# 856 Ship Notice/Manifest

X12/V4010/856: 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	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
010	ST	Transaction Set Header	M	1			Must use	4
020	BSN	Beginning Segment for Ship Notice	M	1			Must use	5

#### Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
LOOP ID	) - HL				200000	C2/010L		6
010	HL	Hierarchical Level	М	1		C2/010	Must use	7
110	TD1	Carrier Details (Quantity and Weight)	0	20			Used	8
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Used	9
150	REF	Reference Identification	0	>1			Used	10
200	DTM	Date/Time Reference	0	10			Used	11
LOOP ID	<u>- N1</u>				<u>200</u>			12
220	N1	Name	0	1			Used	13
230	N2	Additional Name Information	0	2			Used	14
240	N3	Address Information	0	2			Used	15
250	N4	Geographic Location	0	1			Used	16
LOOP ID	<u>- N1</u>				<u>200</u>			17
220	N1	Name	0	1			Used	18
230	N2	Additional Name Information	0	2			Used	19
240	N3	Address Information	0	2			Used	20
250	N4	Geographic Location	0	1			Used	21
LOOP ID	<u>- N1</u>				<u>200</u>			22
220	N1	Name	0	1			Used	23
230	N2	Additional Name Information	0	2			Used	24
240	N3	Address Information	0	2			Used	25
250	N4	Geographic Location	0	1			Used	26
LOOP ID	<u> - HL</u>				200000	C2/010L		27

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
010	HL	Hierarchical Level	М	1		C2/010	Must use	28
050	PRF	Purchase Order Reference	0	1			Used	29
LOOP ID	<u>- N1</u>				<u>200</u>			30
220	N1	Name	0	1			Used	31
LOOP ID	- HL				200000	C2/010L		32
010	HL	Hierarchical Level	М	1		C2/010	Must use	33
190	MAN	Marks and Numbers	0	>1			Used	34
LOOP ID	- HL				200000	C2/010L		35
010	HL	Hierarchical Level	М	1		C2/010	Must use	36
020	LIN	Item Identification	0	1			Used	37
030	SN1	Item Detail (Shipment)	0	1			Used	39

### Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<b>Repeat</b>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
010	CTT	Transaction Totals	0	1		N3/010	Used	40
020	SE	Transaction Set Trailer	М	1			Must use	41

## **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:**

Ref	<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
		<b>Description:</b> Code uniquely identifying a T <b>All valid standard codes are used.</b>	ransacti	on Set		
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number that		•		nsaction set

functional group assigned by the originator for a transaction 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).

# **BSN** Beginning Segment for Ship Notice

Pos: 020 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	<u>Req</u> M	Type ID	Min/Max 2/2	<u>Usage</u> Must use				
		Description: Code identifying purpose of transaction set								
		Code Name Original								
BSN02	396	Shipment Identification	М	AN	2/30	Must use				
		<b>Description:</b> A unique control number assispecific shipment	igned by	the origi	nal shipper to i	dentify a				
BSN03	373	Date	М	DT	8/8	Must use				
		<b>Description:</b> Date expressed as CCYYMM	1DD							
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: D = tenths (0-9) and DD = hundredths (00-99)								

#### **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: 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	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
220		Loop N1	0		200	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
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	the ser	nder to id	entify a particu	lar data
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
	Description: Code defining the characteristic of a level in a hierarchical structure					
		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: 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:**

<u>Ref</u> TD101	<u>ld</u> 103	Element Name Packaging Code	Req O	<u>Type</u> AN	Min/Max 3/5	<u>Usage</u> Used		
		<b>Description:</b> Code identifying the type of p Packaging Material; if the Data Element is a <b>All valid standard codes are used.</b>						
TD102	80	Lading Quantity	Χ	N0	1/7	Used		
		Description: Number of units (pieces) of the	ne lading	commod	dity			
TD106	187	Weight Qualifier	0	ID	1/2	Used		
		Description: Code defining the type of weight						
		Code Name G Gross Weight						
TD107	81	Weight	Χ	R	1/10	Used		
		Description: Numeric value of weight						
TD108	355	Unit or Basis for Measurement Code	Χ	ID	2/2	Used		
		<b>Description:</b> Code specifying the units in which a measurement has been taken	vhich a v	alue is b	eing expressed	, or manner in		
_		CodeNameLBPound						

