856 Ship Notice/Manifest

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856 Ship Notice/Manifest

Functional Group=SH

Purpose: 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>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	М	1			Must use

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<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP	D - HL				200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	0	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Used
150	REF	Reference Identification	0	>1			Used
200	DTM	Date/Time Reference	0	10			Used
LOOP	<u>D - N1</u>				<u>200</u>		
220	N1	Name	0	1			Used
230	N2	Additional Name Information	0	2			Used
240	N3	Address Information	0	2			Used
250	N4	Geographic Location	0	1			Used
LOOP	D - HL				200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
050	PRF	Purchase Order Reference	0	1			Used
110	TD1	Carrier Details (Quantity and Weight)	0	20			Used
150	REF	Reference Identification	0	>1			Used
LOOP	ID - HL				200000	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
150	REF	Reference Identification	0	>1			Used
190	MAN	Marks and Numbers	0	>1			Used
LOOP	D - HL				200000	C2/010L	
010	HL	Hierarchical Level	М	1		C2/010	Must use

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	
020	LIN	Item Identification	0	1			Used	
030	SN1	Item Detail (Shipment)	0	1			Used	

Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	0	1		N3/010	Used
020	SE	Transaction Set Trailer	М	1			Must use

Notes:

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.
- 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.
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- 2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 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): 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 T All valid standard codes are used. (Total				
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number the functional group assigned by the originator				nsaction set

Semantics:

1. 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).

User Note 1:

This 856 transaction contains data on the scanned content of each box filled and shipped.

BSN Beginning Segment for Ship Notice

Pos: 020 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 BSN01	<u>ld</u> 353	Element Name Transaction Set Purpose Code	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/2	<u>Usage</u> Must use				
20.101		Description: Code identifying purpose of t			_, _					
		CodeList Summary (Total Codes: 65, Incl	CodeList Summary (Total Codes: 65, Included: 1)							
		Code Name 00 Original								
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: This number is generated by processed.	the IEI	shipping	system when t	the shipment is				
BSN03	373	Date	М	DT	8/8	Must use				
		Description: Date expressed as CCYYMM	IDD							
BSN04	337	Time	М	TM	4/8	Must use				
		Description: Time expressed in 24-hour cl HHMMSSD, or HHMMSSDD, where H = ho seconds (00-59) and DD = decimal second = tenths (0-9) and DD = hundredths (00-99)	ours (00- s; decim	-23), M =	minutes (00-5	9), S = integer				
BSN05	1005	Hierarchical Structure Code	0	ID	4/4	Used				
		Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set								
		CodeList Summary (Total Codes: 61, Included: 1)								
		Code Name0001 Shipment, Order, Packaging, Item								

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

Pos: 010 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>
010	HL	Hierarchical Level	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	0	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		Used
150	REF	Reference Identification	0	>1		Used
200	DTM	Date/Time Reference	0	10		Used
220		Loop N1	0		200	Used

HL Hierarchical Level

Pos: 010 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 se	nder to id	lentify 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: 170, Included: 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.
- 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: 110 Max: 20
Detail - Optional
Loop: HL Elements: 5

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
TD101	103	Packaging Code	0	AN	3/5	Used		
		Description: Code identifying the type of packaging Material; if the Data Element is u						
		CodeList Summary (Total Codes: 148, Included: 3)						
		Code Name						
		BOX Box						
		CTN Carton						
		PKG Package						
		CodeList Summary (Total Codes: 55, Inclu Code Name	idea: 1)					
		25 Corrugated or Solid						
TD102	80	Lading Quantity	Х	N0	1/7	Used		
		Description: Number of units (pieces) of the lading commodity						
TD106	187	Weight Qualifier	0	ID	1/2	Used		
		Description: Code defining the type of weight	ght					
		CodeList Summary (Total Codes: 51, Inclu	uded: 1)					
		Code Name						
		G Gross Weight						
TD107	81	Weight	Х	R	1/10	Used		
		Description: Numeric value of weight						
TD108	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used		
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		CodeList Summary (Total Codes: 794, Included: 1)						
		Code Name						
		LB Pound						
Suntan Di	ılaa.							

