# Genius Central 856 Ship Notice/Manifest

X12/V5010/856: 856 Ship Notice

**Author:** Genius Central

**Company:** Sprouts Farmers Market

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# 856 Ship Notice/Manifest

### Functional Group=SH

**Purpose:** This X12 Transaction Set 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>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	М	1			Must use
0200	BSN	Beginning Segment for Ship Notice	М	1			Must use

#### Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP	ID - HL				<u>1</u>	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	М	3			Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1			Must use
1500	REF	Reference Information	M	2			Must use
1510	PER	Administrative Communications Contact	0	1			Used
2000	DTM	Date/Time Reference	М	2			Must use
LOOP	<u>ID - N1</u>				<u>2</u>		
2200	N1	Party Identification	M	1			Must use
2400	N3	Party Location	С	2			Used
2500	N4	Geographic Location	С	1			Used
LOOP	LOOP ID - HL				200000	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
0500	PRF	Purchase Order Reference	M	1			Must use
LOOP	ID - HL				200000	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
1900	MAN	Marks and Numbers Information	M	>1			Must use
LOOP	ID - HL				200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	M	1			Must use
0300	SN1	Item Detail (Shipment)	М	1			Must use

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	<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	
	0700	PID	Product/Item Description	М	5			Must use	
	1500	REF	Reference Information	0	1			Used	
	2000	DTM	Date/Time Reference	0	10			Used	
LOOP ID - N1						<u>200</u>			
	2200	N1	Party Identification	0	1			Used	Ш
	2500	N4	Geographic Location	0	1			Used	

#### **Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	0	1		N3/0100	Used
0200	SE	Transaction Set Trailer	М	1			Must use

#### Notes:

3/0100 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:

- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
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#### **General Usage:**

<u>Advance Ship Notices</u>— As confirmation of shipment content the ASN/Ship Notice will be required to be sent by the suppliers for all electronically created orders. Stores will use this information as confirmation and content details of the shipment in advance of the receipt of the orders.

GeniusCentral will support the Pick and Pack ASN Structure and each ASN will represent a single shipment (ship-to location). Suppliers will be expected to include all Purchase Orders physically in a single Shipment/Trailer/Container within a single ASN data feed.

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### **ST** Transaction Set Header

Pos: 0100 Max: 1
Heading - Mandatory
Loop: N/A Elements: 2

User Option (Usage): Must use

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
CodeList Summary (Total Codes: 318, Included: 1)						
		Code Name				
		856 Ship Notice/Manifest				
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use
		<b>Description:</b> Identifying control number that functional group assigned by the originator f		•		saction set

#### **Semantics:**

- 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).
- 2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

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# **BSN** Beginning Segment for Ship Notice

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 4

User Option (Usage): Must use

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

#### **Element Summary:**

<u>Ref</u> BSN01	<u>ld</u> 353	Element Name Transaction Set Purpose Code	Req M	Type ID	Min/Max 2/2	<u>Usage</u> Must use				
		Description: Code identifying purpose of transaction set								
		CodeList Summary (Total Codes: 66, Inclu	ıded: 1)							
		Code Name								
		00 Original								
BSN02	396	Shipment Identification	М	AN	2/30	Must use				
<b>Description:</b> A unique control number assigned by the original shipper to identify specific shipment										
		User Note 1: Unique Shipment ID Number								
BSN03	373	Date	М	DT	8/8	Must use				
		<b>Description:</b> Date expressed as CCYYMM the calendar year	DD whe	re CC re	presents the fir	st two digits of				
		User Note 1: ASN create date								
BSN04	337	Time	М	TM	4/8	Must use				
<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: = tenths (0-9) and DD = hundredths (00-99) <b>User Note 1:</b> ASN create time						9), S = integer				
		USET NOTE I. ASIN CIEALE LITTLE								

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#### 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 Hierarchical Level - SHIPMENT**

