

# **Sprouts Farmers Market - Stores 856 Ship Notice/Manifest**

**X12/V5010/856: 856 Ship Notice/Manifest**

|                     |  |
|---------------------|--|
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| <b>Company:</b>     | <b>Sprouts Farmers Market -<br/>Stores</b> |
| <b>Publication:</b> | <b>2/22/2017</b>                           |
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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>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)           | M          | 3              |               |                 | Must use     |
| 1200                | TD5       | Carrier Details (Routing Sequence/Transit Time) | M          | 1              |               |                 | Must use     |
| 1500                | REF       | Reference Information                           | M          | 2              |               |                 | Must use     |
| 1510                | PER       | Administrative Communications Contact           | O          | 1              |               |                 | Used         |
| 2000                | DTM       | Date/Time Reference                             | M          | 2              |               |                 | Must use     |
| <b>LOOP ID - N1</b> |           |   |            |                | <b>2</b>      |                 |              |
| 2200                | N1        | Party Identification                            | M          | 1              |               |                 | Must use     |
| 2400                | N3        | Party Location                                  | C          | 2              |               |                 | Used         |
| 2500                | N4        | Geographic Location                             | C          | 1              |               |                 | Used         |
| <b>LOOP ID - HL</b> |           |   |            |                | <b>1</b>      | <b>C2/0100L</b> |              |
| 0100                | HL        | Hierarchical Level                              | M          | 1              |               | C2/0100         | Must use     |
| 0500                | PRF       | Purchase Order Reference                        | M          | 1              |               |                 | Must use     |
| 1500                | REF       | Reference Information                           | M          | 3              |               |                 | Must use     |
| <b>LOOP ID - N1</b> |           |   |            |                | <b>1</b>      |                 |              |
| 2200                | N1        | Party Identification                            | M          | 1              |               |                 | Must use     |
| <b>LOOP ID - HL</b> |           |   |            |                | <b>200000</b> | <b>C2/0100L</b> |              |
| 0100                | HL        | Hierarchical Level                              | M          | 1              |               | C2/0100         | Must use     |
| 0800                | MEA       | Measurements                                    | O          | 40             |               |                 | Used         |
| 1900                | MAN       | Marks and Numbers Information                   | M          | >1             |               |                 | Must use     |
| <b>LOOP ID - HL</b> |           |   |            |                | <b>200000</b> | <b>C2/0100L</b> |              |

| <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                | 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    | M          | 1              |               |              | Must use     |
| 0700                | PID       | Product/Item Description | M          | 5              |               |              | Must use     |
| 1500                | REF       | Reference Information    | O          | 1              |               |              | Used         |
| 2000                | DTM       | Date/Time Reference      | O          | 10             |               |              | Used         |
| <b>LOOP ID - N1</b> |           |                          |            | <b>200</b>     |               |              |              |
| 2200                | N1        | Party Identification     | O          | 1              |               |              | Used         |
| 2500                | N4        | Geographic Location      | O          | 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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**General Usage:**

**Advance Ship Notices**— As confirmation of shipment content the ASN/Ship Notice will be required to be sent by the suppliers for all electronically created orders. Sprouts Farmers Market - Stores will use this information as confirmation and content details of the shipment in advance of the receipt of the orders.

Sprouts Farmers Market - Stores will support the Pick and Pack ASN Structure and each ASN will represent a single shipment (ship-to location). A new ASN must be sent for each Purchase Order physically in a single Shipment/Trailer/Container, with the tracking number repeating (only a single order per ASN).

**Change History:**

04/21/2020

- Added pack level MEA segment. See segment for additional details.

10/24/2018

- N104 is now mandatory when N101 = ST

01/09/2018

- Added PO4 segment as optional. See segment for additional details.

