

855 Purchase Order Acknowledgment

Status: Draft

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Functional Group=PR

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Acknowledgment Transaction Set (855) 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 a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

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			Required
020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Required
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	>1			Rec'd
110	CSH	Sales Requirements	O	1			Used
LOOP ID - SAC					25		
120	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
150	DTM	Date/Time Reference	O	10			Used
185	SI	Service Characteristic Identification	O	>1			Used
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
LOOP ID - N1					200		
300	N1	Name	O	1			Required
310	N2	Additional Name Information	O	2			Used
320	N3	Address Information	O	2			Used
330	N4	Geographic Location	O	1			Used
340	REF	Reference Identification	O	12			Used
350	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	O	1			Required
020	CUR	Currency	O	1			Not Rec'd
040	CTP	Pricing Information	O	>1			Used
LOOP ID - PID					1000		
050	PID	Product/Item Description	O	1			Used
090	PO4	Item Physical Details	O	>1			Used
100	REF	Reference Identification	O	>1			Used
LOOP ID - SAC					25		
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ACK					104		
270	ACK	Line Item Acknowledgment	O	1			Required
280	DTM	Date/Time Reference	O	1			Used
LOOP ID - SCH					200	N2/310L	
310	SCH	Line Item Schedule	O	1			Used

Pos Id Segment Name Req Max Use Repeat Notes Usage

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						N3/010L	
010	CTT	Transaction Totals	O	1	1	N3/010	Required
030	SE	Transaction Set Trailer	M	1			Required

Notes:

- 2/010L PO102 is required.
- 2/010 PO102 is required.
- 2/310L 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.
- 2/310 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.
- 3/010L 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.

ST Transaction Set Header

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

User Option (Usage): Required

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 Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Required
		Code Name 855 Purchase Order Acknowledgment				
ST02	329	Transaction Set Control Number Description: 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	Required

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).

BAK Beginning Segment for Purchase Order Acknowledgment

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Required

To indicate the beginning of the Purchase Order Acknowledgment 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>
BAK01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set Code Name 00 Original 11 Response SU Status Update	M	ID	2/2	Required
BAK02	587	Acknowledgment Type Description: Code specifying the type of acknowledgment Code Name AC Acknowledge - With Detail and Change AE Acknowledge - With Exception Detail Only AK Acknowledge - No Detail or Change	M	ID	2/2	Required
BAK03	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Required
BAK04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Required
BAK05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
BAK06	326	Request Reference Number Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)	O	AN	1/45	Used
BAK07	367	Contract Number Description: Contract number	O	AN	1/30	Used
BAK09	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Required

Semantics:

1. BAK04 is the date assigned by the purchaser to purchase order.
2. BAK08 is the seller's order number.
3. BAK09 is the date assigned by the sender to the acknowledgment.

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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>
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Required
		Code Name BY Buying Party (Purchaser) SE Selling Party				
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

REF Reference Identification

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

User Option (Usage): Rec'd

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 Description: Code qualifying the Reference Identification	M	ID	2/3	Required
		Code Name				
		AE Authorization for Expense (AFE) Number				
		CT Contract Number				
		FU Fund Code Description: Defense Fuel Supply Center to bill back fuel purchases to the appropriate service or agency account fund				
		IT Internal Customer Number				
		MR Merchandise Type Code				
		PD Promotion/Deal Number				
		PR Price Quote Number				
		SB Sales Region Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Rec'd

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.

CSH Sales Requirements

Pos: 110	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify general conditions or requirements of the 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>
CSH01	563	Sales Requirement Code Description: Code to identify a specific requirement or agreement of sale	O	ID	1/2	Used
		Code Name				
		B Back Order Only If New Item				
		C Consignment				
		N No Back Order				
		O Back Order If Items Are Out of Stock or Not Yet Published				
		Y Back Order if Out of Stock				
		BK Ship Partial - Balance Back Order				
		SC Ship Complete				
		SP Ship Partial, Balance Cancel				
		SS Ship Per Schedule				
		SW Ship Per Release or Buyer Authorization				
CSH06	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	X	ID	2/2	Used
		Code Name				
		BI Book Industry Systems Advisory Committee				

Syntax Rules:

1. C0203 - If CSH02 is present, then CSH03 is required.
2. P0607 - If either CSH06 or CSH07 is present, then the other is required.
3. P0910 - If either CSH09 or CSH10 is present, then the other is required.