Pos: 0100 Repeat: 1
Mandatory
Loop: HL Elements: N/A

User Option (Usage): Must use

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

#### **Loop Summary:**

Pos	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	M	3		Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	М	1		Must use
1500	REF	Reference Information	M	2		Must use
1510	PER	Administrative Communications Contact	0	1		Used
2000	DTM	Date/Time Reference	M	2		Must use
2200		Loop N1	M		2	Must use
0100		Loop HL	M		200000	Must use

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### **HL** Hierarchical Level

Pos: 0100 Max: 1
Detail - Mandatory
Loop: HL Elements: 2

User Option (Usage): Must use

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	the ser	der to id	entify a particu	lar data
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
		Description: Code defining the characterist	of a level in a hierarchical structure			
		CodeList Summary (Total Codes: 250, Incl	uded: 1	)		
		Code Name				
		S Shipment				

#### Comments:

- 1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
- 2. The HL segment defines a top-down/left-right ordered structure.
- 3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

## TD1

User Option (Usage): Must use

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

#### **Element Summary:**

<u>Ref</u> TD101	<u>ld</u> 103	Element Name Packaging Code	<u>Req</u> M	<u>Type</u> AN	Min/Max 3/5	<u>Usage</u> Must use			
		<b>Description:</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							
		User Note 1: Valid codes are: CTN (Carton) CTN25 (Corrugated Carton) PLT (Pallet) PLT94 (Wood Pallet)							
		CodeList Summary (Total Codes: 155, Inc	luded: 2	2)					
		Code Name CTN Carton							
		PLT Pallet							
		CodeList Summary (Total Codes: 57, Inclu	uded: 2)						
		<u>Code Name</u> 25 Corrugated or Solid							
		94 Wood							
TD102	80	Lading Quantity	М	N0	1/7	Must use			
		Description: Number of units (pieces) of the	ne lading	commo	dity				
TD106	187	Weight Qualifier	0	ID	1/2	Used			
		<b>Description:</b> Code defining the type of weight	ght						
		CodeList Summary (Total Codes: 52, Inclu	uded: 1)						
		Code Name G Gross Weight							
TD107	81	Weight	0	R	1/10	Used			
		Description: Numeric value of weight							
TD108	355	Unit or Basis for Measurement Code	Ο	ID	2/2	Used			
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner which a measurement has been taken							
		CodeList Summary (Total Codes: 844, Inc	luded: 2	2)					
		Code Name							
		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.

#### **User Note 1:**

If more than one packing medium is included, the TD1 group should be repeated with a lading quantity (TD102) for each packing medium.

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# **TD5** Carrier Details (Routing Sequence/Transit Time)

Pos: 1200 Max: 1 Detail - Mandatory Loop: HL Elements: 3

User Option (Usage): Must use

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

#### **Element Summary:**

Ref TD502	<u>ld</u> 66	Element Name Identification Code Qualifier	Req X	Type ID	Min/Max 1/2	<u>Usage</u> Used					
		<b>Description:</b> Code designating the system/method of code structure used for Identificati Code (67)									
		CodeList Summary (Total Codes: 241, Inc.  Code Name  Standard Carrier Alpha Code (SCAC		)							
TD503	67	Identification Code	0	AN	2/80	Used					
		Description: Code identifying a party or other code									
		User Note 1: SCAC Min/ Max = 2/4									
TD505	387	Routing	0	AN	1/35	Used					
		<b>Description:</b> Free-form description of the re originating carrier's identity	outing o	r request	ed routing for s	hipment, or the					
		User Note 1: Carrier Routing / Name									

#### **Syntax Rules:**

- 1. R0204050612 At least one of TD502, TD504, TD505, TD506 or TD512 is required.
- 2. C0203 If TD502 is present, then TD503 is required.
- 3. C0708 If TD507 is present, then TD508 is required.
- 4. C1011 If TD510 is present, then TD511 is required.
- 5. C1312 If TD513 is present, then TD512 is required.
- 6. C1413 If TD514 is present, then TD513 is required.
- 7. C1512 If TD515 is present, then TD512 is required.