08/06/2020

- Added MAN01 = CP for small parcel shipments

10/01/2020

- Added user note to PO401 and PO402: Must be greater than 0

8/26/2021

- Added N1 at the Order Level to support Cross Dock shipments

12/16/2021

- Add validation logic for Lading Quantity to match total Pack Qty.

7/29/2022

- Removed 9 as valid shipment-level N103 code option

- Added PD as valid order-level REF01 code, allowing for 3 repetitions

- Removed 9 as valid order-level N103 code option

8/12/2022

- Updated PO4 segment and PO401 element to be mandatory

9/26/2022

- Added MAN04/05 to be utilized when both the GS1-128 number and small package tracking number are available.

3/12/2024

- Updated user notes to reference only a single order can be sent per ASN.

- Updated MAN01 user notes.

# 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: 318, Included: 1)

Code Name

856 Ship Notice/Manifest

|      |     |                                |   |    |     |          |
|------|-----|--------------------------------|---|----|-----|----------|
| ST02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
|------|-----|--------------------------------|---|----|-----|----------|

**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

# BSN Beginning Segment for Ship Notice

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

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

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

## Element Summary:

| <u>Ref</u>  | <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: 66, Included: 1)  |             |                              |            |             |                |              |             |             |    |          |
| <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00</td><td>Original</td></tr></table>   |             |                              |            |             |                |              | <u>Code</u> | <u>Name</u> | 00 | Original |
| <u>Code</u>   | <u>Name</u> |                              |            |             |                |              |             |             |    |          |
| 00  | Original    |                              |            |             |                |              |             |             |    |          |
| 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  |             |                              |            |             |                |              |             |             |    |          |
| <b>User Note 1:</b> <i>Unique Shipment ID Number</i>  |             |                              |            |             |                |              |             |             |    |          |
| 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>ASN create 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>ASN create time</i>  |             |                              |            |             |                |              |             |             |    |          |

## 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

|                  |                      |
|------------------|----------------------|
| <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)           | M          | 3              |               | Must use     |
| 1200       | TD5       | Carrier Details (Routing Sequence/Transit Time) | M          | 1              |               | Must use     |
| 1500       | REF       | Reference Information                           | M          | 2              |               | Must use     |
| 1510       | PER       | Administrative Communications Contact           | O          | 1              |               | Used         |
| 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

|                           |                    |
|---------------------------|--------------------|
| <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 |
|------|-----|--------------------------------|---|----|-----|----------|

**Description:** Code defining the characteristic of a level in a hierarchical structure

**CodeList Summary** (Total Codes: 250, Included: 1)

| <u>Code</u> | <u>Name</u> |
|-------------|-------------|
|-------------|-------------|

|   |          |
|---|----------|
| S | Shipment |
|---|----------|

## Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
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 - Mandatory |             |
| Loop: HL           | Elements: 5 |

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

**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:** Valid codes are:

CTN (Carton)  
CTN25 (Corrugated Carton)  
PLT (Pallet)  
PLT94 (Wood Pallet)

**CodeList Summary** (Total Codes: 155, Included: 2)

**Code Name**

CTN Carton  
PLT Pallet

**CodeList Summary** (Total Codes: 57, Included: 2)

**Code Name**

25 Corrugated or Solid  
94 Wood

|       |    |                 |   |    |     |          |
|-------|----|-----------------|---|----|-----|----------|
| TD102 | 80 | Lading Quantity | M | N0 | 1/7 | Must use |
|-------|----|-----------------|---|----|-----|----------|

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

**User Note 1:** Note to Vendor: The Lading Quantity and the Pack Level Groups must equal (if LadingQuantity = 3, then there should be 3 Pack Levels)

|       |     |                  |   |    |     |      |
|-------|-----|------------------|---|----|-----|------|
| TD106 | 187 | Weight Qualifier | O | ID | 1/2 | Used |
|-------|-----|------------------|---|----|-----|------|