Semantics:

1. CSH03 is the maximum monetary amount value which the order must not exceed.
2. CSH04 is the account number to which the purchase amount is charged.
3. CSH05 is the date specified by the sender to be shown on the invoice.
4. CSH06 identifies the source of the code value in CSH07.

Loop SAC

Pos: 120	Repeat: 25
Optional	
Loop: SAC Elements: N/A	

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>
120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 120	Max: 1
Heading - Optional	
Loop: SAC	Elements: 6

User Option (Usage): Used

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 Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge P Promotion	M	ID	1/1	Required
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name A990 Cataloging Services B210 Co-op Credit E170 Labeling F800 Promotional Allowance	X	ID	4/4	Used
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each UN Unit	X	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used

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.

DTM Date/Time Reference

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

User Option (Usage): Used

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 Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Required
		Code Name				
		002 Delivery Requested				
		010 Requested Ship				
		014 Deferred Payment				
		037 Ship Not Before				
		038 Ship No Later				
		077 Requested for Delivery (Week of)				
		087 Requested for Shipment (Week of)				
		168 Release				
		175 Cancel if not shipped by				
		181 Stop Work (as of)				
		182 Will Advise (as of)				
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Required

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.

SI Service Characteristic Identification

Pos: 185	Max: >1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify service characteristic 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>
SI01	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values <u>Code Name</u> BI Book Industry Systems Advisory Committee	M	ID	2/2	Required
SI02	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics <u>Code Name</u> CR Carton Rounding Description: Rounding should be done according to trading partner agreement. EX Exact	M	AN	2/2	Required
SI03	234	Product/Service ID Description: Identifying number for a product or service <u>Code Name</u> BI Book Industry Systems Advisory Committee	M	AN	1/48	Required

Syntax Rules:

1. P0405 - If either SI04 or SI05 is present, then the other is required.
2. P0607 - If either SI06 or SI07 is present, then the other is required.
3. P0809 - If either SI08 or SI09 is present, then the other is required.
4. P1011 - If either SI10 or SI11 is present, then the other is required.
5. P1213 - If either SI12 or SI13 is present, then the other is required.
6. P1415 - If either SI14 or SI15 is present, then the other is required.
7. P1617 - If either SI16 or SI17 is present, then the other is required.
8. P1819 - If either SI18 or SI19 is present, then the other is required.
9. P2021 - If either SI20 or SI21 is present, then the other is required.

Comments:

1. SI01 defines the source for each of the service characteristics qualifiers.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

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>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement	O	ID	1/2	Used
		Code Name B Origin/Delivery Carrier (Any Mode)				
TD505	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Used
TD512	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	X	ID	2/2	Used
		Code Name 3D Three Day Service G2 Standard Service ND Next Day Air Description: Delivery during business day hours of next business day NH Next Day Hundred Weight ON Overnight SE Second Day SG Standard Ground SH Second Day Hundred Weight SI Standard Ground Hundred Weight				

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Loop N1

Pos: 300	Repeat: 200
Optional	
Loop: N1	Elements: N/A

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>
300	N1	Name	O	1		Required
310	N2	Additional Name Information	O	2		Used
320	N3	Address Information	O	2		Used
330	N4	Geographic Location	O	1		Used
340	REF	Reference Identification	O	12		Used
350	PER	Administrative Communications Contact	O	>1		Used

N1 Name

Pos: 300	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Required

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 Description: Code identifying an organizational entity, a physical location, property or an individual Code Name BS Bill and Ship To BT Bill-to-Party SF Ship From ST Ship To VN Vendor	M	ID	2/3	Required
N102	93	Name Description: Free-form name	X	AN	1/60	Not Rec'd
N103	66	Identification Code Qualifier 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 12 Telephone Number (Phone) 15 Standard Address Number (SAN)	X	ID	1/2	Rec'd
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Rec'd

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.

