

855 Purchase Order Acknowledgment

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Author:	BISAC SCEDI committee
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855 Purchase Order Acknowledgment

Functional Group=PR

Purpose: 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	2			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		N2/010	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		

<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>
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
<u>LOOP ID - ACK</u>					<u>104</u>		
270	ACK	Line Item Acknowledgment	O	1			Required
280	DTM	Date/Time Reference	O	1			Used
<u>LOOP ID - SCH</u>					<u>200</u>	<u>N2/310L</u>	
310	SCH	Line Item Schedule	O	1		N2/310	Used

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>
<u>LOOP ID - CTT</u>					<u>1</u>	<u>N3/010L</u>	
010	CTT	Transaction Totals	O	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

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	Required
Description: Code uniquely identifying a Transaction Set						
Code Name						
855 X12.9 Purchase Order Acknowledgment						
ST02	329	Transaction Set Control Number	M	AN	4/9	Required
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).

BAK Beginning Segment for Purchase Order Acknowledgment

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 10

User Option (Usage): Required

Purpose: 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	M	ID	2/2	Required												
Description: Code identifying purpose of transaction set																		
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00</td><td>Original</td></tr><tr><td>02</td><td>Add</td></tr><tr><td>03</td><td>Delete</td></tr><tr><td>04</td><td>Change</td></tr><tr><td>06</td><td>Confirmation</td></tr></table>							<u>Code</u>	<u>Name</u>	00	Original	02	Add	03	Delete	04	Change	06	Confirmation
<u>Code</u>	<u>Name</u>																	
00	Original																	
02	Add																	
03	Delete																	
04	Change																	
06	Confirmation																	
BAK02	587	Acknowledgment Type	M	ID	2/2	Required												
Description: Code specifying the type of acknowledgment																		
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>AC</td><td>Acknowledge - With Detail and Change</td></tr><tr><td>AE</td><td>Acknowledge - With Exception Detail Only</td></tr><tr><td>RJ</td><td>Rejected - No Detail</td></tr></table>							<u>Code</u>	<u>Name</u>	AC	Acknowledge - With Detail and Change	AE	Acknowledge - With Exception Detail Only	RJ	Rejected - No Detail				
<u>Code</u>	<u>Name</u>																	
AC	Acknowledge - With Detail and Change																	
AE	Acknowledge - With Exception Detail Only																	
RJ	Rejected - No Detail																	
BAK03	324	Purchase Order Number	M	AN	1/22	Required												
Description: Identifying number for Purchase Order assigned by the orderer/purchaser																		
BAK04	373	Date	M	DT	8/8	Required												
Description: Date expressed as CCYYMMDD																		
BAK05	328	Release Number	O	AN	1/30	Used												
Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction																		
BAK06	326	Request Reference Number	O	AN	1/45	Used												
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)																		
BAK07	367	Contract Number	O	AN	1/30	Used												
Description: Contract number																		
* BAK08	127	Reference Identification	O	AN	1/30	Not Used												
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier																		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAK09	373	Date	O	DT	8/8	Required
Description: Date expressed as CCYYMMDD						
* BAK10	640	Transaction Type Code	O	ID	2/2	Used
Description: Code specifying the type of transaction						

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: 21

User Option (Usage): Used

Purpose: 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	M	ID	2/2	Required
Description: Code identifying an organizational entity, a physical location, or an individual						
Code Name						
BY Buying Party (Purchaser)						
SE Selling Party						
CUR02	100	Currency Code	M	ID	3/3	Required
Description: Code (Standard ISO) for country in whose currency the charges are specified						
* CUR03	280	Exchange Rate	O	R	4/10	Not Used
Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another						
* CUR04	98	Entity Identifier Code	O	ID	2/2	Not Used
Description: Code identifying an organizational entity, a physical location, or an individual						
* CUR05	100	Currency Code	O	ID	3/3	Not Used
Description: Code (Standard ISO) for country in whose currency the charges are specified						
* CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Not Used
Description: Code identifying the market upon which the currency exchange rate is based						
* CUR07	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR08	373	Date	O	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR09	337	Time	O	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR10	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR11	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR12	337	Time	C	TM	4/8	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR13	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR14	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR15	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR16	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR17	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR18	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR19	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR20	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR21	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						

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: 4

User Option (Usage): Rec'd

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	Required
Description: Code Qualifying the Reference Identification						
Code Name						
AE Authorization for Expense (AFE) Number						
CT Contract Number						
FU Fund Code						
IT Internal Customer Number						
MR Merchandise Type Code						
Description: The merchandise type code may be used to indicate a new or used, text or reference type condition against the entire order. Code selection may be referenced under the 'GC' definitions in the appendix. NOTE: use of the 'GC' in the PO1 segment at detail level overrides any condition set by this reference.						
PD Promotion/Deal Number						
PR Price Quote Number						
SB Sales Region Number						
REF02	127	Reference Identification	C	AN	1/30	Rec'd
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
* REF03	352	Description	C	AN	1/80	Not Used
Description: A free-form description to clarify the related data elements and their content						
* REF04	C040	Reference Identifier	O	Comp		Not Used
Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier						
*	128	Reference Identification Qualifier	M	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	M	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

