

Boscov's Department Stores

Electronic Data Interchange

850 – Purchase Order
(VICS Version - 4010VICS)

June 2001

Purpose

This document provides detailed guidelines and conventions for implementing electronic purchase orders with Boscov's Department Stores. Our trading partners must comply with these guidelines in order to receive our purchase orders electronically. Our 850 Purchase Order, as detailed in this document, will provide you with all of the information necessary to fill our orders.

These guidelines comply with published VICS standards for EDI version 4010VICS 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".

Business Rules

All product identification information contained in the PO1 segment must be conveyed back in the 856 transactions.

At a minimum, UPC or EAN code will be always be sent in PO1.

Contacts

Compliance Services: Invis 1-877-446-6847 Option 2.

Customer Support: Invis 1-877-446-6847 Option 1, then Option 6.

Boscov's Department Stores: Sandy MacGilvray, 1-610-370-3425

Communication IDs

Testing

S/R ID: ZZ-BOS850

Account/User ID: QRS4/BOS850

VAN: AT&T Global Network Services

Production

S/R ID: 01/014492501

Account/User ID: T121/T121A

VAN: AT&T Global Network Services

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)

Need an EDI Solution?

We have selected Inovis to administer our EDI operations and to enable our trading partners. For those trading partners who do not trade documents electronically, Inovis offers a number of electronic commerce solutions to assist you. Contact Inovis at 1-877-446-6847, Option 4 for more information.

Boscov's Department Stores 850 Purchase Order

Functional Group ID=**PO**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Envelope:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
6-7	010	ISA	Interchange Control Header	M	1		
8	020	GS	Functional Group Header	M	1		

Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
9	010	ST	Transaction Set Header	M	1		
10	020	BEG	Beginning Segment for Purchase Order	M	1		
11	050	REF	Reference Identification	O	>1		
LOOP ID - SAC						25	
12	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
13	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
14	150	DTM	Date/Time Reference - Cancel After	O	10		
15	150	DTM	Date/Time Reference - Ship Not Before	O	10		
16-17	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
LOOP ID - N1						200	
18-19	310	N1	Name	O	1		
20	320	N2	Additional Name Information	O	2		
21	330	N3	Address Information	O	2		
22	340	N4	Geographic Location	O	>1		

Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - PO1						100000	
23-25	010	PO1	Baseline Item Data	M	1		n1
LOOP ID - CTP						>1	
26	040	CTP	Pricing Information	O	1		
27-28	190	SDQ	Destination Quantity	O	500		

Summary:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - CTT			1	
29	010	CTT	Transaction Totals	O	1		n2
30	030	SE	Transaction Set Trailer	M	1		

Envelope:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
31	030	GE	Functional Group Trailer	M	1		
32	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 01 Duns (Dun & Bradstreet)	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 Boscov's Department Stores ID is "014492501"	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 Refer to 004010VICS Data Element Dictionary for acceptable code values.	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	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 U U.S. EDI Community of ASC X12, TDCC, and UCS	M ID 1/1

Must Use	ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments 00401	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 Production Data T Test Data	M ID 1/1
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 PO Purchase Order (850)	M ID 2/2
Must Use	GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners Boscov's ID is "014492501"	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 004010VICSV Draft Standards Approved for Publication by ASC X12 ICS 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*850*850000706~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	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: **BEG** Beginning Segment for Purchase Order
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes: 1 BEG05 is the date assigned by the purchaser to purchase order.

Comments:
Notes:

If BEG02 contains code RL, then BEG04 is required. BEG03 contains the blanket purchase order number which is being released against and BEG04 contains the release number.

Example:

BEG*00*SA*078965**20010112~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	BEG01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
Must Use	BEG02	92	Purchase Order Type Code Code specifying the type of Purchase Order SA Stand-alone Order	M ID 2/2
Must Use	BEG03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Boscov's six-digit purchase order number (may have leading zero)	M AN 1/22
Must Use	BEG05	373	Date Date expressed as CCYYMMDD Retailer's original purchase order date	M DT 8/8

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:

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 Boscov's five-digit Department number (must have leading zeros)	X AN 1/30

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 120
Loop: SAC Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes: 1 At least one of SAC02 or SAC03 is required.
 2 If either SAC03 or SAC04 is present, then the other is required.
Semantic Notes: 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
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.
Notes: There is one segment for each Allowance, Charge, Service, or Promotion being specified. If this segment appears in the header area of the transaction set, the data applies to the entire transaction set. If this segment appears in the detail area of the transaction set, the data applies only to that line item. The data specified in the header area is exclusive of the data specified in the detail area; it is not the sum of the data in the detail area, i.e., allowances or charges.
 SAC03 contains special service requirement codes and special processing codes. This code list is maintained by the VICS EDI SMC and is located in Section III of this guideline.

