

# **856 ShipNotice/Manifest**

**856 ANSI X12 00401**

**Version: 4.0**

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| Version Number | Version Date | Description of Change   | Reason of Change                               | Author          | Change Reference         |
|----------------|--------------|---|--|-----------------|--------------------------|
| 1              | 01.24.2013   | Initial release   | Original Document                              | Adrian Birau    | All Sections             |
| 1.1            | 11.25.2013   | REF Segment from Optional to Mandatory  | REF segment (Pos 150) it has become mandatory. | Adrian Birau    | LOOP ID – HL REF segment |
| 1.2            | 02.19.2013   | REF. Mandatory Note Added   | REF segment (Specific code)                    | Arkadyuti Banik | LOOP ID – HL REF segment |
| 2              | 01.14.2015   | DTM Updates at Header and Line  | DTM segment (Specific code – 017,011)          | Arkadyuti Banik | DTM Segment              |
| 3              | 02.09.2016   | MEA Update at Loop HL Item level  | MEA Segment                                    | Arkadyuti Banik | MEA Segment              |
| 4              | 30.06.2016   | TD106 New Qualifier - N<br>REF02 New Qualifier –<br>ZZ(Item Level)<br>N1 Loop | TD1, REF, N1 Loop                              | Arkadyuti Banik | TD1, REF, N1 Loop        |
|                |              |   |  |                 |                          |
|                |              |   |  |                 |                          |

# Table of Contents

|   |       |
|---|-------|
| Table of Contents .....                                   | 3     |
| ST Transaction Set Header .....                           | 5     |
| BSN Beginning Segment for Ship Notice .....               | 6     |
| DTM Date/Time Reference .....                             | 7     |
| Loop HL.....  | 8     |
| HL Hierarchical Level .....                               | 8     |
| PRF Purchase Order Reference .....                        | 9     |
| TD1 Carrier Details (Quantity and Weight) .....           | 9     |
| TD5 Carrier Details (Routing Sequence/Transit Time) ..... | 10    |
| REF Reference Identification .....                        | 11    |
| DTM Date/Time Reference .....                             | 11    |
| Loop HL.....  | 12    |
| LIN Item Identification.....                              | 13    |
| SN1 Item Detail.....                                      | 13    |
| REF Reference Identification .....                        | 15    |
| Loop N1 .....   | 16.15 |
| CTT Transaction Totals .....                              | 18    |
| SE Transaction Set Trailer .....                          | 19    |
| Example: .....  | 20    |

# 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     |
| 040        | DTM       | Date/Time Reference               | M          | 10             |               |              | Used         |

## 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>200000</b> | <b>C2/010L</b> |              |
| 010                 | HL        | Hierarchical Level(Shipment)                    | M          | 1              |               | C2/010         | Must use     |
| 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                        | M          | >1             |               |                | Must use     |
| 200                 | DTM       | Date/Time Reference                             | M          | 10             |               |                | Used         |
| <b>LOOP ID - HL</b> |           |   |            |                | <b>200000</b> | <b>C2/010L</b> |              |
| 010                 | HL        | Hierarchical Level(Item)                        | M          | 1              |               | CN2/010        | Must use     |
| 020                 | LIN       | Item Identification                             | O          | 1              |               |                | Used         |
| 030                 | SN1       | Item Detail                                     | O          | 1              |               |                | Used         |
| 150                 | REF       | Reference                                       | O          | >1             |               |                | Used         |

|                    |    |                             |   |    |            |  |      |
|--------------------|----|-----------------------------|---|----|------------|--|------|
| <b>LOOP ID- N1</b> |    |                             |   |    | <b>200</b> |  |      |
| 220                | N1 | Name                        | O | 1  |            |  | Used |
| 230                | N2 | Additional Name Information | O | 2  |            |  | 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.

