

# **856 Ship Notice/Manifest**

## **Status: Draft**

**Author:** BISAC ICC committee  
**Created:** 11/13/2004

# 856 Ship Notice/Manifest

## Functional Group=SH

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

### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Required
020	BSN	Beginning Segment for Ship Notice	M	1			Required

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - HL - S</b>					<b>200000</b>	<b>CN2/010L</b>	
010	HL	Hierarchical Level - SHIPMENT	M	1		CN2/010	Required
110	TD1	Carrier Details (Quantity and Weight)	O	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
<b>LOOP ID - N1</b>					<b>200</b>		
220	N1	Name	O	1			Used
230	N2	Additional Name Information	O	2			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
<b>LOOP ID - HL - O</b>					<b>200000</b>		
010	HL	Hierarchical Level - ORDER	M	1			Required
050	PRF	Purchase Order Reference	O	1			Used
<b>LOOP ID - CLD</b>					<b>200</b>		
170	CLD	Load Detail	O	1			Used
180	REF	Reference Identification	O	200			Used
<b>LOOP ID - HL - P</b>					<b>200000</b>		
010	HL	Hierarchical Level - PACK	M	1			Required
080	MEA	Measurements	O	40			Used
190	MAN	Marks and Numbers	O	>1			Used
<b>LOOP ID - HL - I</b>					<b>200000</b>		
010	HL	Hierarchical Level - ITEM	M	1			Required
020	LIN	Item Identification	O	1			Used
030	SN1	Item Detail (Shipment)	O	1			Used
040	SLN	Subline Item Detail	O	1000			Used
080	MEA	Measurements	O	40			Used
310	CUR	Currency	O	1			Used

### Summary:

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

**Notes:**

- 2/010L Table 2 has 4 different HL Loop formats to define the Shipment, Order, Pack and Item Hierarchical Levels. The loop ID has been changed to reflect the HL03 Hierarchical Level Code to use with the format defined in that HL loop.  
(S-shipment, O-order, P-pack, I-item)
- 2/010 Table 2 has 4 different HL Loop formats to define the Shipment, Order, Pack and Item Hierarchical Levels. The loop ID has been changed to reflect the HL03 Hierarchical Level Code to use with the format defined in that HL loop.  
(S-shipment, O-order, P-pack, I-item)
- 3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

**Comments:**

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

# ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Required

To indicate the start of a transaction set and to assign a control number

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Required
		<b>Code Name</b> 856 Ship Notice/Manifest				
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</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	Required

## Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

# BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set <b>Code Name</b> 00 Original 05 Replace 07 Duplicate	M	ID	2/2	Required
BSN02	396	<b>Shipment Identification</b> <b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Required
BSN03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Required
BSN04	337	<b>Time</b> <b>Description:</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	Required
BSN05	1005	<b>Hierarchical Structure Code</b> <b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set <b>Code Name</b> 0001 Shipment, Order, Packaging, Item 0002 Shipment, Order, Item, Packaging	O	ID	4/4	Used

## Syntax Rules:

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

## Semantics:

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

## Comments:

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

# Loop HL - S

<b>Pos: 010</b>	<b>Repeat: 200000</b>
<b>Mandatory</b>	
<b>Loop: HL - Elements: N/A</b>	
<b>S</b>	

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level - SHIPMENT	M	1		Required
110	TD1	Carrier Details (Quantity and Weight)	O	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used
150	REF	Reference Identification	O	>1		Used
200	DTM	Date/Time Reference	O	10		Used
220		Loop N1	O		200	Used

# HL Hierarchical Level - SHIPMENT

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL -	Elements: 4
S	

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure <u>Code</u> <u>Name</u> I Item O Order P Pack S Shipment	M	ID	1/2	Required
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described <u>Code</u> <u>Name</u> 1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	O	ID	1/1	Used

# TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL -	Elements: 8
S	

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material <b>User:</b> <i>The Book Industry uses the following code values:</i>	O	AN	3/5	Used
		<b>Code Name</b> CNT Container <b>Description:</b> (Gaylord)				
		CTN25 Carton, corrugated or solid				
		PLT94 Pallet, wood				
		UNT76 Unit, paper				
TD102	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	C	NO	1/7	Used
TD103	23	<b>Commodity Code Qualifier</b> <b>Description:</b> Code identifying the commodity coding system used for Commodity Code	O	ID	1/1	Used
		<b>Code Name</b> Z Mutually defined				
TD104	22	<b>Commodity Code</b> <b>Description:</b> Code describing a commodity or group of commodities	C	AN	1/30	Used
TD105	79	<b>Lading Description</b> <b>Description:</b> Description of an item as required for rating and billing purposes	O	AN	1/50	Used
TD106	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight	O	ID	1/2	Used
		<b>Code Name</b> G Gross Weight				
TD107	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Used
TD108	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used
		<b>Code Name</b> KG Kilogram LB Pound				

## Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.

4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL -	Elements: 8
S	

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	<b>Routing Sequence Code</b> <b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement <b>Code Name</b> B Origin/Delivery Carrier (Any Mode)	O	ID	1/2	Used
TD502	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>Code Name</b> 2 Standard Carrier Alpha Code (SCAC) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2	Used
TD503	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/20	Used
TD504	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment <b>Code Name</b> A Air C Consolidation D Parcel Post H Customer Pickup L Contract Carrier M Motor (Common Carrier) P Private Carrier T Best Way (Shippers Option) U Private Parcel Service AE Air Express	C	ID	1/2	Used
TD505	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used
TD506	368	<b>Shipment/Order Status Code</b> <b>Description:</b> 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 <b>Code Name</b> CC Shipment Complete on (Date) CP Partial Shipment on (Date), Considered No Backorder SS Split Shipment	C	ID	2/2	Used
TD510	732	<b>Transit Time Direction Qualifier</b> <b>Description:</b> Code specifying the value of	O	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		time used to measure the transit time				
		<b>Code Name</b>				
		CD Calendar Days (Includes weekends and Holidays)				
		WD Working Days (Excludes weekends and holidays)				
TD511	733	<b>Transit Time</b>	C	R	1/4	Used
		<b>Description:</b> The numeric amount of transit time				

### Syntax Rules:

1. C0203 - If TD502 is present, then TD503 is required.
2. C0708 - If TD507 is present, then TD508 is required.
3. C1011 - If TD510 is present, then TD511 is required.
4. C1312 - If TD513 is present, then TD512 is required.
5. C1413 - If TD514 is present, then TD513 is required.
6. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.

# REF Reference Identification

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

**User Option (Usage):** Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification <b>Code Name</b> BC Buyer's Contract Number BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) CO Customer Order Number DP Department Number MA Ship Notice/Manifest Number MB Master Bill of Lading PO Purchase Order Number	M	ID	2/3	Required
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

## Syntax Rules:

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

## Semantics:

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

# DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL -	Elements: 4
S	

**User Option (Usage):** Used

To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>Code Name</b> 011 Shipped 037 Ship Not Before 038 Ship No Later 039 Ship Week of 063 Do Not Deliver After 064 Do Not Deliver Before 067 Current Schedule Delivery 068 Current Schedule Ship 073 Scheduled for Delivery (Prior to and Including) 095 Bill of Lading 178 Hold (as of) 182 Will Advise (as of)	M	ID	3/3	Required
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Required
DTM03	337	<b>Time</b> <b>Description:</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)	C	TM	4/8	Used
DTM04	623	<b>Time Code</b> <b>Description:</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 <b>Code Name</b> CD Central Daylight Time CS Central Standard Time CT Central Time ED Eastern Daylight Time ES Eastern Standard Time ET Eastern Time LT Local Time MD Mountain Daylight Time MS Mountain Standard Time MT Mountain Time	O	ID	2/2	Used

<u>Code</u>	<u>Name</u>
PD	Pacific Daylight Time
PS	Pacific Standard Time
PT	Pacific Time

**Syntax Rules:**

1. P0607 - If either DTM06 or DTM07 is present, then the other is required.
2. R020306 - At least one of DTM02, DTM03 or DTM06 is required.

