# Sprouts Farmers Market Indirect Program 856 Ship Notice/Manifest

X12/V5010/856: 856 Ship Notice/Manifest

Author: SPS Commerce

**Company:** Sprouts Farmers Market

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## 856 Ship Notice/Manifest

### Functional Group=SH

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

### **Heading:**

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

#### Detail:

<u>P</u>	<u>os</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
L	.00P ID	<u> - HL</u>				1	C2/0100L	
0	100	HL	Hierarchical Level	M	1		C2/0100	Must use
1	100	TD1	Carrier Details (Quantity and Weight)	0	3			Used
1:	200	TD5	Carrier Details (Routing Sequence/Transit Time)	М	1			Must use
1	500	REF	Reference Information	M	2			Must use
2	000	DTM	Date/Time Reference	M	2			Must use
L	.00P ID	<u>- N1</u>				<u>2</u>		
2	200	N1	Party Identification	M	1			Must use
2	400	N3	Party Location	0	2			Used
2	500	N4	Geographic Location	0	1			Used
L	OOP ID	<u> - HL</u>				1	C2/0100L	
0	100	HL	Hierarchical Level	M	1		C2/0100	Must use
0	500	PRF	Purchase Order Reference	M	1			Must use
1	500	REF	Reference Information	М	2			Must use
L	.00P ID	<u>- HL</u>				<u>200000</u>	C2/0100L	
0	100	HL	Hierarchical Level	М	1		C2/0100	Must use
02	200	LIN	Item Identification	М	1			Must use
0	300	SN1	Item Detail (Shipment)	M	1			Must use
0	700	PID	Product/Item Description	М	200			Must use

### **Summary:**

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

#### Notes:

3/0100 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

### **Comments:**

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

### **General Usage:**

Sprouts will support the SOI ASN structure. A new ASN must be sent for each order on a shipment, with the tracking number repeating (only a single order per ASN).

### Change History:

#### 5/7/2019

- Added 'HR' (Hours) as a valid SN103 code

#### 12/21/2022

- Removed '9' as a valid N103 code

#### 3/12/2024

- Updated user notes to reference only a single order can be sent 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				
		<b>Description:</b> Code uniquely identifying a T	ransacti	on Set						
	CodeList Summary (Total Codes: 318, Included: 1)									
		Code Name								
		856 Ship Notice/Manifest								
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use				
<b>Description:</b> Identifying control number that must be unique within the transactio 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.

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# **BSN** Beginning Segment for Ship Notice

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

User Option (Usage): Must use

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

### **Element Summary:**

Ref BSN01	<u>ld</u> 353	Element Name Transaction Set Purpose Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use
		Description: Code identifying purpose of to	ransacti	on set		
		CodeList Summary (Total Codes: 66, Included   Code Name Original	uded: 1)	)		
BSN02	396	Shipment Identification	М	AN	2/30	Must use
		<b>Description:</b> A unique control number assispecific shipment <b>User Note 1:</b> <i>Unique Shipment ID Number</i>	the orig	inal shipper to	identify a	
BSN03	373	Date	М	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMM the calendar year <b>User Note 1:</b> ASN create date	IDD whe	ere CC re	presents the fi	rst two digits of
BSN04	337	Time	М	TM	4/8	Must use
<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = int seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as foll = tenths (0-9) and DD = hundredths (00-99)						
		User Note 1: ASN create time				

### **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)	0	3		Used
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	2		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	<b>Type</b>	Min/Max	<u>Usage</u>	
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use	
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	the ser	nder to id	dentify a particu	ılar data	
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use	
	Description: Code defining the characteristic of a level in a hierarchical structure						
		CodeList Summary (Total Codes: 250, Inc.	luded: 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.
- 6. 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: 3