N2 Additional Name Information

Pos: 310	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify additional names or those longer than 35 characters in length

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>
N201	93	Name Description: Free-form name	M	AN	1/60	Required
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3 Address Information

Pos: 320	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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 Description: Address information	M	AN	1/55	Required
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

Pos: 330	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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 Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

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.

REF Reference Identification

Pos: 340	Max: 12
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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 Description: Code qualifying the Reference Identification	M	ID	2/3	Required
		Code Name CO Customer Order Number DP Department Number IT Internal Customer Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

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.

PER Administrative Communications Contact

Pos: 350	Max: >1
Heading - Optional	
Loop: N1	Elements: 8

User Option (Usage): Used

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 Description: Code identifying the major duty or responsibility of the person or group named Code Name DC Delivery Contact OC Order Contact SU Supplier Contact	M	ID	2/2	Required
PER02	93	Name Description: Free-form name	O	AN	1/60	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Name BN Beeper Number CP Cellular Phone EM Electronic Mail EX Telephone Extension FX Facsimile TE Telephone	X	ID	2/2	Used
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	X	ID	2/2	Used
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	X	ID	2/2	Used
PER08	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used

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 PO1

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

To specify basic and most frequently used line item data

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	PO1	Baseline Item Data	O	1		Required
020	CUR	Currency	O	1		Not Rec'd
040	CTP	Pricing Information	O	>1		Used
050		Loop PID	O		1000	Used
090	PO4	Item Physical Details	O	>1		Used
100	REF	Reference Identification	O	>1		Used
130		Loop SAC	O		25	Used
270		Loop ACK	O		104	Required
310		Loop SCH	O		200	Used

User:

When the condition of a book needs to be specified the Grade Code qualifier is used. Normally items are supplied in accordance with standing order processing terms and conditions. When needed to further amplify or change these procedures or to specifically identify the line item for pricing, the Grade Code is used in the Product/Service ID Qualifier (DE235) as 'GC'. Acceptable values for DE234 are listed with the GC code value in DE 235.

PO1 Baseline Item Data

Pos: 010 Max: 1
 Detail - Optional
 Loop: PO1 Elements: 25

User Option (Usage): Required

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>
PO101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Rec'd
PO102	330	Quantity Ordered Description: Quantity ordered	X	R	1/15	Required
PO103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Required
		Code Name CA Case CT Carton EA Each ST Set UN Unit				
PO104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Used
PO105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item User: <i>Standard Book Industry definitions should be applied to this element.</i>	O	ID	2/2	Used
		Code Name CA Catalog CT Contract NC No Charge				
		User: <i>The book industry uses this code to specify free goods</i>				
		NT Net Description: Indicates a net unit price				
		PE Price per Each PR Promotion SR Suggested Retail				
PO106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		Code Name B1 Volume Set B2 Library of Congress Code B3 Edition Code B4 Binding Code B5 Title Code B6 Author Code B7 Publisher Code CB Buyer's Catalog Number				

		Code	Name				
		EN	European Article Number (EAN) (2-5-5-1)				
			User:				
			ISBN-13				
		GC	Grade Code				
		IA	Information Media Type				
		IB	International Standard Book Number (ISBN)				
		RY	Record Keeping or Model Year				
		SJ	Religious Retail Non-book Item				
		SK	Stock Keeping Unit (SKU)				
		SL	Seller's Lot Number				
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
			Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit				
			User:				
			UCC/EAN-14				
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
		VE	Vendor Color				
		VN	Vendor's (Seller's) Item Number				
PO107	234		Product/Service ID	X	AN	1/48	Used
			Description: Identifying number for a product or service				
PO108	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)				
			User: Refer to code list specified in 'PO106' for usage.				
PO109	234		Product/Service ID	X	AN	1/48	Used
			Description: Identifying number for a product or service				
PO110	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)				
			User: Refer to code list specified in 'PO106' for usage.				
PO111	234		Product/Service ID	X	AN	1/48	Used
			Description: Identifying number for a product or service				
PO112	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)				
			User: Refer to code list specified in 'PO106' for usage.				
PO113	234		Product/Service ID	X	AN	1/48	Used
			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)				
			User: Refer to code list specified in 'PO106' for usage.				
PO115	234		Product/Service ID	X	AN	1/48	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO116	235	Description: Identifying number for a product or service 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) User: Refer to code list specified in 'PO106' for usage.				
PO117	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO118	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) User: Refer to code list specified in 'PO106' for usage.				
PO119	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO120	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) User: Refer to code list specified in 'PO106' for usage.				
PO121	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO122	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) User: Refer to code list specified in 'PO106' for usage.				
PO123	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO124	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) User: Refer to code list specified in 'PO106' for usage.				
PO125	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.