# ST Transaction Set Header

**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><br><b>Description:</b> Code uniquely identifying a Transaction Set<br><b>All valid standard codes are used.</b>   | M          | ID          | 3/3            | Must use     |
| ST02       | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M          | AN          | 4/9            | Must use     |

**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

## 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><br><b>Description:</b> Code identifying purpose of transaction set<br>"00" – Original<br>"01" - Cancellation.  | M          | ID          | 2/2            | Must use     |
| BSN02      | 396       | <b>Shipment Identification</b><br><b>Description:</b> Packing slip number (**for SMI program, Replenishment number from originated EDI 862 message)  | M          | AN          | 2/30           | Must use     |
| BSN03      | 373       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD  | M          | DT          | 8/8            | Must use     |
| BSN04      | 337       | <b>Time</b><br><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) | M          | TM          | 4/8            | Must use     |

## Semantics:

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

# DTM Date/Time Reference

**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><br><b>Description:</b> Code specifying type of date or time, or both date and time         | M          | ID          | 3/3            | Must use     |
| DTM02      | 373       | <b>"017" – Delivery Date and or Time, Estimated.</b><br><b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD | X          | DT          | 8/8            | Used         |

# Loop HL

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(Shipment)                    | M          | 1              |               | Must use     |
| 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         |
| 200        | DTM       | Date/Time Reference                             | O          | 10             |               | Used         |
| 010        |           | Loop HL   | M          |                | 200000        | Must use     |

## HL Hierarchical Level

### 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><br><b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure                          | M          | AN          | 1/12           | Must use     |
| HL02       | 734       | <b>Hierarchical Parent ID Number</b><br><b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O          | AN          | 1/12           | Used         |
| HL03       | 735       | <b>Hierarchical Level Code</b><br><b>Description:</b> Code defining the characteristic of a level in a hierarchical structure<br><b>"S" – Shipment</b>                                 | M          | ID          | 1/2            | Must use     |

### 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

### 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><br><b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser   | M          | AN          | 1/22           | Must use     |
| PRF02      | 328       | <b>Release Number</b><br><b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction<br><b>Release No.(From 862)</b><br><b>If MRP item =&gt; PO#</b> | O          | AN          | 1/30           | Used         |

## TD1 Carrier Details (Quantity and Weight)

### 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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| TD101      | 103       | <b>Packaging Code</b><br><b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required<br><b>"Box"</b> .            | O          | AN          | 3/5            | Used         |
| TD102      | 80        | <b>Lading Quantity</b><br><b>Description:</b> Number of units (pieces) of the lading commodity  | X          | NO          | 1/7            | Used         |
| TD106      | 187       | <b>Weight Qualifier</b><br><b>Description:</b> Code defining the type of weight<br><b>"G" – Gross Weight.</b><br><b>"N" – Net Weight.</b>   | O          | ID          | 1/2            | Used         |
| TD107      | 81        | <b>Weight</b><br><b>Description:</b> Numeric value of weight  | X          | R           | 1/10           | Used         |
| TD108      | 355       | <b>Unit or Basis for Measurement Code</b><br><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br><b>"LB" – Pounds</b><br><b>"KG" – Kilogram</b> | X          | ID          | 2/2            | Used         |

### Syntax:

1. C0102 - If TD101 is present, then all of TD102 are required
2. C0607 - If TD106 is present, then all of TD107 are required
3. P0708 - If either TD107,TD108 is present, then all are required

## TD5 Carrier Details (Routing Sequence/Transit Time)

### 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| TD501      | 133       | <b>Routing Sequence Code</b><br><b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement<br><b>"B" – Origin/Del. Carrier.</b>   | O          | ID          | 1/2            | Used         |
| TD503      | 67        | <b>Identification code</b><br><b>Description:</b> Code identifying a party or other code   | X          | AN          | 2/80           | Used         |
| TD504      | 91        | <b>Transportation Method/ Type Code</b><br><b>Description:</b> Code specifying the method or type of transportation for the shipment<br><b>Note *All codes are allowed</b>   | X          | ID          | 1/2            | Used         |
| TD505      | 387       | <b>Routing</b><br><b>Description:</b> the originating carrier's identity   | X          | AN          | 1/35           | Used         |
| TD510      | 732       | <b>Transit Time Direction Qualifier</b><br><b>Description:</b> Code specifying the value of time used to measure the transit time<br><b>"CD" – Calendar Days (Includes Weekends).</b>  | O          | ID          | 2/2            | Used         |
| TD511      | 733       | <b>Transit Time</b><br><b>Description:</b> The numeric amount of transit time in Days  | X          | R           | 1/4            | Used         |
| TD512      | 284       | <b>Service Level Code</b><br><b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier<br><b>"AE" – Air Economy</b><br><b>"ND" – Next day Air "SC" – Second day Air "SD" – Saturday del "ST" – Std. Class Ground "DF" – Deferred Service.</b> | X          | ID          | 2/2            | Used         |

