

852 Product Activity Data

Introduction

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail industry implementation of the Product Activity Data Transaction Set.

The purpose of the Product Activity Data Transaction Set (852) within the retail industry is to report inventory counts and changes to that inventory at predetermined intervals. The most common change to inventory is sales by the retailer to the customer. However, other changes to inventory such as inter-store transfers, return of sold merchandise to inventory, returns to the supplier from inventory, and shrinkage, can also be communicated.

This data is primarily used to support a supplier managed stock replenishment program (stock modeling) or to provide input to a sales analysis and forecasting systems.

In addition to inventory counts and units sold, other data may be sent that is pertinent to the analysis being performed by the receiver. Total dollar volume for sales may be reported in the same manner as quantities by using a unit of measure for dollars. Prices associated with the SKU are specified in the CTP segment(s). These prices include retail price, promotional price, cost price, etc. If an item is sold at different prices during the reporting period, the activity may be grouped by selling price and the quantities at each price can be specified for multiple locations by utilizing the SDQ segments.

ASC X12

852 Product Activity Data

FUNCTIONAL GROUP ID = **PD**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Activity Data Transaction Set (852) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to advise a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets.

The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

Following this complete VICS convention and implementation guideline, find the profile describing the use of this transaction set for Canada.

Header

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
967	0100	ST	Transaction Set Header	M	1	
968	0200	XQ	Reporting Date/Action	M	1	
969	0300	XPO	Preassigned Purchase Order Numbers	O	>1	
970	0400	N9	Reference Identification	O	>1	
971	0500	PER	Administrative Communications Contact	O	3	
LOOP ID - N1						200
972	0600	N1	Name	O	1	
974	0700	N2	Additional Name Information	O	1	
975	0800	N3	Address Information	O	2	
976	0900	N4	Geographic Location	O	1	
977	1000	FOB	F.O.B. Related Instructions	O	1	
979	1100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1	
982	1200	DTM	Date/Time Reference	O	>1	
N/U	1300	N9	Reference Identification	O	>1	
983	1400	PER	Administrative Communications Contact	O	3	

Detail

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - LIN						999999
984	0100	LIN	Item Identification	O	1	
988	0200	CTP	Pricing Information	O	25	
N/U	0250	SAC	Service, Promotion, Allowance, or Charge Information	O	>1	
990	0300	PO4	Item Physical Details	O	1	
N/U	0400	N9	Reference Identification	O	>1	
993	0500	AMT	Monetary Amount	O	10	
N/U	0600	PAL	Pallet Information	O	1	

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N/U	0700	QTY	Quantity	O	1	
						LOOP ID - LIN/ZA
994	0800	ZA	Product Activity Reporting	M	1	>1
N/U	0900	QTY	Quantity	O	1	
997	1000	CTP	Pricing Information	O	25	
999	1100	SDQ	Destination Quantity	O	>1	
						LOOP ID - LIN/ZA/G95
1001	1200	G95	Performance Requirements	O	1	1
1004	1300	DTM	Date/Time Reference	O	2	

Summary

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1005	0100	CTT	Transaction Totals	O	1	
1006	0200	SE	Transaction Set Trailer	M	1	

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Header

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
967	0100	ST	Transaction Set Header	M	1	
968	0200	XQ	Reporting Date/Action	M	1	
969	0300	XPO	Preassigned Purchase Order Numbers	O	>1	
970	0400	N9	Reference Identification	O	>1	
971	0500	PER	Administrative Communications Contact	O	3	
LOOP ID - N1						200
972	0600	N1	Name	O	1	
974	0700	N2	Additional Name Information	O	1	
975	0800	N3	Address Information	O	2	
976	0900	N4	Geographic Location	O	1	
977	1000	FOB	F.O.B. Related Instructions	O	1	
979	1100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1	
982	1200	DTM	Date/Time Reference	O	>1	
983	1400	PER	Administrative Communications Contact	O	3	

Detail

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - LIN						999999
984	0100	LIN	Item Identification	O	1	
988	0200	CTP	Pricing Information	O	25	
990	0300	PO4	Item Physical Details	O	1	
993	0500	AMT	Monetary Amount	O	10	
LOOP ID - LIN/ZA						>1
994	0800	ZA	Product Activity Reporting	M	1	
997	1000	CTP	Pricing Information	O	25	
999	1100	SDQ	Destination Quantity	O	>1	
LOOP ID - LIN/ZA/G95						1
1001	1200	G95	Performance Requirements	O	1	
1004	1300	DTM	Date/Time Reference	O	2	

Summary

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1005	0100	CTT	Transaction Totals	O	1	
1006	0200	SE	Transaction Set Trailer	M	1	

Transaction Set Notes:

- 1/0600** The reporting location is required. The reporting location is specified explicitly in the N1 segment using the code RL in N101, or implicitly using the SDQ segment (Table 2) with the location data elements. They are mutually exclusive (the SDQ and the N1 with N101 containing RL).
- 2/0800** The quantity for the item identified in the LIN segment is required. Quantity is specified either in the ZA segment (ZA02) or in the SDQ segment.
- 2/0900** The QTY segment in the ZA loop is only used to provide the number of orders associated with the quantity in the ZA segment, or the total of quantities in the SDQ segments for the activity. The only allowable code value is OC = Order Count.
- 3/0100** The number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction set.
- 3/0100** When sending item and activity data in the LIN loop, the CTT segment is required.

