

# **Trader Joe's 856 Ship Notice/Manifest**

**X12/V4030/856 : 856 Ship Notice/Manifest**

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# 856

## Ship Notice/Manifest

### Functional Group=SH

**Purpose:** This Standard 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.

### Change History:

*February 2025:*

- Added qualifiers 510 and 511 as valid pack-level and item-level DTM01 codes

*December 2024:*

- Updated allowed BSN05 codes - Added code 0001, removed code 0004. SOPI or SOTI structure is now required, SOI structure is not accepted.

- Updated TD5 segment to Mandatory

- Added 2I as valid shipment-level REF01 code. Updated conditional requirements.

- Added codes 011 and 118 as valid shipment-level DTM01 codes. Updated conditional requirements.

- Updated shipment-level N102 to Mandatory

- Updated shipment-level N103/04 conditional requirements

- Updated shipment-level N3 and N4 segments to Mandatory

- Updated order-level to allow for multiple orders to be sent in a single ASN

- Added entire pack-level as Mandatory.

- Removed EN as an allowed LIN02 value

- Added LIN08-13 to provide additional item identifiers when present

- Added item-level PO4 segment

- Updated item-level PID to Mandatory

- Removed codes 73 and 74 as allowed item-level PID02 values. Updated PID02 to Mandatory

- Added item-level REF segment

- Added item-level DTM segment

- Added item-level N1 loop

### Heading:

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

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - HL</b>					<b>1</b>	<b>C2/0100L</b>	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	2			Used
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1			Must use
<b>LOOP ID - TD3</b>					<b>1</b>		
1300	TD3	Carrier Details (Equipment)	O	1			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
1500	REF	Reference Identification	M	4			Must use
2000	DTM	Date/Time Reference	M	4			Must use
<b>LOOP ID - N1</b>					<b><u>2</u></b>		
2200	N1	Name	M	1			Must use
2400	N3	Address Information	M	1			Must use
2500	N4	Geographic Location	M	1			Must use
2700	PER	Administrative Communications Contact	O	1			Used
<b>LOOP ID - HL</b>					<b><u>200000</u></b>	<b><u>C2/0100L</u></b>	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0500	PRF	Purchase Order Reference	M	1			Must use
1500	REF	Reference Identification	M	2			Must use
<b>LOOP ID - HL</b>					<b><u>200000</u></b>	<b><u>C2/0100L</u></b>	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0600	PO4	Item Physical Details	O	1			Used
1500	REF	Reference Identification	O	>1			Used
1900	MAN	Marks and Numbers	M	1			Must use
2000	DTM	Date/Time Reference	O	10			Used
<b>LOOP ID - N1</b>					<b><u>200</u></b>		
2200	N1	Name	M	1			Must use
2500	N4	Geographic Location	C	1			Used
<b>LOOP ID - HL</b>					<b><u>200000</u></b>	<b><u>C2/0100L</u></b>	
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
0200	LIN	Item Identification	M	1			Must use
0300	SN1	Item Detail (Shipment)	M	1			Must use
0600	PO4	Item Physical Details	O	1			Used
0700	PID	Product/Item Description	M	1			Must use
1500	REF	Reference Identification	O	>1			Used
2000	DTM	Date/Time Reference	O	10			Used
<b>LOOP ID - N1</b>					<b><u>200</u></b>		
2200	N1	Name	M	1			Must use
2500	N4	Geographic Location	C	1			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	O	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.
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- meaning.
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# ST Transaction Set Header

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

**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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

**Description:** Code uniquely identifying a Transaction Set

**CodeList Summary** (Total Codes: 314, Included: 1)

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

# BSN Beginning Segment for Ship Notice

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
<b>Description:</b> Code identifying purpose of transaction set						
<b>CodeList Summary</b> (Total Codes: 65, Included: 1)						
<b>Code Name</b>						
00 Original						
<b>User Note 1:</b> <i>Stand Alone/Bulk Shipment</i>						
BSN02	396	Shipment Identification	M	AN	2/30	Must use
<b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment						
BSN03	373	Date	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
<b>User Note 1:</b> <i>Ship Notice Date</i>						
BSN04	337	Time	M	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)						
<b>User Note 1:</b> <i>Ship Notice Time</i>						
BSN05	1005	Hierarchical Structure Code	O	ID	4/4	Used
<b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set						
<b>CodeList Summary</b> (Total Codes: 79, Included: 1)						
<b>Code Name</b>						
0001 Shipment, Order, Packaging, Item						

## Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

# Loop Hierarchical Level - SHIPMENT LEVEL

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

**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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	2		Used
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	1		Must use
1300		Loop TD3	O		1	Used
1500	REF	Reference Identification	M	4		Must use
2000	DTM	Date/Time Reference	M	4		Must use
2200		Loop N1	M		2	Must use
0100		Loop HL	M		200000	Must use

# HL Hierarchical Level

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use

**Description:** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
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**Description:** Code defining the characteristic of a level in a hierarchical structure

**CodeList Summary** (Total Codes: 218, Included: 1)

<u>Code</u>	<u>Name</u>
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S	Shipment
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## 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.



# TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 2
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	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	Packaging Code	M	AN	3/5	Must use

**Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

**User Note 1:** If more than 1 Packing Medium (TD101) is included in the shipment, the Quantity and Weight (TD1) group should be sent for each type.

Valid codes are:

CTN (Carton)

CTN25 (Corrugated Carton)

PLT (Pallet)

PLT94 (Wood Pallet)

**CodeList Summary** (Total Codes: 148, Included: 2)

**Code Name**

CTN Carton

PLT Pallet

**CodeList Summary** (Total Codes: 55, Included: 2)

**Code Name**

25 Corrugated or Solid

94 Wood

TD102	80	Lading Quantity	M	N0	1/7	Must use
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**Description:** Number of units (pieces) of the lading commodity

**User Note 1:** The number of cartons or pallets within the shipment as described in TD101.

TD106	187	Weight Qualifier	X	ID	1/2	Used
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**Description:** Code defining the type of weight

**CodeList Summary** (Total Codes: 52, Included: 1)

**Code Name**

G Gross Weight

TD107	81	Weight	X	R	1/10	Used
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**Description:** Numeric value of weight

TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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**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: 803, Included: 1)

**Code Name**

<u>Code</u>	<u>Name</u>
LB	Pound

**Syntax Rules:**

1. C0102 - If TD101 is present, then TD102 is required.
2. C0607 - If TD106 is present, then TD107 is required.
3. P0708 - If either TD107 or TD108 is present, then the other is required.

# TD5 Carrier Details (Routing Sequence/Transit Time)

<b>Pos: 1200</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## User Note 1:

*One of either SCAC (TD503 with TD502=2) or Carrier Routing (TD505) must be sent.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																																
TD502	66	Identification Code Qualifier	C	ID	1/2	Used																																
Description: Code designating the system/method of code structure used for Identification Code (67)																																						
CodeList Summary (Total Codes: 223, Included: 1)																																						
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>2</td><td>Standard Carrier Alpha Code (SCAC)</td></tr></table>							<u>Code</u>	<u>Name</u>	2	Standard Carrier Alpha Code (SCAC)																												
<u>Code</u>	<u>Name</u>																																					
2	Standard Carrier Alpha Code (SCAC)																																					
TD503	67	Identification Code	C	AN	2/80	Used																																
Description: Code identifying a party or other code																																						
User Note 1: SCAC (Standard Carrier Alpha Code) - Min/Max = 2/4																																						
TD504	91	Transportation Method/Type Code	O	ID	1/2	Used																																
Description: Code specifying the method or type of transportation for the shipment																																						
CodeList Summary (Total Codes: 80, Included: 15)																																						
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A</td><td>Air</td></tr><tr><td>C</td><td>Consolidation</td></tr><tr><td>D</td><td>Parcel Post</td></tr><tr><td>E</td><td>Expedited Truck</td></tr><tr><td>H</td><td>Customer Pickup</td></tr><tr><td>K</td><td>Backhaul</td></tr><tr><td>L</td><td>Contract Carrier</td></tr><tr><td>M</td><td>Motor (Common Carrier)</td></tr><tr><td>R</td><td>Rail</td></tr><tr><td>S</td><td>Ocean</td></tr><tr><td>T</td><td>Best Way (Shippers Option)</td></tr><tr><td>U</td><td>Private Parcel Service</td></tr><tr><td>AE</td><td>Air Express</td></tr><tr><td>CE</td><td>Customer Pickup / Customer's Expense</td></tr><tr><td>MP</td><td>Motor (Package Carrier)</td></tr></table>							<u>Code</u>	<u>Name</u>	A	Air	C	Consolidation	D	Parcel Post	E	Expedited Truck	H	Customer Pickup	K	Backhaul	L	Contract Carrier	M	Motor (Common Carrier)	R	Rail	S	Ocean	T	Best Way (Shippers Option)	U	Private Parcel Service	AE	Air Express	CE	Customer Pickup / Customer's Expense	MP	Motor (Package Carrier)
<u>Code</u>	<u>Name</u>																																					
A	Air																																					
C	Consolidation																																					
D	Parcel Post																																					
E	Expedited Truck																																					
H	Customer Pickup																																					
K	Backhaul																																					
L	Contract Carrier																																					
M	Motor (Common Carrier)																																					
R	Rail																																					
S	Ocean																																					
T	Best Way (Shippers Option)																																					
U	Private Parcel Service																																					
AE	Air Express																																					
CE	Customer Pickup / Customer's Expense																																					
MP	Motor (Package Carrier)																																					
TD505	387	Routing	C	AN	1/35	Used																																
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity																																						
User Note 1: Carrier Name/Routing Information																																						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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**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.