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

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

**Code Name**

G Gross Weight

|       |    |        |   |   |      |      |
|-------|----|--------|---|---|------|------|
| TD107 | 81 | Weight | O | R | 1/10 | Used |
|-------|----|--------|---|---|------|------|

**Description:** Numeric value of weight

|       |     |                                    |   |    |     |      |
|-------|-----|------------------------------------|---|----|-----|------|
| TD108 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 | Used |
|-------|-----|------------------------------------|---|----|-----|------|

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**CodeList Summary** (Total Codes: 844, Included: 2)

**Code Name**

KG Kilogram  
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)

|                           |                    |
|---------------------------|--------------------|
| <b>Pos:</b> 1200          | <b>Max:</b> 1      |
| <b>Detail - Mandatory</b> |                    |
| <b>Loop:</b> HL           | <b>Elements:</b> 3 |

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

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

## Element Summary:

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

|                           |                    |
|---------------------------|--------------------|
| <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

## 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: 1731, Included: 3)

### Code Name

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

|       |     |                          |   |    |      |          |
|-------|-----|--------------------------|---|----|------|----------|
| 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.

## 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 (2I) is required. Do not send both. (If there is no pick up number use one of the Carton carrier assigned numbers for this field).*

# PER Administrative Communications Contact

|                          |                    |
|--------------------------|--------------------|
| <b>Pos: 1510</b>         | <b>Max: 1</b>      |
| <b>Detail - Optional</b> |                    |
| <b>Loop: HL</b>          | <b>Elements: 6</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: 238, Included: 1)  |           |                                       |            |             |                |              |
| <u>Code</u> <u>Name</u><br>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: 42, Included: 2)   |           |                                       |            |             |                |              |
| <u>Code</u> <u>Name</u><br>EM Electronic Mail<br>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: 42, Included: 2)   |           |                                       |            |             |                |              |
| <u>Code</u> <u>Name</u><br>EM Electronic Mail<br>TE Telephone                                      |           |                                       |            |             |                |              |
| PER06  | 364       | <b>Communication Number</b>           | X          | AN          | 1/256          | Used         |
| <b>Description:</b> Complete communications number including country or area code when 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.

# 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:

| 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: 1280, Included: 2)

**Code Name**

011 Shipped

**User Note 1:**

*Mandatory*

017 Estimated Delivery

**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.

## User Note 1:

*Two iterations of the DTM segment are required for the Shipped Date (DTM02, when DTM01=011) and Estimated Delivery Date (DTM02, when DTM01 = 017).*

# 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>Id</u> | <u>Segment Name</u>  | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|----------------|---------------|--------------|
| 2200       | N1        | Party Identification | M          | 1              |               | Must use     |
| 2400       | N3        | Party Location       | C          | 2              |               | Used         |
| 2500       | N4        | Geographic Location  | C          | 1              |               | Used         |

# N1 Party Identification

|                           |                    |
|---------------------------|--------------------|
| <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        | 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: 1500, Included: 2)

### Code Name

SF Ship From

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

*Mandatory*

ST Ship To

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

*Mandatory*

|      |    |      |   |    |      |      |
|------|----|------|---|----|------|------|
| N102 | 93 | Name | C | AN | 1/60 | Used |
|------|----|------|---|----|------|------|

**Description:** Free-form name

|      |    |                               |   |    |     |      |
|------|----|-------------------------------|---|----|-----|------|
| N103 | 66 | Identification Code Qualifier | X | ID | 1/2 | Used |
|------|----|-------------------------------|---|----|-----|------|

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

**CodeList Summary** (Total Codes: 241, Included: 1)

### Code Name

92 Assigned by Buyer or Buyer's Agent

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

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

**User Note 1:** When sent, N104 should match the value provided on the Purchase Order/Purchase Order Change. For Sprouts Farmers Market store numbers that contain 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 0657*