#### **Semantics:**

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.

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#### **User Note 1:**

One of either SCAC (TD503) or Carrier Routing (TD505) must be present.

### **REF** Reference Information

Pos: 1500 Max: 2 **Detail - Mandatory** .oop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use		
		Description: Code qualifying the Referen	ce Identif	ication				
		CodeList Summary (Total Codes: 1731, Included: 4)						
		Code Name						
		2I Tracking Number						
		BM Bill of Lading Number						

CN Carrier's Reference Number (PRO/Invoice)

06 System Number

**User Note 1:** 

Genius Central OrderID - Mandatory

**Reference Identification** ΑN 1/50 REF02 127 Μ Must use

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

#### 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.

#### User Note 1:

Bill of lading (BM) or Carrier Pro numbers (CN) are required for Truck Load and Less than Truck Load Shipments (Common Carrier moves).

For Parcel carrier Shipments, the Pick up number or Carrier Assigned Package number (21) is required. Do not send both. (If there is no pick up number use one of the Carton carrier assigned numbers for this field).

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# PER Administrative Communications Contact

Pos: 1510 Max: 1 Detail - Optional Loop: HL Elements: 6

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

#### **Element Summary:**

<u>Ref</u> PER01	<u>ld</u> 366	Element Name Contact Function Code	<u>Req</u> M	Type ID	Min/Max 2/2	<u>Usage</u> Must use
		<b>Description:</b> Code identifying the major du named	ty or res	ponsibili	ty of the persor	n or group
		CodeList Summary (Total Codes: 238, Inc	luded: 1	)		
		Code Name IC Information Contact				
PER02	93	Name	0	AN	1/60	Used
		Description: Free-form name				
PER03	365	Communication Number Qualifier	Х	ID	2/2	Used
		<b>Description:</b> Code identifying the type of co	ommuni	cation nu	ımber	
		CodeList Summary (Total Codes: 42, Inclu Code Name EM Electronic Mail TE Telephone	uded: 2)			
PER04	364	Communication Number	Х	AN	1/256	Used
		<b>Description:</b> Complete communications nu applicable	ımber in	cluding o	country or area	code when
PER05	365	Communication Number Qualifier	Х	ID	2/2	Used
		Description: Code identifying the type of c	ommuni	cation nu	ımber	
		CodeList Summary (Total Codes: 42, Inclued Code Name  EM Electronic Mail  TE Telephone	uded: 2)			
PER06	364	Communication Number	Х	AN	1/256	Used
		<b>Description:</b> Complete communications nu applicable	ımber in	cluding o	country or area	code when

#### **Syntax Rules:**

- 1. P0304 If either PER03 or PER04 is present, then the other is required.
- 2. P0506 If either PER05 or PER06 is present, then the other is required.
- 3. P0708 If either PER07 or PER08 is present, then the other is required.

### **DTM** Date/Time Reference

Pos: 2000 Max: 2 Detail - Mandatory Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

#### **Element Summary:**

Ref	<u>ld</u>	Elem	ent Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
DTM01	374	Date/	Time Qualifier	M	ID	3/3	Must use				
		Description: Code specifying type of date or time, or both date and time									
		CodeList Summary (Total Codes: 1280, Included: 2)									
		Code	<u>Name</u>								
		011	Shipped								
			User Note 1:								
			Mandatory								
		017	Estimated Delivery								
			User Note 1:								
			Mandatory								

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DT

8/8

Must use

#### **Syntax Rules:**

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DTM02

- 1. R020305 At least one of DTM02, DTM03 or DTM05 is required.
- 2. C0403 If DTM04 is present, then DTM03 is required.

**Date** 

3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

#### **User Note 1:**

Two iterations of the DTM segment are required for the Shipped Date (DTM02, when DTM01=011) and Estimated Delivery Date (DTM02, when DTM01 = 017).

