J&R EDI Specifications
856 Advance Ship Notice/Manifest
X12 - 4010
Version: 1.0

Publication Date: February 15, 2006

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			Must Use
	GS	Functional Group Header	M	1			Must Use

Heading:

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

Detail:

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

Summary:

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

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**	**M**	**ID**	**2/2**	**Must use**
		Description: Code to identify the type of information in the Authorization Information				
		All valid standard codes are used.				
ISA02	I02	**Authorization Information**	**M**	**AN**	**10/10**	**Must use**
		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)				
ISA03	I03	**Security Information Qualifier**	**M**	**ID**	**2/2**	**Must use**
		Description: Code to identify the type of information in the Security Information				
		All valid standard codes are used.				
ISA04	I04	**Security Information**	**M**	**AN**	**10/10**	**Must use**
		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)				
ISA05	I05	**Interchange ID Qualifier**	**M**	**ID**	**2/2**	**Must use**
		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.				

Code	Name
01	Duns (Dun & Bradstreet)
02	SCAC (Standard Carrier Alpha Code)
03	FMC (Federal Maritime Commission)
04	IATA (International Air Transport Association)
08	UCC EDI Communications ID (Comm ID)
09	X.121 (CCITT)
10	Department of Defense (DoD) Activity Address Code
11	DEA (Drug Enforcement Administration)
12	Phone (Telephone Companies)
13	UCS Code (The UCS Code is a Code Used for UCS Transmissions; it includes the Area Code and Telephone Number of a Modem; it Does Not Include Punctuation, Blanks or Access Code)
14	Duns Plus Suffix
15	Petroleum Accountants Society of Canada Company Code
16	Duns Number With 4-Character Suffix
17	American Bankers Association (ABA) Transit Routing Number (Including Check Digit,9 Digit)
18	Association of American Railroads (AAR) Standard Distribution Code
19	EDI Council of Australia (EDICA) Communications ID Number (COMM ID)
NR	National Retail Merchants Association (NRMA) - Assigned
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	**I06**	**Interchange Sender ID**	**M**	**AN**	**15/15**	**Must use**
		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				
ISA07	**I05**	**Interchange ID Qualifier**	**M**	**ID**	**2/2**	**Must use**
		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.				

Code	Name
01	Duns (Dun & Bradstreet)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	**I07**	**Interchange Receiver ID**	**M**	**AN**	**15/15**	**Must use**
		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				
		User: *Test: 172730095* *Production: 172730095*				
ISA09	**I08**	**Interchange Date**	**M**	**DT**	**6/6**	**Must use**
		Description: Date of the interchange				
ISA10	**I09**	**Interchange Time**	**M**	**TM**	**4/4**	**Must use**
		Description: Time of the interchange				
ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID**	**1/1**	**Must use**
		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.				
ISA12	**I11**	**Interchange Control Version Number**	**M**	**ID**	**5/5**	**Must use**
		Description: This version number covers the interchange control segments All valid standard codes are used.				
ISA13	**I12**	**Interchange Control Number**	**M**	**N0**	**9/9**	**Must use**
		Description: A control number assigned by the interchange sender				
ISA14	**I13**	**Acknowledgment Requested**	**M**	**ID**	**1/1**	**Must use**
		Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.				
ISA15	**I14**	**Usage Indicator**	**M**	**ID**	**1/1**	**Must use**
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.				
ISA16	**I15**	**Component Element Separator**	**M**		**1/1**	**Must use**
		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				

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 All valid standard codes are used.	**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, 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**
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 All valid standard codes are used.	**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 All valid standard codes are used.	**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

<table>
<tr><td>Pos: 010</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

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**	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code	Name
856	Ship Notice/Manifest

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

User:

EXAMPLE: ST*856*000132001

BSN   Beginning Segment for Ship Notice

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**	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code	Name
00	Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use

Description: A unique control number assigned by the original shipper to identify a specific shipment

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN03	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN04	337	**Time**	M	TM	4/8	Must use

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)

Comments:

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

User:

EXAMPLE: BSN*00*108263311480720*20060120*00201700

HL   Hierarchical Level

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**	**M**	**AN**	**1/12**	**Must use**
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	**734**	**Hierarchical Parent ID Number**	**O**	**AN**	**1/12**	**Used**
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
		User: This is blank for the first HL occurrence (the root hierarchical level)				
HL03	**735**	**Hierarchical Level Code**	**M**	**ID**	**1/2**	**Must use**
		Description: Code defining the characteristic of a level in a hierarchical structure				

Code	Name
I	Item
J	Part Characteristic
O	Order
P	Pack
S	Shipment

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL04	**736**	**Hierarchical Child Code**	**O**	**ID**	**1/1**	**Used**
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described				

Code	Name
0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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.

User:

EXAMPLE: HL*2*1*O*1

LIN   Item Identification

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

User: Purchase order line number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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
BP	Buyer's Part Number
VP	Vendor's (Seller's) Part Number
UP	U.P.C. Consumer Package Code (1-5-5-1)
MG	Manufacturer's Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use

Description: Identifying number for a product or service

Comments:

1.   See the Data Dictionary for a complete list of IDs.

User:

EXAMPLE: LIN*000001*BP*SPP HR1799*VP*H1799*UP*012367699985*MG*1799-HR

SN1   Item Detail (Shipment)

Pos: 030	**Max: 1**
Detail - Optional	
Loop: HL	**Elements: 4**

To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	**M**	**ID**	**2/2**	**Must use**

      Code   Name
      EA   Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN105	**330**	**Quantity Ordered** **Description:** Quantity ordered	**C**	**R**	**1/15**	**Used**
SN108	**668**	**Line Item Status Code** **Description:** Code specifying the action taken by the seller on a line item requested by the buyer	**O**	**ID**	**2/2**	**Used**

