ANSI X12 version 4010 856 Advance Ship Notice

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856 Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information.The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Segments:

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

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**200000**		
010	HL	Hierarchical Level	M	1		C2/010	Must use
020	LIN	Item Identification	O	1			Used
030	SN1	Item Detail (Shipment)	O	1			Used
050	PRF	Purchase Order Reference	O	1			Used
070	PID	Product/Item Description	O	200			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
130	TD3	Carrier Details (Equipment)	O	12			Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					**200**		
220	N1	Name	O	1			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used

Summary:

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

Segments:

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

Notes:

3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

ISA Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

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	**Authorization Information Qualifier** **Description:** Code to identify the type of information in the Authorization Information Code Name 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
ISA02	I02	**Authorization Information** **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	**Security Information Qualifier** **Description:** Code to identify the type of information in the Security Information Code Name 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
ISA04	I04	**Security Information** **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	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name 12 Phone (Telephone Companies)	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID** **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	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name 01 Duns (Dun & Bradstreet) 09 X.121 (CCITT) 12 Phone (Telephone Companies) ZZ Mutually Defined	M	ID	2/2	Must use
ISA08	I07	**Interchange Receiver ID** **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other	M	AN	15/15	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		parties sending to them will use this as a receiving ID to route data to them				
ISA09	**I08**	**Interchange Date** **Description:** Date of the interchange	**M**	**DT**	**6/6**	**Must use**
ISA10	**I09**	**Interchange Time** **Description:** Time of the interchange	**M**	**TM**	**4/4**	**Must use**
ISA11	**I10**	**Interchange Control Standards Identifier** **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**	**Interchange Control Version Number** **Description:** This version number covers the interchange control segments **Code Name** 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	**M**	**ID**	**5/5**	**Must use**
ISA13	**I12**	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	**M**	**N0**	**9/9**	**Must use**
ISA14	**I13**	**Acknowledgment Requested** **Description:** Code sent by the sender to request an interchange acknowledgment (TA1) **Code Name** 0 No Acknowledgment Requested	**M**	**ID**	**1/1**	**Must use**
ISA15	**I14**	**Usage Indicator** **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information **Code Name** P Production Data T Test Data	**M**	**ID**	**1/1**	**Must use**
ISA16	**I15**	**Component Element Separator** **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

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

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	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets Code Name SH Ship Notice/Manifest (856)	M	ID	2/2	Must use
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD	M	TM	4/8	Must use
GS06	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	**Responsible Agency Code** **Description:** Code used in conjunction with Data Element 480 to identify the issuer of the standard Code Name X Accredited Standards Committee X12	M	ID	1/2	Must use
GS08	480	**Version / Release / Industry Identifier Code** **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 Code Name 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

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

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**	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set Code Name 856 Ship Notice/Manifest	**M**	**ID**	**3/3**	**Must use**
ST02	**329**	**Transaction Set Control Number** **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:

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).

BSN Beginning Segment for Ship Notice

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

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	**353**	**Transaction Set Purpose Code** **Description:** Code identifying purpose of transaction set Code Name 00 Original	**M**	**ID**	**2/2**	**Must use**
BSN02	**396**	**Shipment Identification** **Description:** A unique control number assigned by the original shipper to identify a specific shipment	**M**	**AN**	**2/30**	**Must use**
BSN03	**373**	**Date** **Description:** Date expressed as CCYYMMDD	**M**	**DT**	**8/8**	**Must use**
BSN04	**337**	**Time** **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)	**M**	**TM**	**4/8**	**Must use**

Syntax:

1. BSN07 C0706 -- If BSN07 is present, then BSN06 is required

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	**628**	**Hierarchical ID Number** **Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN**	**1/12**	**Must use**
HL02	**734**	**Hierarchical Parent ID Number** **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**AN**	**1/12**	**Used**
HL03	**735**	**Hierarchical Level Code** **Description:** Code defining the characteristic of a level in a hierarchical structure Code Name I Item O Order S Shipment	**M**	**ID**	**1/2**	**Must use**

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	**350**	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**AN**	**1/20**	**Used**
LIN02	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name BP Buyer's Part Number UP U.P.C. Consumer Package Code (1-5-5-1) VP Vendor's (Seller's) Part Number	**M**	**ID**	**2/2**	**Must use**
LIN03	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	**M**	**AN**	**1/48**	**Must use**
LIN04	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name BP Buyer's Part Number UP U.P.C. Consumer Package Code (1-5-5-1) VP Vendor's (Seller's) Part Number	**C**	**ID**	**2/2**	**Used**
LIN05	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	**C**	**AN**	**1/48**	**Used**
LIN06	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name BP Buyer's Part Number UP U.P.C. Consumer Package Code (1-5-5-1) VP Vendor's (Seller's) Part Number	**C**	**ID**	**2/2**	**Used**
LIN07	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	**C**	**AN**	**1/48**	**Used**

Syntax:

1. LIN04 P0405 -- If either LIN04 or LIN05 are present, then the others are required.
2. LIN06 P0607 -- If either LIN06 or LIN07 are present, then the others are required

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 5

To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN101	350	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SN102	382	**Number of Units Shipped** **Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	**Unit or Basis for Measurement Code** **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 FT Foot LB Pound	M	ID	2/2	Must use
SN105	330	**Quantity Ordered** **Description:** Quantity ordered	C	R	1/15	Used
SN106	355	**Unit or Basis for Measurement Code** **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 FT Foot LB Pound	C	ID	2/2	Used

Syntax:

1. SN105 P0506 -- If either SN105 or SN106 are present, then the others are required.

Semantics:

1. SN101 is the ship notice line-item identification.

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	**324**	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	**M**	**AN**	**1/22**	**Must use**
PRF04	**373**	**Date** **Description:** Date expressed as CCYYMMDD	**O**	**DT**	**8/8**	**Used**

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	**349**	**Item Description Type** **Description:** Code indicating the format of a description Code Name F Free-form	**M**	**ID**	**1/1**	**Must use**
PID05	**352**	**Description** **Description:** A free-form description to clarify the related data elements and their content	**C**	**AN**	**1/80**	**Used**

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is 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.

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	**103**	**Packaging Code** **Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required All valid standard codes are used.	**O**	**AN**	**3/5**	**Used**
TD102	**80**	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	**C**	**N0**	**1/7**	**Used**
TD106	**187**	**Weight Qualifier** **Description:** Code defining the type of weight Code Name G Gross Weight N Actual Net Weight	**O**	**ID**	**1/2**	**Used**
TD107	**81**	**Weight** **Description:** Numeric value of weight	**C**	**R**	**1/10**	**Used**
TD108	**355**	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name LB Pound	**C**	**ID**	**2/2**	**Used**

Syntax:

1. TD101 C0102 -- If TD101 is present, then TD102 is required
2. TD103 C0304 -- If TD103 is present, then TD104 is required
3. TD106 C0607 -- If TD106 is present, then TD107 is required
4. TD107 P0708 -- If either TD107 or TD108 are present, then the others are required.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120 **Max: 12**
Detail - Optional
Loop: HL **Elements: 4**

To specify the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	**66**	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) Code Name 2 Standard Carrier Alpha Code (SCAC)	**C**	**ID**	**1/2**	**Used**
TD503	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Used**
TD504	**91**	**Transportation Method/Type Code** **Description:** Code specifying the method or type of transportation for the shipment All valid standard codes are used.	**C**	**ID**	**1/2**	**Used**
TD505	**387**	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	**C**	**AN**	**1/35**	**Used**

Syntax:

1. TD502 R0204050612 -- At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. TD502 C0203 -- If TD502 is present, then TD503 is required

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 2

To specify transportation details relating to the equipment used by the carrier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD301	**40**	**Equipment Description Code** **Description:** Code identifying type of equipment used for shipment All valid standard codes are used.	**C**	**ID**	**2/2**	**Used**
TD303	**207**	**Equipment Number** **Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	**C**	**AN**	**1/10**	**Used**

Syntax:

1. TD301 E0110 -- Only one of TD301 or TD310 may be present.
2. TD302 C0203 -- If TD302 is present, then TD303 is required

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 3

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	**128**	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification Code Name CN Carrier's Reference Number (PRO/Invoice) PK Packing List Number	**M**	**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	**C**	**AN**	**1/30**	**Used**
REF03	**352**	**Description** **Description:** A free-form description to clarify the related data elements and their content	**C**	**AN**	**1/80**	**Used**

Syntax:

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

Semantics:

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

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time Code Name 011 Shipped	M	ID	3/3	Must use
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD	C	DT	8/8	Used

Syntax:

1. DTM02 R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

N1 Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual Code Name SF Ship From ST Ship To	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	C	AN	1/60	Used
N103	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) Code Name 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 12 Telephone Number (Phone) 92 Assigned by Buyer or Buyer's Agent ZZ Mutually Defined	C	ID	1/2	Used
N104	67	**Identification Code** **Description:** Code identifying a party or other code	C	AN	2/80	Used

Syntax:

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

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use

N4 Geographic Location

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

To specify the geographic place of the named party

Element Summary:

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

Syntax:

1. N406 C0605 -- If N406 is present, then N405 is 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

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 4

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	**Number of Line Items** **Description:** Total number of line items in the transaction set	M	N0	1/6	Must use
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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.---------1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field.	O	R	1/10	Used
CTT03	81	**Weight** **Description:** Numeric value of weight	C	R	1/10	Used
CTT04	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name LB Pound	C	ID	2/2	Used

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others 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 - Mandatory	
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	**96**	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0**	**1/10**	**Must use**
SE02	**329**	**Transaction Set Control Number** **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:

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

GE Functional Group Trailer

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

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	**Number of Transaction Sets Included** **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	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	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
- Mandatory	
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:

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