Segment: ST Transaction Set Header

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number

- Semantic:**
- 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).
 - 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 852 Product Activity Data	M ID 3/3
➤ 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
ST03	1705	Implementation Convention Reference Reference assigned to identify Implementation Convention NOT USED BY THE RETAIL INDUSTRY	O AN 1/35

Segment: **XQ** Reporting Date/Action

Level: Header

Loop: ___

Usage: Mandatory

Max Use: 1

Purpose: To specify reporting date and action to be taken

Semantic: 1 XQ02 is the reporting date. If reporting a date range, then XQ02 is the start date and XQ03 is the end date.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ XQ01	305	Transaction Handling Code Code designating the action to be taken by all parties	M ID 1/2
		Use of code F or G requires the supplier to advise the distributor/warehouse of replenishment quantity usually via Transaction Set 855 or Transaction Set 856.	
		F Plan and Submit Suggested Purchase Order(s)	
		G Plan Order(s) and Ship Product	
		H Notification Only	
➤ XQ02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M DT 8/8
XQ03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O DT 8/8

Segment: XPO Preassigned Purchase Order Numbers

Level: Header

Loop: ___

Usage: Optional

Max Use: >1

Purpose: To transmit preassigned purchase order numbers

Syntax: 1 **P0304**

If either XPO03 or XPO04 is present, then the other is required.

Semantic: 1 XPO01 is the preassigned purchase order number. If a range of purchase order numbers is to be transmitted, use XPO01 for the first number and XPO02 as the ending number.

Comments: A XPO03 and XPO04 specify the location to which the purchase order numbers apply.

Notes: This segment is used only when purchase order number assignment has not previously been established by trading partners.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
XPO01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
XPO02	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	O AN 1/22
XPO03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	C ID 1/2
		1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document.	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document.	
		21 Health Industry Number (HIN) See External Code Source 121 in Section III for reference document.	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
		UL UCC/EAN Location Code See External Code Source 583 in Section III for reference document.	
XPO04	67	Identification Code Code identifying a party or other code This is the location code as defined by XPO03. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.	C AN 2/80

Segment: N9 Reference Identification

Level: Header

Loop: ___

Usage: Optional

Max Use: >1

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

Syntax: 1 R0203
At least one of N902 or N903 is required.

2 C0605
If N906 is present, then N905 is required.

Semantic: 1 N906 reflects the time zone which the time reflects.

2 N907 contains data relating to the value cited in N902.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	
➤	N901	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification		
		BT Batch Number		
		DP Department Number		
		IA Internal Vendor Number		
		Identification number assigned to the vendor, by the retailer, for use within the retailer's system		
		MR Merchandise Type Code		
		PD Promotion/Deal Number		
		SB Sales Region Number		
➤	N902	127	Reference Identification	C AN 1/50
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	N903	369	Free-form Description	C AN 1/45
		Free-form descriptive text		
		NOT USED BY THE RETAIL INDUSTRY		
	N904	373	Date	O DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year		
		NOT USED BY THE RETAIL INDUSTRY		
	N905	337	Time	C TM 4/8
		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)		
		NOT USED BY THE RETAIL INDUSTRY		
	N906	623	Time Code	O ID 2/2
		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		
		NOT USED BY THE RETAIL INDUSTRY		
	N907	C040	REFERENCE IDENTIFIER	O COMPOSITE
		To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
		NOT USED BY THE RETAIL INDUSTRY		

Segment: PER Administrative Communications Contact

Level: Header

Loop: ____

Usage: Optional

Max Use: 3

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

Syntax: 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.

Notes: This segment is used only when contacts have not been previously established or a unique situation exists.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department SU Supplier Contact	M ID 2/2
PER02	93	Name Free-form name	O AN 1/60
PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER06	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER08	364	Communication Number Complete communications number including country or area code when applicable NOT USED BY THE RETAIL INDUSTRY	C AN 1/256
PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number NOT USED BY THE RETAIL INDUSTRY	O AN 1/20

Segment: N1 Name

Level: Header

Loop: N1 **Usage:** Optional **Max Use:** 200

Usage: Mandatory

Max Use: 1

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

Syntax: 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: A 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.

B N105 and N106 further define the type of entity in N101.

Notes: This segment is used to identify the retailer's location as it pertains to product activity data and must contain the identity of each organizational entity or a physical location. This is accomplished in one of two ways:

BASIC

There will be at least one occurrence of this segment that specifies the retailers buying/reporting location. If XQ01 contains code G, it is assumed that, for a particular buying location, the vendor has the bill to and ship to in the system.

SPREADSHEET

The SDQ segment specifies the retailer's buying/reporting locations. Therefore, codes BY and RL are not used in the N1 segment for the spreadsheet product activity.

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. To identify the receiver of the transaction set, N101 will contain code TO.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BS Bill and Ship To BT Bill-to-Party BY Buying Party (Purchaser) FR Message From RL Reporting Location ST Ship To TO Message To	M ID 2/3
	N102	Name Free-form name	C AN 1/60
➤	N103	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document.	C ID 1/2

- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
See External Code Source 16 in Section III for reference document.
- 14 UCC/EAN Location Code Prefix
This code may be used only if the UCC/EAN Location Code Suffix is being used in the SDQ segment(s).
See External Code Source 583 in Section III for reference document.
- 21 Health Industry Number (HIN)
See External Code Source 121 in Section III for reference document.
- 91 Assigned by Seller or Seller's Agent
- 92 Assigned by Buyer or Buyer's Agent
- 93 Code assigned by the organization originating the transaction set
- 94 Code assigned by the organization that is the ultimate destination of the transaction set
- UL UCC/EAN Location Code
See External Code Source 583 in Section III for reference document.