## 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.

**User Note 1:**

*N104 is required when N101 = ST.*

*The Ship To location code from the Purchase Order must be returned.*

# N3 Party Location

|                      |             |
|----------------------|-------------|
| Pos: 2400            | Max: 2      |
| Detail - Conditional |             |
| Loop: N1             | Elements: 2 |

User Option (Usage): Used  
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

|                             |                    |
|-----------------------------|--------------------|
| <b>Pos: 2500</b>            | <b>Max: 1</b>      |
| <b>Detail - Conditional</b> |                    |
| <b>Loop: N1</b>             | <b>Elements: 4</b> |

**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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| 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>  | O          | ID          | 2/2            | Used         |
|            |           | <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency                                 |            |             |                |              |
| N403       | 116       | <b>Postal Code</b>   | M          | ID          | 3/15           | Must use     |
|            |           | <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) |            |             |                |              |
| N404       | 26        | <b>Country Code</b>  | O          | 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.

## 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 - 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>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 Information    | M          | 3              |               | Must use     |
| 2200       |           | Loop N1                  | O          |                | 1             | Used         |
| 0100       |           | Loop HL                  | M          |                | 200000        | Must use     |

## User Note 1:

*Only one PO is allowed per ASN.*

# 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: 250, 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

PRF

Purchase Order Reference

Pos: 0500

Max: 1

Detail - Mandatory

Loop: HL

Elements: 2

User Option (Usage): Must use  
Purpose: To provide reference to a specific purchase order

Element Summary:

| Ref   | Id  | Element Name          | Req | Type | Min/Max | Usage    |
|---|-----|-----------------------|-----|------|---------|----------|
| PRF01   | 324 | Purchase Order Number | M   | AN   | 1/22    | Must use |
| Description: Identifying number for Purchase Order assigned by the orderer/purchaser                  |     |                       |     |      |         |          |
| User Note 1: Only one PO is allowed per ASN.  |     |                       |     |      |         |          |
| PRF04   | 373 | Date                  | O   | DT   | 8/8     | Used     |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year |     |                       |     |      |         |          |

Semantics:

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

# REF Reference Information

|                    |             |
|--------------------|-------------|
| Pos: 1500          | Max: 3      |
| Detail - Mandatory |             |
| Loop: HL           | Elements: 2 |

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

**Purpose:** To specify identifying information

## 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: 1731, Included: 3)

### Code Name

11 Account Number

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

*Vendor assigned account number - the account number should be included if provided on the Purchase Order*

IA Internal Vendor Number

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

*Sprouts assigned Vendor ID - Mandatory*

PD Promotion/Deal Number

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

*The promotional/deal number should be included if provided on the Purchase Order*

|       |     |                          |   |    |      |          |
|-------|-----|--------------------------|---|----|------|----------|
| 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 Party Identification

|           |               |
|-----------|---------------|
| Pos: 2200 | Repeat: 1     |
| Optional  |               |
| Loop: N1  | Elements: N/A |

User Option (Usage): Used  
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u>  | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|----------------|---------------|--------------|
| 2200       | N1        | Party Identification | M          | 1              |               | Must use     |



# N1 Party Identification

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 2200</b>          | <b>Max: 1</b>      |
| <b>Detail - Mandatory</b> |                    |
| <b>Loop: N1</b>           | <b>Elements: 3</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     |
| <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual<br><br><b>CodeList Summary</b> (Total Codes: 1500, Included: 1)<br><u>Code</u> <u>Name</u><br>Z7 Mark-for Party                 |           |                                      |            |             |                |              |
| N103  | 66        | <b>Identification Code Qualifier</b> | M          | ID          | 1/2            | Must use     |
| <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)<br><br><b>CodeList Summary</b> (Total Codes: 241, Included: 1)<br><u>Code</u> <u>Name</u><br>92 Assigned by Buyer or Buyer's Agent |           |                                      |            |             |                |              |
| N104  | 67        | <b>Identification Code</b>           | M          | AN          | 2/80           | Must use     |
| <b>Description:</b> Code identifying a party or other code  |           |                                      |            |             |                |              |

## Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

## 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.

## User Note 1:

*This is the final ship to store number the package is marked for (using the GS1-Shipping Label) on cross dock orders.*

# Loop Hierarchical Level - PACK

|           |                   |
|-----------|-------------------|
| Pos: 0100 | Repeat:<br>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     |
| 0800       | MEA       | Measurements                  | O          | 40             |               | Used         |
| 1900       | MAN       | Marks and Numbers Information | M          | >1             |               | 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: 250, Included: 2)  |           |                                      |            |             |                |              |
| <b><u>Code</u> <u>Name</u></b>   |           |                                      |            |             |                |              |
| P Pack   |           |                                      |            |             |                |              |
| T Shipping Tare  |           |                                      |            |             |                |              |

## 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.

# MEA Measurements

|                          |                    |
|--------------------------|--------------------|
| <b>Pos: 0800</b>         | <b>Max: 40</b>     |
| <b>Detail - Optional</b> |                    |
| <b>Loop: HL</b>          | <b>Elements: 2</b> |

**User Option (Usage):** Used

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## 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> |
|--|-----------|------------------------------------|------------|-------------|----------------|--------------|
| MEA03  | 739       | Measurement Value                  | X          | R           | 1/20           | Used         |
| <b>Description:</b> The value of the measurement   |           |                                    |            |             |                |              |
| MEA04  | C001      | Composite Unit of Measure          | X          | Comp        |                | Used         |
| <b>Description:</b> To identify a composite unit of measure (See Figures Appendix for examples of use)                             |           |                                    |            |             |                |              |
| MEA04-01   | 355       | Unit or Basis for Measurement Code | M          | ID          | 2/2            | Must use     |
| <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |           |                                    |            |             |                |              |
| <b>CodeList Summary</b> (Total Codes: 844, Included: 2)  |           |                                    |            |             |                |              |
| <b>Code Name</b>   |           |                                    |            |             |                |              |
| CF Cubic Feet  |           |                                    |            |             |                |              |
| LB Pound   |           |                                    |            |             |                |              |

## Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0412 - Only one of MEA04 or MEA12 may be present.
3. L050412 - If MEA05 is present, then at least one of MEA04 or MEA12 is required.
4. L060412 - If MEA06 is present, then at least one of MEA04 or MEA12 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.
7. P1112 - If either MEA11 or MEA12 is present, then the other is required.

## Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
2. MEA11 is the external code list for the unit of measure.
3. MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

## Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## User Note 1:

*Two iterations of MEA are required for any ASNs where Sprouts is cross docking the shipment. The pounds and cubic feet of each pallet must be provided.*

*Both measurements must include the pallet in the weight/cubit feet calculations.*

# MAN Marks and Numbers Information

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

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

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

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>         | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------------|------------|-------------|----------------|--------------|
| 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 EAN.UCC Serial Shipping Container Code (SSCC) 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 |
|-------|----|-------------------|---|----|------|----------|

**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 |
|-------|----|-----------------------------|---|----|-----|------|

**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.

# Loop Hierarchical Level - ITEM

|           |                   |
|-----------|-------------------|
| Pos: 0100 | Repeat:<br>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    | M          | 1              |               | Must use     |
| 0700       | PID       | Product/Item Description | M          | 5              |               | Must use     |
| 1500       | REF       | Reference Information    | 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: 250, Included: 1)  |           |                                      |            |             |                |              |
| <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

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 0200</b>          | <b>Max: 1</b>      |
| <b>Detail - Mandatory</b> |                    |
| <b>Loop: HL</b>           | <b>Elements: 7</b> |