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: 5

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>			
TD501	133	Routing Sequence Code	0	ID	1/2	Used			
		Description: Code describing the relations	ship of a	carrier to	a specific ship	ment movement			
		CodeList Summary (Total Codes: 23, Included: 1)							
		Code Name							
		O Origin Carrier (Air, Motor, or Ocean))						
TD502	66	Identification Code Qualifier	Х	ID	1/2	Used			
		Description: Code designating the system/method of code structure used for Identification Code (67)							
		CodeList Summary (Total Codes: 215, Inc	cluded: 1	1)					
		Code Name							
		2 Standard Carrier Alpha Code (SCA)	C)						
TD503	67	Identification Code	Х	AN	2/80	Used			
		Description: Code identifying a party or of	her code	e					
TD504	91	Transportation Method/Type Code	Χ	ID	1/2	Used			
	Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used. (Total Codes: 71)								
TD505	387	Routing	Х	AN	1/35	Used			
		Description: Free-form description of the originating carrier's identity	outing c	r reques	ted 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.

REF Reference Identification

Pos: 150 Max: >1 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

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	ce Identi	fication				
		CodeList Summary (Total Codes: 1503, Included: 3)						
		Code Name						
		BM Bill of Lading Number						
		CN Carrier's Reference Number (PRO/	Invoice)					
		IA Internal Vendor Number						
REF02	127	Reference Identification	X	AN	1/30	Used		

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.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>			
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must use			
		Description: Code specifying type of date or time, or both date and time							
		CodeList Summary (Total Codes: 1112, Included: 2) Code Name							
		011 Shipped							
		017 Estimated Delivery							
DTM02	373	Date	Χ	DT	8/8	Used			
		Description: Date expressed as CCYYMMDD							
		User Note 1: If DTM01 = '011' this is the IEI ship date If DTM01 = '017' this is the estimated delivery used for the shipment and the location							
DTM03	337	Time	Х	TM	4/8	Used			
		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: D = tenths (0-9) and DD = hundredths (00-99)							
DTM04	623	Time Code	0	ID	2/2	Used			
		Description: Code identifying the time. In a Organization standard 8601, time can be sprelation to Universal Time Coordinate (UTC	ecified	by a + or	· - and an indic	ation in hours in			

are substituted by P and M in the codes that follow

CodeList Summary (Total Codes: 51, Included: 1)

Code Name

CT Central Time

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 Name

Pos: 220 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>
220	N1	Name	0	1		Used
230	N2	Additional Name Information	0	2		Used
240	N3	Address Information	0	2		Used
250	N4	Geographic Location	0	1		Used

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
N101	98	Entity Identifier Code	M	ID	2/3	Must use			
		Description: Code identifying an organizational entity, a physical location, property or an individual							
		CodeList Summary (Total Codes: 1312, Included: 2)							
		CodeNameSFShip From							
		ST Ship To							
N102	93	Name	Χ	AN	1/60	Used			
	Description: Free-form name								
		User Note 1: If N101 = 'ST' then N102 will contain the customer ship to name If N101 = 'SF' then N102 will contain the Ingram Entertainment warehouse name							
N103	66	Identification Code Qualifier	Χ	ID	1/2	Used			
		Description: Code designating the system/method of code structure used for Identification Code (67)							
		CodeList Summary (Total Codes: 215, Inc.	luded:	1)					
		Code Name							
		91 Assigned by Seller or Seller's Agent							
N104	67	Identification Code	Χ	AN	2/80	Used			
		Description: Code identifying a party or otl	her cod	е					
		User Note 1: If N101 = 'SF' then N104 will identifier: 07 Dallas 09 Chicago 11 Portland 18 Memphis 19 Baltimore 24 Orange	contain	the 2-dig	iit Ingram shiρμ	oing branch			
		If N101 = 'ST' then N104 may contain the c account number, if required.	ustome	r store nu	ımber or IEI				