N104	67	Identification Code Code identifying a party or other code This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.	C AN 2/80
N105	706	Entity Relationship Code Code describing entity relationship NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual NOT USED BY THE RETAIL INDUSTRY	O ID 2/3

Segment: N2 Additional Name Information

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

Purpose: To specify additional names

Notes: This segment is normally not used in this transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N201	93	Name Free-form name	M	AN	1/60
N202	93	Name Free-form name	O	AN	1/60

Segment: N3 Address Information

Level: Header

Loop: N1

Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Notes: This segment is normally not used in this transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N301	166	Address Information Address information	M AN 1/55
N302	166	Address Information Address information	O AN 1/55

Segment: N4 Geographic Location

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 1 **E0207**

Only one of N402 or N407 may be present.

2 **C0605**

If N406 is present, then N405 is required.

3 **C0704**

If N407 is present, then N404 is required.

Comments: A A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

B N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: This segment is normally not used in this transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	C ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
See External Code Source 51 in Section III for reference document.			
N404	26	Country Code Code identifying the country	C ID 2/3
See External Code Source 5 in Section III for reference document.			
N405	309	Location Qualifier Code identifying type of location	C ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
N406	310	Location Identifier Code which identifies a specific location	O AN 1/30
NOT USED BY THE RETAIL INDUSTRY			
N407	1715	Country Subdivision Code Code identifying the country subdivision	C ID 1/3
NOT USED BY THE RETAIL INDUSTRY			

Segment: **FOB** F.O.B. Related Instructions
Level: Header
Loop: N1
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax: 1 **C0302**
 If FOB03 is present, then FOB02 is required.
 2 **C0405**
 If FOB04 is present, then FOB05 is required.
 3 **C0706**
 If FOB07 is present, then FOB06 is required.
 4 **C0809**
 If FOB08 is present, then FOB09 is required.
Semantic: 1 FOB01 indicates which party will pay the carrier.
 2 FOB02 is the code specifying transportation responsibility location.
 3 FOB06 is the code specifying the title passage location.
 4 FOB08 is the code specifying the point at which the risk of loss transfers.
 This may be different than the location specified in FOB02/FOB03 and
 FOB06/FOB07.

Notes: This segment is used to specify the shipment method of payment, if other than normal business practice.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
▶ FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect CF Collect, Freight Credited Back to Customer DF Defined by Buyer and Seller MX Mixed PC Prepaid but Charged to Customer PO Prepaid Only PP Prepaid (by Seller)	M ID 2/2
FOB02	309	Location Qualifier Code identifying type of location NOT USED BY THE RETAIL INDUSTRY	C ID 1/2
FOB03	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	O AN 1/80
FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility NOT USED BY THE RETAIL INDUSTRY	C ID 3/3
FOB06	309	Location Qualifier Code identifying type of location NOT USED BY THE RETAIL INDUSTRY	C ID 1/2
FOB07	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	O AN 1/80

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FOB08	54	Risk of Loss Code Code specifying where responsibility for risk of loss passes	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
FOB09	352	Description A free-form description to clarify the related data elements and their content	C	AN	1/80
NOT USED BY THE RETAIL INDUSTRY					

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

Purpose: To specify the carrier and sequence of routing and provide transit time information

Syntax: 1 R0204050612

At least one of TD502, TD504, TD505, TD506 or TD512 is required.

2 C0203

If TD502 is present, then TD503 is required.

3 C0708

If TD507 is present, then TD508 is required.

4 C1011

If TD510 is present, then TD511 is required.

5 C1312

If TD513 is present, then TD512 is required.

6 C1413

If TD514 is present, then TD513 is required.

7 C1512

If TD515 is present, then TD512 is required.

Semantic: 1 TD515 is the country where the service is to be performed.

Comments: A 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: TD501 through TD505 are the elements used in this transaction when deemed necessary by trading partners, due to requested use of other than normal carrier, routing, etc.

To identify a specific private parcel service provider, TD502 will contain code 2 and TD503 will contain the corresponding SCAC.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		1 1st Carrier after Origin Carrier	
		2 2nd Carrier after Origin Carrier	
		3 3rd Carrier after Origin Carrier	
		4 4th Carrier after Origin Carrier	
		5 5th Carrier after Origin Carrier	
		6 6th Carrier after Origin Carrier	
		7 7th Carrier after Origin Carrier	
		8 8th Carrier after Origin Carrier	
		9 9th Carrier after Origin Carrier	
		A Origin Carrier, Agent's Routing (Rail)	
		B Origin/Delivery Carrier (Any Mode)	
		O Origin Carrier (Air, Motor, or Ocean)	
		S Origin Carrier, Shipper's Routing (Rail)	

TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC) See External Code Source 17 in Section III for reference document. 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2
TD503	67	Identification Code Code identifying a party or other code	C	AN	2/80
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air AE Air Express BU Bus C Consolidation CE Customer Pickup / Customer's Expense D Parcel Post E Expedited Truck H Customer Pickup L Contract Carrier M Motor (Common Carrier) R Rail S Ocean T Best Way (Shippers Option) U Private Parcel Service	C	ID	1/2
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35
TD506	368	Shipment/Order Status Code 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 NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2
TD507	309	Location Qualifier Code identifying type of location NOT USED BY THE RETAIL INDUSTRY	O	ID	1/2
TD508	310	Location Identifier Code which identifies a specific location NOT USED BY THE RETAIL INDUSTRY	C	AN	1/30
TD509	731	Transit Direction Code The point of origin and point of direction NOT USED BY THE RETAIL INDUSTRY	O	ID	2/2
TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time NOT USED BY THE RETAIL INDUSTRY	O	ID	2/2
TD511	733	Transit Time The numeric amount of transit time NOT USED BY THE RETAIL INDUSTRY	C	R	1/4
TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2

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TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
TD514	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	O ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
TD515	26	Country Code Code identifying the country	O ID 2/3
NOT USED BY THE RETAIL INDUSTRY			

Segment: DTM Date/Time Reference

Level: Header

Loop: N1

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

If either DTM05 or DTM06 is present, then the other is required.