Example:

SAC*N**VI*MO*****BOSCOV'S~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified N No Allowance or Charge	M ID 1/1
	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI	X ID 2/2
	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge See Section III for code list. GC Gift Card GW Gift Wrap MO Monogram	X AN 1/10
	SAC15	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

- Segment:** **ITD** Terms of Sale/Deferred Terms of Sale
- Position:** 130
- Loop:**
- Level:** Heading
- Usage:** Optional
- Max Use:** >1
- Purpose:** To specify terms of sale
- Syntax Notes:**
- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
 - 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
 - 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
- Semantic Notes:**
- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
- Comments:**
- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
- Notes:**

This segment may be used in the header area or the detail area, but not both.

See Section V (ITD Terms Specification and Formulas) for usage examples.

In the transitional period for the retail industry, from paper to full automated EDI transactions, there may be a perceived need to send text data with the terms. Clearly the goal is to have the entire retail industry participating in EDI. Therefore, if text data is needed to be sent for terms, ITD12 will contain the free form text. If additional text is needed, additional ITD segments will be used.

In the transitional period for the retail industry, from paper to full automated EDI transactions, there may be a perceived need to send text data with the terms. Clearly the goal is to have the entire retail industry participating in EDI. Therefore, if text data is needed to be sent for terms, ITD12 will contain the free form text. If additional text is needed, additional ITD segments will be used.

Example:
ITD***2.5**5~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2".	O R 1/6
ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned The end of the term period is derived by adding this value to the beginning of the term period, as qualified by ITD02.	X N0 1/3

Segment: **DTM** Date/Time Reference - Cancel After
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*001*20010206~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 001 Cancel After If the order has not been shipped by this date, the order is considered canceled	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8

Segment: **DTM** Date/Time Reference - Ship Not Before
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*037*20010201~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 037 Ship Not Before If the retailer allows shipment before the requested ship date, this is the earliest date shipping can occur	M ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8

Segment:	TD5 Carrier Details (Routing Sequence/Transit Time)
Position:	240
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 If TD515 is present, then TD512 is required.
Semantic Notes:	1 TD515 is the country where the service is to be performed.
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.
Notes:	This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502, and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2, and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.

Example:

TD5**2*FDEX*****09~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	X ID 1/2
Must Use	TD503	67	Identification Code Code identifying a party or other code	X AN 2/80
Must Use	TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier 09 Premium Surface Indicates that alternate routing instructions should be used instead of the regular ones given ET Proof of Delivery (POD) with Signature ND Next Day Air Delivery during business day hours of next business day NH Next Day Hundred Weight PB Priority Mail Can consist of any mail matter (including regular First-Class mail) weighing eleven ounces or less and marked Priority Mail for which the mailer chooses to pay the minimum Priority Mail rate for unguaranteed two-day service among major cities and three-day service everywhere else; First-Class mail weighing more than	X ID 2/2

eleven ounces automatically becomes Priority Mail and must be marked as such

- PI Priority Mail Insured
Fees in addition to the Priority Mail rate for single pieces of Third- or Fourth-Class Mail or Third- or Fourth Class matter mailed at the Priority Mail rate; sealed articles must be endorsed "Third-Class Mail Enclosed" or "Fourth-Class Mail Enclosed" in addition to the Priority Mail endorsement
- SC Second Day Air
Delivery during business day hours no later than second business day
- SH Second Day Hundred Weight
- SI Standard Ground Hundred Weight

