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850 Purchase Order

Functional Group=PO

Purpose: 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</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BEG	Beginning Segment for Purchase Order	M	1			Must use
050	REF	Reference Identification	O	>1			Must use
080	FOB	F.O.B. Related Instructions	O	>1			Must use
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Must use
150	DTM	Date/Time Reference	O	10			Must use
LOOP ID - N1					200		
310	N1	Name	O	1			Must use
330	N3	Address Information	O	2			Must use
340	N4	Geographic Location	O	>1			Must use
360	PER	Administrative Communications Contact	O	>1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - PO1					100000	N2/010L	
010	PO1	Baseline Item Data	M	1		N2/010	Must use
030	PO3	Additional Item Detail	O	25			Used
LOOP ID - PID					1000		
050	PID	Product/Item Description	O	1			Must use
090	PO4	Item Physical Details	O	>1			Must use
LOOP ID - SAC					25		
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - CTT					1	N3/010L	
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	AMT	Monetary Amount	O	1		N3/020	Must use
030	SE	Transaction Set Trailer	M	1			Must use

Notes:

2/010L PO102 is required.

- 2/010 PO102 is required.
- 3/010L 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.
- 3/010 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.
- 3/020 If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

Code Name

850 Purchase Order

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BEG Beginning Segment for Purchase Order

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BEG01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
Description: Code identifying purpose of transaction set						
CodeList Summary (Total Codes: 65, Included: 1)						
<u>Code</u> <u>Name</u>						
00 Original						
BEG02	92	Purchase Order Type Code	M	ID	2/2	Must use
Description: Code specifying the type of Purchase Order						
CodeList Summary (Total Codes: 69, Included: 1)						
<u>Code</u> <u>Name</u>						
SA Stand-alone Order						
BEG03	324	Purchase Order Number	M	AN	1/22	Must use
Description: Identifying number for Purchase Order assigned by the orderer/purchaser						
BEG05	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
BEG06	367	Contract Number	O	AN	1/30	Must use
Description: Contract number						

Semantics:

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

REF Reference Identification

Pos: 050	Max: >1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code Name

ZZ Mutually Defined

REF03	352	Description	X	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

FOB F.O.B. Related Instructions

Pos: 080	Max: >1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify transportation instructions relating to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use

Description: Code identifying payment terms for transportation charges

CodeList Summary (Total Codes: 28, Included: 3)

Code Name

CC	Collect
PP	Prepaid (by Seller)
PU	Pickup

FOB02	309	Location Qualifier	X	ID	1/2	Must use
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Description: Code identifying type of location

CodeList Summary (Total Codes: 172, Included: 2)

Code Name

DE	Destination (Shipping)
OR	Origin (Shipping Point)

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

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.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ITD02	333	Terms Basis Date Code	O	ID	1/2	Must use				
Description: Code identifying the beginning of the terms period										
CodeList Summary (Total Codes: 17, Included: 1)										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>3</td><td>Invoice Date</td></tr></table>							<u>Code</u>	<u>Name</u>	3	Invoice Date
<u>Code</u>	<u>Name</u>									
3	Invoice Date									
ITD03	338	Terms Discount Percent	O	R	1/6	Must use				
Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date										
ITD05	351	Terms Discount Days Due	X	N0	1/3	Must use				
Description: Number of days in the terms discount period by which payment is due if terms discount is earned										
ITD07	386	Terms Net Days	O	N0	1/3	Must use				
Description: Number of days until total invoice amount is due (discount not applicable)										

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

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.

DTM Date/Time Reference

Pos: 150	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

CodeList Summary (Total Codes: 1112, Included: 2)

Code Name

002 Delivery Requested

010 Requested Ship

DTM02	373	Date	X	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Loop Name

Pos: 310	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
310	N1	Name	O	1		Must use
330	N3	Address Information	O	2		Must use
340	N4	Geographic Location	O	>1		Must use
360	PER	Administrative Communications Contact	O	>1		Used

N1 Name

Pos: 310	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Description: Code identifying an organizational entity, a physical location, property or an individual						
CodeList Summary (Total Codes: 1312, Included: 2)						
<u>Code</u> <u>Name</u>						
BT Bill-to-Party						
ST Ship To						
N102	93	Name	X	AN	1/60	Must use
Description: Free-form name						
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
Description: Code designating the system/method of code structure used for Identification Code (67)						
CodeList Summary (Total Codes: 215, Included: 1)						
<u>Code</u> <u>Name</u>						
92 Assigned by Buyer or Buyer's Agent						
N104	67	Identification Code	X	AN	2/80	Must use
Description: Code identifying a party or other code						

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - 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.

