

856 Ship Notice/ Manifest

Introduction

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail industry implementation of the Ship Notice/Manifest Transaction Set.

The use of this transaction is to provide the retailer with advance data on the shipments so the retailer may better plan workloads and receipt processing. The key word is “advance”. Therefore, in the implementation of the transaction the latest the ship notice may be sent is the time of shipment. In practice the ship notice must arrive before the shipment.

The scope of the ship notice, within the retail industry, will not exceed the scope of the associated bill of lading. There can be more than one ship notice with one bill of lading. The bill of lading is not applicable when using small package service carriers. In this case, the ship notice will only represent one ship from/ship to combination.

The bill of lading is a legal shipping document which is the contract between the shipper and the carrier. The ship notice is not a legal document nor is it between shipper and carrier. The ship notice is not a replacement for the bill of lading.

There are two predominant methods of merchandise packaging within the retail industry. These are commonly known as:

- **Pick and Pack** — where different SKUs are packed within the container, and
- **Standard Carton Pack** — where identical SKUs are packed within the container.

The retail industry has identified six hierarchical levels for use within the Ship Notice/Manifest transaction set. The following are the definitions of these levels:

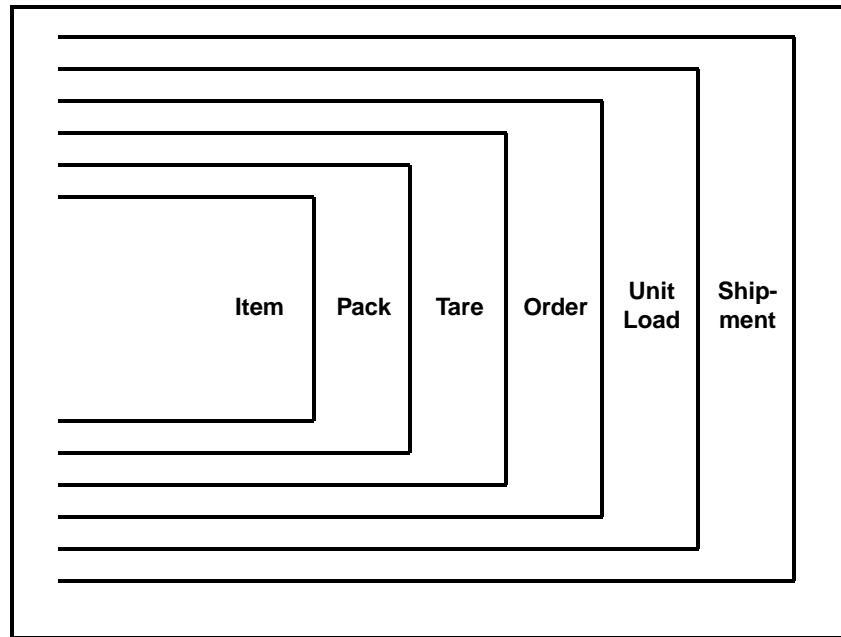
| Name | Code | Description |
|-------------|-------------|---|
| SHIPMENT | S | Data that applies to the whole shipment, such as bill of lading number, lading quantity, supplier code, etc. |
| UNIT LOAD | UT | The Unit load level is used to identify a physical shipping unit which is marked with a UCC/EAN serial shipping container code, and, consists of transport packages marked for multiple final destinations. |
| ORDER | O | Data related to the sender's order and the associated receiver's original purchase order. |
| TARE | T | The tare level is used to identify pallets. These pallets are being shipped to a single final destination. If there are no identifiable pallets, this level may be omitted. |
| PACK | P | The pack level is used to identify the cartons, racks, bags, etc., in which the item is shipped, e.g. label serial numbers. In most cases there will be some sort of packs. |
| ITEM | I | SKU identification data. If identical SKUs are packed using unidentifiable inner packs, i.e. four six-packs to a case, this can be related at this level. |

The retail industry implementation of the Ship Notice/Manifest transaction set supports both methods of merchandise shipment packaging with two distinct hierarchical structures. Each structure contains the same levels, i.e. Shipment, Unit Load, Order, Tare, Pack, and Item, and the usage of the segments within each level are the same. The only difference is the order in which the levels may appear within the transaction set. BSN05 informs the receiver, after reading the BSN segment, of the structure of the transaction set. The essential difference in the two structures is where the Item level appears.