#### 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: 1

User Option (Usage): Used

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

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
TD505	387	Routing	Χ	AN	1/35	Used

**Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

#### 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 Identif	ication		

CodeName2ITracking NumberBMBill of Lading NumberIAInternal Vendor Number

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:**

REF02

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: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

#### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must use
		<b>Description:</b> Code specifying type of date of	or time,	or both d	ate and time	
		Code Name				
		011 Shipped				
		017 Estimated Delivery				
DTM02	373	Date	Χ	DT	8/8	Used

**Description:** Date expressed as CCYYMMDD

#### **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 (Buying Party)**

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><b>Ref</b></u> N101	<u>ld</u> 98	Element Name Entity Identifier Code	Req M	Type ID	Min/Max 2/3	<u>Usage</u> Must use
		<b>Description:</b> Code identifying an organizatindividual	ional en	tity, a ph	ysical location,	property or an
		CodeNameBYBuying Party (Purchaser)				
N102	93	Name	X	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	Χ	ID	1/2	Used
		<b>Description:</b> Code designating the system Code (67)	/method	l of code	structure used	for Identification
		CodeName92Assigned by Buyer or Buyer's Agent	:			
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or otl	her code	9		

#### **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.

- 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

**Description:** Free-form name

#### **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

# **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	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	Ο	AN	1/55	Used
		<b>Description:</b> 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	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Provin agency	ce) as d	efined by	appropriate go	overnment
N403	116	Postal Code	0	ID	3/15	Used
		<b>Description:</b> Code defining international p blanks (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. C0605 - If N406 is present, then N405 is required.

- 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 Name (Ship From)**

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><b>Ref</b></u> N101	<u>ld</u> 98	Element Name Entity Identifier Code	<u>Req</u> M	Type ID	Min/Max 2/3	<u>Usage</u> Must use	
		<b>Description:</b> Code identifying an organizatindividual	ional en	tity, a ph	ysical location,	property or an	
		<u>Code</u> <u>Name</u> SF Ship From					
N102	93	Name	Х	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 Ident Code (67)					
		<ul><li>Code Name</li><li>92 Assigned by Buyer or Buyer's Agent</li></ul>					
N104	67	Identification Code	Х	AN	2/80	Used	
		<b>Description:</b> Code identifying a party or otl	her code	Э			

#### **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.

- 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

Description: Free-form name

#### **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

# **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:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
N301	166	Address Information	М	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: 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	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Provin agency	ce) as d	efined by	appropriate go	overnment
N403	116	Postal Code	0	ID	3/15	Used
		<b>Description:</b> Code defining international p blanks (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. C0605 - If N406 is present, then N405 is required.

- 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 Name (Ship To)**

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><b>Ref</b></u> N101	<u>ld</u> 98	Element Name Entity Identifier Code	Req M	Type ID	Min/Max 2/3	<u>Usage</u> Must use
		<b>Description:</b> Code identifying an organizatindividual	ional en	tity, a ph	ysical location,	property or an
		CodeNameSTShip To				
N102	93	Name	Х	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 Code (67)	/method	of code	structure used	for Identification
		CodeName12Telephone Number (Phone)92Assigned by Buyer or Buyer's Agent	:			
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or ot	her 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.

- 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

Description: Free-form name

#### **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

# **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	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used
		<b>Description:</b> 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	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Provin agency	ce) as d	efined by	appropriate go	overnment
N403	116	Postal Code	0	ID	3/15	Used
		<b>Description:</b> Code defining international p blanks (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. C0605 - If N406 is present, then N405 is required.