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: 10

User Option (Usage): Used

Purpose: 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	O	ID	1/2	Used
Description: Code to identify a specific requirement or agreement of sale						
<u>Code</u> <u>Name</u>						
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						
Description: <i>Ship after authorization is received</i>						
* CSH02	306	Action Code	O	ID	1/2	Used
Description: Code indicating type of action						
* CSH03	610	Amount	C	N2	1/15	Not Used
Description: Monetary amount						
* CSH04	508	Account Number	O	AN	1/35	Not Used
Description: Account number assigned						
* CSH05	373	Date	O	DT	6/6	Not Used
Description: Date (YYMMDD)						
CSH06	559	Agency Qualifier Code	C	ID	2/2	Used
Description: Code identifying the agency assigning the code values						
<u>Code</u> <u>Name</u>						
BI Book Industry Systems Advisory Committee						
* CSH07	560	Special Services Code	C	ID	2/10	Not Used
Description: Code identifying the special service						
* CSH08	566	Product/Service Substitution Code	O	ID	1/2	Not Used
Description: Code indicating product or service substitution conditions						
* CSH09	954	Percent	C	R	1/10	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Percentage expressed as a decimal						
* CSH10	1004	Percent Qualifier	C	ID	1/2	Not Used
Description: Code to qualify percent						

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 Service, Promotion, Allowance, or Charge Information

Pos: 120Repeat: 25
Optional
Loop: SACElements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
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: 16

User Option (Usage): Used

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

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	Required
Description: Code which indicates an allowance or charge for the service specified						
<u>Code</u> <u>Name</u>						
A Allowance						
C Charge						
P Promotion						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used
Description: Code identifying the service, promotion, allowance, or charge						
<u>Code</u> <u>Name</u>						
A990 Cataloging Services						
B210 Co-op Credit						
E170 Labeling						
F800 Promotional Allowance						
* SAC03	559	Agency Qualifier Code	C	ID	2/2	Not Used
Description: Code identifying the agency assigning the code values						
* SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	C	AN	1/10	Not Used
Description: Agency maintained code identifying the service, promotion, allowance, or charge						
SAC05	610	Amount	O	N2	1/15	Used
Description: Monetary amount						
* SAC06	378	Allowance/ Charge Percent Qualifier	C	ID	1/1	Not Used
Description: Code indicating on what basis allowance or charge percent is calculated						
* SAC07	332	Percent	C	R	1/6	Not Used
Description: Percent expressed as a percent						
SAC08	118	Rate	O	R	1/9	Used
Description: Rate expressed in the standard monetary denomination for the currency specified						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
SAC09	355	Unit or Basis for Measurement Code	C	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														
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>EA</td><td>Each</td></tr><tr><td colspan="2">Description: <i>For non-book items.</i></td></tr><tr><td>UN</td><td>Unit</td></tr></table>							<u>Code</u>	<u>Name</u>	EA	Each	Description: <i>For non-book items.</i>		UN	Unit
<u>Code</u>	<u>Name</u>													
EA	Each													
Description: <i>For non-book items.</i>														
UN	Unit													
SAC10	380	Quantity	C	R	1/15	Used								
Description: Numeric value of quantity														
* SAC11	380	Quantity	O	R	1/15	Not Used								
Description: Numeric value of quantity														
* SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Not Used								
Description: Code indicating method of handling for an allowance or charge														
* SAC13	127	Reference Identification	C	AN	1/30	Not Used								
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	Not Used								
Description: A unique number identifying available promotion or allowance options when more than one is offered														
* SAC15	352	Description	O	AN	1/80	Not Used								
Description: A free-form description to clarify the related data elements and their content														
* SAC16	819	Language Code	O	ID	2/3	Not Used								
Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)														

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.

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.

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: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
DTM01	374	Date/Time Qualifier	M	ID	3/3	Required																										
Description: Code specifying type of date or time, or both date and time																																
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>001</td><td>Cancel After</td></tr><tr><td>002</td><td>Delivery Requested</td></tr><tr><td>010</td><td>Requested Ship</td></tr><tr><td>014</td><td>Deferred Payment</td></tr><tr><td>037</td><td>Ship Not Before</td></tr><tr><td>038</td><td>Ship No Later</td></tr><tr><td>077</td><td>Requested for Delivery (Week of)</td></tr><tr><td>087</td><td>Requested for Shipment (Week of)</td></tr><tr><td>168</td><td>Release</td></tr><tr><td>175</td><td>Cancel if not shipped by</td></tr><tr><td>181</td><td>Stop Work (as of)</td></tr><tr><td>182</td><td>Will Advise (as of)</td></tr></table>							<u>Code</u>	<u>Name</u>	001	Cancel After	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)
<u>Code</u>	<u>Name</u>																															
001	Cancel After																															
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	C	DT	8/8	Required																										
Description: Date expressed as CCYYMMDD																																
* DTM03	337	Time	C	TM	4/8	Not Used																										
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)																																
* DTM04	623	Time Code	O	ID	2/2	Not Used																										
Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow																																
* DTM05	624	Century	O	N0	2/2	Not Used																										
Description: The first two characters in the designation of the year (CCYY)																																
* DTM06	1250	Date Time Period Format Qualifier	C	ID	2/3	Not Used																										
Description: Code indicating the date format, time format, or date and time format																																
* DTM07	1251	Date Time Period	C	AN	1/35	Not Used																										
Description: Expression of a date, a time, or range of dates, times or dates and times																																

Syntax Rules:

1. P0607 - If either DTM06 or DTM07 is present, then the other is required.
2. R020306 - At least one of DTM02, DTM03 or DTM06 is required.