# **Loop Party Identification**

Pos: 2200 Repeat: 2 Mandatory

Loop: N1 Elements: N/A

User Option (Usage): Must use

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

#### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
2200	N1	Party Identification	M	1		Must use
2400	N3	Party Location	С	2		Used
2500	N4	Geographic Location	С	1		Used

## **N1** Party Identification

Pos: 2200 Max: 1
Detail - Mandatory
Loop: N1 Elements: 4

User Option (Usage): Must use

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
N101	98	Entity Identifier Code	М	ID	2/3	Must use				
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual								
		CodeList Summary (Total Codes: 1500, I	CodeList Summary (Total Codes: 1500, Included: 2)							
		Code Name	<del></del>							
		SF Ship From								
		User Note 1:								
		Mandatory								
		ST Ship To								
		User Note 1:								
		Mandatory								
N102	93	Name	С	AN	1/60	Used				
		Description: Free-form name								
N103	66	Identification Code Qualifier	Х	ID	1/2	Used				
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)								
		CodeList Summary (Total Codes: 241, In	cluded: 2	2)						
		Code Name								
		9 D-U-N-S+4, D-U-N-S Number with	Four Cha	aracter S	uffix					
		92 Assigned by Buyer or Buyer's Ager	nt							
N104	67	Identification Code	С	AN	2/80	Used				
		Description: Code identifying a party or o	ther code	)						

#### **Syntax Rules:**

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

#### **Comments:**

 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.

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2. N105 and N106 further define the type of entity in N101.

# **N3** Party Location

Pos: 2400 Max: 2
Detail - Conditional
Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		<b>Description:</b> Address information				
N302	166	Address Information	0	AN	1/55	Used

**Description:** Address information

## **N4** Geographic Location

Pos: 2500 Max: 1
Detail - Conditional
Loop: N1 Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	М	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province agency	ce) as d	efined by	appropriate go	overnment
N403	116	Postal Code	М	ID	3/15	Must use
		<b>Description:</b> Code defining international poblanks (zip code for United States)	ostal zor	ne code e	excluding punc	tuation and
N404	26	Country Code	0	ID	2/3	Used
		Description: Code identifying the country				

#### **Syntax Rules:**

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.
- 3. C0704 If N407 is present, then N404 is required.

#### **Comments:**

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

# **Loop Hierarchical Level - ORDER**

Pos: 0100 Repeat: 200000 Mandatory Loop: HL Elements: N/A

User Option (Usage): Must use

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

#### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	М	1		Must use
0500	PRF	Purchase Order Reference	М	1		Must use
1500	REF	Reference Information	М	2		Must use
0100		Loop HL	M		200000	Must use

### **HL** Hierarchical Level

Pos: 0100 Max: 1
Detail - Mandatory
Loop: HL Elements: 3

User Option (Usage): Must use

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

#### **Element Summary:**

<u>Ref</u> HL01	<u>ld</u> 628	Element Name Hierarchical ID Number	<u>Req</u> M	<u>Type</u> AN	Min/Max 1/12	<u>Usage</u> Must use	
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	the ser	nder to id	entify a particul	ar data	
HL02	734	Hierarchical Parent ID Number	М	AN	1/12	Must use	
		<b>Description:</b> Identification number of the ne data segment being described is subordinat	•	er hierard	hical data segr	ment that the	
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	
		Description: Code defining the characterist	ic of a l	evel in a	vel in a hierarchical structure		
		CodeList Summary (Total Codes: 250, Included: 1)					
		Code Name					
		O Order					

#### **Comments:**

- 1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
- 2. The HL segment defines a top-down/left-right ordered structure.
- 3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

## **PRF** Purchase Order Reference

Pos: 0500 Max: 1 Detail - Mandatory Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To provide reference to a specific purchase order

