



Electronic Data Interchange

855 – Purchase Order Acknowledgment
(VICS Version - 4010)

March 2011

Powered By:



Purpose

This document provides detailed guidelines and conventions for implementing electronic purchase order acknowledgments with Boscov's Department Stores. Our 855 PO Acknowledgment, as detailed in this document, will provide you with all of the information necessary to fill our requirements.

These guidelines comply with published VICS standards for EDI version 4010 for all data elements and segments.

Mandatory segments and elements are always required on every document. Optional segments and elements that are required by Boscov's Department Stores are marked as "Must Use". Segment usage is marked at the top of each page under Usage. Element usage is marked in the far-left column beside each element. If the column is blank, the element is optional. Information in the Attributes column is from the VICS standards and is provided for reference only. Trading Partners must adhere to our requirements as indicated by "Must Use".

Contacts

Transaction Testing: GXS Inc. 1.877.446.6847 Select Option 2

Production Support: GXS Inc. 1.877.446.6847 Select Option 2

Boscov's Department Stores: ediadmin@boscovs.com

Communication IDs

Production

S/R ID: 01/014492501

Account/User ID: VANS, HAMAIL

VAN: Inovis

Delimiters

Element Separator - “*”

(HEX “2A” in ASCII) (HEX “5C” in EBCDIC)

Component (Sub Element) Separator - “>”

(HEX “3E” in ASCII) (HEX “6E” in EBCDIC)

Segment Terminator - “~”

(HEX “7E” in ASCII) (HEX “A1” in EBCDIC)

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Boscov's Department Stores 855 PO Acknowledgment

Functional Group ID=**PR**

Introduction:

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.

Envelope:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
5-6	010	ISA	Interchange Control Header	M	1		
7	020	GS	Functional Group Header	M	1		

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
8	010	ST	Transaction Set Header	M	1		
10	020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1		
11	050	REF	Reference Identification	O	>1		
12	150	DTM	Date/Time Reference	O	10		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
12-13	010	PO1	Baseline Item Data	O	1		n1
14-15	190	SDQ	Destination Quantity	O	500		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT			1	
16	010	CTT	Transaction Totals	O	1		n2
17	030	SE	Transaction Set Trailer	M	1		

Envelope:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
18	030	GE	Functional Group Trailer	M	1		
19	040	IEA	Interchange Control Trailer	M	1		

Transaction Set Notes

1. PO102 is required.

2. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

Segment: **ISA** Interchange Control Header
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
Must Use	ISA02	I02	Authorization Information Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) " " 10 blank spaces	M AN 10/10
Must Use	ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M ID 2/2
Must Use	ISA04	I04	Security Information This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) " " 10 blank spaces	M AN 10/10
Must Use	ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M AN 15/15
Must Use	ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet)	M ID 2/2
Must Use	ISA08	I07	Interchange Receiver ID Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Boscov's Department Stores ID is "014492501"	M AN 15/15
Must Use	ISA09	I08	Interchange Date Date of the interchange	M DT 6/6
Must Use	ISA10	I09	Interchange Time Time of the interchange	M TM 4/4
Must Use	ISA11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M ID 1/1

Must Use	ISA12	I11	U Interchange Control Version Number This version number covers the interchange control segments 00401	U.S. EDI Community of ASC X12, TDCC, and UCS M ID 5/5 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997
Must Use	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9
Must Use	ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1) 0	M ID 1/1 No Acknowledgment Requested
Must Use	ISA15	I14	Usage Indicator Code to indicate whether data enclosed by this interchange envelope is test, production or information P T	M ID 1/1 Production Data Test Data
Must Use	ISA16	I15	Component Element Separator Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator >	M AN 1/1 The value identified for retail use

Segment:	GS Functional Group Header
Position:	020
Loop:	
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a functional group and to provide control information
Syntax Notes:	
Semantic Notes:	<ol style="list-style-type: none"> 1 GS04 is the group date. 2 GS05 is the group time. 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
Comments:	<ol style="list-style-type: none"> 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets PR Purchase Order Acknowledgement (855)	M ID 2/2
Must Use	GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners	M AN 2/15
Must Use	GS03	124	Application Receiver's Code Code identifying party receiving transmission; codes agreed to by trading partners	M AN 2/15
Must Use	GS04	373	Date Date expressed as CCYYMMDD	M DT 8/8
Must Use	GS05	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M TM 4/8
Must Use	GS06	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9
Must Use	GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	M ID 1/2
Must Use	GS08	480	Version / Release / Industry Identifier Code Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed 004010VICS Draft Standards Approved for Publication by ASC X12 procedures Review Board through October 1997, Version 4, Release 1, the VICS EDI subset	M AN 1/12

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Example:
ST*855*855000706~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 855 Purchase Order Acknowledgment	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.	M AN 4/9

Segment: **BAK** Beginning Segment for Purchase Order Acknowledgment
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes:

- 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.