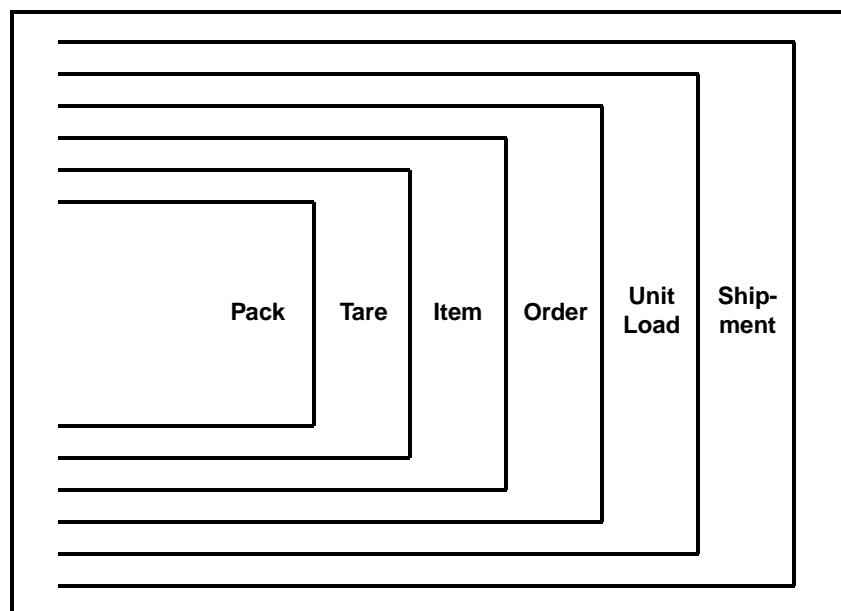
The actual structure for the ship notice transaction set is determined by the sender of the transaction set. Realizing, as with any transaction, that the needs of all the receivers and the capabilities of the sender's systems must be balanced when determining the final format. The relationship of a physical shipment to the shipment level of the transaction set is not always one to one. Some senders may have the capability of sending only one ship notice for each ship from/ship to combination. Other implementations may send multiple transactions for one bill of lading. An example of this would be where the ship notice transaction represents a sender's order level packing slip. Another variation of this is when a small package service carrier is used. The ship notice may have several cartons from one location with the same delivery location, however, from the package service carrier perspective, each carton is a shipment. It is

important to recognize these conditions and not assume one ship notice, one physical shipment.

For the Pick and Pack Structure, the Item is the lowest level, i.e., the specification of the SKU is always within the shipment container. The order of the hierarchical levels are Shipment, Unit Load, Order, Tare, Pack, and Item.



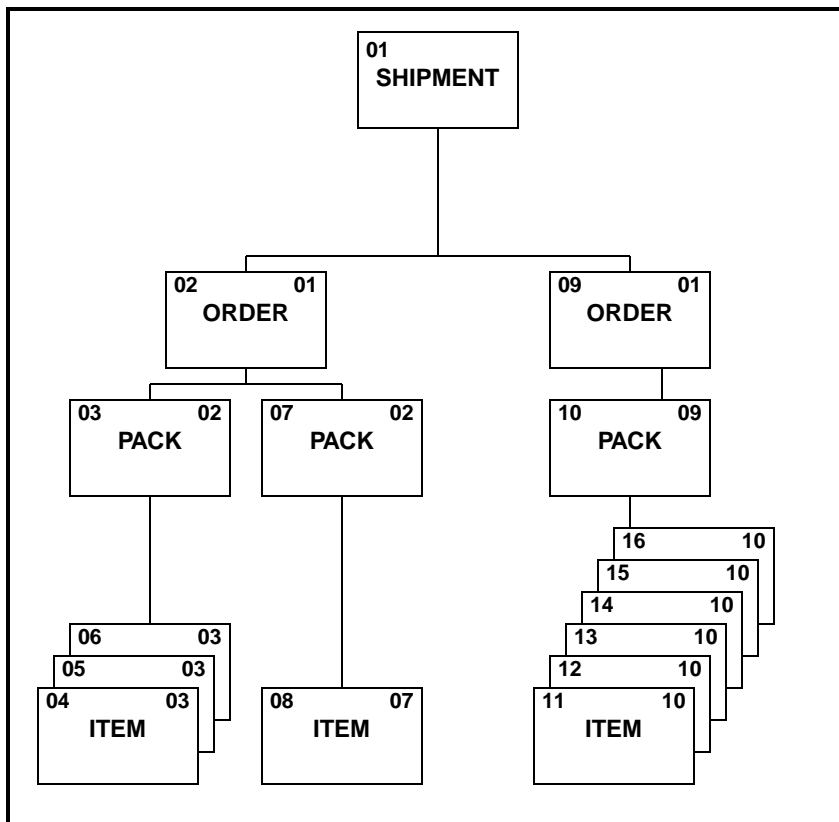
For the Standard Carton Pack Structure, the Item is between the Order level and the Tare level, i.e., the specification of the shipment containers is always within the SKU. The SKU is specified, then all of the shipping containers for the SKUs are identified. The order of the hierarchical levels are Shipment, Unit Load, Order, Item, Tare, and Pack.



