856 Ship Notice/Manifest

X12/V5010/856: 856 Ship Notice/Manifest

Author: SPS Commerce Company: Woodcraft Supply

Created: 1/15/2013 Modified: 1/15/2013

Notes:

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	<u>Req</u>	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	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 I	D - HL				1	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	М	1			Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	М	1			Must use
1500	REF	Reference Information	M	2			Must use
2000	DTM	Date/Time Reference	М	1			Must use
LOOP I	D - N1				<u>2</u>		
2200	N1	Party Identification	M	1			Must use
2400	N3	Party Location	M	1			Must use
2500	N4	Geographic Location	M	1			Must use
2700	PER	Administrative Communications Contact	0	1			Used
LOOP I	<u>D - HL</u>				1	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
0500	PRF	Purchase Order Reference	M	1			Must use
1100	TD1	Carrier Details (Quantity and Weight)	0	1			Used
1500	REF	Reference Information	М	2			Must use
LOOP I	D - HL				200000	C2/0100L	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
1900	MAN	Marks and Numbers Information	М	1			Must use
LOOP I	D - HL				200000	C2/0100L	
0100	HL	Hierarchical Level	М	1		C2/0100	Must use
0200	LIN	Item Identification	М	1			Must use

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	
0300	SN1	Item Detail (Shipment)	М	1			Must use	
0700	PID	Product/Item Description	М	1			Must use	

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.
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General Usage:

meaning.

For Drop Ship shipments, only one PO per ASN

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:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	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			
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction 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.

BSN Beginning Segment for Ship Notice

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 5

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use			
		Description: Code identifying purpose of transaction set CodeList Summary (Total Codes: 66, Included: 2)							
		Code Name							
		00 Original							
		User Note 1:							
		Represents Stand Alone shipme	ents						
		06 Confirmation							
		User Note 1:							
		Represents Drop Ship shipment	s						
BSN02	396	Shipment Identification	М	AN	2/30	Must use			
		Description: A unique control number assigned by the original shipper to identify a specific shipment							
		User Note 1: ASN/Shipment ID							
BSN03	373	Date	M	DT	8/8	Must use			
		Description: Date expressed as CCYYN the calendar year	MMDD whe	ere CC re	presents the fi	rst two digits of			
BSN04	337	Time	М	TM	4/8	Must use			
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: = tenths (0-9) and DD = hundredths (00-99)							
BSN05	1005	Hierarchical Structure Code	0	ID	4/4	Used			
		Description: Code indicating the hierard utilizes the HL segment to define the stru				nsaction set that			
		CodeList Summary (Total Codes: 81, Ir	ncluded: 1)						
		Code Name							
		0001 Shipment, Order, Packaging, Item	า						

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:

<u>Pos</u>	<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	1		Must use
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	М	1		Must use
1500	REF	Reference Information	M	2		Must use
2000	DTM	Date/Time Reference	M	1		Must use
2200		Loop N1	M		2	Must use
0100		Loop HL	M		1	Must use

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:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use		
		Description: A unique number assigned by segment in a hierarchical structure	the ser	nder to id	entify a particu	ılar data		
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						
		S Shipment						

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

TD1 Carrier Details (Quantity and Weight)

Pos: 1100 Max: 1
Detail - Mandatory
Loop: HL Elements: 5

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	<u>Min/Max</u> 3/5	<u>Usage</u> Must use			
		Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required							
		CodeList Summary (Total Codes: 155, Included: 4)							
		Code Name							
		BAG Bag							
		CNT Container User Note 1:							
		For future use							
		CTN Carton							
		PLT Pallet							
		CodeList Summary (Total Codes: 57, Incl	uded: 3)						
		Code Name							
		25 Corrugated or Solid79 Plastic							
		94 Wood							
TD102	80	Lading Quantity	М	N0	1/7	Must use			
		Description: Number of units (pieces) of the	he lading	commo	dity				
TD106	187	Weight Qualifier	М	ID	1/2	Must use			
		Description: Code defining the type of weight							
		CodeList Summary (Total Codes: 52, Incl	uded: 1)						
		Code Name							
		G Gross Weight							
TD107	81	Weight	М	R	1/10	Must use			
		Description: Numeric value of weight							
TD108	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use			
		Description: Code specifying the units in which a measurement has been taken	which a	/alue is b	eing expresse	ed, or manner in			
		CodeList Summary (Total Codes: 844, Inc	cluded: 1)					
		<u>Code</u> <u>Name</u>							
		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.

9

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:

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

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.

Reference Information REF

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	<u>Req</u>	<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:	3)						
		Code Name								

21 Tracking Number ВМ Bill of Lading Number

CN Carrier's Reference Number (PRO/Invoice)

REF02 127 Reference Identification 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.

