



Distributor Inventory Message

846

X12/V3060/846: 846 Distributor Inventory

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Publication:
Trading Partner:
Notes:

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.

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1		

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
LOOP ID - LIN					10000	
010	LIN	Item Identification	M	1		
LOOP ID - QTY					99	
320	QTY	Quantity	O	1		
LOOP ID - QTY					99	N2/330L
330	QTY	Quantity	O	1		N2/330
LOOP ID - N1					200	
490	N1	Name	O	1		

Summary:

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

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

Notes:

- 2/330L This QTY segment is used to provide the quantity per box when multi-pack inventory is reported.
- 2/330 This QTY segment is used to provide the quantity per box when multi-pack inventory is reported.
- 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 -	
Loop: N/A	Elements: 16

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 ISA02	I02	Authorization Information	M	AN	10/10	
Must use ISA03	I03	Security Information Qualifier		M	ID	2/2
Must use ISA04	I04	Security Information		M	AN	10/10
Must use ISA05	I05	Interchange ID Qualifier		M	ID	2/2
Must use ISA06	I06	Interchange Sender ID		M	AN	15/15
Must use ISA07	I05	Interchange ID Qualifier		M	ID	2/2
Must use ISA08	I07	Interchange Receiver ID		M	AN	15/15
Must use ISA09	I08	Interchange Date		M	DT	6/6
Must use ISA10	I09	Interchange Time		M	TM	4/4
Must use ISA11	I10	Interchange Control Standards Identifier		M	ID	1/1
Must use ISA12	I11	Interchange Control Version Number		M	ID	5/5
Must use ISA13	I12	Interchange Control Number		M	N0	9/9
Must use ISA14	I13	Acknowledgment Requested		M	ID	1/1
Must use ISA15	I14	Test Indicator		M	ID	1/1
Must use ISA16	I15	Component Element Separator		M	AN	1/1
Must use						

GS

Functional Group Header

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

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 GS02	142	Application Sender's Code	M	AN	2/15	
Must use GS03	124	Application Receiver's Code		M	AN	2/15
Must use GS04	373	Date		M	DT	6/6
Must use GS05	337	Time		M	TM	4/8
Must use GS06	28	Group Control Number		M	N0	1/9
Must use GS07	455	Responsible Agency Code		M	ID	1/2
Must use GS08	480	Version / Release / Industry Identifier Code		M	AN	1/12
Must use						

Semantics:

- GS04 is the group date.
- GS05 is the group time.
- 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:

- 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 -	
Loop: N/A	Elements: 2

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
		<u>Code</u> <u>Name</u>				
		846 X12.28 Inventory Inquiry/Advice				
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use

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:

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
		<u>Code</u> <u>Name</u>				
		00 Original				
BIA02	755	Report Type Code	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		AA Agent Inventory Report				
BIA03	127	Reference Identification	M	AN	1/30	Must use
BIA04	373	Date	M	DT	6/6	Must use

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.

LIN Item Identification

Pos: 010	Max: 1
Detail: -	
Loop: LIN	Elements: 3

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>
LIN01	350	Assigned Identification	O	AN	1/20	Not
used LIN02	235	Product/Service ID Qualifier		M	ID	2/2
Must use						
		<u>Code</u>		<u>Name</u>		
		MN		Model Number		
LIN03	234	Product/Service ID	M	AN	1/40	Must use
		User: Manufacturer's Model Number				

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

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., UPC No., ISBN No., Model No., or SKU.

QTY Quantity

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

To specify quantity 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>
QTY01	673	Quantity Qualifier User: Use code of '36' to report Distributor owned inventory. Use code of '27' to report committed inventory. Contact Seagate to determine code to use for reporting product in-transit between distributor locations, if applicable.	M	ID	2/2	Must use
		Code Name				
		27 Committed Quantity				
		36 Distributor Inventory				
		28 RMA Return Quantity				
QTY02	380	Quantity	M	R	1/15	Must use
QTY03	C001	Composite Unit of Measure	O	Comp		Used
	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Code				
		Name BX				
		Box EA				
		Each				

QTY

Quantity

Pos: 330	Max: 1
Detail - Optional	
Loop: QTY	Elements: 3

To specify quantity 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>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use
		<u>Code</u>		<u>Name</u>		
		85		Lot Size		

N1 Name

Pos: 490	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

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	2/2	Must use
		<u>Code</u> <u>Name</u>				
		WH Warehouse				
N102	93	Name	C	AN	1/35	Used
N103	66	Identification Code Qualifier	C	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	C	AN	2/20	Must use
		User: Code for distributor warehouse or intransit. If reporting in-transit quantity, use code of receiving warehouse.				

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.

CTT Transaction Totals

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

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	N0	1/6	Must use

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

Pos: 020	Max: 1
Summary -	
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:

<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	NO	1/10	Must
use SE02	329	Transaction Set Control Number	M	AN	4/9	
Must use						

Comments:

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

GE Functional Group Trailer

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

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 GE02	28	Group Control Number	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.

IEA

Interchange Control Trailer

Pos:	Max: 1
Not Defined -	
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:

<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 IEA02	I12	Interchange Control Number	M	N0	9/9	
Must use						

Example

```

ISA~00~          ~00~          ~01~999999999US   ~ZZ~GGGGGGGGGGGGG
~120708~1347~U~00200~000004834~0~P~>< GS~IB~999999999USR~GGGGGGGGGG~120708~1347~2179~X~003060<
ST~846~021790001<
BIA~00~AA~120707232341~120707
< LIN~~MN~STAA1000100<
N1~WH~FERRET MICRO~92~10<
LIN~~MN~STAA1000101<
N1~WH~FERRET MICRO~92~10<
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N1~WH~FERRET MICRO~92~10<
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N1~WH~FERRET MICRO~92~10<
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MICRO~92~10<
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N1~WH~FERRET
MICRO~92~10<
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N1~WH~FERRET
MICRO~92~10<
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QTY~36~32~EA<
N1~WH~FERRET
MICRO~92~10<
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N1~WH~FERRET
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MICRO~92~10<
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N1~WH~FERRET
MICRO~92~10<
LIN~~MN~STAX500102<
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N1~WH~FERRET
MICRO~92~10<
LIN~~MN~STAY1000102<
N1~WH~FERRET
MICRO~92~10<

```

05/03/21
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N1~WH~FERRET MICRO~92~10<
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< QTY~36~2~EA<
N1~WH~FERRET MICRO~92~10<
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QTY~36~120~EA<
N1~WH~FERRET
MICRO~92~10<
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N1~WH~FERRET
MICRO~92~10<
LIN~~MN~STBC2000101<

N1~WH~FERRET
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 LIN~~MN~STBC4000100<
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05/03/21
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<
ST~846~021790002
<

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