

# 856

## Ship Notice/Manifest

Functional Group=SH

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

### Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u>               | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> |
|------------|-----------|-----------------------------------|------------|----------------|---------------|--------------|--------------|
| 010        | ST        | Transaction Set Header            | M          | 1              |               |              | Must use     |
| 020        | 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> |
|---------------------|-----------|---|------------|----------------|---------------|----------------|--------------|
| <u>LOOP ID - HL</u> |           |   |            |                | <u>200000</u> | <u>C2/010L</u> |              |
| 010                 | HL        | Hierarchical Level                              | M          | 1              |               | C2/010         | Must use     |
| 020                 | LIN       | Item Identification                             | O          | 1              |               |                | Used         |
| 030                 | SN1       | Item Detail (Shipment)                          | O          | 1              |               |                | Used         |
| 050                 | PRF       | Purchase Order Reference                        | O          | 1              |               |                | Used         |
| 110                 | TD1       | Carrier Details (Quantity and Weight)           | O          | 20             |               |                | Used         |
| 120                 | TD5       | Carrier Details (Routing Sequence/Transit Time) | O          | 12             |               |                | Used         |
| 150                 | REF       | Reference Identification                        | O          | >1             |               |                | Used         |
| 190                 | MAN       | Marks and Numbers                               | O          | >1             |               |                | Used         |
| 200                 | DTM       | Date/Time Reference                             | O          | 10             |               |                | Used         |
| <u>LOOP ID - N1</u> |           |   |            |                | <u>200</u>    |                |              |
| 220                 | N1        | Name  | O          | 1              |               |                | Used         |
| 240                 | N3        | Address Information                             | O          | 2              |               |                | Used         |
| 250                 | 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> |
|------------|-----------|-------------------------|------------|----------------|---------------|--------------|--------------|
| 010        | CTT       | Transaction Totals      | O          | 1              |               | N3/010       | Used         |
| 020        | SE        | Transaction Set Trailer | M          | 1              |               |              | Must use     |

### Notes:

3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

**Comments:**

- 2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
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# ST Transaction Set Header

|                     |             |
|---------------------|-------------|
| Pos: 010            | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 2 |

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

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       | <b>Transaction Set Identifier Code</b>  | M          | ID                   | 3/3            | Must use     |
|            |           | <b>Description:</b> Code uniquely identifying a Transaction Set   |            |                      |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>          |                |              |
|            |           | 856   |            | Ship Notice/Manifest |                |              |
| ST02       | 329       | <b>Transaction Set Control Number</b>   | 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 |            |                      |                |              |

## Semantics:

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

# BSN Beginning Segment for Ship Notice

|                     |             |
|---------------------|-------------|
| Pos: 020            | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 6 |

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

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       | <b>Transaction Set Purpose Code</b>   | M          | ID                    | 2/2            | Must use     |
|            |           | <b>Description:</b> Code identifying purpose of transaction set   |            |                       |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>           |                |              |
|            |           | 00  |            | Original              |                |              |
| BSN02      | 396       | <b>Shipment Identification</b>  | M          | AN                    | 2/30           | Must use     |
|            |           | <b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment  |            |                       |                |              |
| BSN03      | 373       | <b>Date</b>   | M          | DT                    | 8/8            | Must use     |
|            |           | <b>Description:</b> Date expressed as CCYYMMDD  |            |                       |                |              |
| BSN04      | 337       | <b>Time</b>   | 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) |            |                       |                |              |
| BSN05      | 1005      | <b>Hierarchical Structure Code</b>  | O          | ID                    | 4/4            | Used         |
|            |           | <b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set   |            |                       |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>           |                |              |
|            |           | 0004  |            | Shipment, Order, Item |                |              |
| BSN06      | 640       | <b>Transaction Type Code</b>  | X          | ID                    | 2/2            | Used         |
|            |           | <b>Description:</b> Code specifying the type of transaction   |            |                       |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>           |                |              |
|            |           | AS  |            | Shipment Advice       |                |              |

