846 Inventory Inquiry / Advice_Inbound 846 ANSI X12 004010

Version: 1.1

Publication: 01.24.2013



Version Number	Version Date	Description of Change	Reason of Change	Author	Change Reference
1.0	01.24.2013	Initial release	Original Document	Adrian Birau	All Sections
1.1	02.07.2013	Add Samples		Adrian Birau	Samples



Table of Contents

846	3
ST Transaction Set Header	4
BIA Beginning Segment for Inventory Inquiry/Advice	5
REF Reference Identification	6
Loop N1	
Loop LIN	9
Loop QTY	
Loop N1	14
CTT Transaction Totals	
SE Transaction Set Trailer	17
Sample	17



846 Inventory Inquiry/Advice

Functional Group = IB

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 010 020	<mark>Id</mark> ST BIA	<u>Segment Name</u> Transaction Set Header Beginning Segment for Inventory Inguiry/Advice	<u>Req</u> M M	Max Use 1 1	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u> Must use Must use
060	REF	Reference Identification	0	12			Used
LOOP ID	- N1				<u>5</u>		
080	N1	Name	0	1			Used
100	N3	Address Information	0	2			Used
110	N4	Geographic Location	0	1			Used

Detail:

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	<u>Usage</u>
LOOP ID) - LIN				<u>10000</u>		

Summary:

480	N4	Geographic Location	0	1			Used
010	LIN	Item Identification	Μ	1			Must use
030	PID	Product/Item Description	0	200			Used
LOOP I	<u>D - QTY</u>				<u>99</u>		
320	QTY	Quantity	0	1			Used
350	LDT	Lead Time	0	12			Used
LOOP II	D - N1				200		
450	N1	Name	0	1			Used
470	N3	Address Information	0	2			Used
Pos	ld	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	0	1		N3/010	Used
020	SE	Transaction Set Trailer	Μ	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.



ST Transaction Set Header

User Option (Usage):

Must use

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

Element Summary:

<u>Ref</u> ST01	<u>Id</u> 143	Element Name Transaction Set Identifier Code	<u>Req</u> M	<u>Type</u> ID	Min/Max 3/3	<u>Usage</u> Must use
		Description: Code uniquely identifying a Transaction Set "846" - Inventory Inquiry/Advice				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be	Μ	AN	4/9	Must use

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

User Option (Usage):

Must use

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

Element Summary:

<u>Ref Id El</u>	ement Nar	ne Req Type Usage BIA01 353 Transaction Set Purpose Cod	le M ID	Must use	Min/Max	
		Description: Code identifying purpose of transaction set			2/2	
		"00" - Original				
		"01" - Cancellation				
BIA02	755	"04" - Change Report Type Code	Μ	ID	2/2	Must use
DINOL	100	Description: Code indicating the title or contents of a	101			Maor abo
		document, report or supporting item				
		"LC" - Location Inventory Report "CM" - Customer/Manufacturer Inventory Report				
		"DM" - Distributor/Manufacturer Inventory Report				
		"MM" - Manufacturer Inventory Report				
BIA03	127	Reference Identification	Μ	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	Μ	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
		Effective Inventory Date (Not Transmission date)				
BIA05	337	Time				
		Description: Time expressed in 24-hour clock time as				
		MMSS, or HHMMSSD, or HHMMSSDD, where H = hours 0059 , S = integer seconds (00-59) and DD = decimal				
		onds are expressed as follows: D = tenths (0-9) and DD =				
hundredths						

1. BIA03 identifies the number of the inquiry/advice that is transferred.

O TM 4/8 Used



REF Reference Identification

User Option (Usage):

Used

To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u> Must use
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification "ZZ" - Mutually Defined	Μ	ID	2/3	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Hub SMI Code (Flextronics Assigned)	Х	AN	1/30	Used
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	Х	AN	1/80	Used

Syntax:

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

Semantics:

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





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

Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
080	N1	Name	0	1		Used
100	N3	Address Information	0	2		Used
110	N4	Geographic Location	0	1		Used