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:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To

obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

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

N2 Additional Name Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	0	AN	1/60	Used
		Description: Free-form name				

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

Description: Address information

N4 Geographic Location

Pos: 250 Max: 1 Detail - Optional 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	Type	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Used
		Description: Code (Standard State/Provin agency	ice) as d	efined by	/ appropriate g	overnment
N403	116	Postal Code	0	ID	3/15	Used
		Description: Code defining international p blanks (zip code for United States)	ostal zo	ne code	excluding pund	tuation and
N404	26	Country Code	0	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

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

Loop Hierarchical Level

Pos: 010 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>
010	HL	Hierarchical Level	М	1		Must use
050	PRF	Purchase Order Reference	0	1		Used
110	TD1	Carrier Details (Quantity and Weight)	0	20		Used
150	REF	Reference Identification	0	>1		Used

HL Hierarchical Level

Pos: 010 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>	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	y the se	nder to id	dentify a particu	ılar data
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the n data segment being described is subordina	•	er hierar	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	level in a	hierarchical st	ructure
		CodeList Summary (Total Codes: 170, Inc	cluded: 1	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.
- HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

PRF Purchase Order Reference

Pos: 050 Max: 1 Detail - Optional Loop: HL Elements: 3

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Type	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	erer/purchaser	
PRF04	373	Date	0	DT	8/8	Used	
		Description: Date expressed as CCYYMMDD					
		User Note 1: Customer PO date					
PRF07	92	Purchase Order Type Code	0	ID	2/2	Used	
		Description: Code specifying the type of Purchase Order					
		All valid standard codes are used. (Tota	l Codes	: 69)			

Semantics:

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

TD1 Carrier Details (Quantity and Weight)

Pos: 110 Max: 20
Detail - Optional
Loop: HL Elements: 5

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
TD101	103	Packaging Code	0	AN	3/5	Used				
			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: 148, Inc	luded: 3	3)						
		Code Name								
		BOX Box								
		CTN Carton								
		PKG Package Codel int Summany (Total Codes) 75 Included: 1)								
		CodeList Summary (Total Codes: 55, Inclu Code Name	idea: 1)							
		25 Corrugated or Solid								
TD102	80	Lading Quantity	Х	N0	1/7	Used				
		Description: Number of units (pieces) of the lading commodity								
TD106	187	Weight Qualifier	0	ID	1/2	Used				
		Description: Code defining the type of weight	ght							
		CodeList Summary (Total Codes: 51, Inclu	uded: 1)							
		Code Name								
		G Gross Weight								
TD107	81	Weight	Х	R	1/10	Used				
		Description: Numeric value of weight								
TD108	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used				
		Description: Code specifying the units in w which a measurement has been taken	/hich a v	alue is b	eing expressed	d, or manner in				
		CodeList Summary (Total Codes: 794, Inc	luded: 1)						
		Code Name								
		LB Pound								
Suntan Di	ılaa.									

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.

REF Reference Identification

Pos: 150 Max: >1 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

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	e Identi	fication		
		CodeList Summary (Total Codes: 1503, In	ncluded:	1)		
		Code Name				
		IK Invoice Number				
REF02	127	Reference Identification	Х	AN	1/30	Used
		Description: Reference information as def	ined for	a nartici	lar 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.

Loop Hierarchical Level

Pos: 010 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>
010	HL	Hierarchical Level	M	1		Must use
150	REF	Reference Identification	0	>1		Used
190	MAN	Marks and Numbers	0	>1		Used

HL Hierarchical Level

Pos: 010 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>	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	y the se	nder to id	dentify a particu	ılar data
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the n data segment being described is subordina	_	er hierar	chical data seg	ment that the
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characterist	stic of a	level in a	hierarchical st	ructure
		CodeList Summary (Total Codes: 170, Included: 1)				
		Code Name				
		P Pack				

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

REF Reference Identification

Pos: 150 Max: >1 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

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	ce Identi	fication		
		CodeList Summary (Total Codes: 1503, In	ncluded:	1)		
		Code Name				
		CN Carrier's Reference Number (PRO/I	nvoice)			
REF02	127	Reference Identification	X	AN	1/30	Used
		Description: Reference information as def specified by the Reference Identification Q		a particu	llar Transaction	n Set or as

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.

