

# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Introduction:

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.

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
M	040	DTM	Date/Time Reference	M	10		

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						200000	
<b>LOOP ID - HL</b>							
M	010	HL	Hierarchical Level	M	1		c1
M	050	PRF	Purchase Order Reference	M	1		
M	110	TD1	Carrier Details (Quantity and Weight)	M	20		
M	120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		
M	150	REF	Reference Identification	M	>1		
	150	REF	Reference Identification	O	>1		
	150	REF	Reference Identification	O	>1		
	150	REF	Reference Identification	O	>1		
						200	
<b>LOOP ID - N1</b>							
M	220	N1	Name	M	1		
	230	N2	Additional Name Information	O	2		
M	240	N3	Address Information	M	2		
M	250	N4	Geographic Location	M	1		
						200	
<b>LOOP ID - N1</b>							
M	220	N1	Name	M	1		
	230	N2	Additional Name Information	O	2		
M	240	N3	Address Information	M	2		
M	250	N4	Geographic Location	M	1		
						1	
<b>LOOP ID - HL</b>							
M	260	HL	Hierarchical Level	M	1		
M	270	LIN	Item Identification	M	1		
M	280	SN1	Item Detail (Shipment)	M	1		

	290	REF	Reference Identification	O	1	
<hr/>						
LOOP ID - HL					1	
M	260	HL	Hierarchical Level	M	1	
M	270	LIN	Item Identification	M	1	
M	280	SN1	Item Detail (Shipment)	M	1	
	290	REF	Reference Identification	O	1	
<hr/>						
LOOP ID - HL					1	
M	260	HL	Hierarchical Level	M	1	
M	270	LIN	Item Identification	M	1	
M	280	SN1	Item Detail (Shipment)	M	1	
	290	REF	Reference Identification	O	1	

**Summary:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	020	SE	Transaction Set Trailer	M	1		

**Transaction Set Comments**

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

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Comments:**  
**Business Rules:** Variable Name: STST

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 856	M ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set System Generated	M AN 4/9

**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:** 1 If BSN07 is present, then BSN06 is required.  
**Semantic Notes:** 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.

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00=Original 01=Cancellation 02=Add 03=Delete 04=Change 05=Replace CO=Corrected Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	BSN02	396	<b>Shipment Identification</b> A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
M	BSN03	373	<b>Date</b> Date expressed as CCYYMMDD YYYYMMDD	M DT 8/8
M	BSN04	337	<b>Time</b> 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) HHMM	M TM 4/8
	BSN05	1005	<b>Hierarchical Structure Code</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 4/4
	BSN06	640	<b>Transaction Type Code</b> Code specifying the type of transaction Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
	BSN07	641	<b>Status Reason Code</b> Code indicating the status reason Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 3/3

**Segment:** **DTM** Date/Time Reference  
**Position:** 040  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011= SHIPPED Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD YYYYMMDD Date the item was shipped	M DT 8/8
	DTM03	337	<b>Time</b> 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) HHMM Time the item was shipped	O TM 4/8
	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow ET=Eastern Time CT=Central Time MT=Mountain Time PT=Pacific Time Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	DTM05	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
	DTM06	1251	<b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

**Segment:** **HL** Hierarchical Level  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 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.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	<b>Hierarchical ID Number</b> M AN 1/12 A unique number assigned by the sender to identify a particular data segment in a hierarchical structure 1
	HL02	734	<b>Hierarchical Parent ID Number</b> O AN 1/12 Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to BLANK
M	HL03	735	<b>Hierarchical Level Code</b> M ID 1/2 Code defining the characteristic of a level in a hierarchical structure S = Shipment I = Item O = Order P = Pack Refer to 004010 Data Element Dictionary for acceptable code values.
	HL04	736	<b>Hierarchical Child Code</b> O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.