N3 Address Information

Pos: 330	Max: 2
Heading - Optional	
Loop: N1	Elements: 1

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use

Description: Address information

N4 Geographic Location

Pos: 340	Max: >1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				

Syntax Rules:

1. C0605 - If N406 is present, then N405 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.

PER Administrative Communications Contact

Pos: 360	Max: >1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
Description: Code identifying the major duty or responsibility of the person or group named						
CodeList Summary (Total Codes: 230, Included: 1)						
<u>Code</u> <u>Name</u> BD Buyer Name or Department						
PER02	93	Name	O	AN	1/60	Must use
Description: Free-form name						
PER03	365	Communication Number Qualifier	X	ID	2/2	Must use
Description: Code identifying the type of communication number						
CodeList Summary (Total Codes: 40, Included: 1)						
<u>Code</u> <u>Name</u> TE Telephone						
PER04	364	Communication Number	X	AN	1/80	Must use
Description: Complete communications number including country or area code when applicable						

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Loop Baseline Item Data

Pos: 010	Repeat: 100000
Mandatory	
Loop: PO1 Elements: N/A	

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Reg</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	PO1	Baseline Item Data	M	1		Must use
030	PO3	Additional Item Detail	O	25		Used
050		Loop PID	O		1000	Must use
090	PO4	Item Physical Details	O	>1		Must use
130		Loop SAC	O		25	Used

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 13

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO102	330	Quantity Ordered	X	R	1/15	Must use
		Description: Quantity ordered				
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 5)				
		<u>Code</u> <u>Name</u>				
		CA Case				
		DZ Dozen				
		EA Each				
		GR Gram				
		LB Pound				
PO104	212	Unit Price	X	R	1/17	Must use
		Description: Price per unit of product, service, commodity, etc.				
PO106	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 2)				
		<u>Code</u> <u>Name</u>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
PO107	234	Product/Service ID	X	AN	1/48	Must use
		Description: Identifying number for a product or service				
PO108	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1)				
		<u>Code</u> <u>Name</u>				
		PI Purchaser's Item Code				
PO109	234	Product/Service ID	X	AN	1/48	Must use
		Description: Identifying number for a product or service				
PO110	235	Product/Service ID Qualifier	X	ID	2/2	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 2) <u>Code</u> <u>Name</u> UA U.P.C./EAN Case Code (2-5-5) UI U.P.C. Consumer Package Code (1-5-5)						
PO111	234	Product/Service ID	X	AN	1/48	Must use
Description: Identifying number for a product or service						
PO112	235	Product/Service ID Qualifier	X	ID	2/2	Must use
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 2) <u>Code</u> <u>Name</u> UA U.P.C./EAN Case Code (2-5-5) UI U.P.C. Consumer Package Code (1-5-5)						
PO113	234	Product/Service ID	X	AN	1/48	Must use
Description: Identifying number for a product or service						
PO114	235	Product/Service ID Qualifier	X	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 1) <u>Code</u> <u>Name</u> UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)						
PO115	234	Product/Service ID	X	AN	1/48	Used
Description: Identifying number for a product or service						

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.
9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - 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.
4. if PO1/10 is UI then PO1/12 will be UA and If PO1/10 is UA then PO1/12 will be UI.