SI Service Characteristic Identification

Pos: 185	Max: 2
Heading - Optional	
Loop: N/A	Elements: 21

User Option (Usage): Used

Purpose: 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	M	ID	2/2	Required
Description: Code identifying the agency assigning the code values						
Code Name						
BI Book Industry Systems Advisory Committee						
SI02	1000	Service Characteristics Qualifier	M	AN	2/2	Required
Description: Code from an industry code list qualifying the type of service characteristics						
Code Name						
CR Carton Rounding						
Description: <i>Rounding should be done according to trading partner agreement.</i>						
EX Exact						
SI03	234	Product/Service ID	M	AN	1/40	Required
Description: Identifying number for a product or service						
Code Name						
BI Book Industry Systems Advisory Committee						
* SI04	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
Description: Code from an industry code list qualifying the type of service characteristics						
* SI05	234	Product/Service ID	C	AN	1/40	Not Used
Description: Identifying number for a product or service						
* SI06	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
Description: Code from an industry code list qualifying the type of service characteristics						
* SI07	234	Product/Service ID	C	AN	1/40	Not Used
Description: Identifying number for a product or service						
* SI08	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
Description: Code from an industry code list qualifying the type of service characteristics						
* SI09	234	Product/Service ID	C	AN	1/40	Not Used
Description: Identifying number for a product or service						
* SI10	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
Description: Code from an industry code list qualifying the type of service characteristics						
* SI11	234	Product/Service ID	C	AN	1/40	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Identifying number for a product or service				
* SI12	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
		Description: Code from an industry code list qualifying the type of service characteristics				
* SI13	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* SI14	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
		Description: Code from an industry code list qualifying the type of service characteristics				
* SI15	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* SI16	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
		Description: Code from an industry code list qualifying the type of service characteristics				
* SI17	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* SI18	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
		Description: Code from an industry code list qualifying the type of service characteristics				
* SI19	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* SI20	1000	Service Characteristics Qualifier	C	AN	2/2	Not Used
		Description: Code from an industry code list qualifying the type of service characteristics				
* SI21	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				

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: 15

User Option (Usage): Used

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>
TD501	133	Routing Sequence Code	O	ID	1/2	Used
Description: Code describing the relationship of a carrier to a specific shipment movement						
Code Name						
B Origin/Delivery Carrier (Any Mode)						
* TD502	66	Identification Code Qualifier	C	ID	1/2	Not Used
Description: Code designating the system/method of code structure used for Identification Code (67)						
* TD503	67	Identification Code	C	AN	2/20	Not Used
Description: Code identifying a party or other code						
* TD504	91	Transportation Method/Type Code	C	ID	1/2	Not Used
Description: Code specifying the method or type of transportation for the shipment						
TD505	387	Routing	C	AN	1/35	Used
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity						
* TD506	368	Shipment/Order Status Code	C	ID	2/2	Not Used
Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction						
* TD507	309	Location Qualifier	O	ID	1/2	Not Used
Description: Code identifying type of location						
* TD508	310	Location Identifier	C	AN	1/30	Not Used
Description: Code which identifies a specific location						
* TD509	731	Transit Direction Code	O	ID	2/2	Not Used
Description: The point of origin and point of direction						
* TD510	732	Transit Time Direction Qualifier	O	ID	2/2	Not Used
Description: Code specifying the value of time used to measure the transit time						
* TD511	733	Transit Time	C	R	1/4	Not Used
Description: The numeric amount of transit time						
TD512	284	Service Level Code	C	ID	2/2	Used
Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		3D Three Day Service				
		G2 Standard Service				
		ND Next Day Air				
		Description: <i>Delivery during business day hours of next business day</i>				
		NH Next Day Hundred Weight				
		ON Overnight				
		SE Second Day				
		SG Standard Ground				
		SH Second Day Hundred Weight				
		SI Standard Ground Hundred Weight				
* TD513	284	Service Level Code	C	ID	2/2	Not Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD514	284	Service Level Code	O	ID	2/2	Not Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD515	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

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.

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 Name

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

User Option (Usage): Required

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
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: 6

User Option (Usage): Required

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
N101	98	Entity Identifier Code	M	ID	2/2	Required																
Description: Code identifying an organizational entity, a physical location, or an individual																						
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>BS</td><td>Bill and Ship To</td></tr><tr><td>BT</td><td>Bill-to-Party</td></tr><tr><td>SF</td><td>Ship From</td></tr><tr><td>ST</td><td>Ship To</td></tr><tr><td>VN</td><td>Vendor</td></tr></table>							<u>Code</u>	<u>Name</u>	BS	Bill and Ship To	BT	Bill-to-Party	SF	Ship From	ST	Ship To	VN	Vendor				
<u>Code</u>	<u>Name</u>																					
BS	Bill and Ship To																					
BT	Bill-to-Party																					
SF	Ship From																					
ST	Ship To																					
VN	Vendor																					
N102	93	Name	C	AN	1/35	Not Rec'd																
Description: Free-form name																						
N103	66	Identification Code Qualifier	C	ID	1/2	Rec'd																
Description: Code designating the system/method of code structure used for Identification Code (67)																						
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>1</td><td>D-U-N-S Number,Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td></tr><tr><td>12</td><td>Telephone Number (Phone)</td></tr><tr><td>15</td><td>Standard Address Number (SAN)</td></tr><tr><td colspan="2">Description: <i>Recommended by the book industry.</i></td></tr><tr><td>91</td><td>Assigned by Seller or Seller's Agent</td></tr><tr><td>92</td><td>Assigned by Buyer or Buyer's Agent</td></tr></table>							<u>Code</u>	<u>Name</u>	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)	Description: <i>Recommended by the book industry.</i>		91	Assigned by Seller or Seller's Agent	92	Assigned by Buyer or Buyer's Agent
<u>Code</u>	<u>Name</u>																					
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)																					
Description: <i>Recommended by the book industry.</i>																						
91	Assigned by Seller or Seller's Agent																					
92	Assigned by Buyer or Buyer's Agent																					
N104	67	Identification Code	C	AN	2/20	Rec'd																
Description: Code identifying a party or other code																						
* N105	706	Entity Relationship Code	O	ID	2/2	Not Used																
Description: Code describing entity relationship																						
* N106	98	Entity Identifier Code	O	ID	2/2	Not Used																
Description: Code identifying an organizational entity, a physical location, or an individual																						