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 M	<u>Type</u> AN	Min/Max 3/5	<u>Usage</u> Must use			
		<b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required							
		User Note 1: Valid codes are: CTN (Carton) CTN25 (Corrugated Carton) PLT (Pallet) PLT94 (Wood Pallet)							
		CodeList Summary (Total Codes: 155, Inc	cluded: 2	2)					
		Code Name CTN Carton							
		PLT Pallet							
		CodeList Summary (Total Codes: 57, Incl Code Name	uded: 2)	)					
		25 Corrugated or Solid							
		94 Wood							
TD102	80	Lading Quantity	М	N0	1/7	Must use			
		Description: Number of units (pieces) of t	he ladin	g commo	dity				
TD106	187	Weight Qualifier	0	ID	1/2	Used			
		<b>Description:</b> Code defining the type of we	ight						
		CodeList Summary (Total Codes: 52, Incl	uded: 1)	)					
		Code Name G Gross Weight							
TD107	81	Weight	0	R	1/10	Used			
		Description: Numeric value of weight							
TD108	355	Unit or Basis for Measurement Code	0	ID	2/2	Used			
		<b>Description:</b> Code specifying the units in which a measurement has been taken	which a	value is b	peing expresse	ed, or manner in			
		CodeList Summary (Total Codes: 844, Inc	cluded:	1)					
		Code Name							
		LB Pound							

### **Syntax Rules:**

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

- 3. C0607 If TD106 is present, then TD107 is required.
- 4. P0708 If either TD107 or TD108 is present, then the other is required.
- 5. P0910 If either TD109 or TD110 is present, then the other is required.

### **User Note 1:**

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

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

### **Syntax Rules:**

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

### **Semantics:**

1. TD515 is the country where the service is to be performed.

#### **Comments:**

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

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

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

### **REF** Reference Information

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

Must use

User Option (Usage): Must use

127

Purpose: To specify identifying information

### **Element Summary:**

<u>Ref</u> REF01	<u>ld</u> 128		ent Name ence Identification Qualifier	Req M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Must use		
		Description: Code qualifying the Reference Identification							
	CodeList Summary (Total Codes: 1731, Included: 3)								
		<u>Code</u>	<u>Name</u>						
		21	Tracking Number						
		BM	Bill of Lading Number						
		CN	Carrier's Reference Number (PRO/In	nvoice)					

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

Μ

ΑN

1/50

specified by the Reference Identification Qualifier

### **Syntax Rules:**

REF02

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

**Reference Identification** 

### **Semantics:**

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

### **User Note 1:**

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

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

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

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

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

### **Element Summary:**

RefIdElement NameReqTypeMin/MaxUsageDTM01374Date/Time QualifierMID3/3Must 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

User Note 1: Mandatory

DTM02 373 Date M DT 8/8 Must use

**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	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
2200	N1	Party Identification	М	1		Must use
2400	N3	Party Location	0	2		Used
2500	N4	Geographic Location	0	1		Used

### **N1** Party Identification

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

User Option (Usage): Must use

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

### **Element Summary:**

<u>Ref</u> N101	<u>ld</u> 98	Element Name Entity Identifier Code	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Must use				
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or individual								
		CodeList Summary (Total Codes: 1500, In	CodeList Summary (Total Codes: 1500, Included: 1)							
		Code Name ST Ship To								
		User Note 1:  Mandatory								
N102	93	Name	М	AN	1/60	Must use				
		Description: Free-form name								
N103	66	Identification Code Qualifier	Χ	ID	1/2	Used				
		<b>Description:</b> Code designating the system/method of code structure used for Iden Code (67)								
		CodeList Summary (Total Codes: 241, Inc	cluded:	1)						
		<ul><li><u>Code</u></li><li><u>Name</u></li><li>92 Assigned by Buyer or Buyer's Agent</li></ul>								
N104	67	Identification Code	0	AN	2/80	Used				
		Description: Code identifying a party or other code								
		<b>User Note 1:</b> When sent, N104 should match the value provided on the Purchase Order. If N104 represents the Sprouts Farmers Market store number and the value contains less than 4 digits, the store number should be sent with leading zero(s) to populate a 4 digit value.								
		Example: Store 657 should be sent as 065	7							

### 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.

### **N3** Party Location

Pos: 2400 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

**Description:** Address information

### **N4** Geographic Location

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

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	M	AN	2/30	Must use
		<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/Province agency	e) as d	efined by	appropriate g	overnment
N403	116	Postal Code	М	ID	3/15	Must use
		<b>Description:</b> Code defining international poblanks (zip code for United States)	stal zor	ne code e	excluding pund	ctuation and
N404	26	Country Code	0	ID	2/3	Used
		<b>Description:</b> 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.

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

### **User Note 1:**

Only one PO is allowed per ASN.

