

850 Purchase Order

Functional Group ID=**PO**

Introduction:

This standard contains the format and establishes the data contents of a Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The Purchase Order transaction set provides for customary and established business practice relative to the transfer of material release information between organizations.

Table 1: 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>
Must Use		ISA		M	1		
Must Use		GS		M	1		
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BEG	Beginning Segment for Purchase Order	M	1		
LOOP ID - N1							200
	310	N1	Name	O	1		
	320	N2	Additional Name Information	O	2		
	330	N3	Address Information	O	2		
	340	N4	Geographic Location	O	>1		

Table 2: 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
Must Use	010	PO1	Baseline Item Data	M	1		N1
LOOP ID - PID							25
Must Use	050	PID	Product/Item and Description	O	1		
LOOP ID - SCH							200
Must Use	295	SCH	Line Item Schedule	O	1		N2

Table 3: 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
	010	CTT	Transaction Totals	O	1		N3
Must Use	030	SE	Transaction Set Trailer	M	1		
Must Use		GE	Functional Group Trailer	M	1		
Must Use		IEA	Interchange Control Trailer				

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) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 850 selects the Purchase Order Transaction Set).
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850	M ID 3/3
>>	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 Transaction Set Control Number is assigned sequentially within each Functional Group.	M AN 4/9

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: 1 Codes listed in BEG01 are the only allowable Codes

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
>>	BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
>>	BEG02	92	Purchase Order Type Code Code specifying the type of Purchase Order BK Blanket NE New Order RL Confirmation SA Stand-alone Order	M ID 2/2
>>	BEG03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
	BEG04	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
>>	BEG05	373	Purchase Order Date Date expressed as YYYYMMDD	M DT 8/8

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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>> N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To	M ID 2/3
N102	93	Name Free-form name	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 DUNS Number 92 Assigned by buyer	X ID 1/2
N104	67	Identification Code Code identifying a 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:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N301	166	Address Information Address information (line 1)	M AN 1/55
	N302	166	Address Information Address information (line 2)	O AN 1/55

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

Data Element Summary

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

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.

Semantic Notes:
Comments:

- 1 See the Data Element Dictionary for a complete list of IDs.
- 2 PO106 through PO110 provide different product/service IDs per each item.

Data Element Summary

Required	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	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	
			Always use "EA"	
	PO104	212	Unit Price	X R 1/17
			Price per unit of product, service, commodity, etc.	
	PO105	639	Basis of Unit Price Code	O ID 2/2
			Code identifying the type of unit price for an item	
			Always use "PE"	
	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)	
			Always use "BP"	
	PO107	234	Product/Service ID	X AN 1/48
			Buyer's Part Number.	
	PO108	235	Product/Service ID Qualifier	X ID 2/2
			Do not use.	
	PO109	234	Product/Service ID	X AN 1/48
			Do not Use	
	PO110	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Always use "VP"	
	PO111	234	Product/Service ID	X AN 1/48
			Vendor's Part Number.	

Segment: PID Product Item Description

Position: 010
Loop: PID Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify product item description
Syntax Notes: none.
Semantic Notes:
Comments: none

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Required	PID01	349	Item Description Type	M ID 1/1
	PID02	750	Always send "F" Product/Process Characteristic Code Quantity ordered	O ID 2/3
	PID03	559	Agency Qualifier Code	X/ Z AN 1/12
	PID04	751	Do not Use Product Description Code	X/ Z AN 1/12
	PID05	352	Do not Use Description Product Description	X AN 1/80

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 SCH08 is present, then at least one of SCH09 or SCH10 is required.
 - 2 If SCH09 is present, then SCH08 is required.
 - 3 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.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	SCH01	380 Quantity Numeric value of quantity	M R 1/15
>>	SCH02	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 Always send "EA"	M ID 2/2
X	SCH03	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3
X	SCH04	93 Name Free-form name	X AN 1/60
>>	SCH05	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 002 Requested Delivery Date	M ID 3/3
>>	SCH06	373 Date Date expressed as YYYYMMDD	M DT 8/8
X	SCH07	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O TM 4/8
	SCH08	374 Date/Time Qualifier Code specifying type of date or time, or both date and time See AIA Harmonized Code List	X ID 3/3
	SCH09	373 Date Date expressed as YYYYMMDD	X DT 8/8

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:
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>Element</u>	<u>Name</u>	<u>Attributes</u>	
>> CTT01	354	Number of Line Items	M	N0 1/6
		Total number of line items in the transaction set		
CTT02	347	Hash Total	O	R 1/10
		Raytheon will use this field to send a transaction total.		

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
			This total includes the ST and SE	
>>	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 AN 4/9

Example:

ST*850*1506~
BEG*00*SA*0000001**20041019~
N1*ST*SUMITOMO ELECTRIC WIRING SYSTEMS*92*942257585~
N3*12110 ESTHER LAMA~
N4*EL PASO*TX*79936~
PO1**9000*EA*0.04025*PE*BP*14002481***VP*1326030-7~
PID*F****TER 1326030-7F~
SCH*208000*EA***002*20041108~
PO1**208000*EA*0.01384*PE*BP*18002493***VP*173630-1~
PID*F****MT070-F-S~
SCH*48000*EA***002*20041108~
PO1**48000*EA*0.01384*PE*BP*18002494***VP*173631-1~
PID*F****MT070-F-M~
SCH*60000*EA***002*20041108~
PO1**60000*EA*0.01295*PE*BP*18002559***VP*173681-1~
PID*F****173681-1~
SCH*3000*EA***002*20041108~
PO1**3000*EA*0.42857*PE*BP*19002463***VP*1318682-6~
PID*F****AMP040-31FD-GR~
SCH*48000*EA***002*20041108~
PO1**48000*EA*0.00848*PE*BP*82404140***VP*63648-1~
PID*F****HSG 250F~
CTT*6*376000~
SE*25*1506~