**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: Vendor must include all item identifiers that were present on the Purchase Order            |                                 |             |                |              |
|            |           | CodeList Summary (Total Codes: 519, Included: 3)   |                                 |             |                |              |
|            |           | <u>Code</u>  | <u>Name</u>                     |             |                |              |
|            |           | UK   | GTIN 14-digit Data Structure    |             |                |              |
|            |           | UP   | UCC - 12                        |             |                |              |
|            |           | User Note 1:   |                                 |             |                |              |
|            |           | Must be 1-5-5-1 format   |                                 |             |                |              |
|            |           | VN   | Vendor's (Seller's) Item Number |             |                |              |
| 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   | O                               | ID          | 2/2            | Used         |
|            |           | Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) |                                 |             |                |              |
|            |           | User Note 1: Vendor must include all item identifiers that were present on the Purchase Order            |                                 |             |                |              |
|            |           | CodeList Summary (Total Codes: 519, Included: 3)   |                                 |             |                |              |
|            |           | <u>Code</u>  | <u>Name</u>                     |             |                |              |
|            |           | UK   | GTIN 14-digit Data Structure    |             |                |              |
|            |           | UP   | UCC - 12                        |             |                |              |
|            |           | VN   | Vendor's (Seller's) Item Number |             |                |              |
| LIN05      | 234       | Product/Service ID   | O                               | AN          | 1/48           | Used         |
|            |           | Description: Identifying number for a product or service   |                                 |             |                |              |
| LIN06      | 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) |                                 |             |                |              |
|            |           | User Note 1: Vendor must include all item identifiers that were present on the Purchase Order            |                                 |             |                |              |
|            |           | CodeList Summary (Total Codes: 519, Included: 3)   |                                 |             |                |              |

**Code Name**

UK GTIN 14-digit Data Structure  
 UP UCC  
 VN Vendor's (Seller's) Item Number

LIN07 234 **Product/Service ID** 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.

**User Note 1:**

*Vendor must include all item identifiers that were present on the Purchase Order*

# 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       | <b>Number of Units Shipped</b>            | M          | R           | 1/10           | Must use     |
| <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set             |           |   |            |             |                |              |
| SN103  | 355       | <b>Unit or Basis for Measurement Code</b> | M          | ID          | 2/2            | Must use     |
| <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |           |   |            |             |                |              |
| <b>CodeList Summary</b> (Total Codes: 844, Included: 3)  |           |   |            |             |                |              |
| <b><u>Code</u> <u>Name</u></b>   |           |   |            |             |                |              |
| CA Case  |           |   |            |             |                |              |
| EA Each  |           |   |            |             |                |              |
| LB Pound   |           |   |            |             |                |              |

## 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.

# PO4 Item Physical Details

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

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

**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         | Pack                               | M          | N0          | 1/6            | Must use     |             |             |    |        |    |       |    |       |    |            |
| <b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container  |             |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| <b>User Note 1:</b> <i>Must be greater than 0</i>  |             |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| PO402  | 357         | Size                               | X          | R           | 1/8            | Used         |             |             |    |        |    |       |    |       |    |            |
| <b>Description:</b> Size of supplier units in pack   |             |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| <b>User Note 1:</b> <i>Must be greater than 0</i>  |             |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| PO403  | 355         | Unit or Basis for Measurement Code | 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: 844, Included: 4)  |             |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>GA</td><td>Gallon</td></tr><tr><td>LB</td><td>Pound</td></tr><tr><td>LT</td><td>Liter</td></tr><tr><td>OZ</td><td>Ounce - Av</td></tr></table> |             |                                    |            |             |                |              | <u>Code</u> | <u>Name</u> | GA | Gallon | LB | Pound | LT | Liter | OZ | Ounce - Av |
| <u>Code</u>  | <u>Name</u> |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| GA   | Gallon      |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| LB   | Pound       |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| LT   | Liter       |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |
| OZ   | Ounce - Av  |                                    |            |             |                |              |             |             |    |        |    |       |    |       |    |            |

## 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

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 0700</b>          | <b>Max: 5</b>      |
| <b>Detail - Mandatory</b> |                    |
| <b>Loop: HL</b>           | <b>Elements: 3</b> |