**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.

## Loop Carrier Details (Equipment)

Pos: 1300	Repeat: 1
Optional	
Loop: TD3	Elements: N/A

**User Option (Usage):** Used

**Purpose:** To specify transportation details relating to the equipment used by the carrier

### Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1300	TD3	Carrier Details (Equipment)	O	1		Used

# TD3 Carrier Details (Equipment)

Pos: 1300	Max: 1
Detail - Optional	
Loop: TD3	Elements: 3

**User Option (Usage):** Used

**Purpose:** To specify transportation details relating to the equipment used by the carrier

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD301	40	Equipment Description Code	M	ID	2/2	Must use

**Description:** Code identifying type of equipment used for shipment

**CodeList Summary** (Total Codes: 137, Included: 1)

**Code Name**

TL Trailer (not otherwise specified)

TD302	206	Equipment Initial	O	AN	1/4	Used
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**Description:** Prefix or alphabetic part of an equipment unit's identifying number

TD303	207	Equipment Number	M	AN	1/10	Must use
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**Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

**User Note 1:** *Trailer Number*

## Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.

# REF Reference Identification

<b>Pos: 1500</b>	<b>Max: 4</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

**Purpose:** To specify identifying information

## User Note 1:

*At least one of Bill of Lading, Carrier Pro Number, Small Parcel Tracking Number, or Pickup Number must be sent*

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1631, Included: 4)

### Code Name

2I	Tracking Number
BM	Bill of Lading Number
CN	Carrier's Reference Number (PRO/Invoice)
P8	Pickup Reference Number

REF02	127	Reference Identification	M	AN	1/50	Must use
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**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.

# DTM Date/Time Reference

<b>Pos: 2000</b>	<b>Max: 4</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**User Option (Usage):** Must use

**Purpose:** To specify pertinent dates and times

## User Note 1:

*Two iterations of the DTM segment are required for the Shipped/Pickup Date and Time and Delivered Date.*

*Shipped/Pickup Date and Time: DTM02 and DTM03, with DTM01=011 or 118*

*Delivered Date: DTM02, with DTM01=035 or 067*

## Element Summary:

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

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

**CodeList Summary** (Total Codes: 1226, Included: 4)

### Code Name

011	Shipped
035	Delivered
067	Current Schedule Delivery
118	Requested Pick-up

DTM02	373	Date	M	DT	8/8	Must use
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**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM03	337	Time	C	TM	4/8	Used
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**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)

**User Note 1:** Mandatory when DTM01=011 or 118 (Ship Time/Pickup Time)

## Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.