**Segment:** **PRF** Purchase Order Reference  
**Position:** 050  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To provide reference to a specific purchase order  
**Syntax Notes:**  
**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
	PRF02	328	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
	PRF03	327	<b>Change Order Sequence Number</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O AN 1/8
	PRF04	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
	PRF05	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
	PRF06	367	<b>Contract Number</b> Contract number	O AN 1/30
	PRF07	92	<b>Purchase Order Type Code</b> Code specifying the type of Purchase Order Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:**

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TD101	103	<b>Packaging Code</b> 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 BAG= Bag BBL= Barrel BOX= Box CAS= Case CNT= Container DRM= Drum PCS= Pieces PCK= Package PLT= Pallet ROL= Roll SHT= Sheet SPL= Spool TNK= Tank Refer to 004010 Data Element Dictionary for acceptable code values.	M AN 3/5
M	TD102	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity	M N0 1/7
	TD103	23	<b>Commodity Code Qualifier</b> Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
	TD104	22	<b>Commodity Code</b> Code describing a commodity or group of commodities	X AN 1/30
	TD105	79	<b>Lading Description</b> Description of an item as required for rating and billing purposes	O AN 1/50
M	TD106	187	<b>Weight Qualifier</b> Code defining the type of weight G= Gross Weight N= Actual Net Weight Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
M	TD107	81	<b>Weight</b> Numeric value of weight	M R 1/10
M	TD108	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB= Pounds OZ= Ounce- Av	M ID 2/2



TG= Gross Ton

Refer to 004010 Data Element Dictionary for acceptable code values.

**TD109**      **183**      **Volume**      **X**      **R 1/8**

Value of volumetric measure

**TD110**      **355**      **Unit or Basis for Measurement Code**      **X**      **ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)

**Position:** 120

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 12

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

**Syntax Notes:**

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

**Semantic Notes:**

- 1 TD515 is the country where the service is to be performed.

**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.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	TD501	133 Routing Sequence Code	M ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	TD502	66 Identification Code Qualifier	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		2	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	TD503	67 Identification Code	M AN 2/80
		Code identifying a party or other code	
		CARRIER'S SCAC CODE	
M	TD504	91 Transportation Method/Type Code	M ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A=Air	
		D=Parcel Post	
		E=Expedited Truck	
		M=Motor (common carrier)	
		LT=Less than truck load	
		X=Intermodal (Piggyback)	
		ZZ=Mutually Defined	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	TD505	387 Routing	O AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
		Description of the service level of the shipment. Examples (UPS-GROUND, UPS-2ND DAY, UPS-NEXT DAY, MOTOR CARRIER, etc)	
	TD506	368 Shipment/Order Status Code	X ID 2/2
		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	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	TD507	309 Location Qualifier	O ID 1/2

		Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.		
<b>TD508</b>	<b>310</b>	<b>Location Identifier</b> Code which identifies a specific location	<b>X</b>	<b>AN 1/30</b>
<b>TD509</b>	<b>731</b>	<b>Transit Direction Code</b> The point of origin and point of direction Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b>	<b>ID 2/2</b>
<b>TD510</b>	<b>732</b>	<b>Transit Time Direction Qualifier</b> Code specifying the value of time used to measure the transit time Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b>	<b>ID 2/2</b>
<b>TD511</b>	<b>733</b>	<b>Transit Time</b> The numeric amount of transit time	<b>X</b>	<b>R 1/4</b>
<b>TD512</b>	<b>284</b>	<b>Service Level Code</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier D1= Next Day D2= Second Day D3=Third Day SG=Standard Ground Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b>	<b>ID 2/2</b>
<b>TD513</b>	<b>284</b>	<b>Service Level Code</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b>	<b>ID 2/2</b>
<b>TD514</b>	<b>284</b>	<b>Service Level Code</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b>	<b>ID 2/2</b>
<b>TD515</b>	<b>26</b>	<b>Country Code</b> Code identifying the country	<b>O</b>	<b>ID 2/3</b>

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

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

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification CN Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier There can only be one tracking number per 856.	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Shipment Tracking Number	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

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

**Comments:**  
**Notes:** UCC 128 for shipments with single tracking number and separate packages. Each separate package will need to have the UCC-128. EXCEPT FOR UPS Small Package or FedEx Single box shipments

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LS= Container ID: on the container label Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier UCC 128	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	O AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

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

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PK=Packing List Numbe Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Packing List Number	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