The following are examples of both the Pick/Pack and the Standard Carton Pack hierarchical structures.

Pick and Pack Structure Example

In this Pick and Pack Structure example, the shipment contains two orders. The first order has two cartons. The first carton contains three items (SKUs), the second carton contains one SKU. The second order contains one carton with 6 SKUs in the carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).

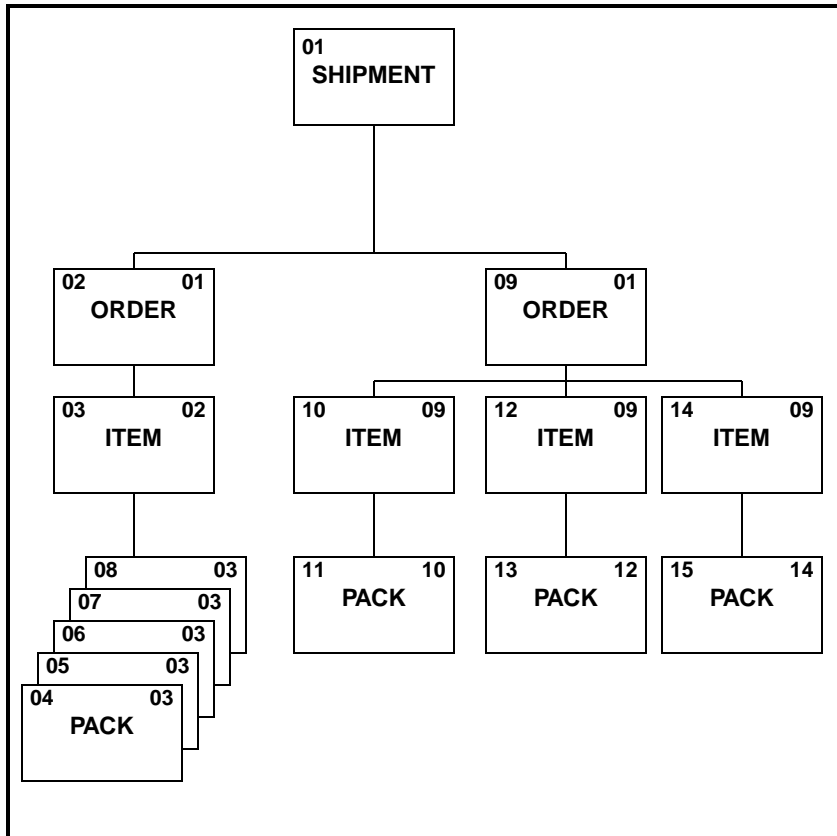


Standard Carton Pack Structure Example

In this example the shipment contains two orders.

The first order has five cartons. All cartons contain the same SKU.

The second order contains three cartons with a unique SKU in each carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).



Unit Load

In some implementations, the shipping arrangements agreed to between trading partners may require the supplier to “master” pack or palletize individual store orders. Within the context of VICS EDI, a Unit Load (UL), is defined as one or more transport packages held together by some means such as a pallet, slip sheet, container or carton, which contains multiple orders all shipped to the same point of first receipt. Transport packages within the unit load are destined for multiple final destinations. The “master” pack, or “unit load,” will be broken down at the distribution facility and the transport packages contained within will be redistributed to multiple final destinations. Typically the unit load will consist of transport packages which are marked for and cross-docked to individual retail stores.

The utilization of the Unit Load level in the Ship Notice/Manifest Transaction Set (856) is for the express purpose of identifying a unit load. Each unit load will be marked with the UCC/EAN-128 Serial Shipping Container Code. Typically the transport packages contained within the unit load will also be marked with a UCC/EAN-128 Serial Container Code. The marking on the unit load will be used to receive the contents of the unit load and to post the receipt to the retailer's internal files; the marking at a lower packaging level is used to move the goods from the distribution facility to their appropriate final destinations.

