



# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Introduction:

This Standard 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.

## Notes:

Leslie's Poolmart will accept SOTI (Shipment, Order, Tare(pallet), Item), or SOPI (Shipment, Order, Pack, Item).

### Revision History

8/30/05 - Added "VP" qualifier for vendor part number in LIN segment

## 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		

## 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>
			LOOP ID - HLS			1	
M	010	HL	Hierarchical Level - Shipment Level	M	1		c1
M	120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1		
M	150	REF	Reference Identification	M	1		
	150	REF	Reference Identification	O	1		
M	200	DTM	Date/Time Reference	M	1		
	200	DTM	Date/Time Reference	O	1		
			LOOP ID - N1			1	
M	220	N1	Name	M	1		
	240	N3	Address Information	O	1		
	250	N4	Geographic Location	O	1		

LOOP ID - N1			1	
	220	N1	Name	O 1
	240	N3	Address Information	O 1
	250	N4	Geographic Location	O 1
LOOP ID - HLO			200000	
M	010	HL	Hierarchical Level - Order Level	M 1
M	050	PRF	Purchase Order Reference	M 1
M	110	TD1	Carrier Details (Quantity and Weight)	M 1
LOOP ID - N1			1	
	220	N1	Name	O 1
LOOP ID - HL			200000	
M	010	HL	Hierarchical Level - Tare/Pack Level	M 1
M	190	MAN	Marks and Numbers	M 1
LOOP ID - HLI			200000	
M	010	HL	Hierarchical Level - Item Level	M 1
M	020	LIN	Item Identification	M 1
M	030	SN1	Item Detail (Shipment)	M 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>
	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		

**Transaction Set Notes**

1. 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.

**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:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	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	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>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BSN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original	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	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)	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 0001 Shipment, Order, Packaging, Item	O ID 4/4

**Segment:** **HL Hierarchical Level - Shipment Level**  
**Position:** 010  
**Loop:** HLS 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		Attributes
		Des.	Element Name	
M	HL01	628	Hierarchical ID Number	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
M	HL03	735	Hierarchical Level Code	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
			S Shipment	

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

- Position:** 120
- Loop:** HLS Mandatory
- Level:** Detail
- Usage:** Mandatory
- Max Use:** 1
- 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**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
M	TD505	387 Routing	M AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HLS 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 BM Bill of Lading Number MB Master Bill of Lading	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	M AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HLS 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	M ID 2/3
			08 Carrier Assigned Package Identification Number A reference number assigned by a carrier to uniquely identify a single package Master Pick Up number or one of the Carton ID numbers from Parcel Carrier (i.e. UPS, FEDX etc)	
			CN Carrier's Reference Number (PRO/Invoice) Carrier Pro number from Common Carriers (Yellow Freight, Roadway Express etc.)	
M	REF02	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



**Segment:** **DTM** Date/Time Reference

**Position:** 200

**Loop:** HLS Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
M	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8

**Segment:** **DTM** Date/Time Reference

**Position:** 200

**Loop:** HLS Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 017 Estimated Delivery	M ID 3/3
M	DTM02	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8

**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**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual ST Ship To	<b>M ID 2/3</b>
	N102	93	<b>Name</b> Free-form name	<b>O AN 1/60</b>
M	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	<b>M ID 1/2</b>
M	N104	67	<b>Identification Code</b> Code identifying a party or other code	<b>M AN 2/5</b>

**Segment:** N3 Address Information  
**Position:** 240  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**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:** Optional  
**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**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	
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	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)	M ID 3/15
	N404	26 <b>Country Code</b> Code identifying the country	O ID 2/3

**Segment:** **N1** Name  
**Position:** 220  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SF Ship From	M ID 2/3
M	N102	93	Name Free-form name	M AN 1/60

**Segment:** N3 Address Information  
**Position:** 240  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**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 Optional  
**Level:** Detail  
**Usage:** Optional  
**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**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
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	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)	M ID 3/15
	N404	26	<b>Country Code</b> Code identifying the country	O ID 2/3