# Loop Name

<b>Pos: 2200</b>	<b>Repeat: 2</b>
<b>Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: N/A</b>

**User Option (Usage):** Must use

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

## User Note 1:

*Two iterations of the N1 loop must be sent, for the Ship From and Ship To addresses.*

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Name	M	1		Must use
2400	N3	Address Information	M	1		Must use
2500	N4	Geographic Location	M	1		Must use
2700	PER	Administrative Communications Contact	O	1		Used

# N1 Name

<b>Pos: 2200</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: 1446, Included: 2)

### Code Name

SF Ship From

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

*Mandatory*

ST Ship To

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

*Mandatory*

N102	93	Name	M	AN	1/60	Must use
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**Description:** Free-form name

N103	66	Identification Code Qualifier	C	ID	1/2	Used
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**Description:** Code designating the system/method of code structure used for Identification Code (67)

**User Note 1:** *Required if present on the PO or PO Change.*

*Mandatory when N101=ST.*

*Mandatory when N101=SF - only for FSMA 204 track and trace requirements.*

**CodeList Summary** (Total Codes: 223, Included: 3)

### Code Name

1 D-U-N-S Number, Dun & Bradstreet

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

*Only allowed for Ship From (N101=SF)*

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

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

*Allowed for Ship From (N101=SF) or Ship To (N101=ST)*

92 Assigned by Buyer or Buyer's Agent

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

*Only allowed for Ship To (N101=ST)*

N104	67	Identification Code	C	AN	2/80	Used
------	----	---------------------	---	----	------	------

**Description:** Code identifying a party or other code

**User Note 1:** *Required if present on the PO or PO Change.*

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>Mandatory when N101=ST and must match the location sent on the PO or PO Change.</i>				
		<i>Mandatory when N101=SF - only for FSMA 204 track and trace requirements.</i>				

### 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.

# N3 Address Information

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

User Option (Usage): Must use  
Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

# N4 Geographic Location

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

**User Option (Usage):** Must use

**Purpose:** To specify the geographic place of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	M	AN	2/30	Must use
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	C	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
		<b>User Note 1:</b> <i>N403, Postal Code, is required unless the address is outside the U.S.</i>				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				

## 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.

# PER Administrative Communications Contact

<b>Pos: 2700</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 8</b>

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2	Must use
<b>Description:</b> Code identifying the major duty or responsibility of the person or group named						
<b>CodeList Summary</b> (Total Codes: 234, Included: 1)						
<u>Code</u> <u>Name</u> IC   Information Contact						
PER02	93	<b>Name</b>	O	AN	1/60	Used
<b>Description:</b> Free-form name						
PER03	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
<b>Description:</b> Code identifying the type of communication number						
<b>CodeList Summary</b> (Total Codes: 40, Included: 1)						
<u>Code</u> <u>Name</u> TE   Telephone						
PER04	364	<b>Communication Number</b>	X	AN	1/256	Used
<b>Description:</b> Complete communications number including country or area code when applicable						
PER05	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
<b>Description:</b> Code identifying the type of communication number						
<b>CodeList Summary</b> (Total Codes: 40, Included: 1)						
<u>Code</u> <u>Name</u> FX   Facsimile						
PER06	364	<b>Communication Number</b>	X	AN	1/256	Used
<b>Description:</b> Complete communications number including country or area code when applicable						
PER07	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
<b>Description:</b> Code identifying the type of communication number						
<b>CodeList Summary</b> (Total Codes: 40, Included: 1)						
<u>Code</u> <u>Name</u> EM   Electronic Mail						
PER08	364	<b>Communication Number</b>	X	AN	1/256	Used
<b>Description:</b> Complete communications number including country or area code when						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		applicable				

**Syntax Rules:**

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

# Loop Hierarchical Level - ORDER LEVEL

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

**User Option (Usage):** Must use

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

## User Note 1:

*Trader Joe's allows for multiple POs on a single shipment.*

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<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 Identification	M	2		Must use
0100		Loop HL	M		200000	Must use



# HL Hierarchical Level

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use
<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	<b>Hierarchical Parent ID Number</b>	M	AN	1/12	Must use
<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure						
<b>CodeList Summary</b> (Total Codes: 218, Included: 1)						
<b><u>Code</u> <u>Name</u></b>						
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.