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PRF01	324	Purchase Order Number	М	AN	1/22	Must use
		Description: Identifying number for Purcha	se Orde	r assigne	ed by the order	er/purchaser
PRF04	373	Date	0	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMM the calendar year	DD whe	re CC re	presents the fir	st two digits of

#### **Semantics:**

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

### **REF** Reference Information

Pos: 1500 Max: 2 Detail - Mandatory Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 2)

**Code Name** 

11 Account Number

**User Note 1:** 

Vendor assigned account number

IA Internal Vendor Number

**User Note 1:** 

Store assigned Vendor ID - Mandatory

REF02 127 Reference Identification M AN 1/50 Must use

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

#### 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 Hierarchical Level - PACK**

Pos: 0100 Repeat: 200000 Mandatory Loop: HL Elements: N/A

User Option (Usage): Must use

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

#### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1900	MAN	Marks and Numbers Information	M	>1		Must use
0100		Loop HL	M		200000	Must use

### **HL** Hierarchical Level

Pos: 0100 Max: 1
Detail - Mandatory
Loop: HL Elements: 3

User Option (Usage): Must use

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

#### **Element Summary:**

Ref HL01	<u>ld</u> 628		nent Name archical ID Number	<u>Req</u> M	<u>Type</u> AN	Min/Max 1/12	<u>Usage</u> Must use	
			<b>cription:</b> A unique number assigned by nent in a hierarchical structure	the ser	nder to id	entify a particu	lar data	
HL02	734	Hiera	archical Parent ID Number	М	AN	1/12	Must use	
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hier	archical Level Code	М	ID	1/2	Must use	
		Desc	cription: Code defining the characterist	ic of a l	evel in a	hierarchical str	ructure	
		Cod	eList Summary (Total Codes: 250, Incl	luded: 2	<u>?</u> )			
		Code Name						
		Р	Pack					
		Т	Shipping Tare					

#### **Comments:**

- 1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
- 2. The HL segment defines a top-down/left-right ordered structure.
- 3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

# MAN Marks and Numbers Information

Pos: 1900 Max: >1 Detail - Mandatory Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To indicate identifying marks and numbers for shipping containers

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
MAN01	88	Marks and Numbers Qualifier	М	ID	1/2	Must use			
		Description: Code specifying the application	on or so	urce of M	arks and Numl	bers (87)			
CodeList Summary (Total Codes: 21, Included: 1)									
		Code Name							
		GM EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier							
MAN02	87	Marks and Numbers	М	AN	1/48	Must use			
		Description: Marks and numbers used to identify a shipment or parts of a shipment							
		User Note 1: When MAN01 = GM, MAN02	Min/Ma	x - 20/20					

#### **Syntax Rules:**

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

#### **Comments:**

- 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.
- 2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
- 3. 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.

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# Loop Hierarchical Level - ITEM

Pos: 0100 Repeat: 200000 Mandatory Loop: HL Elements: N/A

User Option (Usage): Must use

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

#### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	M	1		Must use
0300	SN1	Item Detail (Shipment)	M	1		Must use
0700	PID	Product/Item Description	M	5		Must use
1500	REF	Reference Information	0	1		Used
2000	DTM	Date/Time Reference	0	10		Used
2200		Loop N1	0		200	Used

### **HL** Hierarchical Level

Pos: 0100 Max: 1 Detail - Mandatory Loop: HL Elements: 3

User Option (Usage): Must use

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

#### **Element Summary:**

<u>Ref</u> HL01	<u>ld</u> 628	Element Name Hierarchical ID Number	Req M	<u>Type</u> AN	Min/Max 1/12	<u>Usage</u> Must use		
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	the ser	nder to id	entify a particul	ar data		
HL02	734	Hierarchical Parent ID Number	М	AN	1/12	Must use		
		<b>Description:</b> Identification number of the ne data segment being described is subordinat	0	er hierard	hical data segr	ment that the		
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use		
		Description: Code defining the characteristic of a level in a hierarchical structure						
		CodeList Summary (Total Codes: 250, Included: 1)						
		Code Name						
		I Item						