User Note 1:

Either the Bill of Lading Number (BM) or the Carrier Pro Number (CN or 2I) must be present.

DTM Date/Time Reference

Pos: 2000 Max: 1
Detail - Mandatory
Loop: HL Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

Ref	<u>ld</u>	Element 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: 1)							

Code Name
011 Shipped

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.

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	Req	Max Use	Repeat	<u>Usage</u>
2200	N1	Party Identification	M	1		Must use
2400	N3	Party Location	M	1		Must use
2500	N4	Geographic Location	M	1		Must use
2700	PER	Administrative Communications Contact	0	1		Used

N1 Party Identification

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Elem	ent Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
N101	98	Entity	/ Identifier Code	М	ID	2/3	Must use			
		Description: Code identifying an organizational entity, a physical location, property or individual								
		Code	CodeList Summary (Total Codes: 1500, Included: 2)							
		Code	<u>Name</u>							
		SF	Ship From							
			User Note 1:							
			Mandatory							
		ST	Ship To							
			User Note 1:							
			Mandatory							

Μ

ΑN

1/60

Must use

Description: Free-form name

Syntax Rules:

93

N102

1. R0203 - At least one of N102 or N103 is required.

Name

2. P0304 - If either N103 or N104 is present, then the other is required.

- This segment, used alone, provides the most efficient method of providing organizational identification. To
 obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction
 processing party.
- 2. N105 and N106 further define the type of entity in N101.

N3 Party Location

Pos: 2400 Max: 1
Detail - Mandatory
Loop: N1 Elements: 2

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

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

User Option (Usage): Must use

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>
N401	19	City Name	М	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	С	ID	2/2	Used
		Description: Code (Standard State/Provin agency	ce) as d	efined by	appropriate g	overnment
N403	116	Postal Code	С	ID	3/15	Used
		Description: Code defining international problems (zip code for United States)	ostal zoı	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.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

User Note 1:

As much of the address as is available should always be included (N401, N402, N403, and N404).

When N101 is equal to 'SF' (Ship From), N402 (State/Province) and N403 (Postal Code) are required.

For Shipments within the US and CA, both State/Province (N402) and Postal Code (N403) should always be provided for N101 (ST and SO).

PER Administrative Communications Contact

Pos: 2700 Max: 1 Detail - Optional Loop: N1 Elements: 4

User Option (Usage): Used

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

Element Summary:

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

User Note 1:

Even though the Contact Name (PER02) and Phone Number (PER04) are optional, they should always be populated if sent on the Purchase Order.

Loop Hierarchical Level - ORDER

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:

<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
1100	TD1	Carrier Details (Quantity and Weight)	0	1		Used
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>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use
		Description: A unique number assigned by segment in a hierarchical structure	/ the sei	nder to id	entify a particu	lar data
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the nadata segment being described is subordinated.	•	er hierard	chical data seg	ment that the
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characteris	tic of a l	evel in a	hierarchical str	ructure
		CodeList Summary (Total Codes: 250, Inc	luded: 1	1)		
		Code Name				
		O Order				

- 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.
- 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:

Ref	<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	ase Orde	er assign	ed by the orde	rer/purchaser
PRF04	373	Date	0	DT	8/8	Used
PRFU4	3/3	Date	U	DТ	8/8	Usea

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

the calendar year

Semantics:

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

Carrier Details (Quantity and TD1 Weight)

Pos: 1100 Max: 1 **Detail - Optional** Loop: HL Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
TD101	103	Packaging Code	С	AN	3/5	Used
		Description: Code identifying the type of packaging Material; if the Data Element is	•	•		

CodeList Summary (Total Codes: 155, Included: 4)

Code Name BAG Bag CNT Container **User Note 1:**

For future use CTN Carton Pallet

CodeList Summary (Total Codes: 57, Included: 3)

Code Name

PLT

25 Corrugated or Solid

79 Plastic 94 Wood

TD102 80 **Lading Quantity** Χ N0 1/7

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

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.

Used

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						
		CO Customer Order Number						
		IA Internal Vendor Number						
REF02	127	Reference Identification	М	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.