# 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use
<b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser						
<b>User Note 1:</b> <i>This value must match what was sent on the 850</i>						
PRF04	373	Date	O	DT	8/8	Used
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						

## Semantics:

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

# REF Reference Identification

<b>Pos: 1500</b>	<b>Max: 2</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

**Purpose:** To specify identifying information

## User Note 1:

*Vendor Number REF-VR is required*

## Element Summary:

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

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1631, Included: 2)

### Code Name

IV Seller's Invoice Number

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

*Optional*

VR Vendor ID Number

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

*Trader Joe's assigned vendor number - Mandatory*

REF02	127	Reference Identification	M	AN	1/50	Must use
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**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.

# Loop Hierarchical Level - PACK LEVEL

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

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0600	PO4	Item Physical Details	O	1		Used
1500	REF	Reference Identification	O	>1		Used
1900	MAN	Marks and Numbers	M	1		Must use
2000	DTM	Date/Time Reference	O	10		Used
2200		Loop N1	O		200	Used
0100		Loop HL	M		200000	Must use

# HL Hierarchical Level

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use
<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	<b>Hierarchical Parent ID Number</b>	M	AN	1/12	Must use
<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use
<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure						

**CodeList Summary** (Total Codes: 217, Included: 2)

### Code Name

P Pack

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

*Carton*

T Shipping Tare

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

*Pallet*

## Comments:

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

# PO4 Item Physical Details

<b>Pos: 0600</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**User Option (Usage):** Used

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

## User Note 1:

*Pack level weight*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO405	187	<b>Weight Qualifier</b>	X	ID	1/2	Used

**Description:** Code defining the type of weight

**CodeList Summary** (Total Codes: 52, Included: 1)

Code Name

G Gross Weight

PO406	384	<b>Gross Weight per Pack</b>	X	R	1/9	Used
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**Description:** Numeric value of gross weight per pack

PO407	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
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**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: 803, Included: 1)

Code Name

LB Pound

## Syntax Rules:

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

## Semantics:

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

## Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

# REF Reference Identification

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

**User Option (Usage):** Used

**Purpose:** To specify identifying information

## User Note 1:

*Required for items with lot/batch numbers associated to them - must be sent at either the pack or item level*

*FSMA 204 Traceability Lot Code*

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1631, Included: 1)

### Code Name

LT	Lot Number
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### User Note 1:

*Traceability Lot Code*

REF02	127	Reference Identification	M	AN	1/50	Must use
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**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.



# MAN Marks and Numbers

Pos: 1900	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

**User Option (Usage):** Must use

**Purpose:** To indicate identifying marks and numbers for shipping containers

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

**Description:** Code specifying the application or source of Marks and Numbers (87)

**CodeList Summary** (Total Codes: 21, Included: 2)

### Code Name

CP Carrier-Assigned Package ID Number

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

*Required for the Carton Tracking Number. Must be used for all small package shipments.*

*Repeating MAN segments should be used for every Carrier Assigned Tracking Number.*

GM SSCC-18 and Application Identifier

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

*Required for the GS1-128 20 digit barcode number.*

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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**Description:** Marks and numbers used to identify a shipment or parts of a shipment

**User Note 1:** When MAN01 = GM, MAN02 Min/Max = 20/20

MAN04	88	Marks and Numbers Qualifier	X	ID	1/2	Used
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**Description:** Code specifying the application or source of Marks and Numbers (87)

**CodeList Summary** (Total Codes: 21, Included: 1)

### Code Name

CP Carrier-Assigned Package ID Number

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

*Carton Tracking Number. Used if both GS1-128 value and Tracking Number are present.*

MAN05	87	Marks and Numbers	X	AN	1/48	Used
-------	----	-------------------	---	----	------	------

**Description:** Marks and numbers used to identify a shipment or parts of a shipment

**User Note 1:** When there is both the GS1-128 # and small package tracking number available, use MAN01/02 for the GS1-128 # (GM) and MAN04/05 for the small package tracking # (CP).