Comments:

Notes:

When notifying a retailer of a vendor-generated replenishment order, either code 00 or 16 is used in BAK01 and code AP is used in BAK02. When acknowledging a retailer's purchase order, code 00 is used in BAK01 and either code AD or AK is used in BAK02.

When changing a vendor-generated replenishment order, code 05 is used in BAK01 and code AP is used in BAK02. When acknowledging a retailer's purchase order with change, code 19 is used in BAK01 and either code AC or AE is used in BAK02.

When canceling a vendor-generated replenishment order, code 01 is used in BAK01 and code AP is used in BAK02. When acknowledging a retailer's purchase order with a cancellation, code 01 is used in BAK01 and code RJ is used in BAK02.

Example:

BAK*16*AP*078966*20010212~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Must Use</u>	<u>Des.</u>	<u>Element</u>		
	BAK01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			NOTIFICATION: If XQ01, in Transaction Set 852, contains code G, BAK01 will contain code 00.	
			ACKNOWLEDGMENT: This is the original acknowledgment.	
			16 Proposed	
			NOTIFICATION: If XQ01, in Transaction Set 852, contains code F, BAK01 will contain code 16.	
			ACKNOWLEDGMENT: This code is not valid for regular acknowledgments.	
Must Use	BAK02	587	Acknowledgment Type	M ID 2/2
			Code specifying the type of acknowledgment	
			Codes AC, AD, AE, AK and RJ may only be used for acknowledgments to a retailer's purchase order. Code AP may only be used to indicate a vendor-generated replenishment acknowledgment (notification).	
			AP Acknowledge - Product Replenishment	
Must Use	BAK03	324	Purchase Order Number	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			Boscov's 6 digit purchase order number (may use leading zeros).	
			NOTIFICATION: Purchase order numbers are negotiable as part of trading partner relationships and will be pre-assigned.	
Must Use	BAK04	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
			NOTIFICATION: The date the replenished order was created from the suppliers modeling system	

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes: There must be one occurrence of this segment to specify the retailer's department number, if the retailer has department numbers. Additional segments may be used to specify other reference numbers.

Example:
REF*DP*00559~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DP Department Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Boscovs 5 digit Department Number, must use leading zeros	X AN 1/30

Segment: DTM Date/Time Reference

Position: 150
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

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

Semantic Notes:

Comments:

Notes: This segment is used to specify order processing dates.

Example:

DTM*010*20010220~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M ID 3/3
			001 Cancel After If the order has not been shipped by this date, the order is considered canceled	
			010 Requested Ship	
			068 Current Schedule Ship	
			086 Scheduled for Shipment (Week of)	
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8

Segment:	PO1 Baseline Item Data
Position:	010
Loop:	PO1 Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify basic and most frequently used line item data
Syntax Notes:	<ol style="list-style-type: none"> 1 If PO103 is present, then PO102 is required. 2 If PO105 is present, then PO104 is required. 3 If either PO106 or PO107 is present, then the other is required. 4 If either PO108 or PO109 is present, then the other is required. 5 If either PO110 or PO111 is present, then the other is required. 6 If either PO112 or PO113 is present, then the other is required. 7 If either PO114 or PO115 is present, then the other is required. 8 If either PO116 or PO117 is present, then the other is required. 9 If either PO118 or PO119 is present, then the other is required. 10 If either PO120 or PO121 is present, then the other is required. 11 If either PO122 or PO123 is present, then the other is required. 12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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.
Notes:	<p>The codes listed for PO106 apply to every occurrence of Data Element 235 in the PO1 segment.</p> <p>See Section III for complete U.P.C. and EAN code definitions.</p>

Example:

PO1*000001*24*EA*1.77*WE*UP*028448616263~

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	PO102	330 Quantity Ordered	X R 1/15
		Quantity ordered	
Must Use	PO103	355 Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		See Section III for code list.	
		DZ Dozen	
		CA Case	
		EA Each	
		PK Package	
		PR Pair	
Must Use	PO104	212 Unit Price	X R 1/17
		Price per unit of product, service, commodity, etc.	
		The price is sent with a decimal point only when needed, e.g., \$15.95 would be sent as "15.95", and \$29.00 would be sent as "29".	
		To indicate free goods, use a single zero (0) in PO104 and code NC in PO105.	