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
Purpose: 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	M	AN	1/35	Required
		Description: Free-form name				
N202	93	Name	O	AN	1/35	Used
		Description: Free-form name				

N3 Address Information

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

User Option (Usage): Used
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	1/35	Required
		Description: Address information				
N302	166	Address Information	O	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 330	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				
* N405	309	Location Qualifier	C	ID	1/2	Not Used
		Description: Code identifying type of location				
* N406	310	Location Identifier	O	AN	1/30	Not Used
		Description: Code which identifies a specific location				

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: 4

User Option (Usage): Used

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	Required
Description: Code Qualifying the Reference Identification						
Code Name						
CO Customer Order Number						
DP Department Number						
IT Internal Customer Number						
REF02	127	Reference Identification	C	AN	1/30	Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
* REF03	352	Description	C	AN	1/80	Not Used
Description: A free-form description to clarify the related data elements and their content						
* REF04	C040	Reference Identifier	O	Comp		Not Used
Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier						
*	128	Reference Identification Qualifier	M	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	M	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

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: 9

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Required
		Description: Code identifying the major duty or responsibility of the person or group named				
		<u>Code</u> <u>Name</u>				
		DC Delivery Contact				
		OC Order Contact				
		SU Supplier Contact				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name				
PER03	365	Communication Number Qualifier	C	ID	2/2	Used
		Description: Code identifying the type of communication number				
		<u>Code</u> <u>Name</u>				
		BN Beeper Number				
		CP Cellular Phone				
		EM Electronic Mail				
		EX Telephone Extension				
		FX Facsimile				
		TE Telephone				
PER04	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				
PER05	365	Communication Number Qualifier	C	ID	2/2	Used
		Description: Code identifying the type of communication number				
		User: Refer to code list specified in 'PER03' for usage.				
PER06	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				
PER07	365	Communication Number Qualifier	C	ID	2/2	Used
		Description: Code identifying the type of communication number				
		User: Refer to code list specified in 'PER03' for usage.				
PER08	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PER09	443	Contact Inquiry Reference	O	AN	1/20	Not Used

Description: Additional reference number or description to clarify a contact number

Syntax Rules:

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

Loop Baseline Item Data

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

User Option (Usage): Required

Purpose: 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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO101	350	Assigned Identification	O	AN	1/20	Rec'd
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
PO102	330	Quantity Ordered	C	R	1/9	Required
		Description: Quantity ordered				
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Required
		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>				
		CA Case				
		Description: Note: For non-book items				
		CT Carton				
		EA Each				
		Description: Note: For non-book items				
		ST Set				
		UN Unit				
PO104	212	Unit Price	C	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
PO105	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item				
		User: Standard Book Industry definitions should be applied to this element.				
		<u>Code</u> <u>Name</u>				
		CA Catalog				
		CT Contract				
		NC No Charge				
		User:				
		The book industry uses this code to specify free goods				
		NT Net				
		Description: Indicates a net unit price				
		PE Price per Each				
		PR Promotion				
		SR Retail/List/Suggested Selling Price				
PO106	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		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				
		EN European Article Number (EAN) (2-5-5-1)				
		User:				
		ISBN-13				
		GC Grade Code				
		Description: When using a qualifier value of GC then data element 234 should be one of the following values:				
		00 General Condition New or Used				
		01 New Condition Only				
		02 Used, Good Condition Only				
		03 Used, Poor Condition				
		04 Used, Any Condition				
		05 No Marked Complimentary Copies				
		IA Information Media Type				
		IB International Standard Book Number (ISBN)				
		User:				
		ISBN-10				
		RY Record Keeping or Model Year				
		Description: Note: Year of publication				
		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	C	AN	1/40	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Identifying number for a product or service				
PO108	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO110	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO112	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO114	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO116	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO118	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO120	235	Product/Service ID Qualifier	C	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>
		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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO122	235	Product/Service ID Qualifier	C	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	C	AN	1/40	Used
		Description: Identifying number for a product or service				
PO124	235	Product/Service ID Qualifier	C	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	C	AN	1/40	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: 21

User Option (Usage): Not Rec'd

Purpose: 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	M	ID	2/2	Required
		Description: Code identifying an organizational entity, a physical location, or an individual				
		Code Name				
		BY Buying Party (Purchaser)				
		SE Selling Party				
CUR02	100	Currency Code	M	ID	3/3	Required
		Description: Code (Standard ISO) for country in whose currency the charges are specified				
* CUR03	280	Exchange Rate	O	R	4/10	Not Used
		Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another				
* CUR04	98	Entity Identifier Code	O	ID	2/2	Not Used
		Description: Code identifying an organizational entity, a physical location, or an individual				
* CUR05	100	Currency Code	O	ID	3/3	Not Used
		Description: Code (Standard ISO) for country in whose currency the charges are specified				
* CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Not Used
		Description: Code identifying the market upon which the currency exchange rate is based				
* CUR07	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR08	373	Date	O	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR09	337	Time	O	TM	4/8	Not Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR10	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR11	373	Date	C	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR12	337	Time	C	TM	4/8	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR13	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR14	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR15	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR16	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR17	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR18	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* CUR19	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
* CUR20	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* CUR21	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						