      Code   Name
      AC   Item Accepted and Shipped
      BP   Item Accepted - Partial Shipment, Balance Backordered

User:

EXAMPLE: SN1*50*90*EA*****AC

PRF   **Purchase Order Reference**

To provide reference to a specific purchase order

Element Summary:

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

User:

EXAMPLE: PRF*200111***20060110

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**	**M**	**ID**	**1/1**	**Must use**

Description: Code indicating the format of a description

Code	Name
F	Free Form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	**352**	**Description**	**C**	**AN**	**1/80**	**Used**

Description: A free-form description to clarify the related data elements and their content

User:

EXAMPLE: PID*F****5.1 Megapixel - Digital Camera

TD1　Carrier Details (Quantity and Weight)

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**	O	AN	3/5	Used

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

Code	Name
CTN	Carton

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD102	80	**Lading Quantity**	C	N0	1/7	Used

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD106	187	**Weight Qualifier**	O	ID	1/2	Used

Description: Code defining the type of weight

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD107	81	**Weight**	C	R	1/10	Used

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD108	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used

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

User:

EXAMPLE: TD1*CTN*20****G*1800*LB

TD5   Carrier Details (Routing Sequence/Transit Time)

<div style="border:1px solid black; float:right">

Pos: 120   Max: 12
Detail - Optional
Loop: HL   Elements: 6

</div>

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	**133**	**Routing Sequence Code**	**O**	**ID**	**1/2**	**Used**

Description: Code describing the relationship of a carrier to a specific shipment movement

Code Name
O   Origin Carrier (Air, Motor or Ocean)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	**66**	**Identification Code Qualifier**	**C**	**ID**	**1/2**	**Used**

Description: Code designating the system/method of code structure used for Identification Code (67)

Code Name
2   Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	**67**	**Identification Code**	**C**	**AN**	**2/80**	**Used**

Description: Code identifying a party or other code

User: SCAC code if available

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD504	**91**	**Transportation Method/Type Code**	**C**	**ID**	**1/2**	**Used**

Description: Code specifying the method or type of transportation for the shipment

User: Not used

Code Name
A   Air
AE   Air Express
CE   Customer Pickup / Customer's Expense
H   Customer Pickup
J   Motor
LT   Less Than Trailer Load (LTL)
M   Motor (Common Carrier)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD505	**387**	**Routing**	**C**	**AN**	**1/35**	**Used**

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD506	**368**	**Shipment/Order Status Code**	**C**	**ID**	**2/2**	**Used**

Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

Code Name
CC   Shipment Complete on (Date)
PR   Partial Shipment

User:

EXAMPLE: TD5*O*2*UPSN*M*UPS GROUND*CC

REF   Reference Identification

Pos: 150   Max: >1
Detail - Optional
Loop: HL   Elements: 2

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	**128**	**Reference Identification Qualifier**	**M**	**ID**	**2/3**	**Must use**

Description: Code qualifying the Reference Identification

Code	Name
CN	Carrier's Reference Number (PRO/Invoice)
IV	Seller's Invoice Number
SE	Serial Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	**127**	**Reference Identification**	**C**	**AN**	**1/30**	**Used**

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User: Carrier reference number. UPS and FedEx will have 1 tracking number per carton shipped. LTL carriers will usually have 1 tracking number for the entire shipment

User:

EXAMPLE: REF*CN*6789162A

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**	**M**	**ID**	**3/3**	**Must use**

Description: Code specifying type of date or time, or both date and time

Code	Name
011	Shipped

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	**373**	**Date**	**C**	**DT**	**8/8**	**Used**

Description: Date expressed as CCYYMMDD

User:

EXAMPLE: DTM*011*20060120

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**	**M**	**ID**	**2/3**	**Must use**

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
SF	Ship From
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	**93**	**Name**	**C**	**AN**	**1/60**	**Used**

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	**66**	**Identification Code Qualifier**	**C**	**ID**	**1/2**	**Used**

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	**67**	**Identification Code**	**C**	**AN**	**2/80**	**Used**

Description: Code identifying a party or other code

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.

User:

EXAMPLE: N1*SF*DISTRIBUTION CENTER-NEW JERSEY*91*40

N3   Address Information

<table>
<tr><td></td><td>Pos: 240</td><td>Max: 2</td></tr>
<tr><td></td><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: N1</td><td colspan="2">Elements: 2</td></tr>
</table>

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**
N302	166	**Address Information** **Description:** Address information	O	AN	1/55	**Used**

User:

EXAMPLE: N3*262 DISTRIBUTION BLVD

N4 Geographic Location

Pos: 250 **Max: 1**
Detail - Optional
Loop: N1 **Elements: 4**

To specify the geographic place of the named party

Element Summary:

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

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

User:

EXAMPLE: N4* NEWARK*NJ*07102*US

CTT   Transaction Totals

Pos: 010   Max: 1
Summary - Optional
Loop: N/A   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
CTT01	354	**Number of Line Items**	M	N0	1/6	**Must use**

Description: Total number of line items in the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT02	347	**Hash Total**	O	R	1/10	**Used**

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.

User: Total number of quantity shipped (SN102)

Comments:

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

User:

EXAMPLE: CTT*4*50

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**	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.

User:

EXAMPLE: SE*18*000132001

				Pos:		Max: 1

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**	**M**	**N0**	**1/6**	**Must use**
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	**28**	**Group Control Number**	**M**	**N0**	**1/9**	**Must use**
		Description: Assigned number originated and maintained by the sender				

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

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