Notes: This segment is used to provide specific processing dates.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
▶ DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 001 Cancel After 002 Delivery Requested 010 Requested Ship 097 Transaction Creation This is the date the 852 was created.	M ID 3/3
▶ DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
DTM03	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) NOT USED BY THE RETAIL INDUSTRY	C TM 4/8
DTM04	623	Time Code 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 NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY	C ID 2/3
DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY	C AN 1/35

Segment: PER Administrative Communications Contact

Level: Header

Loop: N1

Usage: Optional

Max Use: 3

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

Syntax: 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.

Notes: This segment is used only when contacts have not been previously established or a unique situation exists.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department SU Supplier Contact	M ID 2/2
PER02	93	Name Free-form name	O AN 1/60
PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER06	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER08	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number NOT USED BY THE RETAIL INDUSTRY	O AN 1/20

Segment: **LIN** Item Identification

Level: Detail

Loop: LIN **Usage:** Optional **Max Use:** 999999

Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

Syntax: 1 **P0405**

If either LIN04 or LIN05 is present, then the other is required.

2 **P0607**

If either LIN06 or LIN07 is present, then the other is required.

3 **P0809**

If either LIN08 or LIN09 is present, then the other is required.

4 **P1011**

If either LIN10 or LIN11 is present, then the other is required.

5 **P1213**

If either LIN12 or LIN13 is present, then the other is required.

6 **P1415**

If either LIN14 or LIN15 is present, then the other is required.

7 **P1617**

If either LIN16 or LIN17 is present, then the other is required.

8 **P1819**

If either LIN18 or LIN19 is present, then the other is required.

9 **P2021**

If either LIN20 or LIN21 is present, then the other is required.

10 **P2223**

If either LIN22 or LIN23 is present, then the other is required.

11 **P2425**

If either LIN24 or LIN25 is present, then the other is required.

12 **P2627**

If either LIN26 or LIN27 is present, then the other is required.

13 **P2829**

If either LIN28 or LIN29 is present, then the other is required.

14 **P3031**

If either LIN30 or LIN31 is present, then the other is required.

Semantic: 1 LIN01 is the line item identification

Comments: A See the Data Dictionary for a complete list of IDs.

B LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M ID 2/2

AG Age

Used only by the alcohol beverage industry

BL	Brand/Label Used only by the alcohol beverage industry
BO	Buyers Color
BV	Beverage Common Code Used only by the alcohol beverage industry See External Code Source 467 in Section III for reference document.
CG	Commodity Grouping Coordinates
CM	National Retail Federation Color Code This is the three digit NRF code. See External Code Source 88 in Section III for reference document.
CN	Commodity Name Used only by the alcohol beverage industry
EN	EAN/UCC - 13
IB	International Standard Book Number (ISBN)
IN	Buyer's Item Number
IT	Buyer's Style Number
IZ	Buyer's Size Code
LT	Lot Number
SM	National Retail Federation Size Code This is the five digit NRF code. See External Code Source 88 in Section III for reference document.
SZ	Vendor Alphanumeric Size Code This is the code assigned by the vendor.
UA	U.P.C./EAN Case Code (2-5-5) See External Code Source 41 in Section III for reference document.
UB	U.P.C./EAN Multipack Code See External Code Source 41 in Section III for reference document.
UC	U.P.C. Suffix (Defines Packing Variations) See External Code Source 41 in Section III for reference document.
UE	U.P.C./EAN Module Code (2-5-5) See External Code Source 41 in Section III for reference document.
UG	Drug U.P.C. Consumer Package Code (1-4-6-1) See External Code Source 136 in Section III for reference document.
UH	Drug U.P.C. Shipping Container Code (1-2-4-6-1) See External Code Source 137 in Section III for reference document.
UI	U.P.C. Consumer Package Code (1-5-5) See External Code Source 41 in Section III for reference document.
UK	EAN/UCC - 14 See External Code Source 41 in Section III for reference document.
UN	U.P.C. Case Code Number (1-1-5-5)
UP	UCC - 12 See External Code Source 41 in Section III for reference document.
VA	Vendor's Style Number
VE	Vendor Color

VN Vendor's (Seller's) Item Number

VT Vintage

Used only by the alcohol beverage industry

➤	LIN03	234	Product/Service ID Identifying number for a product or service	M AN	1/48
	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN05	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN07	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN09	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN11	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN13	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN15	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN17	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN19	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN21	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	LIN23	234	Product/Service ID Identifying number for a product or service	C AN	1/48

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LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
LIN25	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
LIN27	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
LIN29	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
LIN31	234	Product/Service ID Identifying number for a product or service	C	AN	1/48

Segment: CTP Pricing Information

Level: Detail

Loop: LIN

Usage: Optional

Max Use: 25

Purpose: To specify pricing information

Syntax: 1 **P0405**

If either CTP04 or CTP05 is present, then the other is required.

2 **C0607**

If CTP06 is present, then CTP07 is required.

3 **C0902**

If CTP09 is present, then CTP02 is required.