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: 11

User Option (Usage): Used

Purpose: To specify pricing 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>
* CTP01	687	Class of Trade Code	O	ID	2/2	Not Used
		Description: Code indicating class of trade				
CTP02	236	Price Identifier Code	C	ID	3/3	Used
		Description: Code identifying pricing specification				
		<u>Code</u> <u>Name</u> CAT Catalog Price NET Net Item Price PRP Promotional price SLP Retail/List/Suggested Selling Price				
CTP03	212	Unit Price	O	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
CTP04	380	Quantity	C	R	1/15	Used
		Description: Numeric value of quantity				
CTP05	C001	Composite Unit of Measure	C	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	Required
		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> EA Each UN Unit				
*	1018	Exponent	O	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	O	R	1/10	Not Used
		Description: Value to be used as a multiplier to obtain a new value				
*	355	Unit or Basis for Measurement Code	O	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
*	1018	Exponent	O	R	1/15	Not Used
		Description: Power to which a unit is raised				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
*	649	Multiplier	O	R	1/10	Not Used
		Description: Value to be used as a multiplier to obtain a new value				
*	355	Unit or Basis for Measurement Code	O	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
*	1018	Exponent	O	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	O	R	1/10	Not Used
		Description: Value to be used as a multiplier to obtain a new value				
*	355	Unit or Basis for Measurement Code	O	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
*	1018	Exponent	O	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	O	R	1/10	Not Used
		Description: Value to be used as a multiplier to obtain a new value				
*	355	Unit or Basis for Measurement Code	O	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
*	1018	Exponent	O	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	O	R	1/10	Not Used
		Description: Value to be used as a multiplier to obtain a new value				
CTP06	648	Price Multiplier Qualifier	O	ID	3/3	Used
		Description: Code indicating the type of price multiplier				
		User: The multiplier is used to compute the price after the discount is applied (e.g. A multiplier of '.8' reflects a 20% discount.)				
		<u>Code</u> <u>Name</u>				
		DIS Discount Multiplier				
CTP07	649	Multiplier	C	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
		User: 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				
*	CTP08	782 Monetary Amount	O	R	1/15	Not Used
		Description: Monetary amount				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* CTP09	639	Basis of Unit Price Code	O	ID	2/2	Not Used
		Description: Code identifying the type of unit price for an item				
* CTP10	499	Condition Value	O	AN	1/10	Not Used
		Description: Identifies rate restrictions or provisions				
* CTP11	289	Multiple Price Quantity	O	N0	1/2	Not Used
		Description: Quantity of units for a given price, e.g., 3 for \$10.00				

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.

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 Product/Item Description

Pos: 050Repeat: 1000Optional

Loop: PIDElements: N/A

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
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: 9

User Option (Usage): Used

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PID06	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
Description: Code indicating the product surface, layer or position that is being described						
* PID07	822	Source Subqualifier	O	AN	1/15	Not Used
Description: A reference that indicates the table or text maintained by the Source Qualifier						
* PID08	1073	Yes/No Condition or Response Code	O	ID	1/1	Not Used
Description: Code indicating a Yes or No condition or response						
* PID09	819	Language Code	O	ID	2/3	Not Used
Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)						

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. C0803 - If PID08 is present, then PID03 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: 18

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	Pack	O	N0	1/6	Used

Description: Number of inner pack units per outer pack unit

User: Carton quantity

PO402	357	Size	C	R	1/8	Used
-------	-----	------	---	---	-----	------

Description: Size of supplier units in pack

PO403	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name

CM	Centimeter
IN	Inch
KG	Kilogram
LB	Pound
OZ	Ounce - Av

PO404	103	Packaging Code	C	AN	3/5	Used
-------	-----	----------------	---	----	-----	------

Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material

User: CTN25 Carton, corrugated or solid

CTN71 Carton, not otherwise specified (Other data values as mutually agreed upon by trading partners.)

ENV71 Envelope, Not otherwise specified

Code Name

CTN	Carton
ENV	Envelope

Code Name

25	Corrugated or Solid
71	Not Otherwise Specified

PO405	187	Weight Qualifier	O	ID	1/2	Used
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Description: Code defining the type of weight

Code Name

G	Gross Weight
---	--------------

PO406	384	Gross Weight per Pack	C	R	1/9	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Numeric value of gross weight per pack				
PO407	355	Unit or Basis for Measurement Code	C	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>				
		KG Kilogram				
		LB Pound				
PO408	385	Gross Volume per Pack	C	R	1/9	Used
		Description: Numeric value of gross volume per pack				
PO409	355	Unit or Basis for Measurement Code	C	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>				
		KG Kilogram				
		LB Pound				
		UN Unit				
PO410	82	Length	C	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	C	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	C	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	C	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				
* PO414	810	Inner Pack	O	N0	1/6	Not Used
		Description: Number of units in each selling pack				
* PO415	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
		Description: Code indicating the product surface, layer or position that is being described				
* PO416	350	Assigned Identification	C	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
* PO417	350	Assigned Identification	O	AN	1/20	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Alphanumeric characters assigned for differentiation within a transaction set						
* PO418	1470	Number	O	N0	1/9	Not Used

Description: A generic number

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: 4

User Option (Usage): Used

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	Required
Description: Code Qualifying the Reference Identification						
Code Name						
AE Authorization for Expense (AFE) Number						
CR Customer Reference Number						
Description: Customer Reference Number (the data coded with 'CR' is the customer's order line identifier. The vendor must hold this identifier and send it back to the customer on the purchase order acknowledgement and/or invoice. This is an extremely important piece of data. Each repetition of Table 2 MUST have a customer reference number defined.						
FU Fund Code						
MR Merchandise Type Code						
Description: The merchandise type code may be used to indicate a new or used, text or reference type condition against the entire order. Code selection may be referenced under the 'GC' definitions in the appendix. NOTE: Use of the 'GC' in the PO1 segment at detail level overrides any condition set by this reference.						
PD Promotion/Deal Number						
SB Sales Region Number						
REF02	127	Reference Identification	C	AN	1/30	Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
* REF03	352	Description	C	AN	1/80	Not Used
Description: A free-form description to clarify the related data elements and their content						
* REF04	C040	Reference Identifier	O	Comp		Not Used
Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier						
*	128	Reference Identification Qualifier	M	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	M	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
Description: Code Qualifying the Reference Identification						
*	127	Reference Identification	C	AN	1/30	Not Used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