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

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification BM= BOL # Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier BOL #	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **N1** Name  
**Position:** 220  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**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.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SF= Ship From Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	N102	93	<b>Name</b> Free-form name	M AN 1/60
	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
	N104	67	<b>Identification Code</b> Code identifying a party or other code	X AN 2/80
X	N105	706	<b>Entity Relationship Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N106	98	<b>Entity Identifier Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3



**Segment:** N2 Additional Name Information  
**Position:** 230  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name Use for additional Sender's name information.	M AN 1/60
	N202	93	Name Free-form name Use for additional Sender's name information.	O AN 1/60

**Segment:** N3 Address Information  
**Position:** 240  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

**Segment:** **N4** Geographic Location  
**Position:** 250  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**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.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N401	19	<b>City Name</b> Free-form text for city name	M AN 2/30
M	N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency Two letter state abbreviation	M ID 2/2
M	N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) 3 to 15 alphanumeric zip code	M ID 3/15
M	N404	26	<b>Country Code</b> Code identifying the country 2 or 3 country code	M ID 2/3
	N405	309	<b>Location Qualifier</b> Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
	N406	310	<b>Location Identifier</b> Code which identifies a specific location	O AN 1/30

**Segment:** **N1** Name  
**Position:** 220  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**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.

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual ST=Ship To CN=Consignee UC=Ultimate Consignee Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	N102	93	<b>Name</b> Free-form name	M AN 1/60
	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
	N104	67	<b>Identification Code</b> Code identifying a party or other code	X AN 2/80
X	N105	706	<b>Entity Relationship Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N106	98	<b>Entity Identifier Code</b> Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3

**Segment:** N2 Additional Name Information  
**Position:** 230  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name Use for additional Sender's name information.	M AN 1/60
	N202	93	Name Free-form name Use for additional Sender's name information.	O AN 1/60

**Segment:** N3 Address Information  
**Position:** 240  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

**Segment:** **N4 Geographic Location**  
**Position:** 250  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**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.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N401	19	<b>City Name</b> Free-form text for city name	M AN 2/30
M	N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency Two letter state abbreviation.	M ID 2/2
M	N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) 3 to 15 alphanumeric zip code	M ID 3/15
M	N404	26	<b>Country Code</b> Code identifying the country 2 or 3 country code	M ID 2/3
	N405	309	<b>Location Qualifier</b> Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
	N406	310	<b>Location Identifier</b> Code which identifies a specific location	O AN 1/30

**Segment:** **HL** Hierarchical Level  
**Position:** 260  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 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.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	<b>Hierarchical ID Number</b> M AN 1/12 A unique number assigned by the sender to identify a particular data segment in a hierarchical structure 2
	HL02	734	<b>Hierarchical Parent ID Number</b> O AN 1/12 Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to 1
M	HL03	735	<b>Hierarchical Level Code</b> M ID 1/2 Code defining the characteristic of a level in a hierarchical structure S = Shipment I = Item O = Order P = Pack Refer to 004010 Data Element Dictionary for acceptable code values.
	HL04	736	<b>Hierarchical Child Code</b> O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.



<b>Segment:</b>	<b>LIN</b> Item Identification
<b>Position:</b>	270
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	LIN01	350	<b>Assigned Identification</b>	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
M	LIN02	235	<b>Product/Service ID Qualifier</b>	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			"VP" which stands for Vendor's (Seller) Part Number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LIN03	234	<b>Product/Service ID</b>	M AN 1/48
			Identifying number for a product or service	
			Product Number	
M	LIN04	235	<b>Product/Service ID Qualifier</b>	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			BP=Buyer's Part Number or PI=Purchaser's Item Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LIN05	234	<b>Product/Service ID</b>	M AN 1/48
			Identifying number for a product or service	
			Buyer's Part Number	
X	LIN06	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LIN07	234	<b>Product/Service ID</b>	X AN 1/48
X	LIN08	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LIN09	234	<b>Product/Service ID</b>	X AN 1/48
X	LIN10	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	