4 **C1002**

If CTP10 is present, then CTP02 is required.

5 **C1103**

If CTP11 is present, then CTP03 is required.

Semantic: 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: A See Figures Appendix for an example detailing the use of CTP03 and CTP04.

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

Notes: The prices specified in this segment, in the LIN loop, apply to all quantities in the ZA or SDQ segments.

This segment is used to report prices associated with the item and activity. It is not used to report total dollar values. This segment can also be used to further define quantity sold/quantity on order within the associated ZA loop by sales type (i.e., promotion/event sales, clearance/markdown sales, non-promotion/non-markdown sales).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTP01	687	Class of Trade Code Code indicating class of trade AG Agent BG Buying Group DE Dealer DI Distributor RS Resale WH Wholesaler	O ID 2/2
▶ CTP02	236	Price Identifier Code Code identifying pricing specification ALT Alternate Price CAT Catalog Price CDV Current Domestic Value Retail price of last item sold during the reporting period (last selling price) MSR Manufacturer's Suggested Retail PRP Promotional price Promotion/Event RTL Retail UCP Unit cost price	C ID 3/3

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		Item list cost		
▶	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".	C R 1/17
	CTP04	380	Quantity Numeric value of quantity NOT USED BY THE RETAIL INDUSTRY	C R 1/15
	CTP05	C001	COMPOSITE UNIT OF MEASURE To identify a composite unit of measure (See Figures Appendix for examples of use) NOT USED BY THE RETAIL INDUSTRY	C COMPOSITE
	CTP06	648	Price Multiplier Qualifier Code indicating the type of price multiplier NOT USED BY THE RETAIL INDUSTRY	O ID 3/3
	CTP07	649	Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY	C R 1/10
	CTP08	782	Monetary Amount Monetary amount NOT USED BY THE RETAIL INDUSTRY	O R 1/18
	CTP09	639	Basis of Unit Price Code Code identifying the type of unit price for an item NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
	CTP10	499	Condition Value Identifies rate restrictions or provisions NOT USED BY THE RETAIL INDUSTRY	O AN 1/10
	CTP11	289	Multiple Price Quantity Quantity of units for a given price, e.g., 3 for \$10.00 NOT USED BY THE RETAIL INDUSTRY	O NO 1/2

Segment: **PO4** Item Physical Details

Level: Detail

Loop: LIN

Usage: Optional

Max Use: 1

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

Syntax: 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.

Semantic: 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: A PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. 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".

B PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack). The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V (Pack/Inner Pack Usage) for usage examples.

This segment can be used also to specify the weight and/or volume (cube) for the item by using PO406 and PO407, and/or PO408 and PO409.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO401	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O NO 1/6
PO402	357	Size Size of supplier units in pack	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO403	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	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
PO404	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	C AN 3/5
NOT USED BY THE RETAIL INDUSTRY			
PO405	187	Weight Qualifier Code defining the type of weight	O ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack	C R 1/9
PO407	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	C ID 2/2
See Section III for code list.			
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack	C R 1/9
PO409	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	C ID 2/2
See Section III for code list.			
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO413	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	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
PO414	810	Inner Pack The number of eaches per inner container	O NO 1/6
PO415	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O ID 2/2
NOT USED BY THE RETAIL INDUSTRY			

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PO416	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	C AN	1/20
NOT USED BY THE RETAIL INDUSTRY				
PO417	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN	1/20
NOT USED BY THE RETAIL INDUSTRY				
PO418	1470	Number A generic number	O NO	1/9
NOT USED BY THE RETAIL INDUSTRY				

Segment: **AMT** Monetary Amount
Level: Detail
Loop: LIN
Usage: Optional
Max Use: 10
Purpose: To indicate the total monetary amount

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
➤	AMT01	522 Amount Qualifier Code Code to qualify amount TS Total Sales	M	ID	1/3
➤	AMT02	782 Monetary Amount Monetary amount	M	R	1/18
	AMT03	478 Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					

Segment: ZA Product Activity Reporting

Level: Detail

Loop: LIN/ZA **Usage:** Mandatory **Max Use:** >1

Usage: Mandatory

Max Use: 1

Purpose: To provide activity details concerning product being reported

Syntax: 1 **P0203**
If either ZA02 or ZA03 is present, then the other is required.

2 **P0405**
If either ZA04 or ZA05 is present, then the other is required.

3 **P0607**
If either ZA06 or ZA07 is present, then the other is required.

Semantic: 1 ZA08 determines if the product activity code in ZA01 refers to a product that is categorized as In-bond merchandise. A "Y" indicates that the activity code applies to a product that is In-bond; an "N" indicates that the activity code does not refer to a product that is In-bond.

Notes: If ZA02 and ZA03 are used to specify the quantity of the item identified in the LIN segment, the SDQ segment is not used.

All quantity values (ZA03 or quantity values in the SDQ segment) are expressed as a positive number for all activities except for adjustments (code QA and QT in ZA01). An adjustment is any activity, other than a retail sale or warehouse withdrawal, that changes the inventory position for the item. Inter-store transfers are reported as a positive adjustment for the transfer-to store and a negative adjustment for the transfer-from store. An adjustment to inventory can also be made as a result of a physical inventory, for example, shrinkage is reported as a negative adjustment, understated inventory is reported as a positive adjustment.

To express activity in dollars, use the unit of measure DO (Dollars, U.S.) in ZA03 or SDQ01. Multiple ZA segments may be used with the same activity code to specify units and dollars, and, to report activity at different prices. Sales types, promotion/event sales, clearance/markdown sales and non-promotion/non-clearance sales are used in conjunction with a CTP segment to specify the price and/or sales type.