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 Service, Promotion, Allowance, or Charge Information

Pos: 130Repeat: 25
Optional
Loop: SACElements: N/A

User Option (Usage): Used

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

Loop Summary:

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

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130 Max: 1
Detail - Optional
Loop: SAC Elements: 16

User Option (Usage): Used

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

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	Required										
Description: Code which indicates an allowance or charge for the service specified																
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A</td><td>Allowance</td></tr><tr><td>C</td><td>Charge</td></tr><tr><td>N</td><td>No Allowance or Charge</td></tr><tr><td>P</td><td>Promotion</td></tr></table>							<u>Code</u>	<u>Name</u>	A	Allowance	C	Charge	N	No Allowance or Charge	P	Promotion
<u>Code</u>	<u>Name</u>															
A	Allowance															
C	Charge															
N	No Allowance or Charge															
P	Promotion															
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used										
Description: Code identifying the service, promotion, allowance, or charge																
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A990</td><td>Cataloging Services</td></tr><tr><td>B210</td><td>Co-op Credit</td></tr><tr><td>E170</td><td>Labeling</td></tr><tr><td>F800</td><td>Promotional Allowance</td></tr></table>							<u>Code</u>	<u>Name</u>	A990	Cataloging Services	B210	Co-op Credit	E170	Labeling	F800	Promotional Allowance
<u>Code</u>	<u>Name</u>															
A990	Cataloging Services															
B210	Co-op Credit															
E170	Labeling															
F800	Promotional Allowance															
* SAC03	559	Agency Qualifier Code	C	ID	2/2	Not Used										
Description: Code identifying the agency assigning the code values																
* SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	C	AN	1/10	Not Used										
Description: Agency maintained code identifying the service, promotion, allowance, or charge																
SAC05	610	Amount	O	N2	1/15	Used										
Description: Monetary amount																
* SAC06	378	Allowance/ Charge Percent Qualifier	C	ID	1/1	Not Used										
Description: Code indicating on what basis allowance or charge percent is calculated																
* SAC07	332	Percent	C	R	1/6	Not Used										
Description: Percent expressed as a percent																
SAC08	118	Rate	O	R	1/9	Used										
Description: Rate expressed in the standard monetary denomination for the currency specified																

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC09	355	Unit or Basis for Measurement Code	C	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>				
		EA Each				
		Description: <i>For non-book items.</i>				
		UN Unit				
SAC10	380	Quantity	C	R	1/15	Used
		Description: Numeric value of quantity				
* SAC11	380	Quantity	O	R	1/15	Not Used
		Description: Numeric value of quantity				
* SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Not Used
		Description: Code indicating method of handling for an allowance or charge				
* SAC13	127	Reference Identification	C	AN	1/30	Not Used
		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	Not Used
		Description: A unique number identifying available promotion or allowance options when more than one is offered				
* SAC15	352	Description	O	AN	1/80	Not Used
		Description: A free-form description to clarify the related data elements and their content				
* SAC16	819	Language Code	O	ID	2/3	Not Used
		Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)				

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.

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.

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 Line Item Acknowledgment

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

User Option (Usage): Required

Purpose: 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

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ACK01	668	Line Item Status Code	M	ID	2/2	Required

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

ACK02	380	Quantity	C	R	1/15	Used
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Description: Numeric value of quantity

ACK03	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name

EA	Each
Description: <i>For non-book items.</i>	
ST	Set
UN	Unit

ACK04	374	Date/Time Qualifier	O	ID	3/3	Used
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Description: Code specifying type of date or time, or both date and time

Code Name

018	Available/Constructive Placement
067	Current Schedule Delivery
068	Current Schedule Ship
100	No Shipping Schedule Established as of
Description: <i>This is the default if no scheduled shipment information is known at the time of acknowledgement.</i>	
169	Product Availability Date
Description: <i>This is the date that this item can be re-ordered. Recommended usage is for when back orders are cancelled as requested from the purchase order.</i>	
175	Cancel if not shipped by

ACK05	373	Date	C	DT	6/6	Used
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Description: Date (YYMMDD)

ACK06	326	Request Reference Number	O	AN	1/45	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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)				
ACK07	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code	Name			
		AI	Alternate ISBN			
			User:			
			ISBN-10 alternate			
		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			
		EN	European Article Number (EAN) (2-5-5-1)			
			User:			
			ISBN-13			
		GC	Grade Code			
			Description: When using a qualifier value of GC then data element 234 should be one of the following values:			
			00 General Condition New or Used			
			01 New Condition Only			
			02 Used, Good Condition Only			
			03 Used, Poor Condition			
			04 Used, Any condition			
			05 No Marked Complimentary Copies			
		IA	Information Media Type			
		IB	International Standard Book Number (ISBN)			
			User:			
			ISBN-10			
		RR	Replacement Product No.			
			User:			
			ISBN-13 alternate/replacement			
		RY	Record Keeping or Model Year			
			Description: Note: Year of publication			
		SJ	Religious Retail Non-book Item			

Code Name

SK Stock Keeping Unit (SKU)
 SL Seller's Lot Number
 SR Substitute Product Number

User:

UCC/EAN-14 alternate/replacement

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	C	AN	1/40	Used
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Description: Identifying number for a product or service

ACK09	235	Product/Service ID Qualifier	C	ID	2/2	Used
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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.

