is being expressed, or man	ner in	which a	
		measurement has been taken			
		EA Each			
		UN Unit			
CTP06	648	Price Multiplier Qualifier	0	ID 3/3	
		Code indicating the type of price multiplier			
		DIS Discount Multiplier			
CTP07	649	Multiplier	Х	R 1/10	
		Value to be used as a multiplier to obtain a new value			

# Segment: CSH Sales Requirements

Position:142 Loop:PO1 Mandatory Level:Detail Usage:Optional Max Use:>1 Purpose: To specify general conditions or requirements of the sale
Syntax Notes: 1If CSH02 is present, then CSH03 is required.
2If either CSH06 or CSH07 is present, then the other is required.
3If either CSH09 or CSH10 is present, then the other is required.
Semantic Notes: 1CSH03 is the maximum monetary amount value which the order must not exceed.
2CSH04 is the account number to which the purchase amount is charged.
3CSH05 is the date specified by the sender to be shown on the invoice.
4CSH06 identifies the source of the code value in CSH07.

#### **Data Element Summary**

Ref.	Data	
Des.	Elemen	tName <u>Attributes</u>
CSH01	563	Sales Requirement CodeOID 1/2
		Code to identify a specific requirement or agreement of sale
		B Back Order Only If New Item
		N No Back Order
		O Back Order If Items Are Out of Stock or Not Yet Published
		SC Ship Complete
		Ship Order When all items are in stock and shippable, otherwise do not
		ship any of the lines.
		Y Back Order if Out of Stock

## Segment: CTT Transaction Totals

Position:010 Loop:CTT Mandatory Level:Summary Usage:Mandatory Max Use:1 Purpose: To transmit a hash total for a specific element in the transaction set Syntax Notes:1If either CTT03 or CTT04 is present, then the other is required. 2If either CTT05 or CTT06 is present, then the other is required.

#### **Semantic Notes:**

**Comments:1**This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary** 

Ref. Data <u>Des.</u> <u>ElementName</u>

Attributes

#### MCTT01 354 Number of Line Items

Total number of line items in the transaction set

#### CTT02 347 Hash Total

### O R 1/10

N0 1/6

Μ

Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ------ 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

# Segment: SE Transaction Set Trailer

Position:030

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:

Semantic Notes:

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

#### **Data Element Summary**

Ref.	Data				
<u>Des. ElementName</u>			<u>Attributes</u>		
MSE01	96	Number of Included Segments	$\mathbf{M}$	N0 1/10	
		Total number of segments included in a transaction set including ST	and SI	E segments	
MSE02	329	Transaction Set Control Number	$\mathbf{M}$	AN 4/9	
		Identifying control number that must be unique within the transaction assigned by the originator for a transaction set	1 set fu	inctional group	

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