N1 Name

User Option (Usage):

Used

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

Element Summary:

Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	Μ	ID Must use	2/3	
		Description: Code identifying an organizational entity, a				
		physical location, property or an individual				
		"BY" - Buying Party (Purchaser)				
		"LG" - Location of Goods				
		"WH" - Warehouse				
		"SE" - Selling Party				
		"CN" - Consignee				
NILOO	0.2	"DS" - Distributor	Х	<u> </u>	1/60	llood
N102	93	Name	~	AN	1/60	Used
NILOO	66	Description: Free-form name Identification Code Qualifier	Х	ID	1/2	llood
N103	00		~	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		"1" - D-U-N-S Number, Dun & Bradstreet				
		"9" - D-U-N-S+4, D-U-N-S Number with Four Character				
		Suffix				
		"91" - Assigned by Seller or Seller's Agent				
		"92" - Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or other code				

Syntax:

1. R0203 - At least one of N102,N103 is required

2. P0304 - If either N103,N104 is present, then all are 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.

N3 Address Information

User Option (Usage):

Used



To specify the location of the named party

Element So <u>Ref</u> N301	ummary: <u>Id</u> 166		<u>t Name</u> s Information tion: Address information			ļ	<u>Req Type</u> M AN Must use	<u>Min/Max</u> 1/55	<u>Usage</u>
N302		166	Address Information	0	AN	1/55	Used Descript	ion: Address in	nformation
N4 Geog									

To specify the geographic place of the named party

Used

Element Summary:

<u>Ref</u> Id El	ement Na	me Req Type Usage N401 19 City Name O AN Used	<u>Min/Max</u> 2/30				
		Description: Free-form text for city name			2/30		
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	0	ID	2/2	Used	
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	0	ID	3/15	Used	
N404	26	Country Code Description: Code identifying the country	0	ID	2/3	Used	

Syntax:

1. C0605 - If N406 is present, then all of N405 are required

Comments:

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



Loop LIN

To specify basic item identification data Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	LIN	Item Identification	Μ	1		Must use
030	PID	Product/Item Description	0	200		Used
060	REF	Reference Identification	0	12		Used
320		Loop QTY	0		99	Used
450		Loop N1	0		200	Used

LIN Item Identification

User Option (Usage):

Must use To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	0	AN Used	1/20	
		Description: Alphanumeric characters assigned for				
		differentiation within a transaction set				
LIN02	235	Product/Service ID Qualifier	Μ	ID	2/2	Must use
		Description: Code identifying the type/source of the				
		descriptive number used in Product/Service ID (234) "BP"				
		- Buyer's Part Number				
LIN03	234	Product/Service ID	Μ	AN	1/48	Must use
		Description: Identifying number for a product or service			- /-	
LIN04	235	Product/Service ID Qualifier	Х	ID	2/2	Used
		Description: Code identifying the type/source of the				
		descriptive number used in Product/Service ID (234)				
	00.4	"MG" - Manufacturer's Part Number	V		4/40	
LIN05	234	Product/Service ID	Х	AN	1/48	Used
	005	Description: Identifying number for a product or service Product/Service ID Qualifier	V	10	0/0	l la a d
LIN06	235		Х	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) "EC"				
		- Engineering Change Level				
LIN07	234	Product/Service ID	Х	AN	1/48	Used
LINUT	204	Description: Identifying number for a product or service	~		1740	0360
LIN08	235	Product/Service ID Qualifier	Х	ID	2/2	Used
LINUO	200	Description: Code identifying the type/source of the	~	ID	212	0360
		descriptive number used in Product/Service ID (234)				
		"MF" – Manufacturer				
LIN09	234	Product/Service ID	Х	AN	1/48	Used
		Description: Identifying number for a product or service			.,	0000

Syntax:

1.	P0405 - If either LIN04,LIN05	is present, then all are required
2.	P0607 - If either LIN06,LIN07	is present, then all are required
3.	P0809 - If either LIN08,LIN09	is present, then all are required