User:

When the condition of a book needs to be specified the Grade Code qualifier is used. Normally items are supplied in accordance with standing order processing terms and conditions. When needed to further amplify or change these procedures or to specifically identify the line item for pricing, the Grade Code is used in the Product/Service ID Qualifier (DE235) as 'GC'. Acceptable values for DE234 are listed with the GC code value in DE 235.

CUR Currency

Pos: 020	Max: 1
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Not Rec'd

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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>
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Required
		Code Name BY Buying Party (Purchaser) SE Selling Party				
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

CTP Pricing Information

Pos: 040	Max: >1
Detail - Optional	
Loop: PO1	Elements: 6

User Option (Usage): Used

To specify pricing information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP02	236	Price Identifier Code Description: Code identifying pricing specification Code Name CAT Catalog Price NET Net Item Price PRP Promotional price SLP Suggested List Price	X	ID	3/3	Used
CTP03	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Used
CTP04	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
CTP05	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each UN Unit	M	ID	2/2	Required
CTP06	648	Price Multiplier Qualifier Description: Code indicating the type of price multiplier User: <i>The multiplier is used to compute the price after the discount is applied (e.g. A multiplier of '.8' reflects a 20% discount.)</i>	O	ID	3/3	Used
CTP07	649	Multiplier Description: Value to be used as a multiplier to obtain a new value User: <i>The value is a REAL number. The value is represented in decimal form. A discount of 20% would have a value in this element of .8</i>	X	R	1/10	Used

Syntax Rules:

1. P0405 - If either CTP04 or CTP05 is present, then the other is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 is required.
4. C1002 - If CTP10 is present, then CTP02 is required.
5. C1103 - If CTP11 is present, then CTP03 is required.

Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Loop PID

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

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		Used

User:

This segment is primarily used by the library community.

PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 5

User Option (Usage): Used

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 Description: Code indicating the format of a description Code Name F Free-form S Structured (From Industry Code List)	M	ID	1/1	Required
PID02	750	Product/Process Characteristic Code Description: Code identifying the general class of a product or process characteristic Code Name 08 Product	O	ID	2/3	Used
PID03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values Code Name BI Book Industry Systems Advisory Committee	X	ID	2/2	Used
PID04	751	Product Description Code Description: A code from an industry code list which provides specific data about a product characteristic Code Name A1 Author (1st 80 characters) B1 Volume Set B3 Edition code B4 Binding code (physical features) B5 Title code B7 Publisher code P1 Publisher (1st 80 characters) P2 Publisher (81-161 characters) A2 Author (81-160 characters) B6 Author code T1 Title (1st 80 characters) T2 Title (81-161 characters) T3 Title (161-240 characters)	X	AN	1/12	Used
PID05	352	Description Description: A free-form description to clarify the related data elements and their content User: This element provides the description for 'PID04'.	X	AN	1/80	Used

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.

User:

This segment is primarily used by the library community.

