

850 Purchase Order - Inbound to iTN

X12/V4010/850: 850 Purchase Order/Replacement

Version: 1.4 Draft

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Publication:	
Modified:	04/16/2007
Notes:	This draft includes the extensions for handling order revisions, price bracket information and PO replacements.

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			Mandatory
020	BEG	Beginning Segment for Purchase Order	M	1			Mandatory
050	REF	Reference Identification	M	4			Mandatory
080	FOB	F.O.B. Related Instructions	O	1			Recommended
LOOP ID - SAC					5		
120	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended
150	DTM	Date/Time Reference	O	3			Recommended
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Recommended
LOOP ID - N9					1		
295	N9	Reference Identification	O	1			Recommended
300	MSG	Message Text	O	30			Recommended
LOOP ID - N1					8		
310	N1	Name	O	1			Recommended
330	N3	Address Information	O	1			Recommended
340	N4	Geographic Location	C	1			Recommended
360	PER	Administrative Communications Contact	O	1			Recommended

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		
010	PO1	Baseline Item Data	M	1		N2/010	Mandatory
049	MEA	Measurements	O	40			Recommended
LOOP ID - PID					1		
050	PID	Product/Item Description	O	1			Recommended
100	REF	Reference Identification	O	2			Recommended
LOOP ID - SAC					5		
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended
LOOP ID - N9					1		
330	N9	Reference Identification	O	1			Recommended
340	MSG	Message Text	O	30			Recommended

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		
010	CTT	Transaction Totals	M	1		N3/010	Mandatory
030	SE	Transaction Set Trailer	M	1			Mandatory

Notes:

2/010 PO102 is required.

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.

ST Transaction Set Header

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

User Option (Usage): Mandatory

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	Mandatory
		Description: Code uniquely identifying a Transaction Set				
		User Note 1: <i>The Transaction Set Identifier Code (ST-01) is "850" [Purchase Order]</i>				
		All valid standard codes are used.				
ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory
		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: 4

User Option (Usage): Mandatory

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	Mandatory

Description: Code identifying purpose of transaction set

Code Name

00 Original

01 Cancellation

User Note 1:

Code '01' indicates that the order has been cancelled.

05 Replace

User Note 1:

Based upon setup agreement, iTradeNetwork may support multiple PO transmissions. PO replacements need to be agreed upon and pre-configured. PO transmissions after the original PO transmission are considered replacements.

BEG02	92	Purchase Order Type Code	M	ID	2/2	Mandatory
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Description: Code specifying the type of Purchase Order

Code Name

CP Change to Purchase Order

DS Dropship

IN Information Copy

NE New Order

BEG03	324	Purchase Order Number	M	AN	1/22	Mandatory
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Description: Identifying number for Purchase Order assigned by the orderer/purchaser

BEG05	373	Date	M	DT	8/8	Mandatory
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Description: Date expressed as CCYYMMDD

User Note 1: *Date assigned by purchaser to purchase order.*

Semantics:

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

REF Reference Identification

Pos: 050	Max: 4
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Mandatory

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	Mandatory

Description: Code qualifying the Reference Identification

Code Name

CR Customer Reference Number

User Note 1:

Customer Reference Number is an additional Order Control Number that is assigned at the Buyer's Corporate level.

FI File Identifier

User Note 1:

File Identifier is an additional Order Control number that is assigned for a specific product category by the Buyer.

IL Internal Order Number

User Note 1:

This number is used to track all related documents within the iTN Application and is recommended.

L7 Customer's Release Number

OP Original Purchase Order

User Note 1:

Original customer order number.

PL Price List Number

User Note 1:

Price Bracket ID.

VR Vendor ID Number

User Note 1:

Proprietary Vendor ID number

YB Revision Number

User Note 1:

*OPTIONAL: The vendor's order revision number. Following confirmation receipt, this should match the REF*YB received on latest confirmation.*

YD Buyer Identification

User Note 1:

This proprietary ID is used to assign a member as the buyer for a PO.

ZI Reference Version Number

User Note 1:

MANDATORY: The buyer's order revision number. This numeric revision number will increment for each new transaction for an order. It need not be contiguous from transaction to transaction, but will monotonically increase.

REF02	127	Reference Identification	X	AN	1/30	Recommended
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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User Note 1: *Used when REF02 = 'YD' to include the buyer name.*

Syntax Rules:

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

Semantics:

- 1.