**Segment:** **HL** Hierarchical Level - Order Level  
**Position:** 010  
**Loop:** HLO 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 Hierarchical ID Number	M AN 1/12
		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
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O	Order

**Segment:** **PRF** Purchase Order Reference  
**Position:** 050  
**Loop:** HLO 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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/10

**Segment:** **TD1** Carrier Details (Quantity and Weight)

**Position:** 110

**Loop:** HLO Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**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.</u> <u>Des.</u>	<u>Data</u> <u>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 CTN Carton PLT Pallet	M AN 3/5
M	TD102	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity	M N0 1/7

**Segment:** **N1** Name  
**Position:** 220  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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 BY Buying Party (Purchaser) Z7 Mark-for Party The party for whom the needed material is intended	<b>M ID 2/3</b>
M	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	<b>M ID 1/2</b>
M	N104	67	<b>Identification Code</b> Code identifying a party or other code	<b>M AN 2/5</b>

**Segment:** **HL** Hierarchical Level - Tare/Pack 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 Hierarchical ID Number	M AN 1/12
		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
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		P Pack	
		T Shipping Tare	

<b>Segment:</b>	<b>MAN</b> Marks and Numbers
<b>Position:</b>	190
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To indicate identifying marks and numbers for shipping containers
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either MAN04 or MAN05 is present, then the other is required.</li> <li>2 If MAN06 is present, then MAN05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.</li> <li>2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.</li> <li>3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.</li> <li>2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.</li> </ol>

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88	<b>Marks and Numbers Qualifier</b> Code specifying the application or source of Marks and Numbers (87) CP Carrier-Assigned Package ID Number GM SSCC-18 and Application Identifier	<b>M ID 1/2</b>
M	MAN02	87	<b>Marks and Numbers</b> Marks and numbers used to identify a shipment or parts of a shipment	<b>M AN 1/48</b>

**Segment:** **HL** Hierarchical Level - Item Level  
**Position:** 010  
**Loop:** HLI 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 Hierarchical ID Number	M AN 1/12
		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
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		I	Item

**Segment:** **LIN** Item Identification

**Position:** 020

**Loop:** HLI Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

**Syntax Notes:**

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:**

- 1 LIN01 is the line item identification

**Comments:**

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### Data Element Summary

Ref.	Data	Element	Name	Attributes
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)	
			EN European Article Number (EAN) (2-5-5-1)	
			SK Stock Keeping Unit (SKU)	
			UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)	
			A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VP Vendor's (Seller's) Part Number	
M	LIN03	234	<b>Product/Service ID</b>	M AN 1/48
			Identifying number for a product or service	
	LIN04	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			EN European Article Number (EAN) (2-5-5-1)	
			SK Stock Keeping Unit (SKU)	
			UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)	
			A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second	



			five digits are the item code, and the final digit is the check digit	
		UP	U.P.C. Consumer Package Code (1-5-5-1)	
		VP	Vendor's (Seller's) Part Number	
<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>		<b>X AN 1/48</b>
			Identifying number for a product or service	
<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>		<b>X ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		EN	European Article Number (EAN) (2-5-5-1)	
		SK	Stock Keeping Unit (SKU)	
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)	
			A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit	
		UP	U.P.C. Consumer Package Code (1-5-5-1)	
		VP	Vendor's (Seller's) Part Number	
<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b>		<b>X AN 1/48</b>
			Identifying number for a product or service	

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 030  
**Loop:** HLI 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>		
M	SN102	382	<b>Number of Units Shipped</b>	<b>M R 1/10</b>
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
M	SN103	355	<b>Unit or Basis for Measurement Code</b>	<b>M ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			4F 100-Pack Pack containing 100 units	
			BX Box	
			CA Case	
			DZ Dozen	
			EA Each	
			FT Foot	
			GA Gallon	
			HC Hundred Count	
			IN Inch	
			LB Pound	
			P4 Four-pack	
			P6 Six pack	
			PD Pad	
			PF Pallet (Lift)	
			PK Package	
			PR Pair	
			RL Roll	
			ST Set	
			UZ Fifty Count	

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.  
 2 If either CTT05 or CTT06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6

**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	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	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	M AN 4/9