The Unit Load level may be used in either the Pick and Pack or Standard Carton Pack structures. When present in the transaction, the Unit Load is immediately subordinate to the Shipment level. If a single shipment involves both a Unit Load and additional transport packages which are not part of the Unit Load, care must be taken to examine the hierarchical parent ID to ensure correct interpretation of the relationships within the shipment.

The Unit Load is designed to aid in shipment integrity and transportation efficiencies. The presence of the Unit Load level will identify to the receiver that additional handling may be needed. The Unit Load identifies a physical shipping unit, not a specific packaging type.

Shipments via Small Package Service Carrier

Unlike other motor carriers, small package service carriers do not use the bill of lading for a shipment. In fact, the term shipment takes on a different meaning when using small package service carriers. The common, traditional, meaning of a shipment, in the context of the retail industry, is a supplier sending one or more shipping containers or transport packages to a single retailer's destination. This shipment may be one or more supplier orders and one or more retailer's purchase orders, or partial purchase orders. The shipment is under one bill of lading. The shipment may be represented by one or more than one 856 transaction.

To a small package service carrier, each transport package is one shipment. Each package is assigned a unique identification number by the carrier to facilitate the movement through their system. A manifest may be used by the shipper to list each package, destination, and other details; a bill of lading is not created. These manifests may be created at the end of the day or for each ship from/destination, or for each supplier order processed and shipped. The 856 transaction set should be used in the same manner as the supplier would use when sending under motor or common carrier. The use of a small package service carrier would not change this.

When a small package service provider is used, it may be useful to provide the carrier's assigned number as well as the UCC/EAN-128 Carton ID. It is not required to send both, however, it should be seriously considered to aid in tracking. This is especially true in a consumer catalog service or any direct ship to consumer (customer of retailer) using a small package service. It is desirable for the retailer to know each carrier assigned carton ID to track the shipment if the customer reports the ordered and billed merchandise was never received.

The MAN (Marks and Numbers) segment is used to send both package ID numbers.

The TD5 segment at the shipment level will inform the receiver that a small package service provider is the carrier, by using the Standard Carrier Alpha Code (SCAC) and the Transportation Method/Type of Private Parcel Service.

ASC X12

856 Ship Notice/Manifest

FUNCTIONAL GROUP ID = **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.

Following this complete VICS convention and implementation guideline, find the profile describing the use of this transaction set for Canada.

Header

| POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|---------|-----------------------------------|-----------|---------|-------------|
| 0100 | ST | Transaction Set Header | M | 1 | |
| 0200 | BSN | Beginning Segment for Ship Notice | M | 1 | |
| 0400 | DTM | Date/Time Reference | O | 10 | |

Detail

| POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|---------|---|-----------|---------|---------------|
| | | LOOP ID - HL | | | 200000 |
| 0100 | HL | Hierarchical Level | M | 1 | |
| 0200 | LIN | Item Identification | O | 1 | |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | |
| 0400 | SLN | Subline Item Detail | O | 1000 | |
| 0500 | PRF | Purchase Order Reference | O | 1 | |
| 0600 | PO4 | Item Physical Details | O | 1 | |
| 0700 | PID | Product/Item Description | O | 200 | |
| 0800 | MEA | Measurements | O | 40 | |
| 0900 | PWK | Paperwork | O | 25 | |
| 1000 | PKG | Marking, Packaging, Loading | O | 25 | |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | |
| | | LOOP ID - HL/TD3 | | | 12 |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | |
| 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | |
| 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | |
| 1450 | TSD | Trailer Shipment Details | O | 1 | |