For example, if three stores sold an item for one price and five other stores sold the same item for a different price, two ZA loops may be used to report the sale quantity at the appropriate price. The first ZA loop would contain the price in the CTP segment and one SDQ segment with the three stores/quantities. The second loop would specify the other price and one SDQ segment for the remaining five stores/quantities.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ZA01	859	Activity Code Code identifying activity details for the product being reported	M ID 2/2
		BS Bailment Sales Quantity Used only by the alcohol beverage industry	
		BT Transportation Sales Quantity Used only by the alcohol beverage industry	
		DG Quantity Damaged	
		HL Quantity on Hold	
		MS Military Sales Quantity Used only by the alcohol beverage industry	

- OF** Off Premise Quantity
Used only by the alcohol beverage industry
- OP** On Premise Sales Quantity
Used only by the alcohol beverage industry
- Q4** Quantity Ordered
Quantity ordered for the specified period
- QA** Current Inventory Quantity Available for Shipment or Sale
On-hand inventory at store/distribution center/warehouse available for shipment or sale
- QC** Quantity Committed
Quantity reserved for consumer delivery/pick up and not yet withdrawn from inventory. Memo quantity to aid in calculating replenishment needs.
- QD** Additional Demand Quantity
Incremental needs over and above normal replenishment calculation
- QF** Quantity In-bond
Used only by the alcohol beverage industry
- QL** Minimum Inventory Quantity
To define minimum inventory quantity for replenishment calculations of the total model, i.e., the order point trigger
- QM** Maximum Inventory Quantity
To define maximum inventory quantity for replenishment calculations of the total model, i.e., the order up to level quantity
- QN** Planned Inventory Quantity
Planned inventory level for VMI (Vendor Managed Inventory) replenishment calculations, i.e., the desired level on-hand at the store/distribution center/warehouse. If the quantity is zero, it indicates product replenishment is to be discontinued. Subsequent use of code QN with a quantity greater than zero would re-establish the product.
- QO** Quantity Out of Stock
Quantity not available at store/distribution center/warehouse resulting in lost sales, rainchecks or demand for merchandise that could not be satisfied, i.e., sale was not consummated and indicates potential adjustment of VMI (Vendor Managed Inventory) model areas
- QP** Quantity On Order, Not Yet Received
Total merchandise quantity ordered and not yet received by the retailer
- QR** Quantity Received
Receipts at store, distribution center or warehouse
- QS** Quantity Sold
Sales at retail (gross quantity, no returns netted out)
- QT** Adjustment to Inventory Quantity
Adjustment to inventory quantity as a result of a physical inventory discrepancy or internal movement of goods from one location to another
- QU** Quantity Returned By Consumer
- QW** Quantity Withdrawn from Warehouse Inventory
Internal store withdrawal from distribution center or warehouse inventory
- QX** Quantity Requested (Will Override Replenishment Planning)
Quantity to override the normal replenishment planning, but not intended to permanently change the model levels
- WQ** Wholesale Sales Quantity
Used only by the alcohol beverage industry

ZA02 380 Quantity C R 1/15
Numeric value of quantity

ZA03 355 Unit or Basis for Measurement Code C 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.

ZA04	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 002 Delivery Requested This code is used only when ZA01 contains code QD, QP or QX. If promotion start and end dates associated with the additional demand quantity are needed, the G95 loop may be used. 007 Effective Inventory taken, on order as of, etc. 036 Expiration 051 Cumulative Quantity Start Out of stock cumulative to date, etc. 090 Report Start 091 Report End	C ID 3/3
ZA05	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
ZA06	128	Reference Identification Qualifier Code qualifying the Reference Identification BT Batch Number CH Customer catalog number CO Customer Order Number Customer of retailer DP Department Number IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system IT Internal Customer Number Identification number assigned to the retailer, by the vendor, for use within the vendor's system IV Seller's Invoice Number PD Promotion/Deal Number PO Purchase Order Number SB Sales Region Number VN Vendor Order Number	C ID 2/3
ZA07	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
ZA08	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response NOT USED BY THE RETAIL INDUSTRY	O ID 1/1

Segment: CTP Pricing Information

Level: Detail
Loop: LIN/ZA
Usage: Optional

Max Use: 25

Purpose: To specify pricing information

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

Semantic:

- 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:

- A See Figures Appendix for an example detailing the use of CTP03 and CTP04.
- B See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Notes: The prices specified in this segment, in the ZA loop, apply only to quantities within that ZA loop, e.g., quantities in the ZA or SDQ segments. This price will override the same price type listed in the LIN loop, if used.

This segment is used to report prices associated with the item and activity. It is not used to report total dollar values. This segment can also be used to further define quantity sold/quantity on order within the associated ZA loop by sales type (i.e., promotion/event sales, clearance/markdown sales, non-promotion/non-markdown sales).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
CTP01	687	Class of Trade Code Code indicating class of trade	O	ID	2/2
		AG Agent			
		BG Buying Group			
		DE Dealer			
		DI Distributor			
		RS Resale			
		WH Wholesaler			
▶ CTP02	236	Price Identifier Code Code identifying pricing specification	C	ID	3/3
		ALT Alternate Price			
		CAT Catalog Price			
		CDV Current Domestic Value			
		Retail price of last item sold during the reporting period (last selling price)			
		MSR Manufacturer's Suggested Retail			
		PRP Promotional price			
		Promotion/Event			
		RTL Retail			