### Syntax:

1. R0204050612 - At least one of TD502,TD504,TD505,TD506,TD512 is required
2. C1011 - If TD510 is present, then TD511 is required

### Semantics:

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

## REF Reference Identification

### 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><br><b>Description:</b> Code qualifying the Reference Identification<br>"FR" – Freight Bill Number<br>"BM" – Bill of Lading No.<br>"AW" – Airway Bill.<br>"VR" – Supplier code | M          | ID          | 2/3            | Must use     |
| REF02      | 127       | <b>Reference Identification</b><br><b>Description:</b> Waybill Number   | X          | AN          | 1/30           | Used         |

### Syntax:

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

### Comments:

1. REF01 – At least one of the code listed(FR , BM, AW) is mandatory

## DTM Date/Time Reference

### 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><br><b>Description:</b> Code specifying type of date or time, or both<br>date and time<br>"011" - Shipped Date and or Time. | M          | ID          | 3/3            | Must use     |
| DTM02      | 373       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD   | X          | DT          | 8/8            | Used         |

# Loop HL

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(Item) | M          | 1              |               | Must use     |
| 020        | LIN       | Item Identification      | O          | 1              |               | Used         |
| 030        | SN1       | Item Detail              | O          | 1              |               | Used         |

## HL Hierarchical Level

### 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><br><b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure                          | M          | AN          | 1/12           | Must use     |
| HL02       | 734       | <b>Hierarchical Parent ID Number</b><br><b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O          | AN          | 1/12           | Used         |
| HL03       | 735       | <b>Hierarchical Level Code</b><br><b>Description:</b> Code defining the characteristic of a level in a hierarchical structure<br>"I" - Item  | M          | ID          | 1/2            | Must use     |

### 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

### 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><br><b>Description:</b> Flextronics delivery Line Item No.   | M          | AN          | 1/20           | Used         |
| LIN02      | 235       | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br><b>“BP” – Buyer Part Number</b>  | M          | ID          | 2/2            | Must use     |
| LIN03      | 234       | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service   | M          | AN          | 1/48           | Must use     |
| LIN04      | 235       | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br><b>“VP” – Supplier Part Number</b><br><b>“MG” – Manufacturer Part Number</b> | X          | ID          | 2/2            | Used         |
| LIN05      | 234       | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service   | X          | AN          | 1/48           | Used         |
| LIN06      | 235       | <b>Product/Service ID qualifier</b><br><b>Description:</b> Code identifying the type /source of the descriptive number used in product / service ID (234)<br><b>PU – Customer Part Number</b>  | X          | ID          | 2/2            | Used         |
| LIN07      | 234       | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service   | X          | AN          | 1/48           | Used         |

## SN1 Item Detail

### 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><br><b>Description:</b> Flex Delivery Line Item No.   | O          | AN          | 1/20           | Used         |
| SN102      | 382       | <b>Number of Units Shipped</b><br><b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set  | M          | R           | 1/10           | Must use     |
| SN103      | 355       | <b>Unit or Basis for Measurement Code</b><br><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br><b>“EA”.</b> | M          | ID          | 2/2            | Must use     |

**Semantics:**

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

**Comments:**

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

# MEA Measurements

|                   |              |
|-------------------|--------------|
| Pos: 080          | Max: 40      |
| Detail - Optional |              |
| Loop: HL          | Elements: 10 |

**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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| MEA01      | 737       | <b>Measurement Reference ID Code</b>   | O          | ID          | 2/2            | Used         |
|            |           | <b>Description:</b> Code identifying the broad category to which a measurement applies<br>"TO" – Total Dimensions  |            |             |                |              |
| MEA02      | 738       | <b>Measurement Qualifier</b>   | O          | ID          | 1/3            | Used         |
|            |           | <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies<br>"HT" – Height<br>"LN" – Length<br>"WD" – Width |            |             |                |              |
| MEA03      | 739       | <b>Measurement Value</b>   | X          | R           | 1/20           | Used         |
|            |           | <b>Description:</b> The value of the measurement   |            |             |                |              |
| MEA04      | C001      | <b>Composite Unit of Measure</b>   | X          | Comp        |                | Used         |

**Semantics:**

- 1. MEA04 defines the unit of measure for MEA03

# REF Reference Identification

## 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><br><b>Description:</b> Code qualifying the Reference Identification<br>"MH"- Manufacturer Order Part<br>"ZZ"- Manufacturer Description(Name)<br>"LT"- Lot Number | M          | ID          | 2/3            | Must use     |
| REF02      | 127       | <b>Reference Identification</b><br><b>Description:</b> Manufacturer Order Part   | X          | AN          | 1/30           | Used         |

