# KeHE Distributors 856 Ship Notice/Manifest

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

**Author:**            SPS Commerce
**Company:**       KeHE Distributors
**Publication:**     10/21/2024
**Notes:**

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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:

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

## Detail:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|---|---|---|---|---|---|---|---|
| **LOOP ID - HL** | | | | | **1** | **C2/0100L** | |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 2 | | | Used |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | M | 1 | | | Must use |
| **LOOP ID - TD3** | | | | | **1** | | |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | Used |
| 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 |
| 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | Used |
| **LOOP ID - N1** | | | | | **3** | | |
| 2200 | N1 | Party Identification | M | 1 | | | Must use |
| 2400 | N3 | Party Location | M | 1 | | | Must use |
| 2500 | N4 | Geographic Location | M | 1 | | | Must use |
| **LOOP ID - HL** | | | | | **200000** | **C2/0100L** | |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use |
| 0500 | PRF | Purchase Order Reference | M | 1 | | | Must use |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | | Used |
| 1500 | REF | Reference Information | M | 1 | | | Must use |
| **LOOP ID - HL** | | | | | **200000** | **C2/0100L** | |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use |

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|----|--------------|-----|---------|--------|-------|-------|
| 0600 | PO4 | Item Physical Details | O | 1 | | | Used |
| 1500 | REF | Reference Information | O | >1 | | | Used |
| 1900 | MAN | Marks and Numbers Information | M | >1 | | | Must use |
| 2000 | DTM | Date/Time Reference | O | 10 | | | Used |
| **LOOP ID - N1** | | | | | **200** | | |
| 2200 | N1 | Party Identification | M | 1 | | | Must use |
| 2500 | N4 | Geographic Location | C | 1 | | | Used |
| **LOOP ID - HL** | | | | | **200000** | **C2/0100L** | |
| 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 | 1 | | | Must use |
| 1500 | REF | Reference Information | O | >1 | | | Used |
| 2000 | DTM | Date/Time Reference | O | 10 | | | Used |
| **LOOP ID - N1** | | | | | **200** | | |
| 2200 | N1 | Party Identification | M | 1 | | | Must use |
| 2500 | N4 | Geographic Location | C | 1 | | | Used |

## Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|----|--------------|-----|---------|--------|-------|-------|
| 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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# ST  Transaction Set Header

| | |
|---|---|
| **Pos: 0100** | **Max: 1** |
| **Heading - Mandatory** | |
| **Loop: N/A** | **Elements: 2** |

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

**Purpose:** To indicate the start of a transaction set and to assign a control number

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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 |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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: 5** |

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BSN01 | 353 | **Transaction Set Purpose Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying purpose of transaction set

**CodeList Summary** (Total Codes: 66, Included: 1)

| Code | Name |
|---|---|
| 00 | Original |

> **User Note 1:**
> *Ship to DC (Bulk)*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BSN02 | 396 | **Shipment Identification** | M | AN | 2/30 | Must use |

**Description:** A unique control number assigned by the original shipper to identify a specific shipment

**User Note 1:** *Unique Shipment ID Number*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BSN03 | 373 | **Date** | M | DT | 8/8 | Must use |

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

**User Note 1:** *ASN Create Date*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BSN04 | 337 | **Time** | M | TM | 4/8 | Must use |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

**User Note 1:** *ASN Create Time*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BSN05 | 1005 | **Hierarchical Structure Code** | O | ID | 4/4 | Used |

**Description:** Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

**CodeList Summary** (Total Codes: 81, Included: 1)

| Code | Name |
|---|---|
| 0001 | Shipment, Order, Packaging, Item |

## 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 Level

| 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:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 2 | | Used |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | M | 1 | | Must use |
| 1300 | | Loop TD3 | O | | 1 | Used |
| 1500 | REF | Reference Information | M | 2 | | Must use |
| 1510 | PER | Administrative Communications Contact | O | 1 | | Used |
| 2000 | DTM | Date/Time Reference | M | 2 | | Must use |
| 2100 | FOB | F.O.B. Related Instructions | O | 1 | | Used |
| 2200 | | Loop N1 | M | | 3 | Must use |
| 0100 | | Loop HL | M | | 200000 | Must use |