#### **Comments:**

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

## LIN Item Identification

Pos: 0200 Max: 1 Detail - Mandatory Loop: HL Elements: 7

User Option (Usage): Must use

Purpose: To specify basic item identification data

#### **Element Summary:**

Ref LIN01	<u>Id</u> 350	Element Name Assigned Identification	Req O	<u>Type</u> AN	Min/Max 1/20	<u>Usage</u> Used			
		<b>Description:</b> Alphanumeric characters assi	gned fo	r differen	tiation within a	transaction set			
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use			
		<b>Description:</b> Code identifying the type/sour Product/Service ID (234)	ce of th	e descrip	tive number us	ed in			
		CodeList Summary (Total Codes: 519, Inc.  Code Name  UK GTIN 14-digit Data Structure  UP UCC - 12  VN Vendor's (Seller's) Item Number	luded: 3	3)					
LIN03	234	Product/Service ID	М	AN	1/48	Must use			
		Description: Identifying number for a produ	uct or se	rvice					
LIN04	235	Product/Service ID Qualifier	0	ID	2/2	Used			
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, Inc.  Code Name  UK GTIN 14-digit Data Structure  UP UCC - 12  VN Vendor's (Seller's) Item Number	luded: 3	3)					
LIN05	234	Product/Service ID	0	AN	1/48	Used			
		Description: Identifying number for a produ	uct or se	rvice					
LIN06	235	Product/Service ID Qualifier	Х	ID	2/2	Used			
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, Inc.  Code Name  UK GTIN 14-digit Data Structure  UP UCC  VN Vendor's (Seller's) Item Number	luded: 3	<b>(</b> )					
LIN07	234	Product/Service ID	Х	AN	1/48	Used			
		Description: Identifying number for a produ	uct or se	rvice					

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#### 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

#### 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.

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# **SN1** Item Detail (Shipment)

Pos: 0300 Max: 1
Detail - Mandatory
Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify line-item detail relative to shipment

#### **Element Summary:**

Ref SN102	<u>ld</u> 382	Element Name Number of Units Shipped	Req M	Type R	Min/Max 1/10	<u>Usage</u> Must use	
		<b>Description:</b> Numeric value of units shipp item or transaction set	ed in ma	nufacture	er's shipping un	its for a line	
SN103	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use	
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		CodeList Summary (Total Codes: 844, Ir	ncluded: 3	3)			
		Code Name					
		CA Case					
		EA Each					
		LB Pound					

#### **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.
- 2. SN105 is quantity ordered.

#### **Comments:**

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

### **PO4** Item Physical Details

Pos: 0600 Max: 1
Detail - Mandatory
Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item.

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
PO401	356	Pack	0	N0	1/6	Used
		<b>Description:</b> The number of inner containe containers, per outer container	rs, or nu	ımber of	eaches if there	e are no inner
PO414	810	Inner Pack	M	N0	1/6	Must use

**Description:** The number of eaches per inner container

#### **Syntax Rules:**

- 1. P0203 If either PO402 or PO403 is present, then the other is required.
- 2. C0506 If PO405 is present, then PO406 is required.
- 3. P0607 If either PO406 or PO407 is present, then the other is required.
- 4. P0809 If either PO408 or PO409 is present, then the other is required.
- 5. C1013 If PO410 is present, then PO413 is required.
- 6. C1113 If PO411 is present, then PO413 is required.
- 7. C1213 If PO412 is present, then PO413 is required.
- 8. L13101112 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
- 9. C1716 If PO417 is present, then PO416 is required.
- 10. C1804 If PO418 is present, then PO404 is required.

#### **Semantics:**

- 1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3. PO417 is the ending package identifier in a range of identifiers. 4. PO418 is the number of packages in this layer.

#### Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".

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2. PO413 defines the unit of measure for PO410, PO411, and PO412.