**RETAIL INDUSTRY CONVENTIONS AND
IMPLEMENTATION GUIDELINES FOR EDI**

| | | | | |
|-------------------------|-----|--|---|--------------|
| 1500 | REF | Reference Identification | O | >1 |
| 1510 | PER | Administrative Communications Contact | O | 3 |
| LOOP ID - HL/LH1 | | | | 100 |
| 1520 | LH1 | Hazardous Identification Information | O | 1 |
| 1530 | LH2 | Hazardous Classification Information | O | 4 |
| 1540 | LH3 | Hazardous Material Shipping Name | O | 12 |
| 1550 | LFH | Freeform Hazardous Material Information | O | 20 |
| 1560 | LEP | EPA Required Data | O | >1 |
| 1570 | LH4 | Canadian Dangerous Requirements | O | 1 |
| 1580 | LHT | Transborder Hazardous Requirements | O | 3 |
| 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 |
| 1600 | PER | Administrative Communications Contact | O | 5 |
| 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 |
| LOOP ID - HL/CLD | | | | 200 |
| 1700 | CLD | Load Detail | O | 1 |
| 1800 | REF | Reference Identification | O | 200 |
| 1850 | DTP | Date or Time or Period | O | 1 |
| 1900 | MAN | Marks and Numbers | O | >1 |
| 2000 | DTM | Date/Time Reference | O | 10 |
| 2100 | FOB | F.O.B. Related Instructions | O | 1 |
| 2150 | PAL | Pallet Information | O | 1 |
| LOOP ID - HL/N1 | | | | 200 |
| 2200 | N1 | Name | O | 1 |
| 2300 | N2 | Additional Name Information | O | 2 |
| 2400 | N3 | Address Information | O | 2 |
| 2500 | N4 | Geographic Location | O | 1 |
| 2600 | REF | Reference Identification | O | 12 |
| 2700 | PER | Administrative Communications Contact | O | 3 |
| 2800 | FOB | F.O.B. Related Instructions | O | 1 |
| 2900 | SDQ | Destination Quantity | O | 50 |
| 3000 | ETD | Excess Transportation Detail | O | 1 |
| 3100 | CUR | Currency | O | 1 |
| LOOP ID - HL/SAC | | | | >1 |
| 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 |
| 3250 | CUR | Currency | O | 1 |
| 3300 | GF | Furnished Goods and Services | O | 1 |
| 3350 | YNQ | Yes/No Question | O | 10 |
| LOOP ID - HL/LM | | | | 10 |
| 3400 | LM | Code Source Information | O | 1 |
| 3500 | LQ | Industry Code | M | 100 |
| LOOP ID - HL/V1 | | | | >1 |
| 3600 | V1 | Vessel Identification | O | 1 |
| 3700 | R4 | Port or Terminal | O | >1 |
| 3800 | DTM | Date/Time Reference | O | >1 |

Summary

| <u>POS. #</u> | <u>SEG. ID</u> | <u>NAME</u> | <u>REQ. DES.</u> | <u>MAX USE</u> | <u>LOOP REPEAT</u> |
|---------------|----------------|-------------------------|------------------|----------------|--------------------|
| 0100 | CTT | Transaction Totals | O | 1 | |
| 0200 | SE | Transaction Set Trailer | M | 1 | |

VICS EDI

856 Ship Notice/Manifest

Header

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------|-----------------------------------|-----------|---------|-------------|
| 1139 | 0100 | ST | Transaction Set Header | M | 1 | |
| 1140 | 0200 | BSN | Beginning Segment for Ship Notice | M | 1 | |

Detail - Shipment

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------|---|-----------|---------|-------------------------|
| | | | | | | LOOP ID - HL |
| 1141 | 0100 | HL | Hierarchical Level | M | 1 | 200000 |
| 1143 | 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | |
| 1145 | 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | |
| | | | | | | LOOP ID - HL/TD3 |
| 1148 | 1300 | TD3 | Carrier Details (Equipment) | O | 1 | 12 |
| 1150 | 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | |
| 1151 | 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | |
| 1152 | 1500 | REF | Reference Identification | O | >1 | |
| 1153 | 1510 | PER | Administrative Communications Contact | O | 3 | |
| 1154 | 1900 | MAN | Marks and Numbers | O | >1 | |
| 1156 | 2000 | DTM | Date/Time Reference | O | 10 | |
| 1157 | 2100 | FOB | F.O.B. Related Instructions | O | 1 | |
| | | | | | | LOOP ID - HL/N1 |
| 1159 | 2200 | N1 | Name | O | 1 | 200 |
| 1161 | 2300 | N2 | Additional Name Information | O | 2 | |
| 1162 | 2400 | N3 | Address Information | O | 2 | |
| 1163 | 2500 | N4 | Geographic Location | O | 1 | |

Detail - Unit Load

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------|---|-----------|---------|-------------------------|
| | | | | | | LOOP ID - HL |
| 1164 | 0100 | HL | Hierarchical Level | M | 1 | 200000 |
| | | | | | | LOOP ID - HL/TD3 |
| 1165 | 1300 | TD3 | Carrier Details (Equipment) | O | 1 | 12 |
| 1167 | 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | |
| 1168 | 1900 | MAN | Marks and Numbers | O | >1 | |