## 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.

# DTM Date/Time Reference

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

**User Option (Usage):** Used

**Purpose:** To specify pertinent dates and times

## User Note 1:

*Required for items with expiration/manufacture dates associated to them - must be sent at either the pack or item level*

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

**CodeList Summary** (Total Codes: 1226, Included: 4)

### Code Name

036 Expiration

405 Production

### User Note 1:

*Manufacture Date*

510 Date Packed

511 Shelf Life Expiration

### User Note 1:

*Best Before Date*

DTM02	373	Date	M	DT	8/8	Must use
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**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 Name

Pos: 2200	Repeat: 200
Optional	
Loop: N1	Elements: N/A

**User Option (Usage):** Used

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

## User Note 1:

*Required for items with country of origin associated to them and/or items needing to meet FSMA 204 track and trace requirements - must be sent at either the pack or item level*

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Name	M	1		Must use
2500	N4	Geographic Location	C	1		Used

# N1 Name

<b>Pos: 2200</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use

**Description:** Code identifying an organizational entity, a physical location, property or an individual

**CodeList Summary** (Total Codes: 1446, Included: 2)

### Code Name

CT	Country of Origin
MF	Manufacturer of Goods

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

*Manufacturer / Plant / Traceability Lot Code Source*

N102	93	<b>Name</b>	X	AN	1/60	Used
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**Description:** Free-form name

N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

**Description:** Code designating the system/method of code structure used for Identification Code (67)

**User Note 1:** *Required when N101=MF*

**CodeList Summary** (Total Codes: 223, Included: 3)

### Code Name

9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
92	Assigned by Buyer or Buyer's Agent
UL	UCC/EAN Location Code

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

*Global Location Number (GLN)*

N104	67	<b>Identification Code</b>	C	AN	2/80	Used
------	----	----------------------------	---	----	------	------

**Description:** Code identifying a party or other code

**User Note 1:** *Required when N101=MF - FSMA 204 Traceability Lot Code Source*

## 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.

# N4 Geographic Location

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

**User Option (Usage):** Used

**Purpose:** To specify the geographic place of the named party

## Element Summary:

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

**Description:** Code identifying the country

**User Note 1:** *Required when N101=CT - Country of Origin*

## Syntax Rules:

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

## Comments:

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

# Loop Hierarchical Level - ITEM LEVEL

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

**User Option (Usage):** Must use

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<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
0600	PO4	Item Physical Details	O	1		Used
0700	PID	Product/Item Description	M	1		Must use
1500	REF	Reference Identification	O	>1		Used
2000	DTM	Date/Time Reference	O	10		Used
2200		Loop N1	O		200	Used

# HL Hierarchical Level

<b>Pos: 0100</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 3</b>

**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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
HL01	628	<b>Hierarchical ID Number</b>	M	AN	1/12	Must use				
<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure										
HL02	734	<b>Hierarchical Parent ID Number</b>	M	AN	1/12	Must use				
<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to										
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Must use				
<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure										
<b>CodeList Summary</b> (Total Codes: 217, Included: 1)										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>I</td><td>Item</td></tr></table>							<u>Code</u>	<u>Name</u>	I	Item
<u>Code</u>	<u>Name</u>									
I	Item									

## Comments:

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



# LIN Item Identification

Pos: 0200	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 13

**User Option (Usage):** Must use

**Purpose:** To specify basic item identification data

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		User Note 1: At least one of Buyer Part Number, UPC Case Code, GTIN, or Consumer Package Code is required. If GTIN was sent on the PO or PO Change, it should be returned on the ASN.				
		CodeList Summary (Total Codes: 505, Included: 4)				
		<u>Code</u>	<u>Name</u>			
		IN	Buyer's Item Number			
			User Note 1:			
			Trader Joe's Item Number			
		UA	U.P.C./EAN Case Code (2-5-5)			
		UK	EAN/UCC - 14			
			User Note 1:			
			GTIN			
		UP	UCC - 12			
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 505, Included: 6)				
		<u>Code</u>	<u>Name</u>			
		EN	EAN/UCC - 13			
		IN	Buyer's Item Number			
			User Note 1:			
			Trader Joe's Item Number			
		UA	U.P.C./EAN Case Code (2-5-5)			
		UK	EAN/UCC - 14			
			User Note 1:			
			GTIN			
		UP	UCC - 12			
		VN	Vendor's (Seller's) Item Number			

