



# Radial

*EDI 846 Inventory Inquiry/Advice*

*ANSI X12 VERSION 4010*

*DROP SHIP MANAGER*

## CONTENTS

Clarifications & Definitions .....	3
846 Overview .....	4
ISA Interchange Control Header .....	5
GS Functional Group Header .....	7
ST Transaction Set Header .....	8
BIA Beginning Segment for Inventory Inquiry/Advice .....	9
LIN Item Identification .....	10
QTY Quantity .....	11
DTM Date/Time Reference .....	12
CTT Transaction Totals.....	13
SE Transaction Set Trailer .....	14
GE Functional Group Trailer .....	14
IEA Interchange Control Trailer .....	16

## CLARIFICATIONS & DEFINITIONS

Within the “Req” column at the overview, segment and element level:

- *“M” indicates that this is a required segment and will be transmitted in every 846 transaction.*
- *“O” indicates that this field/segment is optional but may be used and should be expected in the 846 transaction.*

Within the “Usage” column at the overview, segment and element level:

- *“Must use” indicates that the associated overview, segment or element that are marked as “Must use” will be transmitted in the 846 transaction.*
- *“Used” indicates that the associated overview, segment or element is optional but may be used and should be expected in the 846 transaction.*
- *“Not used” indicates that the associated overview, segment or element will not be transmitted in the 846 transaction.*

## 846 OVERVIEW

### Segments:

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

### Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	ST	Transaction Set Header	M	1		Must use
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1		Must use

### Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
LOOP ID – LIN					10000	
010	LIN	Item Identification	M	1		Must use
LOOP ID – QTY					99	
320	QTY	Quantity	M	1		Must use
355	DTM	Date/Time Reference	M	10		Must use

### Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	CTT	Transaction Totals	O	1		Used
080	SE	Transaction Set Trailer	M	1		Must use

### Segments:

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

## ISA INTERCHANGE CONTROL HEADER

<b>Pos:</b>	<b>Max: 1</b>
<b>Loop: N/A</b>	<b>Elements: 16</b>
	<b>Mandatory</b>

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	<b>Authorization Information Qualifier</b> Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use
ISA02	I02	<b>Authorization Information</b> 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)	M	AN	10/10	Must use
ISA03	I03	<b>Security Information Qualifier</b> Description: Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use
ISA04	I04	<b>Security Information</b> 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)	M	AN	10/10	Must use
ISA05	I05	<b>Interchange ID Qualifier</b> Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	<b>Interchange Sender ID</b> 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	M	AN	15/15	Must use
ISA07	I05	<b>Interchange ID Qualifier</b> Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA08	I07	<b>Interchange Receiver ID</b> 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	M	AN	15/15	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA09	I08	<b>Interchange Date</b> Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	<b>Interchange Time</b> Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	<b>Interchange Control Standards Identifier</b> 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.	M	ID	1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b> Description: This version number covers the interchange control segments All valid standard codes are used.	M	ID	5/5	Must use
ISA13	I12	<b>Interchange Control Number</b> Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	<b>Acknowledgment Requested</b> Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use
ISA15	I14	<b>Usage Indicator</b> Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	Must use
ISA16	I15	<b>Component Element Separator</b> 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		1/1	Must use

## GS FUNCTIONAL GROUP HEADER

<b>Pos:</b>	<b>Max: 1</b>
<b>Loop: N/A</b>	<b>Elements: 8</b>
	<b>Mandatory</b>

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	<b>Functional Identifier Code</b> Description: Code identifying a group of application related transaction sets All valid standard codes are used.	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	<b>Time</b> Description: Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23) and M = minutes (00-59)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> 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 All valid standard codes are used.	M	AN	1/12	Must use

## ST TRANSACTION SET HEADER

Pos: 010	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	<b>Transaction Set Identifier Code</b> Description: Code uniquely identifying a Transaction Set All valid standard codes are used.	M	ID	3/3	Must use
ST02	329	<b>Transaction Set Control Number</b> Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

### Semantics:

- 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

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

### Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
BIA01	353	<b>Transaction Set Purpose Code</b> Description: Code identifying purpose of transaction set  <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 80px;"></td> <td style="border-bottom: 1px solid black; width: 100px;"></td> </tr> <tr> <td>00</td> <td>Original</td> </tr> </table>			00	Original	M	ID	2/2	Must use
00	Original									
BIA02	755	<b>Report Type Code</b> Description: Code indicating the title or contents of a document, report or supporting item  <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 80px;"></td> <td style="border-bottom: 1px solid black; width: 100px;"></td> </tr> <tr> <td>PI</td> <td>Product Availability Inquiry</td> </tr> </table>			PI	Product Availability Inquiry	M	ID	2/2	Must use
PI	Product Availability Inquiry									
BIA03	127	<b>Reference Identification</b> Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use				
BIA04	373	<b>Date</b> Description: Date expressed as CCYYMMDD	M	DT	8/8	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.

