

CVS/Caremark

Implementation Guide

846 – Inventory Inquiry/Advice

Version X12-4010

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846 Inventory Inquiry/Advice

Functional Group=IB

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
060	REF	Reference Identification	O	12			Must use
LOOP ID - N1					5		
080	N1	Name	O	1			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
220	SDQ	Destination Quantity	O	999999			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/010 Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

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

Description: Code to identify the type of information in the Authorization Information

CodeList Summary (Total Codes: 7, Included: 1)

<u>Code</u>	<u>Name</u>
00	No Authorization Information Present (No Meaningful Information in I02)

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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)

ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
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Description: Code to identify the type of information in the Security Information

CodeList Summary (Total Codes: 2, Included: 1)

<u>Code</u>	<u>Name</u>
00	No Security Information Present (No Meaningful Information in I04)

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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)

ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

CodeList Summary (Total Codes: 38, Included: 1)

<u>Code</u>	<u>Name</u>
01	Duns (Dun & Bradstreet)

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

CodeList Summary (Total Codes: 38, Included: 1)

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

ISA09 I08 **Interchange Date** M DT 6/6 Must use

Description: Date of the interchange

ISA10 I09 **Interchange Time** M TM 4/4 Must use

Description: Time of the interchange

ISA11 I10 **Interchange Control Standards Identifier** M ID 1/1 Must use

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

All valid standard codes are used. (Total Codes: 1)

ISA12 I11 **Interchange Control Version Number** M ID 5/5 Must use

Description: Code specifying the version number of the interchange control segments

CodeList Summary (Total Codes: 14, Included: 1)

<u>Code</u>	<u>Name</u>
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use

Description: A control number assigned by the interchange sender

ISA14 I13 **Acknowledgment Requested** M ID 1/1 Must use

Description: Code sent by the sender to request an interchange acknowledgment (TA1)

CodeList Summary (Total Codes: 2, Included: 1)

<u>Code</u>	<u>Name</u>
0	No Acknowledgment Requested

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA15	I14	Usage Indicator	M	ID	1/1	Must use

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information

CodeList Summary (Total Codes: 3, Included: 1)

<u>Code</u>	<u>Name</u>
P	Production Data

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA16	I15	Component Element Separator	M		1/1	Must use

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

GS**Functional Group Header**

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use**Purpose:** To indicate the beginning of a functional group and to provide control information**Element Summary:**

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

Description: Code identifying a group of application related transaction sets**CodeList Summary** (Total Codes: 240, Included: 1)

<u>Code</u>	<u>Name</u>
<u>IB</u>	<u>Inventory Inquiry/Advice (846)</u>

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

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

GS03	124	Application Receiver's Code	M	AN	2/15	Must use
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Description: Code identifying party receiving transmission; codes agreed to by trading partners

GS04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

GS05	337	Time	M	TM	4/8	Must use
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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)

GS06	28	Group Control Number	M	N0	1/9	Must use
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Description: Assigned number originated and maintained by the sender

GS07	455	Responsible Agency Code	M	ID	1/2	Must use
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Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480**CodeList Summary** (Total Codes: 2, Included: 1)

<u>Code</u>	<u>Name</u>
<u>X</u>	<u>Accredited Standards Committee X12</u>

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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**CodeList Summary** (Total Codes: 39, Included: 1)

<u>Code</u>	<u>Name</u>
<u>004010</u>	<u>Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997</u>

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.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

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

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

<u>Code</u>	<u>Name</u>
846	Inventory Inquiry/Advice

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 65, Included: 1)

<u>Code</u>	<u>Name</u>
00	Original

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA02	755	Report Type Code	M	ID	2/2	Must use

Description: Code indicating the title or contents of a document, report or supporting item

CodeList Summary (Total Codes: 522, Included: 1)

<u>Code</u>	<u>Name</u>
DD	Distributor Inventory Report

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIA03	127	Reference Identification	M	AN	1/30	Must use

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

BIA04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

REF Reference Identification

Pos: 060	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

<u>Code</u>	<u>Name</u>
VR	Vendor ID Number

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF02	127	Reference Identification	X	AN	1/30	Must use

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

Vendor Number Assigned by CVS

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

Loop Name

Pos: 080	Repeat: 5
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
080	N1	Name	O	1		Must use