LIN05	234	<b>Product/Service ID</b>	X	AN	1/48	Used
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**Description:** Identifying number for a product or service

LIN06	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 505, Included: 6)

**Code Name**

EN EAN/UCC - 13

IN Buyer's Item Number

**User Note 1:**

*Trader Joe's Item Number*

UA U.P.C./EAN Case Code (2-5-5)

UK EAN/UCC - 14

**User Note 1:**

*GTIN*

UP UCC - 12

VN Vendor's (Seller's) Item Number

LIN07	234	<b>Product/Service ID</b>	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

**Description:** Identifying number for a product or service

LIN08	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 505, Included: 6)

**Code Name**

EN EAN/UCC - 13

IN Buyer's Item Number

**User Note 1:**

*Trader Joe's Item Number*

UA U.P.C./EAN Case Code (2-5-5)

UK EAN/UCC - 14

**User Note 1:**

*GTIN*

UP UCC - 12

VN Vendor's (Seller's) Item Number

LIN09	234	<b>Product/Service ID</b>	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

**Description:** Identifying number for a product or service

LIN10	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 505, Included: 6)

**Code Name**

**Code Name**

EN EAN/UCC - 13

IN Buyer's Item Number

**User Note 1:***Trader Joe's Item Number*

UA U.P.C./EAN Case Code (2-5-5)

UK EAN/UCC - 14

**User Note 1:***GTIN*

UP UCC - 12

VN Vendor's (Seller's) Item Number

LIN11	234	<b>Product/Service ID</b>	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

**Description:** Identifying number for a product or service

LIN12	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
-------	-----	-------------------------------------	---	----	-----	------

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)**CodeList Summary** (Total Codes: 505, Included: 6)**Code Name**

EN EAN/UCC - 13

IN Buyer's Item Number

**User Note 1:***Trader Joe's Item Number*

UA U.P.C./EAN Case Code (2-5-5)

UK EAN/UCC - 14

**User Note 1:***GTIN*

UP UCC - 12

VN Vendor's (Seller's) Item Number

LIN13	234	<b>Product/Service ID</b>	X	AN	1/48	Used
-------	-----	---------------------------	---	----	------	------

**Description:** Identifying number for a product or service**Syntax Rules:**

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.

14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

**Semantics:**

1. LIN01 is the line item identification

**Comments:**

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# SN1 Item Detail (Shipment)

<b>Pos: 0300</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL</b>	<b>Elements: 2</b>

**User Option (Usage):** Must use

**Purpose:** To specify line-item detail relative to shipment

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
SN102	382	Number of Units Shipped	M	R	1/10	Must use						
Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set												
SN103	355	Unit or Basis for Measurement Code	M	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: 803, Included: 2)												
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CA</td><td>Case</td></tr><tr><td>EA</td><td>Each</td></tr></table>							<u>Code</u>	<u>Name</u>	CA	Case	EA	Each
<u>Code</u>	<u>Name</u>											
CA	Case											
EA	Each											

## Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

## Semantics:

1. SN101 is the ship notice line-item identification.

## Comments:

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

# PO4 Item Physical Details

<b>Pos: 0600</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: HL</b>	<b>Elements: 7</b>

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	<b>Pack</b>	O	N0	1/6	Used
		<b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container				
PO402	357	<b>Size</b>	X	R	1/8	Used
		<b>Description:</b> Size of supplier units in pack				
PO403	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>CodeList Summary</b> (Total Codes: 803, Included: 17)				
		<u>Code</u>	<u>Name</u>			
		BG	Bag			
		DR	Drum			
		DZ	Dozen			
		EA	Each			
		GA	Gallon			
		GH	Half Gallon			
		GR	Gram			
		GS	Gross			
		KG	Kilogram			
		LB	Pound			
		LT	Liter			
		ML	Milliliter			
		OZ	Ounce - Av			
		PT	Pint			
		QT	Quart			
		T3	Thousand Pieces			
		TY	Tray			
PO405	187	<b>Weight Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
		<b>CodeList Summary</b> (Total Codes: 52, Included: 2)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
		N	Actual Net Weight			
PO406	384	<b>Gross Weight per Pack</b>	X	R	1/9	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Numeric value of gross weight per pack				
		<b>User Note 1:</b> <i>Physical weight shipped</i>				
		<i>Net weight sent for catch weight/random weight items</i>				
PO407	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>CodeList Summary</b> (Total Codes: 803, Included: 1)				
		<b><u>Code</u> <u>Name</u></b>				
		LB Pound				
PO414	810	<b>Inner Pack</b>	O	N0	1/6	Used
		<b>Description:</b> The number of eaches per inner container				