# HL   Hierarchical Level

**Pos: 0100      Max: 1**
**Detail - Mandatory**
**Loop: HL      Elements: 2**

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-----|-----|-----|-----|-----|
| HL01 | 628 | **Hierarchical ID Number** | 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 | **Hierarchical Level Code** | M | ID | 1/2 | Must use |

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

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

> **Code  Name**
>
> 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: 2 |
|---|---|
| **Detail - Optional** | |
| Loop: HL | Elements: 7 |

**User Option (Usage):** Used

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

## User Note 1:

*TD1 segment should be provided if able.*

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TD101 | 103 | **Packaging Code** | M | AN | 3/5 | Must use |

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

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

*Valid codes are:*
*CTN (Carton)*
*CTN25 (Corrugated Carton)*
*PLT (Pallet)*
*PLT94 (Wood Pallet)*

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

| Code | Name |
|---|---|
| CTN | Carton |
| PLT | Pallet |

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

| Code | Name |
|---|---|
| 25 | Corrugated or Solid |
| 94 | Wood |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TD102 | 80 | **Lading Quantity** | M | N0 | 1/7 | Must use |

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

**User Note 1:** *Total number of Pallets/Cartons on this shipment.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TD106 | 187 | **Weight Qualifier** | X | ID | 1/2 | Used |

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

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

| Code | Name |
|---|---|
| G | Gross Weight |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TD107 | 81 | **Weight** | X | R | 1/10 | Used |

**Description:** Numeric value of weight

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TD108 | 355 | **Unit or Basis for Measurement Code** | X | 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|

**CodeList Summary** (Total Codes: 844, Included: 1)

**Code  Name**

LB      Pound

| TD109 | 183 | **Volume** | X | R | 1/8 | Used |

**Description:** Value of volumetric measure

| TD110 | 355 | **Unit or Basis for Measurement Code** | X | 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: 1)

**Code  Name**

CF      Cubic Feet

## 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: 1200          Max: 1**
**Detail - Mandatory**
**Loop: HL          Elements: 4**

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

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

### User Note 1:

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| TD502 | 66 | **Identification Code Qualifier** | C | ID | 1/2 | Used |

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

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

| Code | Name |
|------|------|
| 2 | Standard Carrier Alpha Code (SCAC) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| TD503 | 67 | **Identification Code** | C | AN | 2/80 | Used |

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

**User Note 1:** *SCAC - Min/Max = 2/4*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| TD504 | 91 | **Transportation Method/Type Code** | M | ID | 1/2 | Must use |

**Description:** Code specifying the method or type of transportation for the shipment

**CodeList Summary** (Total Codes: 80, Included: 2)

| Code | Name |
|------|------|
| H | Customer Pickup |
| M | Motor (Common Carrier) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| TD505 | 387 | **Routing** | C | AN | 1/35 | Used |

**Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

**User Note 1:** *Carrier 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.

# Loop Carrier Details (Equipment)

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

**User Option (Usage):** Used

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | Used |

# TD3  Carrier Details (Equipment)

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

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|------------------------------|------|------|---------|-------|
| TD301 | 40 | **Equipment Description Code** | O | ID | 2/2 | Used |

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

**CodeList Summary** (Total Codes: 139, Included: 1)

| Code | Name |
|------|------|
| TL | Trailer (not otherwise specified) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|------------------------------|------|------|---------|-------|
| TD302 | 206 | **Equipment Initial** | X | AN | 1/4 | Used |

**Description:** Prefix or alphabetic part of an equipment unit's identifying number

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|------------------------------|------|------|---------|-------|
| TD303 | 207 | **Equipment Number** | X | AN | 1/15 | Used |

**Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

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

## Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.
3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306  is present, then the other is required.

# REF   Reference Information

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

**Purpose:** To specify identifying information

**User Note 1:**

*At least one of the Bill of Lading Number (BM), Carrier Pro Number (CN) or Small Package Tracking # (2I) is required.*

> . *Bill of Lading number (BM) or Carrier Pro number (CN) is required for Truck Load and Less than Truck Load Shipments (Common Carrier moves).*

> . *For Parcel Carrier Shipments, the Carrier Assigned Package number (2I) is required. Do not send both.*

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| 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.