Must Use	PO105	639	Basis of Unit Price Code	O	ID 2/2
			Code identifying the type of unit price for an item This data element is used to clarify or alter the basis of unit price. The unit price expressed in PO104 is always in the same terms as the unit of measure in PO103, unless otherwise specified in PO105.		
			QT Quoted		
			WE Wholesale Price per Each		
Must Use	PO106	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EN European Article Number (EAN) (2-5-5-1)		
			SZ Vendor Alphanumeric Size Code (NRMA) This is the code assigned by the vendor.		
			UP U.P.C. Consumer Package Code (1-5-5-1)		
			VA Vendor's Style Number		
			VE Vendor Color		
Must Use	PO107	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	PO108	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EN European Article Number (EAN) (2-5-5-1)		
			SZ Vendor Alphanumeric Size Code (NRMA)		
			UP U.P.C. Consumer Package Code (1-5-5-1)		
			VA Vendor's Style Number		
			VE Vendor Color		
	PO109	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	PO110	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EN European Article Number (EAN) (2-5-5-1)		
			SZ Vendor Alphanumeric Size Code (NRMA)		
			UP U.P.C. Consumer Package Code (1-5-5-1)		
			VA Vendor's Style Number		
			VE Vendor Color		
	PO111	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	PO112	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EN European Article Number (EAN) (2-5-5-1)		
			SZ Vendor Alphanumeric Size Code (NRMA)		
			UP U.P.C. Consumer Package Code (1-5-5-1)		
			VA Vendor's Style Number		
			VE Vendor Color		
	PO113	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	PO114	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			EN European Article Number (EAN) (2-5-5-1)		
			SZ Vendor Alphanumeric Size Code (NRMA)		
			UP U.P.C. Consumer Package Code (1-5-5-1)		
			VA Vendor's Style Number		
			VE Vendor Color		
	PO115	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		

Segment:	SDQ Destination Quantity
Position:	190
Loop:	PO1 Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	500
Purpose:	To specify destination and quantity detail
Syntax Notes:	<ol style="list-style-type: none"> 1 If either SDQ05 or SDQ06 is present, then the other is required. 2 If either SDQ07 or SDQ08 is present, then the other is required. 3 If either SDQ09 or SDQ10 is present, then the other is required. 4 If either SDQ11 or SDQ12 is present, then the other is required. 5 If either SDQ13 or SDQ14 is present, then the other is required. 6 If either SDQ15 or SDQ16 is present, then the other is required. 7 If either SDQ17 or SDQ18 is present, then the other is required. 8 If either SDQ19 or SDQ20 is present, then the other is required. 9 If either SDQ21 or SDQ22 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.
Comments:	<ol style="list-style-type: none"> 1 SDQ02 is used only if different than previously defined in the transaction set. 2 SDQ03 is the store number. 3 SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.
Notes:	<p>This segment is used to distribute the line item quantity to various locations. SDQ02 serves the same purpose as N103, and all occurrences of Data Element 67 in this segment function as N104. The SDQ segment functions as an N1 segment containing code BY in N101, that is, the SDQ segment specifies various buying locations. The N1 segment, in the basic order, specifies only one location.</p>

Example:

SDQ*EA*92*00051*12*00052*12~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SDQ01	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list.	M ID 2/2
			EA Each	
Must Use	SDQ02	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	O ID 1/2
Must Use	SDQ03	67	Identification Code Code identifying a party or other code Boscovs 5 digit store number, must use leading zeros	M AN 2/80
Must Use	SDQ04	380	Quantity Numeric value of quantity	M R 1/15
	SDQ05	67	Identification Code Code identifying a party or other code	X AN 2/80
	SDQ06	380	Quantity Numeric value of quantity	X R 1/15
	SDQ07	67	Identification Code Code identifying a party or other code	X AN 2/80
	SDQ08	380	Quantity Numeric value of quantity	X R 1/15
	SDQ09	67	Identification Code	X AN 2/80

SDQ10	380	Code identifying a party or other code Quantity	X	R 1/15
		Numeric value of quantity		
SDQ11	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ12	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ13	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ14	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ15	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ16	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ17	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ18	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ19	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ20	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ21	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
SDQ22	380	Quantity	X	R 1/15
		Numeric value of quantity		

Segment: **CTT** Transaction Totals
Position: 010
Loop: CTT Optional
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example:
 CTT*1~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	Number of Line Items Total number of line items in the transaction set The number of PO1 segments present in the transaction set	M N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

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

Example:

SE*9*855000706~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
Must Use	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This must be the same number as is in the ST segment (ST02) for the transaction set.	M AN 4/9

Segment: **GE** Functional Group Trailer
Position: 030
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: 1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments: 1 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	GE01	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M N0 1/6
Must Use	GE02	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9

Segment: **IEA** Interchange Control Trailer
Position: 040
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange	M N0 1/5
Must Use	IEA02	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9

Example

Sample Purchase Order Acknowledgment Transaction

ST*855*855000706~
BAK*16*AP*078966*20010212~
REF*DP*00559~
DTM*001*20010226~
DTM*010*20010220~
PO1*000001*24*EA*1.77*WE*UP*028448616263~
SDQ*EA*92*00051*12*00052*12~
CTT*1~
SE*9*855000706~