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		SPC Special Price			
		Clearance/Markdown			
		STA Standard Price			
		Non-Promotion/Non-Clearance			
		UCP Unit cost price			
		Item list cost			
CTP03	212	Unit Price	C	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".			
CTP04	380	Quantity	C	R	1/15
		Numeric value of quantity			
		NOT USED BY THE RETAIL INDUSTRY			
CTP05	C001	COMPOSITE UNIT OF MEASURE	C		COMPOSITE
		To identify a composite unit of measure			
		(See Figures Appendix for examples of use)			
		NOT USED BY THE RETAIL INDUSTRY			
CTP06	648	Price Multiplier Qualifier	O	ID	3/3
		Code indicating the type of price multiplier			
		NOT USED BY THE RETAIL INDUSTRY			
CTP07	649	Multiplier	C	R	1/10
		Value to be used as a multiplier to obtain a new value			
		NOT USED BY THE RETAIL INDUSTRY			
CTP08	782	Monetary Amount	O	R	1/18
		Monetary amount			
		NOT USED BY THE RETAIL INDUSTRY			
CTP09	639	Basis of Unit Price Code	O	ID	2/2
		Code identifying the type of unit price for an item			
		NOT USED BY THE RETAIL INDUSTRY			
CTP10	499	Condition Value	O	AN	1/10
		Identifies rate restrictions or provisions			
		NOT USED BY THE RETAIL INDUSTRY			
CTP11	289	Multiple Price Quantity	O	NO	1/2
		Quantity of units for a given price, e.g., 3 for \$10.00			
		NOT USED BY THE RETAIL INDUSTRY			

Segment: SDQ Destination Quantity

Level: Detail
Loop: LIN/ZA
Usage: Optional

Max Use: >1

Purpose: To specify destination and quantity detail

- Syntax:**
- 1 P0506**
If either SDQ05 or SDQ06 is present, then the other is required.
 - 2 P0708**
If either SDQ07 or SDQ08 is present, then the other is required.
 - 3 P0910**
If either SDQ09 or SDQ10 is present, then the other is required.
 - 4 P1112**
If either SDQ11 or SDQ12 is present, then the other is required.
 - 5 P1314**
If either SDQ13 or SDQ14 is present, then the other is required.
 - 6 P1516**
If either SDQ15 or SDQ16 is present, then the other is required.
 - 7 P1718**
If either SDQ17 or SDQ18 is present, then the other is required.
 - 8 P1920**
If either SDQ19 or SDQ20 is present, then the other is required.
 - 9 P2122**
If either SDQ21 or SDQ22 is present, then the other is required.

Semantic: 1 SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

- Comments:**
- A** SDQ02 is used only if different than previously defined in the transaction set.
 - B** SDQ03 is the store number.
 - C** 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: This segment is used to distribute item quantity to various locations.

If this segment is used to specify the quantity of the item identified in the LIN segment, ZA02 and ZA03 are not used.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ 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
➤ SDQ02	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document. 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document. 21 Health Industry Number (HIN) See External Code Source 121 in Section III for reference document. 91 Assigned by Seller or Seller's Agent	O ID 1/2

92 Assigned by Buyer or Buyer's Agent

UL UCC/EAN Location Code

See External Code Source 583 in Section III for reference document.

UM UCC/EAN Location Code Suffix

This code may be used only if the UCC/EAN Location Code Prefix has been specified in the preceding N1 segment.

See External Code Source 583 in Section III for reference document.

➤	SDQ03	67	Identification Code Code identifying a party or other code	M	AN	2/80
➤	SDQ04	380	Quantity Numeric value of quantity	M	R	1/15
	SDQ05	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ06	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ07	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ08	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ09	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ10	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ11	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ12	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ13	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ14	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ15	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ16	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ17	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ18	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ19	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ20	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ21	67	Identification Code Code identifying a party or other code	C	AN	2/80
	SDQ22	380	Quantity Numeric value of quantity	C	R	1/15
	SDQ23	310	Location Identifier Code which identifies a specific location	O	AN	1/30

Segment: G95 Performance Requirements

Level: Detail

Loop: LIN/ZA/G95 **Usage:** Optional **Max Use:** 1

Usage: Mandatory

Max Use: 1

Purpose: To specify the "AND" or "OR" condition for the option, or provide information related to the promotion performance conditions and allocations required, or both

Syntax: 1 P0405
If either G9504 or G9505 is present, then the other is required.

Semantic: 1 If G9502 equals "99", then G9506 is required.
2 G9507 contains the number of days included in the promotion period.

Notes: **This loop is used only to identify a promotion and its start and end dates. This loop is used only when ZA01 contains code QD or code QX.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
G9501	293	Promotion Condition Qualifier Code to inform retailer/wholesaler of the promotion	O ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
➤ G9502	422	Promotion Condition Code Code describing a performance or advertising condition	M ID 2/2
		01 Product Allocation	
		02 Number of Buy Restriction	
		10 Ad, Size Not Specified	
		Vendor requires a newspaper ad with no size specification	
		11 Ad, 1 Col Inch	
		12 Ad, 2 Col Inch	
		13 Ad, 3 Col Inch	
		14 Ad, 4 Col Inch	
		15 Ad, 5 Col Inch	
		16 Ad, 6 Col Inch or Greater	
		17 Ad, Full Page	
		18 Ad, Half Page	
		19 Ad, Quarter Page	
		20 Ad, Coupon	
		Vendor requires buyer to run a coupon ad that has a monetary value discounting the product(s) that is/are applicable	
		21 Ad, Color	
		Vendor requires buyer to run a color ad for the product(s) offered. This condition code may be used in conjunction with other ad condition codes.	
		22 Ad, Product Illustration	
		Vendor requires buyer to picture illustrate the product(s) offered. This condition code may be used in conjunction with other ad condition codes.	
		23 Ad, National Line Rate	
		Vendor requires buyer to advertise product(s) offered in media normally used. Payment is made for space (per inch or line) without restrictions for space used or frequency of insertion.	
		25 Ad, Roto	
		26 Ad, Free Standing	
		Vendor requires buyer to run a free standing ad illustrating product(s) offered. This ad is separate and apart from normal weekly media used.	