X	LIN11	234	Product/Service ID	X	AN 1/48
X	LIN12	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN13	234	Product/Service ID	X	AN 1/48
X	LIN14	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN15	234	Product/Service ID	X	AN 1/48
X	LIN16	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN17	234	Product/Service ID	X	AN 1/48
X	LIN18	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN19	234	Product/Service ID	X	AN 1/48
X	LIN20	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN21	234	Product/Service ID	X	AN 1/48
X	LIN22	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN23	234	Product/Service ID	X	AN 1/48
X	LIN24	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN25	234	Product/Service ID	X	AN 1/48
X	LIN26	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN27	234	Product/Service ID	X	AN 1/48
X	LIN28	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN29	234	Product/Service ID	X	AN 1/48
X	LIN30	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN31	234	Product/Service ID	X	AN 1/48

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 280  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	SN101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>O AN 1/20</b>
M	SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>
M	SN103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA= Each Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>
	SN104	646	<b>Quantity Shipped to Date</b> Number of units shipped to date	<b>O R 1/15</b>
	SN105	330	<b>Quantity Ordered</b> Quantity ordered	<b>X R 1/15</b>
	SN106	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
	SN107	728	<b>Returnable Container Load Make-Up Code</b> Code identifying the load make-up of the returnable containers in the shipment Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/2</b>
	SN108	668	<b>Line Item Status Code</b> Code specifying the action taken by the seller on a line item requested by the buyer Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>

**Segment:** **REF** Reference Identification  
**Position:** 290  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
2 If either C04003 or C04004 is present, then the other is required.  
3 If either C04005 or C04006 is present, then the other is required.  
**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LS= Container ID: on the container label Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier UCC 128	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **HL** Hierarchical Level  
**Position:** 260  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 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.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	<b>Hierarchical ID Number</b> M AN 1/12 A unique number assigned by the sender to identify a particular data segment in a hierarchical structure 2
	HL02	734	<b>Hierarchical Parent ID Number</b> O AN 1/12 Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to 1
M	HL03	735	<b>Hierarchical Level Code</b> M ID 1/2 Code defining the characteristic of a level in a hierarchical structure S = Shipment I = Item O = Order P = Pack Refer to 004010 Data Element Dictionary for acceptable code values.
	HL04	736	<b>Hierarchical Child Code</b> O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.

<b>Segment:</b>	<b>LIN</b> Item Identification
<b>Position:</b>	270
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

#### Data Element Summary

Ref.	Data	Element	Name	Attributes
		<b>350</b>	<b>Assigned Identification</b>	<b>O AN 1/20</b>
			Alphanumeric characters assigned for differentiation within a transaction set	
<b>M</b>	<b>LIN02</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			"VP" which stands for Vendor's (Seller) Part Number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>M</b>	<b>LIN03</b>	<b>234</b>	<b>Product/Service ID</b>	<b>M AN 1/48</b>
			Identifying number for a product or service	
			Product Number	
<b>M</b>	<b>LIN04</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			BP=Buyer's Part Number or PI=Purchaser's Item Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>M</b>	<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>	<b>M AN 1/48</b>
			Identifying number for a product or service	
			Buyer's Part Number	
<b>X</b>	<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X AN 1/48</b>
<b>X</b>	<b>LIN08</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>LIN09</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X AN 1/48</b>
<b>X</b>	<b>LIN10</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	

X	LIN11	234	Product/Service ID	X	AN 1/48
X	LIN12	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN13	234	Product/Service ID	X	AN 1/48
X	LIN14	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN15	234	Product/Service ID	X	AN 1/48
X	LIN16	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN17	234	Product/Service ID	X	AN 1/48
X	LIN18	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN19	234	Product/Service ID	X	AN 1/48
X	LIN20	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN21	234	Product/Service ID	X	AN 1/48
X	LIN22	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN23	234	Product/Service ID	X	AN 1/48
X	LIN24	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN25	234	Product/Service ID	X	AN 1/48
X	LIN26	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN27	234	Product/Service ID	X	AN 1/48
X	LIN28	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN29	234	Product/Service ID	X	AN 1/48
X	LIN30	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN31	234	Product/Service ID	X	AN 1/48