**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     |             |             |    |           |
| Description: Code indicating the format of a description  |             |                                     |            |             |                |              |             |             |    |           |
| CodeList Summary (Total Codes: 3, Included: 1)  |             |                                     |            |             |                |              |             |             |    |           |
| <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>F</td><td>Free-form</td></tr></table> |             |                                     |            |             |                |              | <u>Code</u> | <u>Name</u> | F  | Free-form |
| <u>Code</u>   | <u>Name</u> |                                     |            |             |                |              |             |             |    |           |
| F   | Free-form   |                                     |            |             |                |              |             |             |    |           |
| PID02   | 750         | Product/Process Characteristic Code | M          | ID          | 2/3            | Must use     |             |             |    |           |
| Description: Code identifying the general class of a product or process characteristic                |             |                                     |            |             |                |              |             |             |    |           |
| CodeList Summary (Total Codes: 238, Included: 1)  |             |                                     |            |             |                |              |             |             |    |           |
| <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>08</td><td>Product</td></tr></table>  |             |                                     |            |             |                |              | <u>Code</u> | <u>Name</u> | 08 | Product   |
| <u>Code</u>   | <u>Name</u> |                                     |            |             |                |              |             |             |    |           |
| 08  | Product     |                                     |            |             |                |              |             |             |    |           |
| PID05   | 352         | Description                         | M          | AN          | 1/80           | Must use     |             |             |    |           |
| Description: A free-form description to clarify the related data elements and their content           |             |                                     |            |             |                |              |             |             |    |           |

## Syntax Rules:

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

## Semantics:

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

## 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 Information

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

**User Option (Usage):** Used

**Purpose:** To specify identifying information

## 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: 1731, Included: 1)

**Code Name**

LT Lot Number

|       |     |                          |   |    |      |          |
|-------|-----|--------------------------|---|----|------|----------|
| 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.

## User Note 1:

*This segment is required for products produced that have Lot/batch Numbers associated to them*

# 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

## 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: 1280, Included: 3)

**Code Name**

|     |                       |
|-----|-----------------------|
| 036 | Expiration            |
| 405 | Production            |
| 511 | Shelf Life Expiration |

### User Note 1:

*Best When Used By Date*

|       |     |      |   |    |     |      |
|-------|-----|------|---|----|-----|------|
| DTM02 | 373 | Date | X | DT | 8/8 | Used |
|-------|-----|------|---|----|-----|------|

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

## Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

### User Note 1:

*This segment is required for products produced that have expiration dates, production dates or best used by dates, associated to them*



# Loop Party Identification

|           |               |
|-----------|---------------|
| 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

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        | Party Identification | O          | 1              |               | Used         |
| 2500       | N4        | Geographic Location  | O          | 1              |               | Used         |

# N1 Party Identification

|                          |                    |
|--------------------------|--------------------|
| <b>Pos: 2200</b>         | <b>Max: 1</b>      |
| <b>Detail - Optional</b> |                    |
| <b>Loop: N1</b>          | <b>Elements: 2</b> |

**User Option (Usage):** Used

**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     |
| <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual |           |                               |            |             |                |              |
| <b>CodeList Summary</b> (Total Codes: 1500, Included: 1)  |           |                               |            |             |                |              |
| <b>Code Name</b>  |           |                               |            |             |                |              |
| CT Country of Origin  |           |                               |            |             |                |              |
| N102  | 93        | <b>Name</b>                   | X          | AN          | 1/60           | Used         |
| <b>Description:</b> Free-form name  |           |                               |            |             |                |              |

## 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 - Optional |             |
| 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        | X          | ID          | 2/3            | Used         |

**Description:** Code identifying the country

## Syntax Rules:

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

## Comments:

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

## User Note 1:

*This segment is required for products who have a country of origin associated with them.*

# 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

## 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>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.