



Electronic Data Interchange

Outbound Inventory Advice

X.12 4010 846

Implementation Guide

Release Date: August 13, 2012

Version 1.0

Summary of Changes

Date	Name	Section	Description of Change
Aug 14, 2012	Ben Pun	All	Document creation
Nov 16, 2012	Ben Pun	DTM	Add report start and end date
Mar 12, 2013	Ben Pun	SDQ, QTY	

846 Inventory Inquiry/Advice

Functional Group=**B**

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.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Must use
050	DTM	Date/Time Reference	O	10			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN					10000		
010	LIN	Item Identification	M	1			Must use
220	SDQ	Destination Quantity	O	500			Used
LOOP ID - QTY					99		
320	QTY	Quantity	O	1			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
020	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

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

User Option (Usage): Must use

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						
All valid standard codes are used.						
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: 5

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set				
		Code Name				
		00		Original		
		04		Change		
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				
		Code Name				
		SI		Seller Inventory Report		
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
		Description: Date expressed as CCYYMMDD				
BIA05	337	Time	O	TM	4/8	Used
		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)				

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.

DTM Date/Time Reference

Pos: 050 Max: 10
 Heading - Optional
 Loop: N/A Elements: 3

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
Description: Code specifying type of date or time, or both date and time						
Code Name						
		090	Report Start			
		091	Report End			
DTM02	373	Date	X	DT	8/8	Used
Description: Date expressed as CCYYMMDD						

Syntax Rules:

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.

Loop LIN

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

User Option (Usage): Must use

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		Used
320		Loop QTY	O		99	Used

LIN Item Identification

Pos: 010 Max: 1
 Detail - Mandatory
 Loop: LIN Elements: 7

User Option (Usage): Must use

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				
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				
		VP Vendor's (Seller's) Part Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code Name				
		UP U.P.C. Consumer Package Code (1-5-5-1)				
LIN05	234	Product/Service ID	X	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Not used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code Name				
		SK Stock Keeping Unit (SKU)				
LIN07	234	Product/Service ID	X	AN	1/48	Not used
		Description: Identifying number for a product or service				

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: 500
 Detail - Optional
 Loop: LIN Elements: 4

User Option (Usage): Used

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		
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				
		ZZ		Warehouse		
		54		Mutually Defined		
		Description: Store				
SDQ03	67	Identification Code	M	AN	2/80	Must use
		Description: Code identifying a party or other code				
SDQ04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity				

User: This quantity is the sum of all QTY02 per location (SDQ) and per line (LIN)

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.

Loop QTY

Pos: 320 Repeat: 99
Optional
Loop: QTY Elements: N/A

User Option (Usage): Used

To specify quantity information

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>
320	QTY	Quantity	O	1		Must use

QTY Quantity

Pos: 320 Max: 1
 Detail - Optional
 Loop: QTY Elements: 3

User Option (Usage): Must use

To specify quantity information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use
Description: Code specifying the type of quantity						
Code Name						
	20	Unusable Quantity				
		Description: Defective RTV				
	33	Quantity Available for Sale (stock quantity)				
		Description: Available quantity on hand including factory fresh, open box, demo units				
	63	On Order Quantity				
		Description: Units on order				
	76	Returns				
		Description: Factory Fresh RTV				
	IQ	In-Transit Quantity				
		Description: Units in transit				
QTY02	380	Quantity	X	R	1/15	Used
Description: Numeric value of quantity						

Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

SE Transaction Set Trailer

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

User Option (Usage): Must use

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.

Table of Contents

846	Inventory Inquiry/Advice	1
ST	Transaction Set Header	2
BIA	Beginning Segment for Inventory Inquiry/Advice	3
DTM	Date/Time Reference	4
LIN	Loop LIN	5
LIN	Item Identification	6
SDQ	Destination Quantity	8
QTY	Loop QTY	9
QTY	Quantity	10
SE	Transaction Set Trailer	11

Sample Document

ISA*00* *00* *ZZ*SENDERT *ZZ*RECEIVER
*121106*1454*U*00401*000000437*0*P*>
GS*IB*SENDER*RECEIVER*20121106*1454*8*X*004010
ST*846*80001
BIA*00*SI*AACijZAAYAADrhAAAA*20121106*145437
DTM*090*20121116
DTM*091*20121116
LIN**VP*88697606692*UP*886976066925*SK*2173600
SDQ*EA*ZZ*14*12
QTY*33*4
QTY*IQ*2
QTY*76*2
QTY*20*2
QTY*63*2
LIN**VP*88697606692*UP*886976066925*SK*2173600
SDQ*EA*ZZ*27*6
QTY*33*1
QTY*IQ*2
QTY*76*3
SE*17*80001
GE*1*8
IEA*1*000000437