ACK10	234	Product/Service ID	C	AN	1/40	Used
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Description: Identifying number for a product or service

ACK11	235	Product/Service ID Qualifier	C	ID	2/2	Used
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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.

ACK12	234	Product/Service ID	C	AN	1/40	Used
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Description: Identifying number for a product or service

ACK13	235	Product/Service ID Qualifier	C	ID	2/2	Used
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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.

ACK14	234	Product/Service ID	C	AN	1/40	Used
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Description: Identifying number for a product or service

ACK15	235	Product/Service ID Qualifier	C	ID	2/2	Used
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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.

ACK16	234	Product/Service ID	C	AN	1/40	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Identifying number for a product or service				
ACK17	235	Product/Service ID Qualifier	C	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 'ACK07' for usage.				
ACK18	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
ACK19	235	Product/Service ID Qualifier	C	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 'ACK07' for usage.				
ACK20	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
ACK21	235	Product/Service ID Qualifier	C	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 'ACK07' for usage.				
ACK22	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
ACK23	235	Product/Service ID Qualifier	C	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 'ACK07' for usage.				
ACK24	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
ACK25	235	Product/Service ID Qualifier	C	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 'ACK07' for usage.				
ACK26	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
ACK27	559	Agency Qualifier Code	C	ID	2/2	Used
		Description: Code identifying the agency assigning the code values				
		Code	Name			
		BI	Book Industry Systems Advisory Committee			
ACK28	822	Source Subqualifier	C	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ACK29	1271	Industry Code	C	AN	1/30	Used

Description: Code indicating a code from a specific industry code list

Code Name

AC	Item Accepted and Shipping (Shipping)
AH	Available for Shipping - Credit Hold (Not Shipped)
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)
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)
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)
CC	Cancelled - Customer Request (Not Shipped)
CD	Cancelled: Delay in publication (Not Shipped)
CE	Cancelled: Order partially filled and shipped;
	Description: <i>remainder of order cancelled (Shipping)</i>
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)
CP	Cancelled: Price Variance Exceeded (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)

Code Name

IA	Item Accepted (Shipping)
IB	Item Backordered (Not Shipped)
IG	Item Forwarded to Proper Source/Publisher
IP	Item accepted: Price changed (Shipping)
IR	Item rejected (Not Shipped)
IS	Item accepted: Substitution made (Shipping)
KC	Cancelled: REprint under consideration (Not Shipped)
KH	Cancelled: Credit Hold (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 Cancelled (Not Shipped)
OP	Out of print (Not Shipped)
WI	Billed & Shipped Separately - Non-Returnable
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: 6

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Required
Description: Code specifying type of date or time, or both date and time						
Code Name						
018 Available/Constructive Placement						
175 Cancel if not shipped by						
DTM02	373	Date	C	DT	8/8	Required
Description: Date specified as CCYYMMDD						
* DTM03	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* DTM04	623	Time Code	O	ID	2/2	Not Used
Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow						
* DTM06	1250	Date Time Period Format Qualifier	C	ID	2/3	Not Used
Description: Code indicating the date format, time format, or date and time format						
* DTM07	1251	Date Time Period	C	AN	1/35	Not Used
Description: Expression of a date, a time, or range of dates, times or dates and times						

Syntax Rules:

1. P0607 - If either DTM06 or DTM07 is present, then the other is required.
2. R020306 - At least one of DTM02, DTM03 or DTM06 is required.

Loop Line Item Schedule

Pos: 310Repeat: 200
Optional
Loop: SCHElements: N/A

User Option (Usage): Used
Purpose: 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: 12