## LIN ITEM IDENTIFICATION

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

To specify basic and most frequently used line item data

### Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
LIN01	350	<b>Assigned Identification</b> Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not used				
LIN02	235	<b>Product/Service ID Qualifier</b> Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;"><u>Code</u></td> <td style="text-align: center; border-bottom: 1px solid black;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">UP</td> <td style="text-align: center;">U.P.C. Consumer Package Code (1-5-5-1)</td> </tr> </table>	<u>Code</u>	<u>Name</u>	UP	U.P.C. Consumer Package Code (1-5-5-1)	O	ID	2/2	Not used
<u>Code</u>	<u>Name</u>									
UP	U.P.C. Consumer Package Code (1-5-5-1)									
LIN03	234	<b>Product/Service ID</b> Description: Identifying number for a product or service	O	AN	1/48	Not used				
LIN04	235	<b>Product/Service ID Qualifier</b> Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;"><u>Code</u></td> <td style="text-align: center; border-bottom: 1px solid black;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">VN</td> <td style="text-align: center;">Vendor's (Seller's) Item Number</td> </tr> </table>	<u>Code</u>	<u>Name</u>	VN	Vendor's (Seller's) Item Number	X	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
VN	Vendor's (Seller's) Item Number									
LIN05	234	<b>Product/Service ID</b> Description: Identifying number for a product or service	X	AN	1/48	Must use				
LIN06	235	<b>Product/Service ID Qualifier</b> Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;"><u>Code</u></td> <td style="text-align: center; border-bottom: 1px solid black;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">SK</td> <td style="text-align: center;">SKU</td> </tr> </table>	<u>Code</u>	<u>Name</u>	SK	SKU	X	ID	2/2	Must use
<u>Code</u>	<u>Name</u>									
SK	SKU									
LIN07	234	<b>Product/Service ID</b> Description: Identifying number for a product or service	X	AN	1/48	Must use				

## QTY QUANTITY

Pos: 180	Max: 1
Detail - Mandatory	
Loop: QTY	Elements: 3

To specify the total invoice discounts and amounts

### Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
QTY01	673	<b>Quantity Qualifier</b> Description: Code specifying the type of quantity  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>17</td> <td>Quantity on Hand</td> </tr> <tr> <td>BQ</td> <td>Backorder Quantity</td> </tr> <tr> <td>BA</td> <td>Due-In ("Expected Quantity")</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	17	Quantity on Hand	BQ	Backorder Quantity	BA	Due-In ("Expected Quantity")	M	ID	2/2	Must use
<u>Code</u>	<u>Name</u>													
17	Quantity on Hand													
BQ	Backorder Quantity													
BA	Due-In ("Expected Quantity")													
QTY02	380	<b>Quantity</b> Description: Numeric value of quantity	M	R	1/15	Must use								
QTY03	C001	<b>Composite Unit of Measure</b> Definition: To identify a composite unit of measure  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	O	ID	2/2	Used				
<u>Code</u>	<u>Name</u>													
EA	Each													

### Comments:

3. The QTY01 code indicates that the quantity passed represents the current on-hand, on backorder, or expected in stock amounts.
4. When the quantity available for an item is 0, it must be included in at least one transmission of the 846 to adjust all open quantities previously provided as available for sale.
5. When QTY01 = BA, the amount passed in QTY02 is considered expected goods to be available by the date provided within the corresponding DTM segment
6. When QTY01 = BQ, the amount passed in QTY02 is considered product already promised on other orders that must be fulfilled once the product has come back in stock again.

## DTM DATE/TIME REFERENCE

Pos: 355	Max: 10
Detail - Mandatory	
Loop: QTY	Elements: 2

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

### Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage						
DTM01	374	<b>Date/Time Qualifier</b> Description: Code specifying type of date or time, or both date and time  <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 100px;"></td> <td style="border-bottom: 1px solid black; width: 100px;"></td> </tr> <tr> <td style="text-align: center;">Code</td> <td style="text-align: center;">Name</td> </tr> <tr> <td style="text-align: center;">139</td> <td style="text-align: center;">Estimated ("Expected Quantity")</td> </tr> </table>			Code	Name	139	Estimated ("Expected Quantity")	M	ID	1/1	Must use
Code	Name											
139	Estimated ("Expected Quantity")											
DTM02	373	<b>Date</b> Description: Date expressed as CCYYMMDD	M	DT	1/1	Must use						

### COMMENTS:

1. The DTM segment is only necessary when paired with a QTY segment, where QTY01 = BA to indicate on order product. For instances where QTY01 = 17 or QTY01 = BQ, the current date will be assumed for applying On Hand and Backorder quantity values.
2. DTM01 = 018 can be sent for QTY01 = 17 if necessary but it will be ignored by Radial.
3. When DTM01 = 139, the date represents the estimated availability date for expected quantities earlier passed in QTY segment with QTY01 = BA.

## CTT TRANSACTION TOTALS

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Summary - Optional</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

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	<b>Number of Line Items</b> Description: Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b> 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.	O	R	1/10	Used

## SE TRANSACTION SET TRAILER

<b>Pos: 030</b>	<b>Max: 1</b>
<b>Summary - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

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	<b>Number of Included Segments</b> Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

### Comments:

- SE is the last segment of each transaction set.

## GE FUNCTIONAL GROUP TRAILER

<b>Pos:</b>	<b>Max: 1</b>
- Mandatory	
<b>Loop: N/A</b>	<b>Elements: 2</b>

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	<b>Number of Transaction Sets Included</b> 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	<b>Group Control Number</b> Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

### Semantics:

- 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:

- 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

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

<b>Pos:</b>	<b>Max: 1</b>
- Mandatory	
<b>Loop: N/A</b>	<b>Elements: 2</b>

### Element Summary:

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