Best Buy Company, Inc.
EDI Transaction Standards for 852 (Product Activity)

VERSION: 1.0 DRAFT

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852   **Product Activity Data**

Functional Group=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.

Segments:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
0100	ST	Transaction Set Header	M	1		
0200	XQ	Reporting Date/Action	M	1		
0400	N9	Reference Identification	O	>1		

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - LIN					**999999**	
0100	LIN	Item Identification	O	1		
0400	N9	Reference Identification	O	>1		
LOOP ID - ZA					**>1**	
0800	ZA	Product Activity Reporting	M	1		N2/0800
1100	SDQ	Destination Quantity	O	>1		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
0100	CTT	Transaction Totals	O	1		N3/0100
0200	SE	Transaction Set Trailer	M	1		

Segments:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
	GE	Functional Group Trailer	M	1		
	IEA	Interchange Control Trailer	M	1		

Notes:

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.

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. When sending item and activity data in the LIN loop, the CTT segment is required.

ISA   Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type of information in the Authorization Information

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use

Description: 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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type of information in the Security Information

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA04	I04	**Security Information**	M	AN	10/10	Must use

Description: 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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use

Description: 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

User Note 2: *Production ID = 0600603000003*

User Note 3: *Best Buy will be using its Global Location Number (GLN) for the ISA and GS ID. This is in preparation to position for a roll-out of GLN's to all Best Buy locations*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use

Description: 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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA09	**I08**	**Interchange Date** **Description:** Date of the interchange	**M**	**DT**	**6/6**	**Must use**
ISA10	**I09**	**Interchange Time** **Description:** Time of the interchange	**M**	**TM**	**4/4**	**Must use**
ISA11	**I65**	**Repetition Separator** **Description:** Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	**M**	**ID**	**1/1**	**Must use**
ISA12	**I11**	**Interchange Control Version Number** **Description:** Code specifying the version number of the interchange control segments	**M**	**ID**	**5/5**	**Must use**

    Code   **Name**
    00403 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1999

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA13	**I12**	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	**M**	**N0**	**9/9**	**Must use**
ISA14	**I13**	**Acknowledgment Requested** **Description:** Code indicating sender's request for an interchange acknowledgment	**M**	**ID**	**1/1**	**Must use**

    Code **Name**
    0   No Acknowledgment Requested

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA15	**I14**	**Usage Indicator** **Description:** Code indicating whether data enclosed by this interchange envelope is test, production or information	**M**	**ID**	**1/1**	**Must use**

    Code **Name**
    P   Production Data
    T   Test Data

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA16	**I15**	**Component Element Separator** **Description:** 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**	**ID**	**1/1**	**Must use**

User Note 2:

The Interchange Control Number (ISA13) must match the Interchange Control Number (IEA02) in the Interchange Control Trailer.

User Note 3:

*Example Data: ISA*00* *00* *ZZ*0600603000003*ZZ*YOURID*020816*1230*<*00403*000000001*0*P*>~*

GS   Functional Group Header

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

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

Code	Name
PD	Product Activity Data (852)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners

User Note 2: *Production ID = 0600603000003*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS05	337	**Time**	M	TM	4/8	Must use

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS06	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

Code	Name
X	Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

Description: 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

Code	Name
004030	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999

Semantics:

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:

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.

User Note 2:

The Group Control Number (GS06) must match the Group Control Number (GE02) in the Group Control Trailer.

User Note 3:

GS*PD*0600603000003*YOURID*20020816*1230*1*X*004030~

ST   Transaction Set Header

Pos: 0100   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code	Name
852	Product Activity Data

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

User Note 2: *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.*

Semantics:

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).

User Note 2:
The Transaction Set Control Number (ST02) must match the Transaction Set Control Number (SE02) used in the Transaction Set Trailer.