Segment:	N1 Name
Position:	310
Loop:	N1 Optional
Level:	Heading
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 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.
Notes:	<p>This segment is used to identify the retailer's location as it pertains to the order. Every purchase order must contain the identity of the buying party (purchaser). This is accomplished in one of two ways depending on the type of purchase order, Basic or Spreadsheet. BASIC There will be at least one occurrence of the N1 segment to specify the buying party by using code BY in N101. It is assumed that, for a particular buying location, the vendor has the ship to and bill to in their system, therefore, it need not be sent. Use the ship to if there are multiple ship-to locations for the buying location. SPREADSHEET The SDQ segment specifies the retailer's buying locations. Therefore, code BY is not used in the N1 segment for the spreadsheet purchase order. It is assumed the vendor has the bill to and ship to for all of the retailer's buying locations. Therefore, this segment is normally not used. If either the bill-to or ship-to locations are to be overridden, this segment is used to specify those locations. Only one iteration of each of the bill to or ship to overrides is allowed. CAUTION, this will override every bill to or ship to for every buying location in the SDQ segment(s). For example, when the customer is instructing the supplier to package goods for cross-docking, one iteration of the N1 segment, with N101 containing code ST, may be used to indicate the ship-to location. The ship-to location overrides the ship-to locations that are normally associated with the buying parties identified in the SDQ segment(s).</p> <p>N103 and N104 are required except when N101 contains code CT, MA or OB.</p> <p>When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.;</p> <p>In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR, N103 will contain code 93, and N104 will contain the actual identification number. To identify the receiver of the transaction set, N101 will contain code TO, N103 will contain code 94, and N104 will contain the actual identification number. These four codes may be used only in the combination listed above and may be used only to identify the sender and/or receiver of the transaction set.</p>

Example:

N1*ST*BOSCOV'S DISTRIBUTION CTR*92*00015~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To	M ID 2/3
Must Use	N102	93	Name Free-form name	X AN 1/60
Must Use	N103	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 Only present for direct to DC shipments	X ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code Boscov's five-digit Store number (may have leading zeros) 12345 Boscov's five character store number	X AN 2/80

Segment: **N2** Additional Name Information
Position: 320
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Example:
N2*OF READING~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N201	93	Name Free-form name	M AN 1/60
	N202	93	Name Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 330
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Example:

N3*NEVERSINK RD~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 340
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
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.

Example:

N4*READING*PA*19606~

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	N401	19 City Name Free-form text for city name	O AN 2/30
Must Use	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15

Segment:	PO1 Baseline Item Data
Position:	010
Loop:	PO1 Mandatory
Level:	Detail
Usage:	Mandatory
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.
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Notes:

The multi-SKU case pack is used by retailers to order cases packed with specific items, each with a specific quantity. This is similar to the dynamic assortment, however, the unit of measurement code in PO103 is different for each use. For dynamic assortments, PO103 will contain code AS. This identifies the item listed in the Product/Service IDs as an assortment and the contents of the assortment are listed in subsequent SLN segments. For assortments, at least one occurrence of the Product/Service ID Qualifier and the Product/Service ID are required to identify the assortment. This may be a U.P.C., a vendor assigned number, or a retailer assigned number. There is no implication of packaging for assortments; this is part of the trading partners' business practices. Assortments are primarily used as an ordering tool. For the multi-SKU case pack, PO103 will contain code CA, and there is no requirement to send a Product/Service ID in the PO1 segment. The use of code CA in PO103, and the presence of the SLN segments, informs the receiver to pack the cases with the SKUs and quantities in the SLN segments. The quantity in PO102 is the number of cases being ordered. Each SLN segment, that follows the PO1 segment, lists the Product ID, e.g., U.P.C., and the quantity of the SKU that is to be in the case. The total units in each case is the sum of the quantities in the SLN segment.

The codes listed for PO106 apply to every occurrence of Data Element 235 in the PO1 segment.

See Section III for complete U.P.C. and EAN code definitions.

Example:

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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	PO101	350	Assigned Identification	O AN 1/20
Must Use	PO102	330	Quantity Ordered Quantity ordered	X R 1/15
Must Use	PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in	O ID 2/2

			which a measurement has been taken	
			See Section III for code list.	
			EA Each	
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.	
			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)	
			CM National Retail Merchants Association Color Code	
			This is the three digit NRF code.	
			EN European Article Number (EAN) (2-5-5-1)	
			SM National Retail Merchants Association Size Code	
			This is the five digit NRF code.	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VA Vendor's Style Number	
			VC Vendor's (Seller's) Catalog Number	
			This code will be deleted after Version 004010VICS.	
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)	
			CM National Retail Merchants Association Color Code	
			EN European Article Number (EAN) (2-5-5-1)	
			SM National Retail Merchants Association Size Code	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VA Vendor's Style Number	
			VC Vendor's (Seller's) Catalog Number	
	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)	
			CM National Retail Merchants Association Color Code	
			EN European Article Number (EAN) (2-5-5-1)	
			SM National Retail Merchants Association Size Code	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VA Vendor's Style Number	
			VC Vendor's (Seller's) Catalog Number	
	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)	
			CM National Retail Merchants Association Color Code	
			EN European Article Number (EAN) (2-5-5-1)	
			SM National Retail Merchants Association Size Code	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VA Vendor's Style Number	
			VC Vendor's (Seller's) Catalog Number	