# Loop N1

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	O	1		Used
230	N2	Additional Name Information	O	2		Used
240	N3	Address Information	O	2		Used
250	N4	Geographic Location	O	1		Used

# N1 Name

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

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, or an individual <b>Code Name</b> BT Bill-to-Party SF Ship From ST Ship To VN Vendor	M	ID	2/2	Required
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/35	Used
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>Code Name</b> 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 15 Standard Address Number (SAN) 92 Assigned by Buyer or Buyer's Agent	C	ID	1/2	Used
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/20	Used

## Syntax Rules:

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

# N2 Additional Name Information

Pos: 230	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

To specify additional names or those longer than 35 characters in length

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	<b>Name</b>	M	AN	1/35	Required
		<b>Description:</b> Free-form name				
N202	93	<b>Name</b>	O	AN	1/35	Used
		<b>Description:</b> Free-form name				

# N3 Address Information

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

**User Option (Usage):** Used

To specify the location of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b> <b>Description:</b> Address information	M	AN	1/35	Required
N302	166	<b>Address Information</b> <b>Description:</b> Address information	O	AN	1/35	Used

# N4 Geographic Location

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

**User Option (Usage):** Used

To specify the geographic place of the named party

## Element Summary:

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

## Syntax Rules:

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

# Loop HL - O

<b>Pos: 010</b>	<b>Repeat: 200000</b>
<b>Mandatory</b>	
<b>Loop: HL - Elements: N/A</b>	
<b>O</b>	

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level - ORDER	M	1		Required
050	PRF	Purchase Order Reference	O	1		Used
170		Loop CLD	O		200	Used

# HL Hierarchical Level - ORDER

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL -	Elements: 4
O	

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used

# PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL -	Elements: 7
O	

**User Option (Usage):** Used

To provide reference to a specific purchase order

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Required
PRF02	328	<b>Release Number</b> <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
PRF03	327	<b>Change Order Sequence Number</b> <b>Description:</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Used
PRF04	373	<b>Date</b> <b>Description:</b> Date (YYMMDD)	O	DT	6/6	Used
PRF05	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PRF06	367	<b>Contract Number</b> <b>Description:</b> Contract number	O	AN	1/30	Used
PRF07	92	<b>Purchase Order Type Code</b> <b>Description:</b> Code specifying the type of Purchase Order	O	ID	2/2	Used

## Semantics:

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

# Loop CLD

Pos: 170      Repeat: 200  
 Optional  
 Loop: CLD    Elements: N/A

To specify the number of material loads shipped

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
170	CLD	Load Detail	O	1		Used
180	REF	Reference Identification	O	200		Used

# CLD Load Detail

Pos: 170	Max: 1
Detail - Optional	
Loop: CLD	Elements: 3

**User Option (Usage):** Used

To specify the number of material loads shipped

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CLD01	622	<b>Number of Loads</b> <b>Description:</b> Number of customer-defined loads shipped by the supplier	M	NO	1/5	Required
CLD02	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Required
CLD03	103	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material <b>Code Name</b> CNT Container <b>Description:</b> (Gaylord) CTN25 Cartons, corrugated or solid PLT94 Pallet, wood UNT76 Unit, paper	O	AN	3/5	Used

## Semantics:

1. CLD05 is used to dimension the value given in CLD04.

# REF Reference Identification

Pos: 180	Max: 200
Detail - Optional	
Loop: CLD	Elements: 4

**User Option (Usage):** Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification	M	ID	2/3	Required
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used
REF04	C040	<b>Reference Identifier</b> <b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification	M	ID	2/3	Required
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Required
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification	C	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification	C	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

## Syntax Rules:

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

## Semantics:

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

# Loop HL - P

<b>Pos: 010</b>	<b>Repeat: 200000</b>
<b>Mandatory</b>	
<b>Loop: HL - P</b>	<b>Elements: N/A</b>

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level - PACK	M	1		Required
080	MEA	Measurements	O	40		Used
190	MAN	Marks and Numbers	O	>1		Used

# HL Hierarchical Level - PACK

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL -	Elements: 4
P	

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used

# MEA Measurements

Pos: 080	Max: 40
Detail - Optional	
Loop: HL -	Elements: 4
P	

**User Option (Usage):** Used

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies <b>Code Name</b> PA Pallet Dimensions PD Physical Dimensions PK Package Dimensions	O	ID	2/2	Used
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies <b>Code Name</b> HT Height LN Length SZ Skid Height WD Width WT Weight	O	ID	1/3	Used
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>User:</b> For all code values with the exception of the SZ qualifier, the measurement is a real decimal number. For the SZ qualifier use the integer portion of the skid height in inches.	C	R	1/20	Used
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>Code Name</b> CM Centimeter E5 Inches, Fraction--Actual E8 Inches, Decimal--Actual KG Kilogram LB Pound OZ Ounce - Av	M	ID	2/2	Required