User Option (Usage): Used

Purpose: 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	M	R	1/15	Required																		
Description: Numeric value of quantity																								
User: <i>Shippable quantity from PO1</i>																								
SCH02	355	Unit or Basis for Measurement Code	M	ID	2/2	Required																		
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken																								
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>EA</td><td>Each</td></tr><tr><td colspan="2">Description: <i>For non-book items</i></td></tr><tr><td>ST</td><td>Set</td></tr><tr><td>UN</td><td>Unit</td></tr></table>							<u>Code</u>	<u>Name</u>	EA	Each	Description: <i>For non-book items</i>		ST	Set	UN	Unit								
<u>Code</u>	<u>Name</u>																							
EA	Each																							
Description: <i>For non-book items</i>																								
ST	Set																							
UN	Unit																							
SCH03	98	Entity Identifier Code	O	ID	2/2	Used																		
Description: Code identifying an organizational entity, a physical location, or an individual																								
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>DC</td><td>Destination Carrier</td></tr><tr><td>SF</td><td>Ship From</td></tr><tr><td>SP</td><td>Party filling Shipper's Order</td></tr><tr><td>WH</td><td>Warehouse</td></tr></table>							<u>Code</u>	<u>Name</u>	DC	Destination Carrier	SF	Ship From	SP	Party filling Shipper's Order	WH	Warehouse								
<u>Code</u>	<u>Name</u>																							
DC	Destination Carrier																							
SF	Ship From																							
SP	Party filling Shipper's Order																							
WH	Warehouse																							
SCH04	93	Name	C	AN	1/35	Used																		
Description: Free-form name																								
SCH05	374	Date/Time Qualifier	M	ID	3/3	Required																		
Description: Code specifying type of date or time, or both date and time																								
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>018</td><td>Available/Constructive Placement</td></tr><tr><td>067</td><td>Current Schedule Delivery</td></tr><tr><td>068</td><td>Current Schedule Ship</td></tr><tr><td>080</td><td>Scheduled for Shipment (After and Including)</td></tr><tr><td>100</td><td>No Shipping Schedule Established as of</td></tr><tr><td colspan="2">Description: <i>This is the default if no schedule shipment information is known at the time of acknowledgement.</i></td></tr><tr><td>169</td><td>Product Availability Date</td></tr><tr><td>175</td><td>Cancel if not shipped by</td></tr></table>							<u>Code</u>	<u>Name</u>	018	Available/Constructive Placement	067	Current Schedule Delivery	068	Current Schedule Ship	080	Scheduled for Shipment (After and Including)	100	No Shipping Schedule Established as of	Description: <i>This is the default if no schedule shipment information is known at the time of acknowledgement.</i>		169	Product Availability Date	175	Cancel if not shipped by
<u>Code</u>	<u>Name</u>																							
018	Available/Constructive Placement																							
067	Current Schedule Delivery																							
068	Current Schedule Ship																							
080	Scheduled for Shipment (After and Including)																							
100	No Shipping Schedule Established as of																							
Description: <i>This is the default if no schedule shipment information is known at the time of acknowledgement.</i>																								
169	Product Availability Date																							
175	Cancel if not shipped by																							
SCH06	373	Date	M	DT	8/8	Required																		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: Date expressed as CCYYMMDD						
* SCH07	337	Time	O	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* SCH08	374	Date/Time Qualifier	C	ID	3/3	Not Used
Description: Code specifying type of date or time, or both date and time						
User: Refer to code list specified in 'SCH05' for usage.						
* SCH09	373	Date	C	DT	6/6	Not Used
Description: Date (YYMMDD)						
* SCH10	337	Time	C	TM	4/8	Not Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
SCH11	326	Request Reference Number	O	AN	1/45	Used
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: When ACK status code is 'Not our Publication', use this field for reference.						
* SCH12	350	Assigned Identification	O	AN	1/20	Not Used
Description: Alphanumeric characters assigned for differentiation within a transaction set						

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 Transaction Totals

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

User Option (Usage): Required
Purpose: To transmit a hash total for a specific element in the transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		Required

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 7

User Option (Usage): Required

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	Required
Description: Total number of line items in the transaction set						
CTT02	347	Hash Total	O	R	1/10	Used
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	C	R	1/10	Not Used
Description: Numeric value of weight						
* CTT04	355	Unit or Basis for Measurement Code	C	ID	2/2	Not Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
* CTT05	183	Volume	C	R	1/8	Not Used
Description: Value of volumetric measure						
* CTT06	355	Unit or Basis for Measurement Code	C	ID	2/2	Not Used
Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
* CTT07	352	Description	O	AN	1/80	Not Used
Description: A free-form description to clarify the related data elements and their content						

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

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	Required
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	Required
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.

Appendix

All Included Elements in All Included Segments

<u>Id</u>	<u>Elements</u>	<u>Used in Segments</u>
C001	Composite Unit of Measure	CTP
19	City Name	N4
26	Country Code	N4
65	Height	PO4
66	Identification Code Qualifier	N1
67	Identification Code	N1
82	Length	PO4
93	Name	N1, N2, PER, SCH
96	Number of Included Segments	SE
98	Entity Identifier Code	CUR, N1, SCH
100	Currency Code	CUR
103	Packaging Code	PO4
116	Postal Code	N4
118	Rate	SAC
127	Reference Identification	REF
128	Reference Identification Qualifier	REF
133	Routing Sequence Code	TD5
143	Transaction Set Identifier Code	ST
156	State or Province Code	N4
166	Address Information	N3
187	Weight Qualifier	PO4
189	Width	PO4
212	Unit Price	CTP, PO1
234	Product/Service ID	ACK, PO1, SI
235	Product/Service ID Qualifier	ACK, PO1
236	Price Identifier Code	CTP
248	Allowance or Charge Indicator	SAC
284	Service Level Code	TD5
324	Purchase Order Number	BAK
326	Request Reference Number	ACK, BAK, SCH
328	Release Number	BAK
329	Transaction Set Control Number	SE, ST
330	Quantity Ordered	PO1
347	Hash Total	CTT
349	Item Description Type	PID
350	Assigned Identification	PO1
352	Description	PID
353	Transaction Set Purpose Code	BAK
354	Number of Line Items	CTT
355	Unit or Basis for Measurement Code	ACK, CTP, PO1, PO4, SAC, SCH
356	Pack	PO4

<u>Id</u>	<u>Elements</u>	<u>Used in Segments</u>
357	Size	PO4
364	Communication Number	PER
365	Communication Number Qualifier	PER
366	Contact Function Code	PER
367	Contract Number	BAK
373	Date	ACK, BAK, DTM, SCH
374	Date/Time Qualifier	ACK, DTM, SCH
380	Quantity	ACK, CTP, SAC, SCH
384	Gross Weight per Pack	PO4
385	Gross Volume per Pack	PO4
387	Routing	TD5
559	Agency Qualifier Code	ACK, CSH, PID, SI
563	Sales Requirement Code	CSH
587	Acknowledgment Type	BAK
610	Amount	SAC
639	Basis of Unit Price Code	PO1
648	Price Multiplier Qualifier	CTP
649	Multiplier	CTP
668	Line Item Status Code	ACK
750	Product/Process Characteristic Code	PID
751	Product Description Code	PID
822	Source Subqualifier	ACK
1000	Service Characteristics Qualifier	SI
1271	Industry Code	ACK
1300	Service, Promotion, Allowance, or Charge Code	SAC