- 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 (Order)**

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
050	PRF	Purchase Order Reference	0	1		Used
220		Loop N1	0		200	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> 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 sei	nder to id	entify a particu	lar data
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		<b>Description:</b> Identification number of the nodata 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 characteristic of a level in a hierarchical structure					
		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: 050 Max: 1 Detail - Optional Loop: HL Elements: 1

User Option (Usage): Used

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	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

#### **Semantics:**

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

# **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	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	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> N101	<u>ld</u> 98	Element Name Entity Identifier Code	<u>Req</u> M	Type ID	Min/Max 2/3	<u>Usage</u> Must use
		<b>Description:</b> Code identifying an organization	tional en	tity, a ph	ysical location,	property or an
		Code Name  MA Party for whom Item is Ultimately In:	tended			
N102	93	Name	Х	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	Χ	ID	1/2	Used
		<b>Description:</b> Code designating the system Code (67)	/method	l of code	structure used	for Identification
		CodeName12Telephone Number (Phone)92Assigned by Buyer or Buyer's Agent	t			
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or ot	her 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.

- 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.

# **Loop Hierarchical Level (Pack)**

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
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	
		<b>Description:</b> 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	
		<b>Description:</b> Identification number of the ned data segment being described is subordinated.	J	er hierard	chical data seg	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					
		Code Name					
		P Pack					

- 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

Pos: 190 Max: >1 Detail - Optional Loop: HL Elements: 4

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	<b>Type</b>	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)
		CodeNameGMSSCC-18 and Application Identifier				
MAN02	87	Marks and Numbers	М	AN	1/48	Must use
		Description: Marks and numbers used to i	identify a	a shipme	nt or parts of a	shipment
MAN04	88	Marks and Numbers Qualifier	Χ	ID	1/2	Used
		Description: Code specifying the application	on or so	urce of M	larks and Num	bers (87)
		CodeNameCPCarrier-Assigned Package ID Numb	er			
MAN05	87	Marks and Numbers	Χ	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.

- 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: 010 Repeat: 2000000 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
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:**

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
		<b>Description:</b> 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
		<b>Description:</b> 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
		<b>Description:</b> Code defining the characteris	tic of a l	evel in a	hierarchical st	ructure
		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: 020 Max: 1 Detail - Optional Loop: HL Elements: 6

User Option (Usage): Used

Purpose: To specify basic item identification data

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use
		<b>Description:</b> Code identifying the type/sou Product/Service ID (234)	irce of th	ie descrip	otive number u	sed in
		Code Name IN Buyer's Item Number				
LIN03	234	Product/Service ID	М	AN	1/48	Must use
		Description: Identifying number for a prod	uct or se	ervice		
LIN04	235	Product/Service ID Qualifier	Χ	ID	2/2	Used
		<b>Description:</b> Code identifying the type/sou Product/Service ID (234)	irce of th	ie descrip	otive number u	sed in
		CodeNameVNVendor's (Seller's) Item Number				
LIN05	234	Product/Service ID	Χ	AN	1/48	Used
		Description: Identifying number for a prod	uct or se	ervice		
LIN06	235	Product/Service ID Qualifier	Χ	ID	2/2	Used
		<b>Description:</b> Code identifying the type/sou Product/Service ID (234)	irce of th	ie descrip	otive number u	sed in
		Code Name UP U.P.C. Consumer Package Code (1	-5-5-1)			
LIN07	234	Product/Service ID	Х	AN	1/48	Used
		<b>Description:</b> Identifying number for a prod	uct or se	ervice		

#### **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.

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- 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:**

1/21/2009

1. LIN01 is the line item identification

- 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: 2

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>		
SN102	382	Number of Units Shipped	М	R	1/10	Must use		
		<b>Description:</b> Numeric value of units shippe 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						
		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: 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	<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 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: 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:**

<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		
		<b>Description:</b> 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		
		<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.