PO3 Additional Item Detail

Pos: 030	Max: 25
Detail - Optional	
Loop: PO1	Elements: 6

User Option (Usage): Used

Purpose: To specify additional item-related data involving variations in normal price/quantity structure

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO301	371	Change Reason Code	M	ID	2/2	Must use
Description: Code specifying the reason for price or quantity change						
CodeList Summary (Total Codes: 30, Included: 1)						
Code Name						
AQ Alternate Quantity and Unit of Measure						
PO303	236	Price Identifier Code	X	ID	3/3	Used
Description: Code identifying pricing specification						
CodeList Summary (Total Codes: 164, Included: 1)						
Code Name						
ALT Alternate Price						
PO304	212	Unit Price	O	R	1/17	Used
Description: Price per unit of product, service, commodity, etc.						
PO306	380	Quantity	M	R	1/15	Must use
Description: Numeric value of quantity						
PO307	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
PO308	352	Description	O	AN	1/80	Used
Description: A free-form description to clarify the related data elements and their content						

Syntax Rules:

1. L040305 - If PO304 is present, then at least one of PO303 or PO305 is required.

Comments:

1. Some examples of price/quantity variations are: price in different units from the PO1 segment, price changes by date, or price changes by quantity (break and level).
2. PO307 defines the unit of measure for PO306.

Loop Product/Item Description

Pos: 050	Repeat: 1000
Optional	
Loop: PID	Elements: N/A

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
050	PID	Product/Item Description	O	1		Must use

PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

Code Name

F Free-form

PID05	352	Description	X	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

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.

PO4 Item Physical Details

Pos: 090	Max: >1
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Must use

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	N0	1/6	Must use
Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container						
PO414	810	Inner Pack	O	N0	1/6	Used
Description: The number of eaches per inner container						

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. 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.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 130 Repeat: 25
Optional
Loop: SAC Elements: N/A

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130 Max: 1
Detail - Optional
Loop: SAC Elements: 11

User Option (Usage): Must use

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

CodeList Summary (Total Codes: 7, Included: 1)

Code Name

A Allowance

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
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Description: Code identifying the service, promotion, allowance, or charge

CodeList Summary (Total Codes: 1053, Included: 1)

Code Name

F800 Promotional Allowance

SAC03	559	Agency Qualifier Code	X	ID	2/2	Must use
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Description: Code identifying the agency assigning the code values

CodeList Summary (Total Codes: 176, Included: 1)

Code Name

13 Arkansas

SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN	1/10	Must use
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Description: Agency maintained code identifying the service, promotion, allowance, or charge

SAC05	610	Amount	O	N2	1/15	Must use
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Description: Monetary amount

SAC08	118	Rate	O	R	1/9	Must use
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Description: Rate expressed in the standard monetary denomination for the currency specified

SAC09	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 5)

		<u>Code</u>	<u>Name</u>				
		CA	Case				
		DZ	Dozen				
		EA	Each				
		GS	Gross				
		LB	Pound				
SAC10	380	Quantity		X	R	1/15	Must use
Description: Numeric value of quantity							
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Must use
Description: Code indicating method of handling for an allowance or charge							
CodeList Summary (Total Codes: 22, Included: 1)							
		<u>Code</u>	<u>Name</u>				
		02	Off Invoice				
SAC13	127	Reference Identification		X	AN	1/30	Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier							
SAC15	352	Description		X	AN	1/80	Must use
Description: A free-form description to clarify the related data elements and their content							

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in 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.

Loop Transaction Totals

Pos: 010	Repeat: 1
Optional	
Loop: CTT	Elements: N/A

User Option (Usage): Must use

Purpose: To transmit a hash total for a specific element in the transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		Must use
020	AMT	Monetary Amount	O	1		Must use

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 5

User Option (Usage): Must use

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT03	81	Weight	X	R	1/10	Must use
		Description: Numeric value of weight				
CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		LB	Pound			
CTT05	183	Volume	X	R	1/8	Must use
		Description: Value of volumetric measure				
CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		CF	Cubic Feet			

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - 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.

AMT Monetary Amount

Pos: 020	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the total monetary amount

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
AMT01	522	Amount Qualifier Code	M	ID	1/3	Must use
Description: Code to qualify amount						
CodeList Summary (Total Codes: 1473, Included: 1)						
<u>Code</u> <u>Name</u>						
TT Total Transaction Amount						
AMT02	782	Monetary Amount	M	R	1/18	Must use
Description: Monetary amount						

SE Transaction Set Trailer

Pos: 030	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
Description: Total number of segments included in a transaction set including ST and SE segments						
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Comments:

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