User Note 3:
*ST*852*0001~*

XQ   **Reporting Date/Action**

<table>
<tr><td>**Pos: 0200**</td><td align="right">**Max: 1**</td></tr>
<tr><td colspan="2" align="center">**Heading - Mandatory**</td></tr>
<tr><td>**Loop: N/A**</td><td align="right">**Elements: 3**</td></tr>
</table>

To specify reporting date and action to be taken

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
XQ01	305	**Transaction Handling Code**	M	ID	1/2	Must use
		Description: Code designating the action to be taken by all parties				

Code	Name
H	Notification Only

Ref	Id	Element Name	Req	Type	Min/Max	Usage
XQ02	373	**Date**	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
		User Note 2: *Report Start Date.*				
XQ03	373	**Date**	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
		User Note 2: *Report End Date.*				

Semantics:

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

User Note 2:
*Sample Data: XQ*H*20020816*20020823~*

N9   Reference Identification

<div style="float:right">

Pos: 0400	**Max: >1**
Heading - Optional	
Loop: N/A	**Elements: 2**

</div>

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	**128**	**Reference Identification Qualifier**	**M**	**ID**	**2/3**	**Must use**

Description: Code qualifying the Reference Identification

Code	Name
SB	Sales Region Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	**127**	**Reference Identification**	**C**	**AN**	**1/50**	**Used**

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 2:   *This is the data level. Corporate or Store*

Syntax:

R0203 -- At least one of N902 or N903 is required.

User Note 2:

*Sample Data: N9*SB*Corporate~*

LIN   Item Identification

To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name

EN   EAN/UCC - 13
   Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

EO   EAN/UCC - 8
   Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

UK   EAN/UCC - 14
   Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

   User Note 2:   *The GTIN (Global Trade Item Number) has a sunrise of Jan 1, 2005.*

UP   UCC - 12
   Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN04	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name

VN   Vendor's (Seller's) Item Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN05	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service

User Note 2:   *Vendor's Model Number.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN06	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name

KL   Item Management Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN07	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN08	**235**	**Product/Service ID Qualifier**	**C**	**ID**	**2/2**	**Used**

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code	Name
SK	Stock Keeping Unit (SKU)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN09	**234**	**Product/Service ID**	**C**	**AN**	**1/48**	**Used**

Description: Identifying number for a product or service

Syntax:

P0405 -- If either LIN04 or LIN05 are present, then the others are required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. 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.

User Note 2:

*Sample Data: LIN*2*UP*123456789101*VN*ABCD~*

N9   Reference Identification

Pos: 0400	Max: >1
Detail - Optional	
Loop: LIN	Elements: 2

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	**128**	**Reference Identification Qualifier**	**M**	**ID**	**2/3**	**Must use**

Description: Code qualifying the Reference Identification

Code	Name
MR	Merchandise Type Code
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	**127**	**Reference Identification**	**C**	**AN**	**1/50**	**Used**

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 2:   *"Item on Ad" will be used to indicate on "Ad".*

Syntax:

R0203 -- At least one of N902 or N903 is required.

User Note 2:

Used to indicate the following: whether an item is on Ad for this reporting period, or the Perf code of the item.

User Note 3:

N9 will only be sent at Detail level if the item is on "Ad" during the current reporting period. Or a vendor receives information on Perf Code.

User Note 4:

*Sample Data: N9*ZZ*Item on Ad~*
            *N9*MR*B~*

ZA   Product Activity Reporting

Pos: 0800	**Max: 1**
Detail - Mandatory	
Loop: ZA	**Elements: 3**

To provide activity details concerning product being reported

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ZA01	**859**	**Activity Code**	**M**	**ID**	**2/2**	**Must use**

Description: Code identifying activity details for the product being reported

Code	Name
HL	Quantity on Hold

User Note 2: *Quantity that is unavailable due to customer orders, home deliveries, .com rainchecks, in-store repair, customer fulfillment orders. Not included in DC or store On Hand Inventory.*

QA	Current Inventory Quantity Available for Shipment or Sale

Description: Indicates the quantity currently available to be sold or shipped

User Note 2: *On-hand inventory at store/distribution center/warehouse available for shipment or sale*

QF	Quantity In-bond

User Note 2: *Quantity "approved" as returns to vendor (direct from store to vendor) but have not yet left the store. Not included in store On Hand inventory.*

QI	Quantity in Transit

Description: Quantity of stock replenishment shipped but not received

QP	Quantity On Order, Not Yet Received

Description: Total quantity expected to be received from supplier for current reporting period, but not yet received

User Note 2: *Total merchandise quantity ordered and not yet received by the retailer*

QS	Quantity Sold

User Note 2: *Sales at retail.*

QU	Quantity Returned By Consumer

User Note 2: *Number of Items returned due to the reasons other than damaged.*

QW	Quantity Withdrawn from Warehouse Inventory

Description: Total quantity withdrawn from the warehouse for sales purposes, purposes of unsaleability, or as a result of an intracompany warehouse transfer, promotions, etc.