## Syntax:

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

# Loop N1

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> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|
| 310        | N1        | Name                        | O          | 1              |               | Used         |
| 320        | N2        | Additional Name Information | O          | 2              |               | Used         |
| 330        | N3        | Address Information         | O          | 2              |               | Used         |
| 340        | N4        | Geographic Location         | O          | >1             |               | Used         |

## N1 Name

### 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><br><b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual "SF" – Ship From | M          | ID          | 2/3            | Must use     |
| N102       | 93        | <b>Name</b><br><b>Description:</b> Free-form name   | X          | AN          | 1/60           | Used         |
| N103       | 66        | <b>Identification Code Qualifier</b><br><b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) "ZZ".        | X          | ID          | 1/2            | Used         |
| N104       | 67        | <b>Identification Code</b><br><b>Description:</b> Ship to code / Bill to Code   | X          | AN          | 2/80           | Used         |

## Syntax:

3. R0203 - At least one of N101, N102 is required
4. P0304 - If either N103,N104 is present, then all are required

## Comments:

2. 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.



## N2 Additional Name Information

### User Option (Usage):

Used

To specify additional names or those longer than 35 characters in length

### 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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| N201       | 93        | <b>Name</b><br><b>Description:</b> Free-form name | M          | AN          | 1/60           | Must use     |
| N202       | 93        | <b>Name</b><br><b>Description:</b> Free-form name | O          | AN          | 1/60           | Used         |

## N3 Address Information

### 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><br><b>Description:</b> Address information | M          | AN          | 1/55           | Must use     |
| N302       | 166       | <b>Address Information</b><br><b>Description:</b> Address information | O          | AN          | 1/55           | Used         |

## N4 Geographic Location

### 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><br><b>Description:</b> Free-form text for city name   | O          | AN          | 2/30           | Used         |
| N402       | 156       | <b>State or Province Code</b><br><b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency                      | O          | ID          | 2/2            | Used         |
| N403       | 116       | <b>Postal Code</b><br><b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O          | ID          | 3/15           | Used         |
| N404       | 26        | <b>Country Code</b><br><b>Description:</b> Code identifying the country  | O          | ID          | 2/3            | Used         |

**Comments:**

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

# CTT Transaction Totals

**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       | <b>Number of Line Items</b><br><b>Description:</b> Total number of line items in the transaction set   | M          | N0          | 1/6            | Must use     |
| CTT02      | 347       | <b>Hash Total</b><br><b>Description:</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. -----<br>1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. | O          | R           | 1/10           | Used         |

# SE Transaction Set Trailer

## 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><br><b>Description:</b> Total number of segments included in a transaction set including ST and SE segments  | M          | NO          | 1/10           | Must use     |
| SE02       | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M          | AN          | 4/9            | Must use     |

## Comments:

1. SE is the last segment of each transaction set.

# Example:

ISA~00~ ~00~ ~01~006995419ECG ~16~941714834TEST  
~160614~1630~U~00200~000110094~0~T~<  
GS~SH~006995419ECG~9417148340855~20160614~1630~9850~X~004010  
ST~856~98500001  
BSN~00~74762504~20160614~1631  
DTM~017~20160616  
HL~1~~S~1  
PRF~J59I56736  
TD1~BOX~1~~~~G~4~LB  
TD1~BOX~1~~~~N~3.5~LB  
TD5~B~2~EIG1~~EIG1  
REF~BM~0081000900  
DTM~011~20160615  
HL~2~1~I  
LIN~0010~BP~TRB3H~76614~VP~76614  
SN1~0010~4000~EA  
REF~MH~APT1608SURCK  
REF~ZZ~KINGBRIGHT  
MEA~TO~HT~125.74~MR  
MEA~TO~LN~35.24~LN  
MEA~TO~WD~32~CM  
REF~LT~a1111111111b222222222c1111111111  
REF~LT~d1111111111e1111111111f1111111111  
REF~LT~g1111111111h1111111111i1111111111  
REF~LT~j1111111111k1111111111  
N1~SF~  
N2~  
N3~  
N4~CHINA~~~CN~~  
CTT~1  
SE~28~98500001  
GE~1~9850  
IEA~1~000110094

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