850 Purchase Order

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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BEG	Beginning Segment for Purchase Order	M	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
	080	FOB	F.O.B. Related Instructions	O	>1		
			LOOP ID - N1			200	
	310	N1	Name	O	1		
	330	N3	Address Information	O	2		
	340	N4	Geographic Location	O	>1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
M	010	PO1	Baseline Item Data	M	1		n1
	020	CUR	Currency	O	1		
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	O	1		
			LOOP ID - SCH			200	
	295	SCH	Line Item Schedule	O	1		n2

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT			1	
	010	CTT	Transaction Totals	O	1		n3
M	030	SE	Transaction Set Trailer	M	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 |

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:

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Data Element Summary

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	Ref. Des.	Data Element	Name	Attributes	
M	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			850 Purchase Order		
M	ST02	329	**Transaction Set Control Number**	M	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. Des.	Data Element	Name	Attributes	
M	**BEG01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
			Code identifying purpose of transaction set		
			00 Original		
M	**BEG02**	**92**	**Purchase Order Type Code**	**M**	**ID 2/2**
			Code specifying the type of Purchase Order		
			NE New Order		
M	**BEG03**	**324**	**Purchase Order Number**	**M**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
M	**BEG05**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		

Segment: **REF** Reference Identification
Position: 050
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.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			4C Shipment Destination Code		
	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

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:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	PER01	366	**Contact Function Code**	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			BD Buyer Name or Department	
	PER02	93	**Name**	O AN 1/60
			Free-form name	

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

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:
   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.
Semantic Notes:
   1   FOB01 indicates which party will pay the carrier.
   2   FOB02 is the code specifying transportation responsibility location.
   3   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. Des.	Data Element	Name	Attributes	
M	FOB01	146	**Shipment Method of Payment**	M	ID 2/2
			Code identifying payment terms for transportation charges		
			CC Collect		
	FOB02	309	**Location Qualifier**	X	ID 1/2
			Code identifying type of location		
			OR Origin (Shipping Point)		
	FOB04	334	**Transportation Terms Qualifier Code**	O	ID 2/2
			Code identifying the source of the transportation terms		
			01 Incoterms		
	FOB05	335	**Transportation Terms Code**	X	ID 3/3
			Code identifying the trade terms which apply to the shipment transportation responsibility		
			DEQ Delivered Ex Quay		

DEQ   Seller bears all costs and risks involved, including duties, taxes, and other charges involved in delivering the goods to the quay (wharf) at the named port of destination, cleared for import; seller's obligation ends when the goods are available to the buyer on the quay (this term used only for sea or inland waterway shipments)

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.		
		2	N105 and N106 further define the type of entity in N101.		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**N101**	**98**	**Entity Identifier Code**		**M** **ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			ST	Ship To	
			VN	Vendor	
	N102	**93**	**Name**		**X** **AN 1/60**
			Free-form name		
	N103	**66**	**Identification Code Qualifier**		**X** **ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			54	Warehouse	
			US	Unique Supplier Identification Number (USIN)	
	N104	**67**	**Identification Code**		**X** **AN 2/80**
			Code identifying a party or other code		

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:
Comments:

Data Element Summary

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

Segment: **N4** **Geographic Location**
Position: 340
Loop: N1   Optional
Level: Heading
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. Des.	Data Element	Name	Attributes	
N401	19	**City Name**	O	AN 2/30
		Free-form text for city name		
N402	156	**State or Province Code**	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	**Postal Code**	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	**Country Code**	O	ID 2/3
		Code identifying the country		
N405	309	**Location Qualifier**	X	ID 1/2
		Code identifying type of location		
		SP State/Province		
N406	310	**Location Identifier**	O	AN 1/30
		Code which identifies a specific location		

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.

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. Des.	Data Element	Name	Attributes	
PO101	350	**Assigned Identification**	O	AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set		
PO102	330	**Quantity Ordered**	X	R 1/15
		Quantity ordered		
PO103	355	**Unit or Basis for Measurement Code**	O	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		
PO104	212	**Unit Price**	X	R 1/17
		Price per unit of product, service, commodity, etc.		
PO106	235	**Product/Service ID Qualifier**	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		IN Buyer's Item Number		
PO107	234	**Product/Service ID**	X	AN 1/48
		Identifying number for a product or service		

Segment:	# CUR Currency			

Segment: **CUR** Currency
Position: 020
Loop: PO1 Mandatory
Level: Detail
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**CUR01**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			BY Buying Party (Purchaser)		
M	**CUR02**	**100**	**Currency Code**	**M**	**ID 3/3**
			Code (Standard ISO) for country in whose currency the charges are 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.	
	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.	
Semantic Notes:	1	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.	
	3	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.	
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.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	PID01	349	**Item Description Type**	M ID 1/1
			Code indicating the format of a description	
			F Free-form	
	PID05	352	**Description**	X AN 1/80
			A free-form description to clarify the related data elements and their content	

	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.
		3 If SCH09 is present, then SCH08 is required.
		4 If SCH10 is present, then SCH08 is required.
	Semantic Notes:	**1** SCH12 is the schedule identification.
	Comments:	**1** SCH05 specifies the interpretation to be used for SCH06 and SCH07.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SCH01**	**380**	**Quantity**	**M**	**R 1/15**
			Numeric value of quantity		
M	**SCH02**	**355**	**Unit or Basis for Measurement Code**	**M**	**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		
	SCH03	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			ST Ship To		
	SCH04	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
M	**SCH05**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			002 Delivery Requested		
M	**SCH06**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M CTT01	354	**Number of Line Items**	M N0 1/6
		Total number of line items in the transaction set	

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