## 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 HL

|                  |                           |
|------------------|---------------------------|
| <b>Pos: 010</b>  | <b>Repeat:<br/>200000</b> |
| <b>Mandatory</b> |                           |
| <b>Loop: HL</b>  | <b>Elements: N/A</b>      |

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

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> |
|------------|-----------|---|------------|----------------|---------------|--------------|
| 010        | HL        | Hierarchical Level                              | M          | 1              |               | Must use     |
| 020        | LIN       | Item Identification                             | O          | 1              |               | Used         |
| 030        | SN1       | Item Detail (Shipment)                          | O          | 1              |               | Used         |
| 050        | PRF       | Purchase Order Reference                        | O          | 1              |               | Used         |
| 110        | TD1       | Carrier Details (Quantity and Weight)           | O          | 20             |               | Used         |
| 120        | TD5       | Carrier Details (Routing Sequence/Transit Time) | O          | 12             |               | Used         |
| 150        | REF       | Reference Identification                        | O          | >1             |               | Used         |
| 190        | MAN       | Marks and Numbers                               | O          | >1             |               | Used         |
| 200        | DTM       | Date/Time Reference                             | O          | 10             |               | Used         |
| 220        |           | Loop N1   | O          |                | 200           | Used         |

# HL Hierarchical Level

|                    |             |
|--------------------|-------------|
| Pos: 010           | Max: 1      |
| Detail - Mandatory |             |
| Loop: HL           | Elements: 4 |

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

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> | O           | AN          | 1/12           | Used         |
| <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  |           |                                      |             |             |                |              |
|  |           | <u>Code</u>                          | <u>Name</u> |             |                |              |
|  |           | I                                    | Item        |             |                |              |
|  |           | O                                    | Order       |             |                |              |
|  |           | S                                    | Shipment    |             |                |              |
| HL04   | 736       | <b>Hierarchical Child Code</b>       | O           | ID          | 1/1            | Used         |
| <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described                     |           |                                      |             |             |                |              |
| <b>All valid standard codes are used.</b>  |           |                                      |             |             |                |              |

## Comments:

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

# LIN Item Identification

|                   |             |
|-------------------|-------------|
| Pos: 020          | Max: 1      |
| Detail - Optional |             |
| Loop: HL          | Elements: 3 |

**User Option (Usage):** Used

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       | <b>Assigned Identification</b>      | O          | AN                                 | 1/20           | Used         |
| <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set               |           |                                     |            |                                    |                |              |
| LIN02   | 235       | <b>Product/Service ID Qualifier</b> | M          | ID                                 | 2/2            | Must use     |
| <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) |           |                                     |            |                                    |                |              |
|   |           | <b>Code</b>                         |            | <b>Name</b>                        |                |              |
|   |           | N4                                  |            | National Drug Code in 5-4-2 Format |                |              |
| LIN03   | 234       | <b>Product/Service ID</b>           | M          | AN                                 | 1/48           | Must use     |
| <b>Description:</b> Identifying number for a product or service   |           |                                     |            |                                    |                |              |

## Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

## Semantics:

1. LIN01 is the line item identification

## Comments:

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



# SN1 Item Detail (Shipment)

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

**User Option (Usage):** Used

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> |
|--|-----------|---|------------|-------------|----------------|--------------|
| SN101  | 350       | <b>Assigned Identification</b>            | O          | AN          | 1/20           | Used         |
| <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set                                  |           |   |            |             |                |              |
| 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 |           |   |            |             |                |              |
|  |           | <u>Code</u>                               |            | <u>Name</u> |                |              |
|  |           | EA  |            | Each        |                |              |

## Syntax Rules:

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

## Semantics:

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

## Comments:

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

# PRF Purchase Order Reference

|                   |             |
|-------------------|-------------|
| Pos: 050          | Max: 1      |
| Detail - Optional |             |
| Loop: HL          | Elements: 2 |