PO4 Item Physical Details

Pos: 090	Max: >1
Detail - Optional	
Loop: PO1	Elements: 13

User Option (Usage): Used

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 Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container User: <i>Carton quantity</i>	O	NO	1/6	Used
PO402	357	Size Description: Size of supplier units in pack	X	R	1/8	Used
PO403	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name CM Centimeter IN Inch KG Kilogram LB Pound OZ Ounce - Av	X	ID	2/2	Used
PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Code Name CTN25 Carton, corrugated or solid CTN71 Carton, not otherwise specified Description: Other data element values as mutually agreed upon by trading partners. ENV71 Envelope, Not otherwise specified	X	AN	3/5	Used
PO405	187	Weight Qualifier Description: Code defining the type of weight Code Name G Gross Weight	O	ID	1/2	Used
PO406	384	Gross Weight per Pack Description: Numeric value of gross weight per pack	X	R	1/9	Used
PO407	355	Unit or Basis for Measurement Code 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	X	ID	2/2	Used
PO408	385	Gross Volume per Pack Description: Numeric value of gross volume per pack	X	R	1/9	Used
PO409	355	Unit or Basis for Measurement Code Description: Code specifying the units in	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u> <u>Name</u>				
		KG Kilogram				
		LB Pound				
		UN Unit				
PO410	82	Length	X	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	X	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	X	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position				
PO413	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				
		<u>Code</u> <u>Name</u>				
		CM Centimeter				
		IN Inch				

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.

REF Reference Identification

Pos: 100	Max: >1
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Used

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 Description: Code qualifying the Reference Identification	M	ID	2/3	Required
		Code Name AE Authorization for Expense (AFE) Number CR Customer Reference Number FU Fund Code Description: Defense Fuel Supply Center to bill back fuel purchases to the appropriate service or agency account fund MR Merchandise Type Code PD Promotion/Deal Number SB Sales Region Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

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.

Loop SAC

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

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		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130	Max: 1
Detail - Optional	
Loop: SAC	Elements: 6

User Option (Usage): Used

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 Description: Code which indicates an allowance or charge for the service specified Code Name A Allowance C Charge N No Allowance or Charge P Promotion	M	ID	1/1	Required
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge Code Name A990 Cataloging Services B210 Co-op Credit E170 Labeling F800 Promotional Allowance	X	ID	4/4	Used
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each UN Unit	X	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used

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 ACK

Pos: 270	Repeat: 104
Optional	
Loop: ACK	Elements: N/A

To acknowledge the ordered quantities and specify the ready date for a specific line item

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>
270	ACK	Line Item Acknowledgment	O	1		Required
280	DTM	Date/Time Reference	O	1		Used

ACK Line Item Acknowledgment

Pos: 270	Max: 1
Detail - Optional	
Loop: ACK	Elements: 29

User Option (Usage): Required

To acknowledge the ordered quantities and specify the ready date for a specific line 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>
ACK01	668	Line Item Status Code Description: Code specifying the action taken by the seller on a line item requested by the buyer Code Name IA Item Accepted IQ Item Accepted - Quantity Changed IR Item Rejected	M	ID	2/2	Required
ACK02	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
ACK03	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each ST Set UN Unit	X	ID	2/2	Used
ACK04	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 018 Available 067 Current Schedule Delivery 068 Current Schedule Ship 100 No Shipping Schedule Established as of 169 Product Availability Date	O	ID	3/3	Used
ACK05	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Used
ACK06	326	Request Reference Number Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)	O	AN	1/45	Used
ACK07	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name A1 Alternate ISBN B1 Volume Set B2 Library of Congress Code B3 Edition Code B4 Binding Code B5 Title Code B6 Author Code	X	ID	2/2	Used

Code Name

B7 Publisher Code
 CB Buyer's Catalog Number
 EN European Article Number (EAN) (2-5-5-1)

User:

ISBN-13

GC Grade Code
 IA Information Media Type
 IB International Standard Book Number (ISBN)
 RY Record Keeping or Model Year
 SJ Religious Retail Non-book Item
 SK Stock Keeping Unit (SKU)
 SL Seller's Lot Number
 UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)

Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit

User:

UCC/EAN-14

UP U.P.C. Consumer Package Code (1-5-5-1)
 VE Vendor Color
 VN Vendor's (Seller's) Item Number