### Syntax Rules:

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

### Semantics:

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

### Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

# PID Product/Item Description

Pos: 0700	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
<b>Description:</b> Code indicating the format of a description <b>CodeList Summary</b> (Total Codes: 3, Included: 1) <u>Code</u> <u>Name</u> F Free-form						
PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
<b>Description:</b> Code identifying the general class of a product or process characteristic <b>CodeList Summary</b> (Total Codes: 234, Included: 1) <u>Code</u> <u>Name</u> 08 Product						
PID05	352	Description	M	AN	1/80	Must use
<b>Description:</b> A free-form description to clarify the related data elements and their content						

## Syntax Rules:

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

## Semantics:

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

## Comments:

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



# REF Reference Identification

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

**User Option (Usage):** Used

**Purpose:** To specify identifying information

## User Note 1:

*Required for items with lot/batch numbers associated to them - must be sent at either the pack or item level*

*FSMA 204 Traceability Lot Code*

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1631, Included: 1)

**Code Name**

LT Lot Number

### User Note 1:

*Traceability Lot Code*

REF02	127	Reference Identification	M	AN	1/50	Must use
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**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: 2000	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

**User Option (Usage):** Used

**Purpose:** To specify pertinent dates and times

## User Note 1:

*Required for items with expiration/manufacture dates associated to them - must be sent at either the pack or item level*

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

**CodeList Summary** (Total Codes: 1226, Included: 4)

### Code Name

036 Expiration

405 Production

### User Note 1:

*Manufacture Date*

510 Date Packed

511 Shelf Life Expiration

### User Note 1:

*Best Before Date*

DTM02	373	Date	M	DT	8/8	Must use
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**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 Name

Pos: 2200	Repeat: 200
Optional	
Loop: N1	Elements: N/A

**User Option (Usage):** Used

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

## User Note 1:

*Required for items with country of origin associated to them and/or items needing to meet FSMA 204 track and trace requirements - must be sent at either the pack or item level*

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Name	M	1		Must use
2500	N4	Geographic Location	C	1		Used

# N1 Name

<b>Pos: 2200</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use

**Description:** Code identifying an organizational entity, a physical location, property or an individual

**CodeList Summary** (Total Codes: 1446, Included: 2)

### Code Name

CT	Country of Origin
MF	Manufacturer of Goods

### **User Note 1:**

*Manufacturer / Plant / Traceability Lot Code Source*

N102	93	<b>Name</b>	X	AN	1/60	Used
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**Description:** Free-form name

N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

**Description:** Code designating the system/method of code structure used for Identification Code (67)

**User Note 1:** *Required when N101=MF*

**CodeList Summary** (Total Codes: 223, Included: 3)

### Code Name

9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
92	Assigned by Buyer or Buyer's Agent
UL	UCC/EAN Location Code

### **User Note 1:**

*Global Location Number (GLN)*

N104	67	<b>Identification Code</b>	C	AN	2/80	Used
------	----	----------------------------	---	----	------	------

**Description:** Code identifying a party or other code

**User Note 1:** *Required when N101=MF - FSMA 204 Traceability Lot Code Source*

## 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.

# N4 Geographic Location

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

**User Option (Usage):** Used

**Purpose:** To specify the geographic place of the named party

## Element Summary:

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

**Description:** Code identifying the country

**User Note 1:** *Required when N101=CT - Country of Origin*

## Syntax Rules:

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

## Comments:

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

# 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<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

## 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments						
SE02	329	Transaction Set Control Number	M	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.