FOB F.O.B. Related Instructions

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

User Option (Usage): Recommended

Purpose: To specify transportation instructions relating to shipment

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>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Mandatory

Description: Code identifying payment terms for transportation charges

Code Name

BP	Paid by Buyer
CC	Collect
PB	Customer Pick-up/Backhaul
PC	Prepaid but Charged to Customer
PE	Prepaid and Summary Bill
PP	Prepaid (by Seller)
PU	Pickup
TP	Third Party Pay

Semantics:

1. FOB01 indicates which party will pay the carrier.

SAC Service, Promotion, Allowance, or Charge Information

Pos: 120	Max: 1
Heading - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Recommended

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

User Note 1:

For Free Goods, SAC-03 and SAC-04 not used. For Promotion, SAC-03 and SAC-04 are transmitted.

User Note 2:

Only allowances and charges are supported. Informational only SAC are not allowed.

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	Mandatory
		Description: Code which indicates an allowance or charge for the service specified				
		Code Name				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Recommended
		Description: Code identifying the service, promotion, allowance, or charge				
		User Note 1: <i>Accepted codes are dependant upon the trading relationship. Please confirm code acceptance with trading partner.</i>				
		All valid standard codes are used.				
SAC03	559	Agency Qualifier Code	X	ID	2/2	Recommended
		Description: Code identifying the agency assigning the code values				
		All valid standard codes are used.				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN	1/10	Recommended
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	Amount	O	N2	1/15	Recommended
		Description: Monetary amount				
SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Recommended
		Description: Code indicating on what basis allowance or charge percent is calculated				
		All valid standard codes are used.				
SAC07	332	Percent	X	R	1/6	Recommended
		Description: Percent expressed as a percent				
SAC08	118	Rate	O	R	1/9	Recommended
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	Unit or Basis for Measurement Code	X	ID	2/2	Recommended
		Description: Code specifying the units in which a				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		CA Case				
		DO Dollars, U.S.				
		EA Each				
		LB Pound				
SAC10	380	Quantity	X	R	1/15	Recommended
		Description: Numeric value of quantity				
SAC11	380	Quantity	O	R	1/15	Recommended
		Description: Numeric value of quantity				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Recommended
		Description: Code indicating method of handling for an allowance or charge				
		Code Name				
		01 Bill Back				
		02 Off Invoice				
		06 Charge to be Paid by Customer				
SAC13	127	Reference Identification	X	AN	1/30	Recommended
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
SAC14	770	Option Number	O	AN	1/20	Recommended
		Description: A unique number identifying available promotion or allowance options when more than one is offered				
SAC15	352	Description	X	AN	1/80	Recommended
		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.

DTM Date/Time Reference

Pos: 150	Max: 3
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Recommended

Purpose: To specify pertinent dates and times

User Note 1:

If only one date is provided, the date pair may be calculated in iTN.

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	Mandatory
Description: Code specifying type of date or time, or both date and time						
Code Name						
	002	Delivery Requested				
User Note 1:						
<i>Use for delivered shipments.</i>						
	010	Requested Ship				
	118	Requested Pick-up				
User Note 1:						
<i>Use for FOB shipments.</i>						
DTM02	373	Date	X	DT	8/8	Recommended
Description: Date expressed as CCYYMMDD						

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Recommended

Purpose: To specify the carrier and sequence of routing and provide transit time 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>
TD504	91	Transportation Method/Type Code	X	ID	1/2	Mandatory

Description: Code specifying the method or type of transportation for the shipment

Code Name

H	Customer Pickup
M	Motor (Common Carrier)

N9 Reference Identification

Pos: 295	Max: 1
Heading - Optional	
Loop: N9	Elements: 2

User Option (Usage): Recommended

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Mandatory
Description: Code qualifying the Reference Identification						
Code Name						
L1 Letters or Notes						
User Note 1:						
<i>Pass order notes from the buying organization to the vendor in the N9 and MSG segments.</i>						
N902	127	Reference Identification	X	AN	1/30	Recommended
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
User Note 1: <i>Send "GEN" in N902 to indicate that the MSG Segment contains General Notes.</i>						

MSG Message Text

Pos: 300	Max: 30
Heading - Optional	
Loop: N9	Elements: 1

User Option (Usage): Recommended

Purpose: To provide a free-form format that allows the transmission of text information

User Note 1:

See Usage Notes in N9 segment for information regarding the usage of the MSG segment.

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>
MSG01	933	Free-Form Message Text	M	AN	1/264	Mandatory

Description: Free-form message text

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

- 1.

Comments:

- 1.