## Syntax Rules:

1. C0504 - If MEA05 is present, then MEA04 is required.
2. C0604 - If MEA06 is present, then MEA04 is required.
3. E0803 - Only one of MEA08 or MEA03 may be present.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.

**Semantics:**

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

# MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL -	Elements: 3
P	

**User Option (Usage):** Used

To indicate identifying marks and numbers for shipping containers

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	<b>Marks and Numbers Qualifier</b> <b>Description:</b> Code specifying the application or source of Marks and Numbers (87)	M	ID	1/2	Required
		<b>Code Name</b>				
		GM SSCC-18 and Application Identifier				
		MC Master Carton Number <b>Description:</b> The identification number of the outermost (external) container in a shipment leaving the supplier's dock				
		SM Shipper Assigned				
		SS Shipper Assigned Skid Number				
		UC U.P.C. Shipping Container Code				
MAN02	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Required
MAN03	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment <b>User:</b> Use the Book Industry Guidelines for Shipping Container Codes and Symbols.	O	AN	1/48	Used

## Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

## Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
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.
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.



# HL Hierarchical Level - ITEM

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL -	Elements: 4
I	

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used

# LIN Item Identification

Pos: 020      Max: 1  
 Detail - Optional  
 Loop: HL -    Elements: 31  
 I

**User Option (Usage):** Used

To specify basic item identification data

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> AI    Alternate ISBN B1    Volume Set B2    Library of Congress Code B3    Edition Code B4    Binding Code B5    Title Code B6    Author Code B7    Publisher Code CB    Buyer's Catalog Number CG    Commodity Grouping EN    European Article Number (EAN) (2-5-5-1) <b>User:</b> <i>ISBN-13</i> GC    Grade Code IB    International Standard Book Number (ISBN) RP    Replaced Part Number RU    Run Number SK    Stock Keeping Unit (SKU) UK    U.P.C./EAN Shipping Container Code (1-2-5-5-1) <b>Description:</b> 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 <b>User:</b> <i>UCC/EAN-14</i>	M	ID	2/2	Required
LIN03	234	UP    U.P.C. Consumer Package Code (1-5-5-1) <b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	M	AN	1/40	Required
LIN04	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN05	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN06	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN07	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN08	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN09	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN10	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN11	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN12	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN13	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN14	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN15	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN16	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN17	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN18	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used	C	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>				
LIN19	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN20	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN21	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN22	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN23	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN24	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN25	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN26	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN27	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN28	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN29	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used
LIN30	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <i>User: Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN31	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/40	Used

### Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

### Semantics:

1. LIN01 is the line item identification

# SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL -	Elements: 6

**User Option (Usage):** Used

To specify line-item detail relative to shipment

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SN102	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Required
SN103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>Code Name</b> CH Container CT Carton EA Each PL Pallet/Unit Load ST Set UN Unit	M	ID	2/2	Required
SN104	646	<b>Quantity Shipped to Date</b> <b>Description:</b> Number of units shipped to date	O	R	1/9	Used
SN105	330	<b>Quantity Ordered</b> <b>Description:</b> Quantity ordered	C	R	1/9	Used
SN106	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>User:</b> Refer to code list specified in 'SN103' for usage.	C	ID	2/2	Used

## Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

## Semantics:

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

# SLN Subline Item Detail

Pos: 040	Max: 1000
Detail - Optional	
Loop: HL -	Elements: 7
I	

**User Option (Usage):** Used

To specify product subline detail item data

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Required
SLN02	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SLN03	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities	M	ID	1/1	Required
		<b>Code Name</b> I Included				
SLN04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	M	R	1/15	Required
SLN05	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Required
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required
		<b>Code Name</b> CH Container CT Carton EA Each PL Pallet/Unit Load ST Set UN Unit				
SLN06	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Used
SLN07	639	<b>Basis of Unit Price Code</b> <b>Description:</b> Code identifying the type of unit price for an item	O	ID	2/2	Used