User Note 1:

Vendor Number is Mandatory

Customer Order Number is required for Drop Ship shipments

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	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1900	MAN	Marks and Numbers Information	M	1		Must use
0100		Loop HL	М		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	<u>ld</u>	Eleme	ent Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hiera	rchical ID Number	М	AN	1/12	Must use
			ription: A unique number assigned by ent in a hierarchical structure	the ser	nder to id	entify a particu	lar data
HL02	734	Hiera	rchical Parent ID Number	0	AN	1/12	Used
			ription: Identification number of the need to be a subordinated in the result of the r	•	er hierard	chical data seg	ment that the
HL03	735	Hiera	rchical Level Code	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure					ructure
		CodeList Summary (Total Codes: 250, Included: 2)					
		Code	<u>Name</u>				
		Р	Pack				
		Т	Shipping Tare				

- 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.
- 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: 4

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	larks and Num	bers (87)			
		CodeList Summary (Total Codes: 21, Incl	uded: 2)						
		<u>Code</u> <u>Name</u>							
		CP Carrier-Assigned Package ID Numb	er						
		User Note 1:							
		Required for Ship to Consumer (di	Required for Ship to Consumer (drop ship)						
		GM EAN.UCC Serial Shipping Containe	r Code (SSCC) a	nd Application	Identifier			
		User Note 1:							
		Required for Warehouse Shipmen	Required for Warehouse Shipments						
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							
MAN04	88	Marks and Numbers Qualifier	С	ID	1/2	Used			
		Description: Code specifying the applicati	on or so	urce of M	larks and Num	bers (87)			
		CodeList Summary (Total Codes: 21, Incl	uded: 1)						
		Code Name							
		CP Carrier-Assigned Package ID Numb	er						
MAN05	87	Marks and Numbers	С	AN	1/48	Used			
		Description: Marks and numbers used to	identify a	a shipme	nt or parts of a	shipment			

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:

- 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.

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	<u>Req</u>	Max Use	<u>Repeat</u>	<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	М	1		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	Req M	<u>Type</u> AN	Min/Max 1/12	<u>Usage</u> Must use
		Description: A unique number assigned by segment in a hierarchical structure	the ser	nder to id	entify a particu	lar data
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the nedata segment being described is subordinated.	0	er hierard	chical data seg	ment that the
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characterist	tic of a l	evel in a	hierarchical st	ructure
		CodeList Summary (Total Codes: 250, Included: 1)				
		Code Name				
		I Item				

- 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.
- 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>ld</u> 350	Element Name Assigned Identification	Req O	<u>Type</u> AN	Min/Max 1/20	<u>Usage</u> Used			
		Description: Alphanumeric characters assigned for differentiation within a transaction							
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, Inc. Code Name CB Buyer's Catalog Number	cluded:	1)					
LIN03	234	Product/Service ID	М	AN	1/48	Must use			
		Description: Identifying number for a production	uct or s	ervice					
LIN04	235	Product/Service ID Qualifier	Х	ID	2/2	Used			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, Inc. Code Name VN Vendor's (Seller's) Item Number	cluded:	1)					
LIN05	234	Product/Service ID	Х	AN	1/48	Used			
		Description: Identifying number for a production	uct or s	ervice					
LIN06	235	Product/Service ID Qualifier	Χ	ID	2/2	Used			
		Description: Code identifying the type/sou Product/Service ID (234)	rce of th	ne descrip	otive number us	sed in			
		CodeList Summary (Total Codes: 519, Inc	cluded:	1)					
		Code Name							
		UP UCC User Note 1:							
		The UP qualifier is used to represe Number) data structures: GTIN-12 (UPC-12) GTIN-13 (EAN/UCC-13) GTIN-14 (ITF14) GTIN-8 (EAN/UCC-8)	nt any o	of the fam	ily of GTIN (Gl	obal Trade Item			
LIN07	234	Product/Service ID	Х	AN	1/48	Used			
		Description: Identifying number for a production	uct or s	ervice					

Ref Id Element Name Req Type Min/Max Usage

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

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

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	<u>Type</u> R	Min/Max 1/10	<u>Usage</u> Must use
		Description: Numeric value of units shipper item or transaction set	ed in ma	nufacture	er's shipping ur	nits for a line
SN103	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or m which a measurement has been taken				
		CodeList Summary (Total Codes: 844, Ind	cluded: 2	2)		
		Code Name				
		CA Case				
		EA Each				

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.

PID Product/Item Description

Pos: 0700 Max: 1 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:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
PID01	349	Item Description Type	М	ID	1/1	Must use			
		Description: Code indicating the format of a description							
		CodeList Summary (Total Codes: 3, Included Code Name Free-form	led: 1)						
PID02	750	Product/Process Characteristic Code	0	ID	2/3	Used			
		Description: Code identifying the general class of a product or process characteristic							
		CodeList Summary (Total Codes: 238, Inc. Code Name 08 Product	luded: 1)					
PID05	352	Description	X	AN	1/80	Used			

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

- 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.

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	Req	Type	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	0	N0	1/6	Used

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.

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

Comments:

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