# PER  Administrative Communications Contact

**Pos: 1510        Max: 1**
**Detail - Optional**
**Loop: HL        Elements: 6**

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER01 | 366 | **Contact Function Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying the major duty or responsibility of the person or group named

**CodeList Summary** (Total Codes: 238, Included: 1)

**Code  Name**
IC      Information Contact

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER02 | 93 | **Name** | O | AN | 1/60 | Used |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER03 | 365 | **Communication Number Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type of communication number

**CodeList Summary** (Total Codes: 42, Included: 1)

**Code  Name**
TE      Telephone

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER04 | 364 | **Communication Number** | X | AN | 1/256 | Used |

**Description:** Complete communications number including country or area code when applicable

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER05 | 365 | **Communication Number Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type of communication number

**CodeList Summary** (Total Codes: 42, Included: 1)

**Code  Name**
EM      Electronic Mail

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PER06 | 364 | **Communication Number** | X | AN | 1/256 | Used |

**Description:** 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

<table>
<tr><td>Pos: 2000</td><td>Max: 2</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 3</td></tr>
</table>

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

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

### User Note 1:

*Two iterations of the DTM segment are required for the Shipped Date and Time (DTM02 and DTM03, when DTM01=011) and Estimated Delivery Date (DTM02, when DTM01 = 017).*

## 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*

| Code | Name |
|------|------|
| 017 | Estimated Delivery |

**User Note 1:**

*Mandatory*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| DTM03 | 337 | **Time** | C | TM | 4/8 | Used |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

**User Note 1:** *Mandatory when DTM01=011 (Ship Time)*

## 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.

# FOB  **F.O.B. Related Instructions**

**User Option (Usage):** Used

**Purpose:** To specify transportation instructions relating to shipment

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| FOB01 | 146 | **Shipment Method of Payment** | M | ID | 2/2 | Must use |

**Description:** Code identifying payment terms for transportation charges

**CodeList Summary** (Total Codes: 31, Included: 2)

| Code | Name |
|------|------|
| CC | Collect |
| PP | Prepaid (by Seller) |

## Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

## Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

# Loop Party Identification

| | |
|---|---|
| **Pos: 2200** | **Repeat: 3** |
| **Mandatory** | |
| **Loop: N1** | **Elements: N/A** |

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

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

### User Note 1:

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|-----|-------------------|-----|---------|--------|----------|
| 2200 | N1 | Party Identification | M | 1 | | Must use |
| 2400 | N3 | Party Location | M | 1 | | Must use |
| 2500 | N4 | Geographic Location | M | 1 | | Must use |

# N1 Party Identification

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

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N101 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Must use |

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

**CodeList Summary** (Total Codes: 1500, Included: 3)

| Code | Name |
|---|---|
| SF | Ship From |

> **User Note 1:**
> *Mandatory*

| Code | Name |
|---|---|
| ST | Ship To |

> **User Note 1:**
> *Mandatory*

| Code | Name |
|---|---|
| VN | Vendor |

> **User Note 1:**
> *Mandatory*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N102 | 93 | **Name** | M | AN | 1/60 | Must use |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N103 | 66 | **Identification Code Qualifier** | C | ID | 1/2 | Used |

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

> **User Note 1:** *Required if present on the PO or PO Change.*
>
> *Mandatory when N101=ST.*
>
> *Mandatory when N101=SF - only for FSMA 204 track and trace requirements.*

**CodeList Summary** (Total Codes: 241, Included: 2)

| Code | Name |
|---|---|
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| 92 | Assigned by Buyer or Buyer's Agent |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N104 | 67 | **Identification Code** | C | AN | 2/80 | Used |

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

> **User Note 1:** *Required if present on the PO or PO Change.*
>
> *Mandatory when N101=ST. When N101=ST, min/max = 13/13*
>
> *Mandatory when N101=SF - only for FSMA 204 track and trace requirements.*

## 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   Party Location

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

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

**Purpose:** To specify the location of the named party

## Element Summary:

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

# N4  Geographic Location

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

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| N401 | 19 | **City Name** | M | AN | 2/30 | Must use |

**Description:** Free-form text for city name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| N402 | 156 | **State or Province Code** | M | ID | 2/2 | Must use |

**Description:** Code (Standard State/Province) as defined by appropriate government agency

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| N403 | 116 | **Postal Code** | M | ID | 3/15 | Must use |

**Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| N404 | 26 | **Country Code** | O | 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.