## Syntax Rules:

1. C0706 - If SLN07 is present, then SLN06 is required.
2. C0806 - If SLN08 is present, then SLN06 is required.
3. P0910 - If either SLN09 or SLN10 is present, then the other is required.
4. P1112 - If either SLN11 or SLN12 is present, then the other is required.
5. P1314 - If either SLN13 or SLN14 is present, then the other is required.
6. P1516 - If either SLN15 or SLN16 is present, then the other is required.
7. P1718 - If either SLN17 or SLN18 is present, then the other is required.
8. P1920 - If either SLN19 or SLN20 is present, then the other is required.
9. P2122 - If either SLN21 or SLN22 is present, then the other is required.

10. P2324 - If either SLN23 or SLN24 is present, then the other is required.
11. P2526 - If either SLN25 or SLN26 is present, then the other is required.
12. P2728 - If either SLN27 or SLN28 is present, then the other is required.

**Semantics:**

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

# MEA Measurements

Pos: 080      Max: 40  
 Detail - Optional  
 Loop: HL -      Elements: 6  
 I

**User Option (Usage):** Used

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies <b>Code Name</b> PA Pallet Dimensions PD Physical Dimensions PK Package Dimensions	O	ID	2/2	Used
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies <b>Code Name</b> HT Height LN Length SZ Skid Height WD Width WT Weight	O	ID	1/3	Used
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>User:</b> For all code values with the exception of the SZ qualifier, the measurement is a real decimal number. For the SZ qualifier use the interger portion of the skid height in inches.	C	R	1/20	Used
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>Code Name</b> CM Centimeter E5 Inches, Fraction--Actual E8 Inches, Decimal--Actual KG Kilogram LB Pound OZ Ounce - Av	M	ID	2/2	Required
MEA05	740	<b>Range Minimum</b> <b>Description:</b> The value specifying the minimum of the measurement range	C	R	1/20	Used
MEA06	741	<b>Range Maximum</b> <b>Description:</b> The value specifying the maximum of the measurement range	C	R	1/20	Used

**Syntax Rules:**

1. C0504 - If MEA05 is present, then MEA04 is required.
2. C0604 - If MEA06 is present, then MEA04 is required.
3. E0803 - Only one of MEA08 or MEA03 may be present.
4. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
5. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.

**Semantics:**

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

# CUR Currency

Pos: 310	Max: 1
Detail - Optional	
Loop: HL -	Elements: 2
I	

**User Option (Usage):** Used

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, or an individual <b>Code Name</b> BY Buying Party (Purchaser) SE Selling Party	M	ID	2/2	Required
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required

## Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.
7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.
11. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
12. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
13. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
14. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.

# CTT Transaction Totals

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

**User Option (Usage):** Required

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	NO	1/6	Required
CTT02	347	<b>Hash Total</b> <b>Description:</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R	1/10	Used

## Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

## Comments:

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

# SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Required

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Required
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</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	Required

## Comments:

- SE is the last segment of each transaction set.

# Table of Contents

Ship Notice/Manifest .....	2
Transaction Set Header .....	4
Beginning Segment for Ship Notice .....	5
Loop HL - S .....	6
Hierarchical Level - SHIPMENT .....	7
Carrier Details (Quantity and Weight) .....	8
Carrier Details (Routing Sequence/Transit Time) .....	10
Reference Identification .....	12
Date/Time Reference .....	13
Loop N1 .....	15
Name .....	16
Additional Name Information .....	17
Address Information .....	18
Geographic Location .....	19
Loop HL - O .....	20
Hierarchical Level - ORDER .....	21
Purchase Order Reference .....	22
Loop CLD .....	23
Load Detail .....	24
Reference Identification .....	25
Loop HL - P .....	26
Hierarchical Level - PACK .....	27
Measurements .....	28
Marks and Numbers .....	30
Loop HL - I .....	31
Hierarchical Level - ITEM .....	32
Item Identification .....	33
Item Detail (Shipment) .....	37
Subline Item Detail .....	38
Measurements .....	40
Currency .....	42
Transaction Totals .....	43
Transaction Set Trailer .....	44