- 28 Ad, Window Signs
Vendor requires buyer to post a store window sign advertising the product(s) offered.
- 32 Ad, Price Reduction
Vendor requires ad at a reduced price. This condition code may be used in conjunction with other ad condition codes.
- 33 Ad, Circulars
Vendor requires buyer to advertise product(s) offered in a circular publication. Circulation intended for buyer's customers.
- 34 Ad, Television
- 35 Ad, Radio
- 36 Ad, Handbill
Vendor requires buyer to advertise product(s) offered in a loose publication format to be distributed by hand.
- 37 Ad, Newspaper Insert
- 39 Ad, See Free Form Message
Used in conjunction with condition codes to point to free form messages. Free form message will describe data such as amount to be reduced, number of stores, cases, days and other short text relating to a particular condition code.
- 40 Display
Vendor requires an in-store display of product(s) offered.
- 41 Display, End Aisle
Vendor requires a display separate and apart from the store shelf.
- 42 Display, Aisle Stack
Vendor requires a display separate and apart from the store shelf.
- 44 Display, Cases per Store
Vendor requires a display with a specified number of cases per store.
- 45 Display, Number of Days
Vendor requires a display with a specified number of days.
- 46 Display, Shelf Extender
- 49 Display, Number of Stores
Vendor requires a display with a specified number of stores.
- 51 Display, Price Reduction
Vendor requires a display with a specified price reduction.
- 59 Display, See Free Form Message
Used in conjunction with condition codes to point to free form messages. Free form message will describe data such as amount to be reduced, number of stores, cases, days and other short text relating to a particular condition code.
- 60 Reduced Price
Vendor requires a price reduction for product(s) offered with no amount, restriction or condition.
- 61 Reduced Price, Number of Days
Vendor requires a price reduction for a specific number of days.
- 62 Reduced Price With Shelf Sign
Vendor requires a price reduction for product(s) offered. Buyer must list the price reduction in the retail store's price/order guide.
- 63 Reduced Price, In Price/Order Guide
Vendor requires a price reduction for product(s) offered. Buyer must indicate price reduction with a point-of-sale shelf sign.
- 64 Reduced Price, In Store Coupons
Vendor requires buyer to offer in-store coupons on the product(s) offered. Coupons are redeemable from the point-of-sale at each buyer's retail outlet.

69 Reduced Price, See Free Form Message

Used in conjunction with condition codes to point to free form messages. Free form message will describe data such as amount to be reduced, number of stores, cases, days and other short text relating to a particular condition code.

70 Retail Distribution (One Case per Store)

71 Retail Distribution (X Cases per Store)

72 Retail Distribution (X Number of Stores)

79 Retail Distribution

Used in conjunction with condition codes to point to free form messages. Free form message will describe data such as amount to be reduced, number of stores, cases, days and other short text relating to a particular condition code.

81 Accrual Limit

82 Flat Limit

83 Number of Required Promotion Performances

88 Advertisement or Display or Reduced Price

A promotion condition which requires an advertisement, an in-store display, or a reduction in the shelf price of an item in order to qualify for the allowance amount.

99 See Free Form Text

G9503	554	Assigned Number Number assigned for differentiation within a transaction set	O	NO	1/6
NOT USED BY THE RETAIL INDUSTRY					
G9504	380	Quantity Numeric value of quantity	C	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
G9505	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	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
G9506	352	Description A free-form description to clarify the related data elements and their content	O	AN	1/80
G9507	1470	Number A generic number	O	NO	1/9
NOT USED BY THE RETAIL INDUSTRY					

Segment: DTM Date/Time Reference

Level: Detail

Loop: LIN/ZA/G95

Usage: Optional

Max Use: 2

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

If either DTM05 or DTM06 is present, then the other is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 015 Promotion Start 016 Promotion End	M ID 3/3
➤	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
	DTM03	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)	C TM 4/8
		NOT USED BY THE RETAIL INDUSTRY	
	DTM04	623 Time Code 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	O ID 2/2
		NOT USED BY THE RETAIL INDUSTRY	
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	C ID 2/3
		NOT USED BY THE RETAIL INDUSTRY	
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	C AN 1/35
		NOT USED BY THE RETAIL INDUSTRY	

Segment: CTT Transaction Totals

Level: Summary

Loop: ___

Usage: Optional

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax: 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: A This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
▶ CTT01	354	Number of Line Items Total number of line items in the transaction set	M NO 1/6
The number of LIN segments present in the transaction set			
CTT02	347	Hash Total 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.	O R 1/10
NOT USED BY THE RETAIL INDUSTRY			
CTT03	81	Weight Numeric value of weight	C R 1/10
NOT USED BY THE RETAIL INDUSTRY			
CTT04	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	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
CTT05	183	Volume Value of volumetric measure	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
CTT06	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	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
CTT07	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80
NOT USED BY THE RETAIL INDUSTRY			

Segment: SE Transaction Set Trailer

Level: Summary

Loop: ___

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)

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
➤ 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