4. P1011 - If either LIN10,LIN11 is present, then all are required



- 5. P1213 If either LIN12,LIN13 is present, then all are required 6.
 - P1415 If either LIN14, LIN15 is present, then all are required
 - 7. P1617 If either LIN16,LIN17 is present, then all are required
 - 8. P1819 If either LIN18,LIN19 is present, then all are required
 - 9. P2021 If either LIN20,LIN21 is present, then all are required
- 10. P2223 If either LIN22,LIN23 is present, then all are required
- 11. P2425 If either LIN24,LIN25 is present, then all are required
- 12. P2627 If either LIN26,LIN27 is present, then all are required
- 13. P2829 If either LIN28,LIN29 is present, then all are required
- 14. P3031 If either LIN30,LIN31 is present, then all are required

Semantics:

1. LIN01 is the line item identification

PID Product/Item Description

User Option (Usage):

Used

To describe a product or process in coded or free-form format

Element Summary:

	·······					
Ref	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>
PID01	349	Item Description Type	Μ	ID	1/1	Must use
		Description: Code indicating the format of a description "F"				
		- Free-form				
PID05	352	Description	Х	AN	1/80	Used
		Description: A free-form description to clarify the related data	I			
		elements and their content				

Syntax:

- 1. C0403 If PID04 is present, then all of PID03 are required
- 2. R0405 At least one of PID04,PID05 is required
- 3. C0703 If PID07 is present, then all of PID03 are required 4.
- 5. C0905 If PID09 is present, then all of PID05 are required

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

REF Reference Identification

User	Option	(Usage):
Used	ł	
То		
speci		

C0804 - If PID08 is present, then all of PID04 are required

fy identi fying infor matio n

Element Summary:

	·····					
Ref	ld	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	Μ	ID	2/3	Must use
		Description: Code qualifying the Reference Identification "VR" – Vendor Code				
REF02	127	Reference Identification	Х	AN	1/30	Must Use
		Description: Reference information as defined for a particular				
		Transaction Set or as specified by the Reference				
		Identification Qualifier				
		Supplier Code (Flextronics Used)				
REF03	352	Description	Х	AN	1/80	Used
		Description: A free-form description to clarify the related data				
		elements and their content				
Syntax:						

Syntax:

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

Semantics:

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





To specify quantity information

Loop Summary:	
---------------	--

Pos	ld	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
320	QTY	Quantity	0	1		Used
350	LDT	Lead Time	0	12		Used

QTY Quantity

User Option (Usage): Used

To specify quantity information

to specify d	quantity info	ormation				
Element Su	ummary:					
Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	MI	D Must use	2/2	
		Description: Code specifying the type of quantity				
		"17" - Quantity on Hand				
		"26" - Total Inventory				
		"25" - OEM Inventory				
		"72" - Minimum Stock Level				
		"73" - Maximum Stock Level "22" - Ouentity Augilable for Sale (stock supertity)				
		"33" - Quantity Available for Sale (stock quantity)				
		NOTE: Flex used as "Quarantined Stock" "37" - Work In Process				
QTY02	380	Quantity	Х	R	1/15	Used
GIIOZ	000	Description: Numeric value of quantity	Λ		1/10	0304
QTY03	C001	Composite Unit of Measure	0	Comp		Used
		Description: To identify a composite unit of measure(See				
		Figures Appendix for examples of use)				
	355	Unit or Basis for Measurement Code	Μ	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 All valid standard codes are used.				
		All vallu Stalludi u Coues ale useu.				
Syntax:						





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

Semantics:

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

LDT Lead Time

User Option (Usage):

Used

To specify lead time for availability of products and services

Element Summary:

Ref	ld	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>
LDT01	345	Lead Time Code	Μ	ID Must use	2/2	
		Description: Code indicating the time range "AE"				
		 From date of PO receipt to shipment 				
LDT02	380	Quantity	Μ	R	1/15	Must use
		Description: Numeric value of quantity				
LDT03	344	Unit of Time Period or Interval	Μ	ID	2/2	Must use
		Description: Code indicating the time period or interval				
		"WK" - Weeks				
		"DA" - Calendar Days				