N1 Name

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

User Option (Usage): Recommended

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

User Note 1:

*N1*PW and N1*SF are used interchangeably in iTN.*

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	Mandatory
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		Code Name				
		BO Broker or Sales Office				
		BT Bill-to-Party				
		User Note 1:				
		<i>Mandatory</i>				
		BY Buying Party (Purchaser)				
		User Note 1:				
		<i>Mandatory</i>				
		CA Carrier				
		PW Pick Up Address				
		SF Ship From				
		ST Ship To				
		User Note 1:				
		<i>Mandatory</i>				
		VN Vendor				
		User Note 1:				
		<i>Mandatory</i>				
N102	93	Name	X	AN	1/60	Recommended
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Recommended
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		1 D-U-N-S Number, Dun & Bradstreet				
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
		54 Warehouse				
		91 Assigned by Seller or Seller's Agent				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	X	AN	2/80	Recommended
		Description: Code identifying a party or other code				
		User Note 1: <i>Configurable proprietary ID or corporate DUNS number may be transmitted.</i>				

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.

N3 Address Information

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

User Option (Usage): Recommended

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	Mandatory
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Recommended
		Description: Address information				

N4 Geographic Location

Pos: 340	Max: 1
Heading - Conditional	
Loop: N1	Elements: 4

User Option (Usage): Recommended

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	Recommended
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Recommended
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Recommended
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Recommended
		Description: Code identifying the country				

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): Recommended

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

User Note 1:

This segment is used in N1 Loop for a specific purpose declared in N1-01 element.

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	Mandatory
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code Name				
		CN General Contact				
		RE Receiving Contact				
PER02	93	Name	O	AN	1/60	Recommended
		Description: Free-form name				
PER03	365	Communication Number Qualifier	X	ID	2/2	Dependent
		Description: Code identifying the type of communication number				
		Code Name				
		TE Telephone				
PER04	364	Communication Number	X	AN	1/80	Recommended
		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.

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 11

User Option (Usage): Mandatory

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

User Note 1:

Either buyer's product code or UPC code required.

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>
PO101	350	Assigned Identification	O	R	1/9	Mandatory
		Description: Alphanumeric characters assigned for differentiation within a transaction set User Note 1: <i>This line identifier is persisted throughout the life of the order, and should be consistent for all transmissions.</i>				
PO102	330	Quantity Ordered	X	R	1/15	Recommended
		Description: Quantity ordered User Note 1: <i>'0' quantity will cancel the line item from the order.</i>				
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Recommended
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name BG Bag BX Box CA Case CN Can CS Cassette DR Drum EA Each GA Gallon LB Pound OZ Ounce - Av PA Pail PC Piece PK Package TE Tote UN Unit				
PO104	212	Unit Price	X	R	1/17	Recommended
		Description: Price per unit of product, service, commodity, etc.				
PO105	639	Basis of Unit Price Code	O	ID	2/2	Dependent
		Description: Code identifying the type of unit price for an item User Note 1: <i>If unit price is specified in PO104, then PO105 is mandatory.</i> Code Name PE Price per Each				

		<u>Code</u>	<u>Name</u>				
		PK	Price per Kilogram				
		PP	Price per Pound				
PO106	235	Product/Service ID Qualifier		X	ID	2/2	Recommended
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		UA	U.P.C./EAN Case Code (2-5-5)				
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
PO107	234	Product/Service ID		X	AN	1/48	Recommended
Description: Identifying number for a product or service							
PO108	235	Product/Service ID Qualifier		X	ID	2/2	Mandatory
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		MG	Manufacturer's Part Number				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
PO109	234	Product/Service ID		X	AN	1/48	Mandatory
Description: Identifying number for a product or service							
PO110	235	Product/Service ID Qualifier		X	ID	2/2	Mandatory
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		PI	Purchaser's Item Code				
PO111	234	Product/Service ID		X	AN	1/48	Mandatory
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.

MEA Measurements

Pos: 049	Max: 40
Detail - Optional	
Loop: PO1	Elements: 3

User Option (Usage): Recommended

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

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>
MEA02	738	Measurement Qualifier	O	ID	1/3	Mandatory
		Description: Code identifying a specific product or process characteristic to which a measurement applies				
		Code Name				
		G		Gross Weight		
		T		Tare Weight		
		WT		Weight		
MEA03	739	Measurement Value	X	R	1/20	Mandatory
		Description: The value of the measurement				
MEA04	C001	Composite Unit of Measure	X	Comp		Used
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
	355	Unit or Basis for Measurement Code	M	ID	2/2	Mandatory
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		KG		Kilogram		
		LB		Pound		

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.

Semantics:

1. MEA04 defines the unit of measure for MEA03.

PID Product/Item Description

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

User Option (Usage): Recommended

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

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>
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		Description: Code indicating the format of a description				
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	X	AN	1/80	Mandatory
		Description: A free-form description to clarify the related data elements and their content				

Semantics:

- 1.