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 280  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	SN101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>O AN 1/20</b>
M	SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>
M	SN103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA= Each Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>
	SN104	646	<b>Quantity Shipped to Date</b> Number of units shipped to date	<b>O R 1/15</b>
	SN105	330	<b>Quantity Ordered</b> Quantity ordered	<b>X R 1/15</b>
	SN106	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
	SN107	728	<b>Returnable Container Load Make-Up Code</b> Code identifying the load make-up of the returnable containers in the shipment Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/2</b>
	SN108	668	<b>Line Item Status Code</b> Code specifying the action taken by the seller on a line item requested by the buyer Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>



**Segment:** **REF** Reference Identification  
**Position:** 290  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
2 If either C04003 or C04004 is present, then the other is required.  
3 If either C04005 or C04006 is present, then the other is required.  
**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LS= Container ID: on the container label Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier UCC 128	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **HL** Hierarchical Level  
**Position:** 260  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**

- 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.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 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.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	<b>Hierarchical ID Number</b> M AN 1/12 A unique number assigned by the sender to identify a particular data segment in a hierarchical structure 2
	HL02	734	<b>Hierarchical Parent ID Number</b> O AN 1/12 Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to 1
M	HL03	735	<b>Hierarchical Level Code</b> M ID 1/2 Code defining the characteristic of a level in a hierarchical structure S = Shipment I = Item O = Order P = Pack Refer to 004010 Data Element Dictionary for acceptable code values.
	HL04	736	<b>Hierarchical Child Code</b> O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.

<b>Segment:</b>	<b>LIN</b> Item Identification
<b>Position:</b>	270
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

#### Data Element Summary

Ref.	Data	Element	Name	Attributes
		<b>350</b>	<b>Assigned Identification</b>	<b>O AN 1/20</b>
			Alphanumeric characters assigned for differentiation within a transaction set	
<b>M</b>	<b>LIN02</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			"VP" which stands for Vendor's (Seller) Part Number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>M</b>	<b>LIN03</b>	<b>234</b>	<b>Product/Service ID</b>	<b>M AN 1/48</b>
			Identifying number for a product or service	
			Product Number	
<b>M</b>	<b>LIN04</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			BP=Buyer's Part Number or PI=Purchaser's Item Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>M</b>	<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>	<b>M AN 1/48</b>
			Identifying number for a product or service	
			Buyer's Part Number	
<b>X</b>	<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X AN 1/48</b>
<b>X</b>	<b>LIN08</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>LIN09</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X AN 1/48</b>
<b>X</b>	<b>LIN10</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X ID 2/2</b>
			Refer to 004010 Data Element Dictionary for acceptable code values.	

X	LIN11	234	Product/Service ID	X	AN 1/48
X	LIN12	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN13	234	Product/Service ID	X	AN 1/48
X	LIN14	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN15	234	Product/Service ID	X	AN 1/48
X	LIN16	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN17	234	Product/Service ID	X	AN 1/48
X	LIN18	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN19	234	Product/Service ID	X	AN 1/48
X	LIN20	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN21	234	Product/Service ID	X	AN 1/48
X	LIN22	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN23	234	Product/Service ID	X	AN 1/48
X	LIN24	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN25	234	Product/Service ID	X	AN 1/48
X	LIN26	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN27	234	Product/Service ID	X	AN 1/48
X	LIN28	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN29	234	Product/Service ID	X	AN 1/48
X	LIN30	235	Product/Service ID Qualifier	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	LIN31	234	Product/Service ID	X	AN 1/48

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 280  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	SN101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>O AN 1/20</b>
M	SN102	382	<b>Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>
M	SN103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA= Each Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>
	SN104	646	<b>Quantity Shipped to Date</b> Number of units shipped to date	<b>O R 1/15</b>
	SN105	330	<b>Quantity Ordered</b> Quantity ordered	<b>X R 1/15</b>
	SN106	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
	SN107	728	<b>Returnable Container Load Make-Up Code</b> Code identifying the load make-up of the returnable containers in the shipment Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/2</b>
	SN108	668	<b>Line Item Status Code</b> Code specifying the action taken by the seller on a line item requested by the buyer Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>

**Segment:** **REF** Reference Identification  
**Position:** 290  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
2 If either C04003 or C04004 is present, then the other is required.  
3 If either C04005 or C04006 is present, then the other is required.  
**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LS= Container ID: on the container label Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier UCC 128	M AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number 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