# Loop Hierarchical Level - Order Level

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

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

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

## User Note 1:

*KeHE allows for multiple POs on a single shipment.*

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 0500 | PRF | Purchase Order Reference | M | 1 | | Must use |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | Used |
| 1500 | REF | Reference Information | M | 1 | | Must use |
| 0100 | | Loop HL | M | | 200000 | Must use |

# HL   Hierarchical Level

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL01 | 628 | **Hierarchical ID Number** | M | AN | 1/12 | Must use |

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

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| HL02 | 734 | **Hierarchical Parent ID Number** | M | AN | 1/12 | Must use |

> **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| HL03 | 735 | **Hierarchical Level Code** | M | ID | 1/2 | Must use |

> **Description:** Code defining the characteristic of a level in a hierarchical structure
>
> **CodeList Summary** (Total Codes: 250, Included: 1)

| Code | Name |
|------|------|
| 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| PRF04 | 373 | **Date** | O | DT | 8/8 | Used |

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year
**User Note 1:** *Purchase Order Date*

## Semantics:

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

# TD5  Carrier Details (Routing Sequence/Transit Time)

**Pos: 1200**       **Max: 1**
**Detail - Optional**
**Loop: HL**       **Elements: 1**

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-----|-----|-----|-----|-----|
| TD506 | 368 | **Shipment/Order Status Code** | M | ID | 2/2 | Must use |

**Description:** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

**CodeList Summary** (Total Codes: 102, Included: 2)

| Code | Name |
|------|------|
| CC | Shipment Complete on (Date) |
| PR | Partial Shipment |

## 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 Information

**Pos: 1500          Max: 1**
**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: 1)

| Code | Name |
|------|------|
| IA | Internal Vendor Number |

**User Note 1:**

*Mandatory - KeHE Distributors assigned supplier ID (KeHE ESN)*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| REF02 | 127 | **Reference Identification** | M | AN | 1/50 | Must use |

**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

## Syntax Rules:

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

## Semantics:

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

# Loop Hierarchical Level - Pack Level

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

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

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

## Loop Summary:

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

# HL   Hierarchical Level

**Pos: 0100          Max: 1**
**Detail - Mandatory**
**Loop: HL          Elements: 3**

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL01 | 628 | **Hierarchical ID Number** | M | AN | 1/12 | Must use |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL02 | 734 | **Hierarchical Parent ID Number** | M | AN | 1/12 | Must use |

> **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL03 | 735 | **Hierarchical Level Code** | M | ID | 1/2 | Must use |

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

> **CodeList Summary** (Total Codes: 250, Included: 2)

| Code | Name |
|------|------|
| P | Pack |

> **User Note 1:**
> *Carton*

| Code | Name |
|------|------|
| T | Shipping Tare |

> **User Note 1:**
> *Pallet*

## Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

2. The HL segment defines a top-down/left-right ordered structure.

3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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

# PO4   Item Physical Details

**Pos: 0600          Max: 1**
**Detail - Optional**
**Loop: HL          Elements: 5**

**User Option (Usage):** Used

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

**User Note 1:**

 *PO4 segment should be provided if able - pack level weight/volume*

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PO405 | 187 | **Weight Qualifier** | X | ID | 1/2 | Used |

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

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

| Code | Name |
|------|------|
| G | Gross Weight |

| PO406 | 384 | **Gross Weight per Pack** | X | R | 1/9 | Used |
|-------|-----|---------------------------|---|---|-----|------|