Comments:

1. If PID01 equals "F", then PID05 is used.

REF Reference Identification

Pos: 100	Max: 2
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Recommended

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	Mandatory

Description: Code qualifying the Reference Identification

Code Name

BD Bid Number

User Note 1:

If REF01 is "BD", then REF02 will be the Bid Number.

WM Weight Agreement Number

User Note 1:

If REF01 is "WM", then REF02 will be the Price Bracket.

REF02	127	Reference Identification	M	AN	1/30	Mandatory
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Semantics:

- 1.

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130	Max: 1
Detail - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Recommended

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

User Note 1:

For Free Goods, do not transmit SAC-03 and SAC-04. For Promotion, SAC-03 and SAC-04 must be transmitted.

User Note 2:

Only allowances and charges are supported. Informational only SAC are not allowed.

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	Mandatory
		Description: Code which indicates an allowance or charge for the service specified				
		Code Name				
		A	Allowance			
		C	Charge			
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Mandatory
		Description: Code identifying the service, promotion, allowance, or charge				
		User Note 1: <i>Accepted codes are dependant upon the trading relationship. Please confirm code acceptance with trading partner.</i>				
		All valid standard codes are used.				
SAC03	559	Agency Qualifier Code	O	ID	2/2	Recommended
		Description: Code identifying the agency assigning the code values				
		Code Name				
		AB	Assigned by Buyer			
		AS	Assigned by Seller			
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	O	AN	1/10	Recommended
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	Amount	O	N2	1/15	Recommended
		Description: Monetary amount				
SAC06	378	Allowance/Charge Percent Qualifier	C	ID	1/1	Recommended
		Description: Code indicating on what basis allowance or charge percent is calculated				
		Code Name				
		1	Item List Cost			
		2	Item Net Cost			
		3	Discount/Gross			
		4	Discount/Net			
		5	Base Price per Unit			
		6	Base Price Amount			

Code Name

7 Base Price Amount Less Previous Discount

SAC07 332 **Percent** X R 1/6 Used**Description:** Percent expressed as a percentSAC08 118 **Rate** O R 1/9 Used**Description:** Rate expressed in the standard monetary denomination for the currency specifiedSAC09 355 **Unit or Basis for Measurement Code** X ID 2/2 Used**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken**Code Name**

CA Case

DO Dollars, U.S.

EA Each

LB Pound

SAC10 380 **Quantity** O R 1/15 Used**Description:** Numeric value of quantitySAC11 380 **Quantity** O R 1/15 Recommended**Description:** Numeric value of quantitySAC12 331 **Allowance or Charge Method of Handling Code** O ID 2/2 Recommended**Description:** Code indicating method of handling for an allowance or charge**Code Name**

01 Bill Back

02 Off Invoice

06 Charge to be Paid by Customer

SAC13 127 **Reference Identification** X AN 1/30 Recommended**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification QualifierSAC14 770 **Option Number** O AN 1/20 Recommended**Description:** A unique number identifying available promotion or allowance options when more than one is offeredSAC15 352 **Description** X AN 1/80 Recommended**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.

N9 Reference Identification

Pos: 330	Max: 1
Detail - Optional	
Loop: N9	Elements: 2

User Option (Usage): Recommended

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Mandatory
		Description: Code qualifying the Reference Identification				
		Code Name				
		L1		Letters or Notes		
N902	127	Reference Identification	X	AN	1/30	Recommended
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
		User Note 1: <i>The Reference Identification (N9-02) must be included and must not be empty.</i>				

Semantics:

1.

MSG Message Text

Pos: 340	Max: 30
Detail - Optional	
Loop: N9	Elements: 1

User Option (Usage): Recommended

Purpose: To provide a free-form format that allows the transmission of text 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>
MSG01	933	Free-Form Message Text	M	AN	1/264	Mandatory

Description: Free-form message text

Comments:

- 1.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Mandatory	
Loop: CTT	Elements: 6

User Option (Usage): Mandatory

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	Mandatory
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	O	R	1/10	Mandatory
		Description: 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.				
CTT03	81	Weight	X	R	1/10	Recommended
		Description: Numeric value of weight				
CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Recommended
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		GA Gallon				
		LB Pound				
		OZ Ounce - Av				
CTT05	183	Volume	X	R	1/8	Recommended
		Description: Value of volumetric measure				
CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Recommended
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		CF Cubic Feet				
		CI Cubic Inches				
		CY Cubic Yard				

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.

SE Transaction Set Trailer

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

User Option (Usage): Mandatory

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	Mandatory
		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	Mandatory
		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.