User Note 2: *Internal store withdrawal from distribution center or warehouse inventory (In-Transit).*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ZA02	**380**	**Quantity**	**C**	**R**	**1/15**	**Used**

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ZA03	**355**	**Unit or Basis for Measurement Code**	**C**	**ID**	**2/2**	**Used**

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

All valid standard codes are used.

Syntax:

P0203 -- If either ZA02 or ZA03 are present, then the others are required.

User Note 2:

The ZA02 represents the total sum quantity of the Best Buy code type identified in the ZA01 element.

User Note 3:

Sample Data: ZA*QS*100*EA~

SDQ   Destination Quantity

To specify destination and quantity detail

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	**Must use**

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name
EA   Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ02	66	**Identification Code Qualifier**	O	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code Name
92   Assigned by Buyer or Buyer's Agent
UL   UCC/EAN Location Code
       Description: A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ03	67	**Identification Code**	M	AN	2/80	**Must use**

Description: Code identifying a party or other code

User Note 2:   *Best Buy Location Code.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ04	380	**Quantity**	M	R	1/15	**Must use**

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ05	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ06	380	**Quantity**	C	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ07	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ08	380	**Quantity**	C	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ09	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ10	380	**Quantity**	C	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ11	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ12	380	**Quantity**	C	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ13	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
SDQ14	**380**	**Quantity** **Description:** Numeric value of quantity	**C**	**R**	**1/15**	**Used**
SDQ15	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
SDQ16	**380**	**Quantity** **Description:** Numeric value of quantity	**C**	**R**	**1/15**	**Used**
SDQ17	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
SDQ18	**380**	**Quantity** **Description:** Numeric value of quantity	**C**	**R**	**1/15**	**Used**
SDQ19	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
SDQ20	**380**	**Quantity** **Description:** Numeric value of quantity	**C**	**R**	**1/15**	**Used**
SDQ21	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
SDQ22	**380**	**Quantity** **Description:** Numeric value of quantity	**C**	**R**	**1/15**	**Used**

Syntax:

P0506 -- If either SDQ05 or SDQ06 are present, then the others are required.
P0708 -- If either SDQ07 or SDQ08 are present, then the others are required.
P0910 -- If either SDQ09 or SDQ10 are present, then the others are required.
P1112 -- If either SDQ11 or SDQ12 are present, then the others are required.
P1314 -- If either SDQ13 or SDQ14 are present, then the others are required.
P1516 -- If either SDQ15 or SDQ16 are present, then the others are required.
P1718 -- If either SDQ17 or SDQ18 are present, then the others are required.
P1920 -- If either SDQ19 or SDQ20 are present, then the others are required.
P2122 -- If either SDQ21 or SDQ22 are present, then the others are required.

Semantics:

1.

Comments:

1.   SDQ02 is used only if different than previously defined in the transaction set.
2.   SDQ03 is the store number.

User Note 2:

*Sample Data: SDQ*EA*92*0004*5*0005*10*0102*20~*

CTT   Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	**Must use**
		Description: Total number of line items in the transaction set				
		User Note 2: *The number of LIN segments present in the transaction set*				

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

User Note 2:

*Sample Data: CTT*1~*

SE   Transaction Set Trailer

Pos: 0200   Max: 1
Summary - Mandatory
Loop: N/A   Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** **Description:** 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** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set **User Note 2:** *This must be the same number as in the ST segment (ST02) for the transaction set.*	M	AN	4/9	Must use

Comments:

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

User Note 2:

The Transaction Set Control Number (SE02) must match the Transaction Set Control Number used in the Transaction Set Trailer (ST02).

GE   Functional Group Trailer

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

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** **Description:** 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** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

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.

User Note 2:

This must be the same number as is in the ST segment (ST02) for the transaction set.

IEA   **Interchange Control Trailer**

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

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups** **Description:** A count of the number of functional groups included in an interchange	**M**	**N0**	**1/5**	**Must use**
IEA02	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	**M**	**N0**	**9/9**	**Must use**

User Note 2:

The Interchange Control Number (IEA02) must match the Interchange Control Number (ISA13) in the Interchange Control Header.