N1**Name**

Pos: 080	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Must use**Purpose:** To identify a party by type of organization, name, and code**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual**CodeList Summary** (Total Codes: 1312, Included: 1)

<u>Code</u>	<u>Name</u>
RL	Reporting Location

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N102	93	Name	X	AN	1/60	Must use

Description: Free-form name**Syntax Rules:**

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Loop Item Identification

Pos: 010	Repeat: 10000
Mandatory	
Loop: LIN	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
220	SDQ	Destination Quantity	O	500		Must use

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 2

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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)

CodeList Summary (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
UI	U.P.C. Consumer Package Code (1-5-5)
UD	EAN
ND	NDC

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

Description: Identifying number for a product or service
UPC Number /EAN or NDC #

Syntax Rules:

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.

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.

SDQ Destination Quantity

Pos: 220	Max: 999999
Detail - Optional	
Loop: LIN	Elements: 22

User Option (Usage): Must use

Purpose: To specify destination and quantity detail

BOH – Balance on Hand

TIL – Targeted Inventory Level

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

CodeList Summary (Total Codes: 794, Included: 1)

<u>Code</u>	<u>Name</u>
PC	Piece

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Must use

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

CodeList Summary (Total Codes: 215, Included: 2)

<u>Code</u>	<u>Name</u>
FA	Facility Identification – for BOH
ZZ	Mutually Defined - for TIL

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

Description: Code identifying a party or other code

Store Number

SDQ04	380	Quantity	M	R	1/15	Must use
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Description: Numeric value of quantity

BOH if SDQ02 = FA
TIL if SDQ02 = ZZ

SDQ05	67	Identification Code	X	AN	2/80	Used
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Description: Code identifying a party or other code

Store Number

SDQ06	380	Quantity	X	R	1/15	Used
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Description: Numeric value of quantity

BOH if SDQ02 = FA
TIL if SDQ02 = ZZ

SDQ07	67	Identification Code	X	AN	2/80	Used
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		Description: Code identifying a party or other code				
		<u>Store Number</u>				
SDQ08	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		<u>BOH if SDQ02 = FA</u>				
		<u>TIL if SDQ02 = ZZ</u>				
SDQ09	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		<u>Store Number</u>				
SDQ10	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		<u>BOH if SDQ02 = FA</u>				
		<u>TIL if SDQ02 = ZZ</u>				
SDQ11	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		<u>Store Number</u>				
SDQ12	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		<u>BOH if SDQ02 = FA</u>				
		<u>TIL if SDQ02 = ZZ</u>				
SDQ13	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		<u>Store Number</u>				
SDQ14	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		<u>BOH if SDQ02 = FA</u>				
		<u>TIL if SDQ02 = ZZ</u>				
SDQ15	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		<u>Store Number</u>				
SDQ16	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				

		BOH if SDQ02 = FA TIL if SDQ02 = ZZ				
SDQ17	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		Store Number				
SDQ18	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		BOH if SDQ02 = FA TIL if SDQ02 = ZZ				
SDQ19	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		Store Number				
SDQ20	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		BOH if SDQ02 = FA TIL if SDQ02 = ZZ				
SDQ21	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
		Store Number				
SDQ22	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
		BOH if SDQ02 = FA TIL if SDQ02 = ZZ				

Syntax Rules:

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.

Semantics:

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

Comments:

1. SDQ02 is used only if different than previously defined in the transaction set.
2. SDQ03 is the store number.
3. SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	NO	1/6	Must use

Description: Total number of line items in the transaction set

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

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

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						

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.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

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

846 – Inventory/Inquiry Advice Example v4010:

ISA*00* *00* *01*001786664 *ZZ*Vendor ID*091006*1057*U*00400*000000480*0*P*^~
 GS*IB*001786664*Vendor ID*20091006*1057*34*X*004010~
 ST*846*6524~
 BIA*00*DD*Test*20090925~
 REF*VR*10999~
 N1*RL*CVS~
 LIN**UI*00000999999~
 SDQ*PC*FA*01489*0~
 SDQ*PC*ZZ*01489*0~
 CTT*1~
 SE*9*6524~
 ST*846*6525~
 BIA*00*DD*Test*20090925~
 REF*VR*12999~
 N1*RL*CVS~
 LIN**UI*09999999999~
 SDQ*PC*FA*00003*1*00009*0*00021*1*00026*0*00040*0*00060*0*00074*1*00075*2*00104*
 2*00109*3~
 SDQ*PC*FA*00111*1*00117*3*00123*0*00125*3*00127*3*00133*3*00144*2*00146*3*00147*
 2*00153*2~
 SDQ*PC*FA*00190*1*00200*1*00204*2*00213*1*00214*1*00220*1*00223*0*00224*2*00227*
 2*00230*2~
 SDQ*PC*FA*00232*2*00243*1*00252*1*00265*1*00271*1*00314*1*00316*1*00327*2*00348*
 0*00349*1~
 SDQ*PC*FA*00350*1*00354*1*00357*2*00360*1*00366*1*00369*1*00371*2*00373*2*00382*
 2*00390*2~
 SDQ*PC*FA*00409*2*00419*4*00428*2*00431*4*00444*4*00456*4*00461*2*00467*1*00471*
 0*00472*3~
 SDQ*PC*FA*00477*1*00478*2*00479*2*00482*2*00488*2*00489*2*00490*1*00491*0*00493*
 1*00494*4~
 SDQ*PC*FA*00496*4*00509*4*00518*1*00524*4*00526*4*00531*4*00541*3*00542*3*00547*
 1*00552*2~
 SDQ*PC*FA*00563*1*00564*6*00575*2*00583*6*00588*6*00591*6*00595*2*00615*1*00616*
 2*00620*2~
 SDQ*PC*FA*00625*2*00635*2*00642*1*00652*2*00656*2*00668*2*00678*1*00684*1*00688*
 1*00692*1~
 SDQ*PC*FA*00696*3*00697*2*00708*1*00710*2*00711*2*00714*2*00719*2*00729*6*00730*
 2*00731*2~
 SDQ*PC*FA*00738*3*00740*3*00742*3*00746*3*00750*3*00752*3*00765*2*00770*4*00777*
 2*00781*1~
 SDQ*PC*FA*00783*2*00784*2*00785*3*00791*2*00798*2*00802*2*00808*3*00826*2*00843*
 2*00848*1~
 SDQ*PC*ZZ*00003*2*00009*2*00021*2*00026*2*00040*2*00060*2*00074*2*00075*2*00104*
 2*00109*3~
 SDQ*PC*ZZ*00111*2*00117*2*00123*2*00125*2*00127*2*00133*2*00144*3*00146*3*00147*
 2*00153*3~
 SDQ*PC*ZZ*00190*2*00200*2*00204*2*00213*2*00214*2*00220*2*00223*2*00224*2*00227*
 2*00230*2~
 SDQ*PC*ZZ*00232*2*00243*2*00252*2*00265*2*00271*2*00314*2*00316*2*00327*2*00348*
 3*00349*3~
 SDQ*PC*ZZ*00350*2*00354*2*00357*2*00360*2*00366*2*00369*2*00371*2*00373*2*00382*
 2*00390*2~
 SDQ*PC*ZZ*00409*3*00419*3*00428*2*00431*3*00444*3*00456*3*00461*2*00467*2*00471*
 3*00472*3~

SDQ*PC*ZZ*00477*2*00478*2*00479*4*00482*2*00488*2*00489*2*00490*2*00491*2*00493*
2*00494*2~
SDQ*PC*ZZ*00496*4*00509*3*00518*2*00524*3*00526*3*00531*3*00541*3*00542*4*00547*
2*00552*2~
SDQ*PC*ZZ*00563*2*00564*3*00575*2*00583*3*00588*3*00591*3*00595*2*00615*3*00616*
3*00620*2~
SDQ*PC*ZZ*00625*2*00635*2*00642*3*00652*2*00656*2*00668*2*00678*2*00684*2*00688*
2*00692*2~
SDQ*PC*ZZ*00696*2*00697*2*00708*2*00710*2*00711*2*00714*2*00719*2*00729*2*00730*
2*00731*2~
SDQ*PC*ZZ*00738*2*00740*3*00742*2*00746*3*00750*3*00752*3*00765*2*00770*2*00777*
2*00781*2~
SDQ*PC*ZZ*00783*3*00784*2*00785*2*00791*2*00798*2*00802*2*00808*3*00826*3*00843*
2*00848*2~
CTT*1~
SE*9*6525~
GE*8*34~
IEA*1*000000480~