**Description:** Numeric value of gross weight per pack

| PO407 | 355 | **Unit or Basis for Measurement Code** | X | 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: 1)

| Code | Name |
|------|------|
| LB | Pound |

| PO408 | 385 | **Gross Volume per Pack** | X | R | 1/9 | Used |
|-------|-----|---------------------------|---|---|-----|------|

**Description:** Numeric value of gross volume per pack

| PO409 | 355 | **Unit or Basis for Measurement Code** | X | 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: 1)

| Code | Name |
|------|------|
| CF | Cubic Feet |

## Syntax Rules:

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

10. C1804 - If PO418 is present, then PO404 is required.

## Semantics:

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

## Comments:

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

# REF   Reference Information

**User Option (Usage):** Used

**Purpose:** To specify identifying information

**User Note 1:**

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

## 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: 1)

    **Code  Name**

    LT    Lot Number

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| 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.

# 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:

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

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

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

| Code | Name |
|------|------|
| CP | Carrier-Assigned Package ID Number |

> **User Note 1:**
>
> *Required for the Carton Tracking Number. Must be used for all small package shipments.*
>
> *Repeating MAN segments should be used for every Carrier Assigned Tracking Number.*

| Code | Name |
|------|------|
| GM | EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier |

> **User Note 1:**
>
> *Required for the GS1-128 20 digit barcode number.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| 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*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| MAN04 | 88 | **Marks and Numbers Qualifier** | O | 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.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| MAN05 | 87 | **Marks and Numbers** | O | AN | 1/48 | Used |

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

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

## Syntax Rules:

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

## Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.

2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.

3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

## Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.

2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.

3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

# DTM   Date/Time Reference

<table>
<tr><td><strong>Pos: 2000</strong></td><td><strong>Max: 10</strong></td></tr>
<tr><td colspan="2" align="center"><strong>Detail - Optional</strong></td></tr>
<tr><td><strong>Loop: HL</strong></td><td><strong>Elements: 2</strong></td></tr>
</table>

**User Option (Usage):** Used

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

**User Note 1:**

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

## Element Summary:

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

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

**CodeList Summary** (Total Codes: 1280, Included: 2)

| Code | Name |
|------|------|
| 036 | Expiration |
| 405 | Production |

> **User Note 1:**
>
> *Manufacture Date*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| DTM02 | 373 | **Date** | M | DT | 8/8 | Must use |

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

## Syntax Rules:

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

# Loop Party Identification

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

**User Option (Usage):** Used

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

**User Note 1:**

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|-----|---------------------|-----|---------|--------|----------|
| 2200 | N1 | Party Identification | M | 1 | | Must use |
| 2500 | N4 | Geographic Location | C | 1 | | Used |

# N1 Party Identification

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

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N101 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Must use |

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

**CodeList Summary** (Total Codes: 1500, Included: 2)

| Code | Name |
|------|------|
| CT | Country of Origin |
| MF | Manufacturer of Goods |

**User Note 1:**

*Manufacturer / Plant*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N102 | 93 | **Name** | X | AN | 1/60 | Used |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N103 | 66 | **Identification Code Qualifier** | C | ID | 1/2 | Used |

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

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

**CodeList Summary** (Total Codes: 241, Included: 3)

| Code | Name |
|------|------|
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| 92 | Assigned by Buyer or Buyer's Agent |
| UL | Global Location Number (GLN) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N104 | 67 | **Identification Code** | C | AN | 2/80 | Used |

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

**User Note 1:** *Required when N101=MF - Location Identifier of Traceability Lot Code Generator*

## Syntax Rules:

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

## Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

# N4  Geographic Location

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

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N404 | 26 | **Country Code** | C | ID | 2/3 | Used |

**Description:** Code identifying the country

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

## Syntax Rules:

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

## Comments:

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

# Loop Hierarchical Level - Item Level

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

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

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 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 | 1 | | 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

**Pos: 0100       Max: 1**
**Detail - Mandatory**
**Loop: HL        Elements: 3**

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL01 | 628 | **Hierarchical ID Number** | M | AN | 1/12 | Must use |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL02 | 734 | **Hierarchical Parent ID Number** | M | AN | 1/12 | Must use |