Semantics:

1. LDT04 is the effective date of lead time information.

Comments:

1. LDT02 is the quantity of unit of time periods.



Loop N1

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

Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
450	N1	Name	0	1		Used
470	N3	Address Information	0	2		Used
480	N4	Geographic Location	0	1		Used

N1 Name

User Option (Usage):

Used

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

Element Summary:

Ref	ld	Element Name	Req	Туре	<u>Min/Max</u>	Usage
N101	98	Entity Identifier Code	Μ	ID Must use	2/3	
		Description: Code identifying an organizational entity, a				
		physical location, property or an individual				
		"WH" – Warehouse				
		"LG" - Location of Goods				
N102	93	Name	Х	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	Х	ID	1/2	Used
		Description: Code designating the system/method of code				
		structure used for Identification Code (67)				
		"9" - D-U-N-S+4, D-U-N-S Number with Four Character				
		Suffix				
		"91" - Assigned by Seller or Seller's				
		"92" - Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or other code				

Syntax:

1. R0203 - At least one of N102,N103 is required

2. P0304 - If either N103,N104 is present, then all are 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.

N3 Address Information

User Option (Usage):

Used

To specify the location of the named party

Element Summary:

Ref	ld	Element Name	Req	Туре	Min/Max	<u>Usage</u>
N301	166	Address Information	Μ	AN	1/55	Must use
		Description: Address information				
N302		166 Address Information	0	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

User Option (Usage):

Used

To specify the geographic place of the named party

Element Summary: <u>Ref Id Element Name Req Type</u> Usage N401 19 City Name O AN Used Description: Free-form text for city name					<u>Min/Max</u> 2/30	
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by	0	ID	2/2	Used
N403	116	appropriate government agency Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	0	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	0	ID	2/3	Used

Syntax:

1. C0605 - If N406 is present, then all of N405 are required

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.



CTT Transaction Totals

User Option (Usage):

Used

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

Element Summary:

Ref	ld	Element Name				
			Req	Туре	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	Μ	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	 Hash Total Description: 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. Example:0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 1855 Hash total after truncation to threedigit field. 	0	R	1/10	Used
Syntax:						

Syntax:

- 1. P0304 If either CTT03,CTT04 is present, then all are required
- 2. P0506 If either CTT05,CTT06 is present, then all are required

Comments:

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



SE Transaction Set Trailer

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:

Ref	ld	Element Name	Req	Туре	Min/Max	Usage
SE01	96	Number of Included Segments	Μ	NO	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	Μ	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.

Sample

ISA*00* *00* *supplier qual*supplier ISA ID *ZZ*941714834VANP *<u>130205*0622*U*00401*000001068</u>*0*P*: GS*IA*supplier GS ID*<u>9417148340059*20130205*0622*1068</u>*X*<u>004010</u> ST*846*<u>10680001</u> BIA*00*LC*<u>020513*20130205</u> DTM*097*<u>20130205*0530</u> REF*VR*1SP000734 N1*SE*Selling Party Name LIN*<u>00001</u>*BP*SUN4F-<u>419631102</u> QTY*33*18*EA LIN*<u>00002</u>*BP*SUN4F-<u>419801001</u> QTY*33*18*EA LIN*<u>00003</u>*BP*SUN4F-<u>419802602</u> QTY*33*19*EA CTT*3 SE*13*<u>10680001</u> GE*1*<u>1068</u> IEA*1*<u>000001068</u>



For more information, please visit www.flextronics.com

Flextronics is a leading Electronics Manufacturing Services (EMS) provider that offers complete design, engineering, and manufacturing services to aerospace, automotive, computing, consumer digital, industrial, infrastructure, medical and mobile OEM customers. With a network of facilities in 30 countries, Flextronics helps customers design, manufacture, distribute and service electronics products worldwide.

Copyright © 2012, Flextronics. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Flextronics.