**User Option (Usage):** Used

To provide reference to a specific purchase order

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| PRF01      | 324       | <b>Purchase Order Number</b>  | M          | AN          | 1/22           | Must use     |
|            |           | <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser |            |             |                |              |
| PRF04      | 373       | <b>Date</b>   | O          | DT          | 8/8            | Used         |
|            |           | <b>Description:</b> Date expressed as CCYYMMDD  |            |             |                |              |

## Semantics:

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

# TD1 Carrier Details (Quantity and Weight)

|                   |             |
|-------------------|-------------|
| Pos: 110          | Max: 20     |
| Detail - Optional |             |
| Loop: HL          | Elements: 4 |

**User Option (Usage):** Used

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

## 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> |
|------------|-----------|--|------------|--------------|----------------|--------------|
| TD102      | 80        | <b>Lading Quantity</b>   | X          | N0           | 1/7            | Used         |
|            |           | <b>Description:</b> Number of units (pieces) of the lading commodity   |            |              |                |              |
| TD106      | 187       | <b>Weight Qualifier</b>  | O          | ID           | 1/2            | Used         |
|            |           | <b>Description:</b> Code defining the type of weight   |            |              |                |              |
|            |           | <u>Code</u>  |            | <u>Name</u>  |                |              |
|            |           | G  |            | Gross Weight |                |              |
| TD107      | 81        | <b>Weight</b>  | X          | R            | 1/10           | Used         |
|            |           | <b>Description:</b> Numeric value of weight  |            |              |                |              |
| TD108      | 355       | <b>Unit or Basis for Measurement Code</b>  | X          | ID           | 2/2            | Used         |
|            |           | <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken |            |              |                |              |
|            |           | <u>Code</u>  |            | <u>Name</u>  |                |              |
|            |           | 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.

# TD5 Carrier Details (Routing Sequence/Transit Time)

|                   |             |
|-------------------|-------------|
| Pos: 120          | Max: 12     |
| Detail - Optional |             |
| Loop: HL          | Elements: 3 |

**User Option (Usage):** Used

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        | <b>Identification Code Qualifier</b>  | X          | ID                                 | 1/2            | Used         |
|            |           | <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)                        |            |                                    |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>                        |                |              |
|            |           | 2   |            | Standard Carrier Alpha Code (SCAC) |                |              |
| TD503      | 67        | <b>Identification Code</b>  | X          | AN                                 | 2/80           | Used         |
|            |           | <b>Description:</b> Code identifying a party or other code  |            |                                    |                |              |
| TD505      | 387       | <b>Routing</b>  | X          | AN                                 | 1/35           | Used         |
|            |           | <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity |            |                                    |                |              |

## Syntax Rules:

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

## Semantics:

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

## Comments:

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

# REF Reference Identification

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

**User Option (Usage):** Used

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       | <b>Reference Identification Qualifier</b> | M  | ID          | 2/3            | Must use     |
| <b>Description:</b> Code qualifying the Reference Identification  |           |   |  |             |                |              |
|   |           | <b><u>Code</u></b>                        | <b><u>Name</u></b>                       |             |                |              |
|   |           | CN  | Carrier's Reference Number (PRO/Invoice) |             |                |              |
| REF02   | 127       | <b>Reference Identification</b>           | X  | AN          | 1/30           | Used         |
| <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |           |   |  |             |                |              |

## Syntax Rules:

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

## Semantics:

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

# MAN Marks and Numbers

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

**User Option (Usage):** Used

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        | <b>Marks and Numbers Qualifier</b>   | M          | ID                                 | 1/2            | Must use     |
|            |           | <b>Description:</b> Code specifying the application or source of Marks and Numbers (87)  |            |                                    |                |              |
|            |           | <u>Code</u>  |            | <u>Name</u>                        |                |              |
|            |           | GM   |            | SSCC-18 and Application Identifier |                |              |
| MAN02      | 87        | <b>Marks and Numbers</b>   | M          | AN                                 | 1/48           | Must use     |
|            |           | <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment |            |                                    |                |              |

## Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

## Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

## Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

# DTM Date/Time Reference

|                   |             |
|-------------------|-------------|
| Pos: 200          | Max: 10     |
| Detail - Optional |             |
| Loop: HL          | Elements: 2 |