> **Description:** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| HL03 | 735 | **Hierarchical Level Code** | M | ID | 1/2 | Must use |

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

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

| Code | Name |
|------|------|
| I | Item |

## Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

2. The HL segment defines a top-down/left-right ordered structure.

3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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

# LIN  Item Identification

| Pos: 0200 | Max: 1 |
|---|---|
| **Detail - Mandatory** | |
| **Loop: HL** | **Elements: 11** |

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN01 | 350 | **Assigned Identification** | O | AN | 1/20 | Used |

**Description:** Alphanumeric characters assigned for differentiation within a transaction set

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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)

**CodeList Summary** (Total Codes: 519, Included: 1)

| Code | Name |
|---|---|
| UP | UCC - 12 |

> **User Note 1:**
>
> *KeHE requires the item UPC as the primary item identification code. This is a required field and should match the UPC sent on the Purchase Order 850 or Purchase Order Change 860.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN03 | 234 | **Product/Service ID** | M | AN | 1/48 | Must use |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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)

**CodeList Summary** (Total Codes: 519, Included: 4)

| Code | Name |
|---|---|
| EN | EAN/UCC - 13 |
| IN | Buyer's Item Number |

> **User Note 1:**
>
> *KeHE Item Number - 8 digits with leading zeros (can be different by DC)*

| Code | Name |
|---|---|
| UK | GTIN 14-digit Data Structure |
| VN | Vendor's (Seller's) Item Number |

> **User Note 1:**
>
> *Vendor SKU*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN05 | 234 | **Product/Service ID** | O | AN | 1/48 | Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN06 | 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)

**CodeList Summary** (Total Codes: 519, Included: 4)

| | | **Code** | **Name** | | | | |
|---|---|---|---|---|---|---|---|
| | | EN | EAN/UCC - 13 | | | | |
| | | IN | Buyer's Item Number | | | | |

> **User Note 1:**
> *KeHE Item Number - 8 digits with leading zeros (can be different by DC)*

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

> **User Note 1:**
> *Vendor SKU*

| LIN07 | 234 | **Product/Service ID** | O | AN | 1/48 | Used |
|---|---|---|---|---|---|---|

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

| LIN08 | 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)

**CodeList Summary** (Total Codes: 519, Included: 4)

| | | **Code** | **Name** |
|---|---|---|---|
| | | EN | EAN/UCC - 13 |
| | | IN | Buyer's Item Number |

> **User Note 1:**
> *KeHE Item Number - 8 digits with leading zeros (can be different by DC)*

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

> **User Note 1:**
> *Vendor SKU*

| LIN09 | 234 | **Product/Service ID** | O | AN | 1/48 | Used |
|---|---|---|---|---|---|---|

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

| LIN10 | 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)

**CodeList Summary** (Total Codes: 519, Included: 4)

| | | **Code** | **Name** |
|---|---|---|---|
| | | EN | EAN/UCC - 13 |
| | | IN | Buyer's Item Number |

> **User Note 1:**
> *KeHE Item Number - 8 digits with leading zeros (can be different by DC)*

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

> **User Note 1:**
> *Vendor SKU*

| LIN11 | 234 | **Product/Service ID** | O | AN | 1/48 | Used |
|---|---|---|---|---|---|---|

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

## Syntax Rules:

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

## Semantics:

1.  LIN01 is the line item identification

## Comments:

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

# SN1 Item Detail (Shipment)

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| SN102 | 382 | **Number of Units Shipped** | M | R | 1/10 | Must use |

**Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| SN103 | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Must use |

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

**CodeList Summary** (Total Codes: 844, Included: 1)

| Code | Name |
|------|------|
| CA | Case |

## 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

| | |
|---|---|
| **Pos: 0600** | **Max: 1** |
| **Detail - Mandatory** | |
| **Loop: HL** | **Elements: 6** |

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

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

### User Note 1:

*For random weight/catch weight items, PO405-PO407 should reflect the actual weight of the item that will be invoiced.*

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO401 | 356 | **Pack** | O | N0 | 1/6 | Used |