Detail - Order

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|------------------------|---|-----------|---------|---------------|
| | | LOOP ID - HL | | | | 200000 |
| 1170 | 0100 | HL | Hierarchical Level | M | 1 | |
| 1171 | 0500 | PRF | Purchase Order Reference | O | 1 | |
| 1172 | 0700 | PID | Product/Item Description | O | 200 | |
| 1174 | 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | |
| 1176 | 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | |
| 1178 | 1450 | TSD | Trailer Shipment Details | O | 1 | |
| 1179 | 1500 | REF | Reference Identification | O | >1 | |
| 1181 | 2000 | DTM | Date/Time Reference | O | 10 | |
| | | LOOP ID - HL/N1 | | | | 200 |
| 1182 | 2200 | N1 | Name | O | 1 | |
| 1184 | 2300 | N2 | Additional Name Information | O | 2 | |
| 1185 | 2400 | N3 | Address Information | O | 2 | |
| 1186 | 2500 | N4 | Geographic Location | O | 1 | |
| 1187 | 3100 | CUR | Currency | O | 1 | |

Detail - Tare

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------------------|--------------------------|-----------|---------|---------------|
| | | LOOP ID - HL | | | | 200000 |
| 1190 | 0100 | HL | Hierarchical Level | M | 1 | |
| 1191 | 1450 | TSD | Trailer Shipment Details | O | 1 | |
| 1192 | 1900 | MAN | Marks and Numbers | O | >1 | |
| 1194 | 2150 | PAL | Pallet Information | O | 1 | |

Detail - Pack

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------------------|-----------------------------|-----------|---------|---------------|
| | | LOOP ID - HL | | | | 200000 |
| 1196 | 0100 | HL | Hierarchical Level | M | 1 | |
| 1197 | 0200 | LIN | Item Identification | O | 1 | |
| 1201 | 0300 | SN1 | Item Detail (Shipment) | O | 1 | |
| 1202 | 0400 | SLN | Subline Item Detail | O | 1000 | |
| 1207 | 0600 | PO4 | Item Physical Details | O | 1 | |
| 1210 | 1000 | PKG | Marking, Packaging, Loading | O | 25 | |
| 1212 | 1450 | TSD | Trailer Shipment Details | O | 1 | |
| 1213 | 1900 | MAN | Marks and Numbers | O | >1 | |
| 1215 | 2000 | DTM | Date/Time Reference | O | 10 | |

Detail - Item

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|-------------------------|---|-----------|---------|---------------|
| | | LOOP ID - HL | | | | 200000 |
| 1216 | 0100 | HL | Hierarchical Level | M | 1 | |
| 1217 | 0200 | LIN | Item Identification | O | 1 | |
| 1221 | 0300 | SN1 | Item Detail (Shipment) | O | 1 | |
| 1222 | 0400 | SLN | Subline Item Detail | O | 1000 | |
| 1227 | 0500 | PRF | Purchase Order Reference | O | 1 | |
| 1228 | 0600 | PO4 | Item Physical Details | O | 1 | |
| 1231 | 0700 | PID | Product/Item Description | O | 200 | |
| 1233 | 0800 | MEA | Measurements | O | 40 | |
| 1236 | 1000 | PKG | Marking, Packaging, Loading | O | 25 | |
| 1238 | 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | |
| 1240 | 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | |
| 1242 | 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | |
| 1243 | 1500 | REF | Reference Identification | O | >1 | |
| 1244 | 2000 | DTM | Date/Time Reference | O | 10 | |
| | | LOOP ID - HL/SAC | | | | >1 |
| 1245 | 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | |

Summary

| PAGE # | POS. # | SEG. ID | NAME | REQ. DES. | MAX USE | LOOP REPEAT |
|--------|--------|---------|-------------------------|-----------|---------|-------------|
| 1248 | 0100 | CTT | Transaction Totals | O | 1 | |
| 1249 | 0200 | SE | Transaction Set Trailer | M | 1 | |

Segment: ST Transaction Set Header

Level: Header

Loop: ___

Usage: Mandatory

Max Use: 1

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

- Semantic:**
- 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| ➤ ST01 | 143 | Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest | M ID 3/3 |
| ➤ ST02 | 329 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group. | M AN 4/9 |
| ST03 | 1705 | Implementation Convention Reference Reference assigned to identify Implementation Convention NOT USED BY THE RETAIL INDUSTRY | O AN 1/35 |

Segment: BSN Beginning Segment for Ship Notice

Level: Header

Loop: ___

Usage: Mandatory

Max Use: 1

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

Syntax: 1 **C0706**
If BSN07 is present, then BSN06 is required.