MAN Marks and Numbers

Pos: 190 Max: >1 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<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 N	Marks and Num	bers (87)		
		CodeList Summary (Total Codes: 20, Included: 2)						
		Code Name						
		CP Carrier-Assigned Package ID Number	er					
		GM SSCC-18 and Application Identifier						
MAN02	87	Marks and Numbers	M	AN	1/48	Must use		

Description: Marks and numbers used to identify a shipment 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:

- 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.

Loop Hierarchical Level

Pos: 010 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>
010	HL	Hierarchical Level	М	1		Must use
020	LIN	Item Identification	0	1		Used
030	SN1	Item Detail (Shipment)	0	1		Used

HL Hierarchical Level

Pos: 010 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 se	nder to id	lentify a particu	ular data		
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used		
		Description: Identification number of the nedata segment being described is subordinated.	•	er hierar	chical data seg	gment 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: 170, 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.
- HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

LIN Item Identification

Pos: 020 Max: 1 Detail - Optional Loop: HL Elements: 9

User Option (Usage): Used

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 ass User Note 1: This field may contain a sequnumber from the 850 PO.	-					
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use		
		Description: Code identifying the type/sou Product/Service ID (234)	rce of th	ie descrip	otive number u	sed in		
		CodeList Summary (Total Codes: 477, Inc. Code Name VN Vendor's (Seller's) Item Number	cluded: 1	1)				
LIN03	234	Product/Service ID	М	AN	1/48	Must use		
		Description: Identifying number for a prod	uct or se	ervice				
		User Note 1: Ingram item number						
LIN04	235	Product/Service ID Qualifier	Χ	ID	2/2	Used		
		Description: Code identifying the type/sou Product/Service ID (234)	rce of th	ie descrip	otive number u	sed in		
		CodeList Summary (Total Codes: 477, Inc. Code Name UK U.P.C./EAN Shipping Container Cod. UP U.P.C. Consumer Package Code (1	de (1-2-	,				
LIN05	234	Product/Service ID	Х	AN	1/48	Used		
		Description: Identifying number for a prod	uct or se	ervice				
LIN06	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: 477, Inc. Code Name CB Buyer's Catalog Number	cluded: 1	1)				
LIN07	234	Product/Service ID	Χ	AN	1/48	Used		
		Description: Identifying number for a prod	uct or se	ervice				
		User Note 1: The customer item number is only available if the customer purchase order line item referenced was received in an 850 Purchase Order. Manually entered line items						

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will not contain this information.

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
LIN08	235	Product/Service ID Qualifier	Χ	ID	2/2	Used			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 477, Included: 1)							
		Code Name							
		PO Purchase Order Number							
LIN09	234	Product/Service ID	Χ	AN	1/48	Used			
		Description: Identifying number for a product or service							
		User Note 1: Customer PO reference num	ber						

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.
- 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.

SN1 Item Detail (Shipment)

Pos: 030 Max: 1 Detail - Optional Loop: HL Elements: 3

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SN101	350	Assigned Identification	0	AN	1/20	Used
		Description: Alphanumeric characters ass	igned fo	r differer	ntiation within a	transaction set
SN102	382	Number of Units Shipped	М	R	1/10	Must use
		Description: Numeric value of units shipper item or transaction set	ed in ma	ınufactur	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 man which a measurement has been taken						d, or manner in
		CodeList Summary (Total Codes: 794, Ind	cluded: 1	1)		
		Code Name				
		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.

Comments:

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

CTT Transaction Totals

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	М	N0	1/6	Must use
		Description: Total number of line items in	the tran	saction s	et	
CTT02	347	Hash Total	0	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): 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:

Ref	<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	
		Description: Total number of segments in segments	cluded i	n a transa	action set inclu	ıding 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.