**Description:** The number of inner containers, or number of eaches if there are no inner containers, per outer container

**User Note 1:** *Outer Pack*

| PO405 | 187 | **Weight Qualifier** | M | ID | 1/2 | Must use |
|---|---|---|---|---|---|---|

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

**CodeList Summary** (Total Codes: 52, Included: 2)

| Code | Name |
|---|---|
| G | Gross Weight |
| N | Actual Net Weight |

| PO406 | 384 | **Gross Weight per Pack** | M | R | 1/9 | Must use |
|---|---|---|---|---|---|---|

**Description:** Numeric value of gross weight per pack

| PO407 | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Must use |
|---|---|---|---|---|---|---|

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

**CodeList Summary** (Total Codes: 844, Included: 1)

| Code | Name |
|---|---|
| LB | Pound |

| PO408 | 385 | **Gross Volume per Pack** | M | R | 1/9 | Must use |
|---|---|---|---|---|---|---|

**Description:** Numeric value of gross volume per pack

| PO409 | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Must use |
|---|---|---|---|---|---|---|

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

**CodeList Summary** (Total Codes: 844, Included: 1)

| Code | Name |
|---|---|
| CF | Cubic Feet |

## 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

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| 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)

| Code | Name |
|------|------|
| F | Free-form |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| 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)

| Code | Name |
|------|------|
| 08 | Product |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| 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

**User Option (Usage):** Used

**Purpose:** To specify identifying information

### User Note 1:

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

## 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: 1)

| Code | Name |
|---|---|
| LT | Lot Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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.

# DTM  Date/Time Reference

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

**User Option (Usage):** Used

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

**User Note 1:**

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

## Element Summary:

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

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

**CodeList Summary** (Total Codes: 1280, Included: 2)

| Code | Name |
|------|------|
| 036 | Expiration |
| 405 | Production |

**User Note 1:**

*Manufacture Date*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------| ----|------|---------|-------|
| DTM02 | 373 | **Date** | M | DT | 8/8 | Must use |

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

## Syntax Rules:

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

# Loop Party Identification

<table>
<tr><td>Pos: 2200</td><td>Repeat: 200</td></tr>
<tr><td colspan="2">Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: N/A</td></tr>
</table>

**User Option (Usage):** Used

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

**User Note 1:**

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|-----|--------------|-----|---------|--------|-------|
| 2200 | N1 | Party Identification | M | 1 | | Must use |
| 2500 | N4 | Geographic Location | C | 1 | | Used |

# N1 Party Identification

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

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

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N101 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Must use |

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

**CodeList Summary** (Total Codes: 1500, Included: 2)

| Code | Name |
|------|------|
| CT | Country of Origin |
| MF | Manufacturer of Goods |

> **User Note 1:**
> *Manufacturer / Plant*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N102 | 93 | **Name** | X | AN | 1/60 | Used |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N103 | 66 | **Identification Code Qualifier** | C | ID | 1/2 | Used |

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

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

**CodeList Summary** (Total Codes: 241, Included: 3)

| Code | Name |
|------|------|
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| 92 | Assigned by Buyer or Buyer's Agent |
| UL | Global Location Number (GLN) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N104 | 67 | **Identification Code** | C | AN | 2/80 | Used |

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

> **User Note 1:** *Required when N101=MF - Location Identifier of Traceability Lot Code Generator*

## Syntax Rules:

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

## Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

# N4   Geographic Location

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

**User Option (Usage):** Used
**Purpose:** To specify the geographic place of the named party

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N404 | 26 | **Country Code** | C | ID | 2/3 | Used |

**Description:** Code identifying the country

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

## Syntax Rules:

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

## Comments:

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

# CTT  Transaction Totals

**Pos: 0100**        **Max: 1**
**Summary - Optional**
**Loop: N/A        Elements: 1**

**User Option (Usage):** Used

**Purpose:** To transmit a hash total for a specific element in the transaction set

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| 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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| SE01 | 96 | **Number of Included Segments** | M | N0 | 1/10 | Must use |

**Description:** Total number of segments included in a transaction set including ST and SE segments

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| SE02 | 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

## Comments:

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