Semantic: 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: A BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Notes: In some implementations, it may be appropriate to omit the unit load level and packaging levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| ➤ | BSN01 | 353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 07 Duplicate | M ID 2/2 |
| ➤ | BSN02 | 396 Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment | M AN 2/30 |
| ➤ | BSN03 | 373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | M DT 8/8 |
| ➤ | BSN04 | 337 Time 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 |
| ➤ | BSN05 | 1005 Hierarchical Structure Code Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0001 Shipment, Order, Packaging, Item Pick and Pack Structure 0002 Shipment, Order, Item, Packaging Standard Carton Pack Structure 0004 Shipment, Order, Item | O ID 4/4 |
| | BSN06 | 640 Transaction Type Code Code specifying the type of transaction NOT USED BY THE RETAIL INDUSTRY | C ID 2/2 |
| | BSN07 | 641 Status Reason Code Code indicating the status reason NOT USED BY THE RETAIL INDUSTRY | O ID 3/3 |

Segment: HL Hierarchical Level

Level: Detail - Shipment

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure The value for this level (shipment) is 1. | M AN 1/12 |
| | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to NOT USED BY THE RETAIL INDUSTRY | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment | M ID 1/2 |

HL04 736 Hierarchical Child Code **O ID 1/1**
Code indicating if there are hierarchical child data segments subordinate to the level
being described

NOT USED BY THE RETAIL INDUSTRY

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax: 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.

Notes: This segment, at the shipment level, is used to specify total containers and gross weight of the shipment as specified on the bill of lading (see VICS EDI 856 Ship Notice/Manifest Guidelines for further detail).

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| TD101 | 103 | Packaging Code 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 | O AN 3/5 |
| | | Part 1 | |
| | | BAG Bag | |
| | | CTN Carton | |
| | | MIX Mixed Container Types | |
| | | Can be used only with code 71 in Part 2 | |
| | | PLT Pallet | |
| | | SLP Slip Sheet | |
| | | SRW Shrink Wrap | |
| | | Part 2 | |
| | | 01 Aluminum | |
| | | 25 Corrugated or Solid | |
| | | 31 Fibre | |
| | | 58 Metal | |
| | | 71 Not Otherwise Specified | |
| | | 76 Paper | |
| | | 79 Plastic | |
| | | 91 Stainless Steel | |
| | | 94 Wood | |
| TD102 | 80 | Lading Quantity Number of units (pieces) of the lading commodity | C NO 1/7 |
| | | The number of packages in the shipment as described in TD101 | |
| TD103 | 23 | Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code | O ID 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD104 | 22 | Commodity Code Code describing a commodity or group of commodities | C AN 1/30 |
| | | NOT USED BY THE RETAIL INDUSTRY | |

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|--|------------|---|-------------|-------------|
| TD105 | 79 | Lading Description Description of an item as required for rating and billing purposes | O AN | 1/50 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |
| TD106 | 187 | Weight Qualifier Code defining the type of weight G Gross Weight | O ID | 1/2 |
| TD107 | 81 | Weight Numeric value of weight | C R | 1/10 |
| TD108 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID | 2/2 |
| See Section III for code list. | | | | |
| TD109 | 183 | Volume Value of volumetric measure | C R | 1/8 |
| Gross volume | | | | |
| TD110 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID | 2/2 |
| See Section III for code list. | | | | |

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 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.

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

Comments: A 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.

Notes: This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502 and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2 and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.

When using a small package service provider as the carrier, TD502 will contain code 2, TD503 will contain the carrier's SCAC, and TD504 will contain code U to inform the receiver of a small package service shipment.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|-----------------|
| TD501 | 133 | Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement | O ID 1/2 |
| | | 1 1st Carrier after Origin Carrier | |
| | | 2 2nd Carrier after Origin Carrier | |
| | | 3 3rd Carrier after Origin Carrier | |
| | | 4 4th Carrier after Origin Carrier | |
| | | 5 5th Carrier after Origin Carrier | |
| | | 6 6th Carrier after Origin Carrier | |
| | | 7 7th Carrier after Origin Carrier | |