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)		
		CM National Retail Merchants Association Color Code		
		EN European Article Number (EAN) (2-5-5-1)		
		SM National Retail Merchants Association Size Code		
		UP U.P.C. Consumer Package Code (1-5-5-1)		
		VA Vendor's Style Number		
		VC Vendor's (Seller's) Catalog Number		
PO115	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
PO116	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		CM National Retail Merchants Association Color Code		
		EN European Article Number (EAN) (2-5-5-1)		
		SM National Retail Merchants Association Size Code		
		UP U.P.C. Consumer Package Code (1-5-5-1)		
		VA Vendor's Style Number		
		VC Vendor's (Seller's) Catalog Number		
PO117	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
PO118	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Refer to 004010VICSVICS Data Element Dictionary for acceptable code values.		
PO119	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
PO120	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Refer to 004010VICSVICS Data Element Dictionary for acceptable code values.		
PO121	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		

- Segment:** **CTP Pricing Information**
- Position:** 040
- Loop:** CTP Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify pricing information
- Syntax Notes:**
- 1 If either CTP04 or CTP05 is present, then the other is required.
 - 2 If CTP06 is present, then CTP07 is required.
 - 3 If CTP09 is present, then CTP02 is required.
 - 4 If CTP10 is present, then CTP02 is required.
 - 5 If CTP11 is present, then CTP03 is required.
- Semantic Notes:**
- 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. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.
- Note:** Only required if vendor requires for retail ticketing.

Example:
CTP*RS*RES*3.99~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	CTP01	687	Class of Trade Code Code indicating class of trade RS Resale	O ID 2/2
Must Use	CTP02	236	Price Identifier Code Code identifying pricing specification RES Resale Retail price	X ID 3/3
Must Use	CTP03	212	Unit Price 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".	X R 1/17

Segment:	SDQ Destination Quantity
Position:	190
Loop:	PO1 Mandatory
Level:	Detail
Usage:	Mandatory(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. The sum of all quantities in the SDQ segment(s), for a line item, must equal the quantity ordered in PO102.</p>

Example:

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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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 Boscov's five character Store number (must have 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 Boscov's five character Store number (must have leading zeros)	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 Boscov's five character Store number (must have leading zeros)	X AN 2/80
	SDQ08	380	Quantity	X R 1/15

		Numeric value of quantity		
SDQ09	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
		Boscov's five character Store number (may have leading zeros)		
SDQ10	380	Quantity	X	R 1/15
		Numeric value of quantity		
SDQ11	67	Identification Code	X	AN 2/80
		Code identifying a party or other code		
		Boscov's five character Store number (may have leading zeros)		
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		
		Boscov's five character Store number (may have leading zeros)		
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		
		Boscov's five character Store number (may have leading zeros)		
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		
		Boscov's five character Store number (may have leading zeros)		
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		
		Boscov's five character Store number (may have leading zeros)		
SDQ20	380	Quantity	X	R 1/15
		Numeric value of quantity		

Segment: **CTT** Transaction Totals
Position: 010
Loop: CTT Optional
Level: Summary
Usage: Mandatory(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	M NO 1/6
			Total number of line items in the transaction set	
			The number of PO1 segments present in the transaction set	

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*24*850000706~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 Transaction

ST*850*850000706~
BEG*00*SA*078965**20010112~
REF*DP*00559~
SAC*N**VI*MO*****BOSCOV'S~
ITD***5.0**5~
DTM*001*20010206~
DTM*037*20010201~
TD5**2*FDEX*****09~
N1*ST*BOSCOV'S DISTRIBUTION CTR*92*00015~
N2*OF READING~
N3*NEVERSINK RD~
N4*READING*PA*19606~
PO1*000001*24*EA*1.77*WE*UP*028448616263~
CTP*RS*RES*3.99~
SDQ*EA*92*00051*12*00052*12~
CTT*1~
SE*24*850000706~