### **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>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		<b>Description:</b> A unique number assigned by segment in a hierarchical structure	y the se	nder to id	lentify a particu	ılar data
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Must use
		<b>Description:</b> Identification number of the n data segment being described is subordina	•	er hierar	chical data seg	ment that the
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
		Description: Code defining the characteris	stic of a	level in a	hierarchical st	ructure
		CodeList Summary (Total Codes: 250, Inc	cluded: 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:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
PRF01	324	Purchase Order Number	М	AN	1/22	Must use
		<b>Description:</b> Identifying number for Purch	ase Orde	er assign	ed by the orde	rer/purchaser
		User Note 1: Only one PO is allowed per A	ASN.			
PRF04	373	Date	0	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMN the calendar year	IDD whe	ere CC re	epresents the fi	rst two digits of

### Semantics:

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

### **REF** Reference Information

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

User Option (Usage): Must use

Purpose: To specify identifying information

### **Element Summary:**

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

Code Name

IA Internal Vendor Number

User Note 1:

Sprouts assigned Vendor ID - Mandatory

REF02 127 Reference Identification M AN 1/50 Must use

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

specified by the Reference Identification Qualifier

### **Syntax Rules:**

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

#### **Semantics:**

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

### **Loop Hierarchical Level - ITEM**

Pos: 0100 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>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	M	1		Must use
0300	SN1	Item Detail (Shipment)	M	1		Must use
0700	PID	Product/Item Description	M	200		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>	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	y the se	nder to id	dentify a particu	ılar data
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Must use
		<b>Description:</b> 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	tic of a	level in a	hierarchical st	ructure
		CodeList Summary (Total Codes: 250, Inc	cluded: 1	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: 3

User Option (Usage): Must use

Purpose: To specify basic item identification data

### **Element Summary:**

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
LIN01	350	Assigned Identification	M	AN	1/20	Must use
		Description: Alphanumeric characters ass	igned fo	r differer	ntiation within a	transaction set
		<b>User Note 1:</b> The Line Sequence Number the ASN.	from the	Purchas	se Order must i	be returned on
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use
		<b>Description:</b> Code identifying the type/sou Product/Service ID (234)	rce of th	ne descri <sub>l</sub>	otive number u	sed in
		CodeList Summary (Total Codes: 519, Inc	cluded: 1	1)		
		Code Name				
		VN Vendor's (Seller's) Item Number				
LIN03	234	Product/Service ID	М	AN	1/48	Must use
		Description: 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.
- 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.
- 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: 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:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<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 shipper item or transaction set	ed in ma	nufacture	er's shipping u	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 manner in which a measurement has been taken

CodeList Summary (Total Codes: 844, Included: 33)

Codel	LIST Summary (Total Cou
<u>Code</u>	<u>Name</u>
BD	Bundle
BG	Bag
BK	Book
ВО	Bottle
ВХ	Box
CA	Case
CG	Card
CT	Carton
DH	Miles
DZ	Dozen
EA	Each
GS	Gross
HR	Hours
HU	Hundred
HV	Hundred Weight (Short)
KT	Kit
LF	Linear Foot
LO	Lot
PA	Pail
PD	Pad
PH	Pack (PAK)
PL	Pallet/Unit Load
PR	Pair
Q4	Fifty
RL	Roll
RM	Ream
SE	Section
SH	Sheet
ST	Set
TB	Tube

<u>Code</u>	<u>Name</u>
TC	Truckload
TH	Thousand
TY	Tray

### **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: 200 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: 1)						
		Code Name						
		F Free-form						
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	luded: 1	<b>)</b>				
		Code Name						
		08 Product						
PID05	352	Description	Χ	AN	1/80	Used		
		Description: A free-form description to cla	rify the r	elated da	ata elements a	nd their content		

### **Syntax Rules:**

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

#### Semantics:

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

- 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:**

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

Description: Total number of line items in the transaction set

### **Syntax Rules:**

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

### **Comments:**

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

### **SE** Transaction Set Trailer

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

User Option (Usage): Must use

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

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>		
SE01	96	Number of Included Segments	М	N0	1/10	Must use		
		<b>Description:</b> Total number of segments in segments	cluded ir	n a trans	action set inclu	iding 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.