ACK08	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK09	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' for usage.	X	ID	2/2	Used
ACK10	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK11	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' for usage.	X	ID	2/2	Used
ACK12	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK13	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' for usage.	X	ID	2/2	Used
ACK14	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK15	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' for usage.	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>for usage.</i>				
ACK16	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK17	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' <i>for usage.</i>	X	ID	2/2	Used
ACK18	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK19	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' <i>for usage.</i>	X	ID	2/2	Used
ACK20	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK21	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' <i>for usage.</i>	X	ID	2/2	Used
ACK22	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK23	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' <i>for usage.</i>	X	ID	2/2	Used
ACK24	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK25	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'ACK07' <i>for usage.</i>	X	ID	2/2	Used
ACK26	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
ACK27	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values Code Name	X	ID	2/2	Used
ACK28	822	BI Book Industry Systems Advisory Committee Source Subqualifier Description: A reference that indicates the table or text maintained by the Source	X	AN	1/15	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Qualifier				
		Code Name				
ACK29	1271	ACK BISAC Acknowledgement Code List	X	AN	1/30	Used
		Industry Code				
		Description: Code indicating a code from a specific industry code list				
		Code Name				
		AC Item accepted and shipped (Shipping)				
		AN Available:Shipping - new edition/ISBN (Shipping)				
		AO Available: Shipping From Other Location				
		AR Item Accepted: Released for shipment (Shipping)				
		AS Available: Shipping - same ISBN (Shipping)				
		AV Inventory available for order (Available)				
		AX Available : Shipping - free book (Shipping)				
		BA Backordered: Not yet available (Not Shipped)				
		BB Backordered: Reprint under consideration (Not Shipped)				
		BC Backordered: Current edition not available - to be replaced with...(Not Shipped)				
		BD Backordered: Delay in publication (Not Shipped)				
		BH Backordered: On hold (Not Shipped)				
		BI Backordered: To be reissued (Not Shipped)				
		BK Backordered: from previous order (Not Shipped)				
		BN Backordered: Inventory in progress; closed for stocktaking (Not Shipped)				
		BO Backordered: At customer's request (Not Shipped)				
		BP Item Accepted: partial shipment; balance backordered (Shipping)				
		BR Backordered: To be reprinted (Not Shipped)				
		BW Backordered: Waiting for catalog/proessing (Not Shipped)				
		BX Backordered: Not yet published (Not Shipped)				
		CA Cancelled: Not yet available (Not Shipped)				
		CB Cancelled: Not our publication (Not Shipped)				
		CD Cancelled: Delay in publication (Not Shipped)				
		CE Cancelled: Order partially filled and shipped;				
		Description: remainder of order cancelled (Shipping)				
		CF Cancelled: Current edition not available (Not Shipped)				
		CG Cancelled: No geographic rights, e.g. Canadian (Not Shipped)				
		CH Cancelled: Rights no longer ours (Not Shipped)				
		CI Cancelled: To be reissued (Not Shipped)				
		CJ Cancelled: Out of print in cloth; available in paper - reorder (Not Shipped)				
		CL Cancelled: Out of print in paper; available in cloth - reorder (Not Shipped)				
		CM Item accepted: shipment complete with additional quantity				
		CN Cancelled: Inventory in progress; closed for stocktaking (Not Shipped)				
		CO Cancelled: Out of stock (Not Shipped)				
		CR Cancelled: To be reprinted (Not Shipped)				
		CT Cancelled: Publisher did not respond by your cancellation date (Not Shipped)				
		CU Cancelled: Kits not available (Not Shipped)				
		CV Cancelled: Complete set volume must be purchased (Not Shipped)				
		CW Cancelled: Apply direct; not available through wholesale channels (Not Shipped)				
		CX Cancelled: Never published (Not Shipped)				
		CY Cancelled: Not available as a processed book (Not Shipped)				
		DR Item accepted: Date rescheduled (Shipping)				
		DS Out of Stock				
		IA Item Accepted (Shipping)				
		IB Item Backordered (Not Shipped)				
		ID Item Deleted (Not Shipped)				
		IE Item accepted: Price pending (Shipping)				
		IF Item on hold: Incomplete description (Not Shipped)				
		IG Item Forwarded to Proper Source/Published				
		IH Item on hold (Not Shipped)				
		IN Item accepted: Forwarded to new supplier (Not Shipped)				
		IP Item accepted: Price changed (Shipping)				