# PID Product/Item Description

Pos: 0700 Max: 5
Detail - Mandatory
Loop: HL Elements: 3

User Option (Usage): Must use

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
PID01	349	Item Description Type	M	ID	1/1	Must use			
		Description: Code indicating the format of a description							
		CodeList Summary (Total Codes: 3, Included)	ded: 1)						
		Code Name							
		F Free-form							
PID02	750	Product/Process Characteristic Code	М	ID	2/3	Must use			
		<b>Description:</b> Code identifying the general of	class of	a product	t or process ch	aracteristic			
		CodeList Summary (Total Codes: 238, Inc	luded: 1	)					
		Code Name							
		08 Product							
PID05	352	Description	М	AN	1/80	Must use			
		Description: A free-form description to clar	rify the re	elated da	ta elements ar	nd their content			

#### **Syntax Rules:**

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

#### **Semantics:**

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

#### **Comments:**

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

### **REF** Reference Information

Pos: 1500 Max: 1
Detail - Optional
Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>		
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use		
		Description: Code qualifying the Reference Identification						
		CodeList Summary (Total Codes: 1731, Included: 1)						
		Code Name						
		LT Lot Number						
REF02	127	Reference Identification	М	AN	1/50	Must use		
		Description: Reference information as defi	ned for a	a particul	ar Transaction	Set or as		

**Description:** Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

#### **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.

#### **User Note 1:**

This segment is required for products produced that have Lot/batch Numbers associated to them

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### **DTM** Date/Time Reference

Pos: 2000 Max: 10
Detail - Optional
Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

CodeList Summary (Total Codes: 1280, Included: 3)

**Code Name** 

036 Expiration405 Production

511 Shelf Life Expiration

**User Note 1:** 

Best When Used By Date

DTM02 373 **Date** X DT 8/8 Used

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

#### Syntax Rules:

- 1. R020305 At least one of DTM02, DTM03 or DTM05 is required.
- 2. C0403 If DTM04 is present, then DTM03 is required.
- 3. P0506 If either DTM05 or DTM06 is present, then the other is required.

#### **User Note 1:**

This segment is required for products produced that have expiration dates, production dates or best used by dates, associated to them

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# **Loop Party Identification**

Pos: 2200 Repeat: 200

Optional

Loop: N1 Elements: N/A

User Option (Usage): Used

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

#### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
2200	N1	Party Identification	0	1		Used
2500	N4	Geographic Location	0	1		Used

## **N1** Party Identification

Pos: 2200 Max: 1
Detail - Optional
Loop: N1 Elements: 2

User Option (Usage): Used

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
N101	98	Entity Identifier Code	М	ID	2/3	Must use				
		<b>Description:</b> Code identifying an organizati individual	onal ent	ity, a phy	ysical location,	property or an				
		CodeList Summary (Total Codes: 1500, Included: 1)								
		Code Name								
		CT Country of Origin								
N102	93	Name	X	AN	1/60	Used				
		Description: Free-form name								

#### **Syntax Rules:**

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

#### **Comments:**

 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.

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2. N105 and N106 further define the type of entity in N101.

# **N4** Geographic Location

Pos: 2500 Max: 1
Detail - Optional
Loop: N1 Elements: 1

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N404	26	Country Code	Χ	ID	2/3	Used

**Description:** Code identifying the country

#### **Syntax Rules:**

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.
- 3. C0704 If N407 is present, then N404 is required.

#### **Comments:**

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

#### **User Note 1:**

This segment is required for products who have a country of origin associted with them.

### **CTT** Transaction Totals

Pos: 0100 Max: 1 Summary - Optional Loop: N/A Elements: 1

User Option (Usage): Used

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

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	<u>Req</u>	<b>Type</b>	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

**Description:** Total number of line items in the transaction set

#### **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.

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### SE Transaction Set Trailer

Pos: 0200 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

**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)

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		<b>Description:</b> Total number of segments in segments	ncluded ir	n a transa	action set inclu	ding ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

#### **Comments:**

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