**User Option (Usage):** Used

To specify pertinent dates and times

## Element Summary:

| <u>Ref</u>  | <u>Id</u> | <u>Element Name</u>        | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|-----------|----------------------------|-------------|-------------|----------------|--------------|
| DTM01   | 374       | <b>Date/Time Qualifier</b> | M           | ID          | 3/3            | Must use     |
| <b>Description:</b> Code specifying type of date or time, or both date and time |           |                            |             |             |                |              |
|   |           | <u>Code</u>                | <u>Name</u> |             |                |              |
|   |           | 011                        | Shipped     |             |                |              |
|   |           | 036                        | Expiration  |             |                |              |
| DTM02   | 373       | <b>Date</b>                | X           | DT          | 8/8            | Used         |
| <b>Description:</b> Date expressed as CCYYMMDD                                  |           |                            |             |             |                |              |

## Syntax Rules:

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

# Loop N1

|          |               |
|----------|---------------|
| Pos: 220 | Repeat: 200   |
| Optional |               |
| Loop: N1 | Elements: N/A |

**User Option (Usage):** Used

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> |
|------------|-----------|---------------------|------------|----------------|---------------|--------------|
| 220        | N1        | Name                | O          | 1              |               | Used         |
| 240        | N3        | Address Information | O          | 2              |               | Used         |
| 250        | N4        | Geographic Location | O          | 1              |               | Used         |



**N1****Name**

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

**User Option (Usage):** Used

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 |            |                                       |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>                           |                |              |
|            |           | SF  |            | Ship From                             |                |              |
|            |           | ST  |            | Ship To                               |                |              |
| N102       | 93        | <b>Name</b>   | X          | AN                                    | 1/60           | Used         |
|            |           | <b>Description:</b> Free-form name  |            |                                       |                |              |
| N103       | 66        | <b>Identification Code Qualifier</b>  | X          | ID                                    | 1/2            | Used         |
|            |           | <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)    |            |                                       |                |              |
|            |           | <u>Code</u>   |            | <u>Name</u>                           |                |              |
|            |           | 1   |            | D-U-N-S Number, Dun & Bradstreet      |                |              |
|            |           | 11  |            | Drug Enforcement Administration (DEA) |                |              |
| N104       | 67        | <b>Identification Code</b>  | X          | AN                                    | 2/80           | Used         |
|            |           | <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.

# N3 Address Information

|                   |             |
|-------------------|-------------|
| Pos: 240          | Max: 2      |
| Detail - Optional |             |
| Loop: N1          | Elements: 1 |

**User Option (Usage):** Used

To specify the location 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> |
|---|-----------|----------------------------|------------|-------------|----------------|--------------|
| N301                                    | 166       | <b>Address Information</b> | M          | AN          | 1/55           | Must use     |
| <b>Description:</b> Address information |           |                            |            |             |                |              |

# N4 Geographic Location

|                   |             |
|-------------------|-------------|
| Pos: 250          | Max: 1      |
| Detail - Optional |             |
| Loop: N1          | Elements: 3 |

**User Option (Usage):** Used

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>              | O          | AN          | 2/30           | Used         |
| <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>            | O          | ID          | 3/15           | Used         |
| <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) |           |                               |            |             |                |              |

## Syntax Rules:

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

## Comments:

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

# CTT Transaction Totals

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

**User Option (Usage):** Used

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          | NO          | 1/6            | Must use     |

**Description:** Total number of line items in the transaction set

## Syntax Rules:

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

## Comments:

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

# SE Transaction Set Trailer

|                     |             |
|---------------------|-------------|
| Pos: 020            | Max: 1      |
| Summary - Mandatory |             |
| Loop: N/A           | Elements: 2 |

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

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        | <b>Number of Included Segments</b>  | M          | NO          | 1/10           | Must use     |
|            |           | <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments   |            |             |                |              |
| SE02       | 329       | <b>Transaction Set Control Number</b>   | 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.