Code	Name
IQ	Item accepted: Quantity changed (Shipping)
IR	Item rejected (Not Shipped)
IS	Item accepted: Substitution made (Shipping)
IW	Item on hold: Waiver required (Not Shipped)
KC	Cancelled: REprint under consideration (Not Shipped)
KK	Cancelled: ISBN incorrect/unknown (Not Shipped)
KM	Cancelled: Market for this title is restricted (Not Shipped)
KP	Cancelled: Out of print (Not Shipped)
KR	Cancelled: Title Remaindered (Not Shipped)
KS	Cancelled: book sold by subscription only (Not Shipped)
MB	Managed Title Backordered (Not Shipped)
MC	Managed Title Canceled (Not Shipped)
NF	Not yet published (Not Shipped)
OP	Out of print (Not Shipped)
OR	Temporarily out of stock (Not Shipped)
PA	Partial shipment (Shipping)
SC	Shipment complete (Shipping)
SP	Item accepted: Schedule date pending (Shipping)
SS	Split Shipment (Shipping)
CQ	Cancelled: Did not meet minimum order requirements
	Description: e.g., quantity or dollar value (Not Shipped)

Syntax Rules:

1. P0203 - If either ACK02 or ACK03 is present, then the other is required.
2. C0405 - If ACK04 is present, then ACK05 is required.
3. P0708 - If either ACK07 or ACK08 is present, then the other is required.
4. P0910 - If either ACK09 or ACK10 is present, then the other is required.
5. P1112 - If either ACK11 or ACK12 is present, then the other is required.
6. P1314 - If either ACK13 or ACK14 is present, then the other is required.
7. P1516 - If either ACK15 or ACK16 is present, then the other is required.
8. P1718 - If either ACK17 or ACK18 is present, then the other is required.
9. P1920 - If either ACK19 or ACK20 is present, then the other is required.
10. P2122 - If either ACK21 or ACK22 is present, then the other is required.
11. P2324 - If either ACK23 or ACK24 is present, then the other is required.
12. P2526 - If either ACK25 or ACK26 is present, then the other is required.
13. P2728 - If either ACK27 or ACK28 is present, then the other is required.
14. C282729 - If ACK28 is present, then ACK27 and ACK29 are required.

Semantics:

1. ACK29 Industry Reason Code may be used to identify the item status. In addition, it may be used in conjunction with ACK01 to further clarify the status.

DTM Date/Time Reference

Pos: 280	Max: 1
Detail - Optional	
Loop: ACK	Elements: 2

User Option (Usage): Used

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 Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Required
		Code Name 018 Available 175 Cancel if not shipped by				
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Required

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 SCH

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

To specify the data for scheduling a specific line-item

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	SCH	Line Item Schedule	O	1		Used

SCH Line Item Schedule

Pos: 310	Max: 1
Detail - Optional	
Loop: SCH	Elements: 7

User Option (Usage): Used

To specify the data for scheduling a specific line-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>
SCH01	380	Quantity Description: Numeric value of quantity User: <i>Shippable quantity from PO1</i>	M	R	1/15	Required
SCH02	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each ST Set UN Unit	M	ID	2/2	Required
SCH03	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Name DC Destination Carrier SF Ship From SP Party filling Shipper's Order WH Warehouse	O	ID	2/3	Used
SCH04	93	Name Description: Free-form name	X	AN	1/60	Used
SCH05	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 068 Current Schedule Ship 080 Scheduled for Shipment (After and Including) 100 No Shipping Schedule Established as of	M	ID	3/3	Required
SCH06	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Required
SCH11	326	Request Reference Number Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number) User: <i>When ACK status code is 'Not our Publication', use this field for reference.</i>	O	AN	1/45	Used

Syntax Rules:

1. C0304 - If SCH03 is present, then SCH04 is required.
2. L080910 - If SCH08 is present, then at least one of SCH09 or SCH10 is required.
3. C0908 - If SCH09 is present, then SCH08 is required.
4. C1008 - If SCH10 is present, then SCH08 is required.

Semantics:

1. SCH12 is the schedule identification.

Comments:

1. SCH05 specifies the interpretation to be used for SCH06 and SCH07.

Loop CTT

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

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		Required

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Required

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 Description: Total number of line items in the transaction set	M	NO	1/6	Required
CTT02	347	Hash Total 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.	O	R	1/10	Used

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): Required

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 Description: Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Required
SE02	329	Transaction Set Control Number Description: 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	Required

Comments:

- SE is the last segment of each transaction set.

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