| | | | | | |
|-------|-----|--|--|--|--|
| | | <ul style="list-style-type: none"> 8 8th Carrier after Origin Carrier 9 9th Carrier after Origin Carrier A Origin Carrier, Agent's Routing (Rail) B Origin/Delivery Carrier (Any Mode) O Origin Carrier (Air, Motor, or Ocean) S Origin Carrier, Shipper's Routing (Rail) | | | |
| TD502 | 66 | <p>Identification Code Qualifier C ID 1/2</p> <p>Code designating the system/method of code structure used for Identification Code (67)</p> <ul style="list-style-type: none"> 2 Standard Carrier Alpha Code (SCAC) <li style="background-color: #e0e0e0;">See External Code Source 17 in Section III for reference document. 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent | | | |
| TD503 | 67 | <p>Identification Code C AN 2/80</p> <p>Code identifying a party or other code</p> | | | |
| TD504 | 91 | <p>Transportation Method/Type Code C ID 1/2</p> <p>Code specifying the method or type of transportation for the shipment</p> <ul style="list-style-type: none"> A Air AE Air Express BU Bus C Consolidation CE Customer Pickup / Customer's Expense D Parcel Post E Expedited Truck H Customer Pickup L Contract Carrier M Motor (Common Carrier) R Rail S Ocean T Best Way (Shippers Option) U Private Parcel Service | | | |
| TD505 | 387 | <p>Routing C AN 1/35</p> <p>Free-form description of the routing or requested routing for shipment, or the originating carrier's identity</p> | | | |
| TD506 | 368 | <p>Shipment/Order Status Code C ID 2/2</p> <p>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</p> <ul style="list-style-type: none"> BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date) CC Shipment Complete on (Date) CM Shipment Complete with Additional Quantity CP Partial Shipment on (Date), Considered No Backorder CS Shipment Complete with Substitution DE Deleted Order IC Item Canceled IS Item Represents Substitution from Original Order PR Partial Shipment SS Split Shipment | | | |
| TD507 | 309 | <p>Location Qualifier O ID 1/2</p> <p>Code identifying type of location</p> <ul style="list-style-type: none"> <li style="background-color: #e0e0e0;">See External Code Source 206 in Section III for reference document. PA Port of Arrival | | | |

| | | | | | |
|--------------|------------|--|----------|-----------|-------------|
| | | PB Port of Discharge | | | |
| | | PE Port of Entry | | | |
| TD508 | 310 | Location Identifier Code which identifies a specific location | C | AN | 1/30 |
| | | See External Code Source 54 in Section III for reference document. | | | |
| | | When TD508 contains code PA or PE, refer to U.S. Census Schedule D, U.S. Customs District/Port Codes and official code lists relevant to other countries (entry country). | | | |
| TD509 | 731 | Transit Direction Code The point of origin and point of direction | O | ID | 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD510 | 732 | Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time | O | ID | 2/2 |
| | | CD Calendar Days (Includes weekends and Holidays) | | | |
| | | HO Hours | | | |
| TD511 | 733 | Transit Time The numeric amount of transit time | C | R | 1/4 |
| | | Transit time is based on the ship date and time in the DTM segment. | | | |
| TD512 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| | | DS Door Service | | | |
| | | ND Next Day Air | | | |
| | | PB Priority Mail | | | |
| | | PI Priority Mail Insured | | | |
| | | SC Second Day Air | | | |
| TD513 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD514 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | O | ID | 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD515 | 26 | Country Code Code identifying the country | O | ID | 2/3 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: TD3 Carrier Details (Equipment)

Level: Detail - Shipment

Loop: HL/TD3 **Usage:** Optional **Max Use:** 12

Usage: Mandatory

Max Use: 1

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

Syntax: 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.

Notes: This segment is used to specify the trailer number for a truckload shipment. This segment may be used also to specify the type of import container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|---|------------|----|------|
| TD301 | 40 | Equipment Description Code Code identifying type of equipment used for shipment | C | ID | 2/2 |
| | | 2B 20 ft. IL Container (Closed Top) | | | |
| | | 4B 40 ft. IL Container (Closed Top) | | | |
| | | AT Closed Container (Controlled Temperature) | | | |
| | | CI Container, Insulated | | | |
| | | CK Container, Heated/Insulated/Ventilated | | | |
| | | CN Container | | | |
| | | CV Closed Van | | | |
| | | CZ Refrigerated Container | | | |
| | | FT Flat Bed Trailer | | | |
| | | RC Refrigerated (Reefer) Car | | | |
| | | RT Controlled Temperature Trailer (Reefer) | | | |
| | | TA Trailer, Heated/Insulated/Ventilated | | | |
| | | TL Trailer (not otherwise specified) | | | |
| TD302 | 206 | Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number | O | AN | 1/4 |
| | | See External Code Source 17 in Section III for reference document. | | | |
| | | See External Code Source 512 in Section III for reference document. | | | |
| TD303 | 207 | Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) | C | AN | 1/10 |
| TD304 | 187 | Weight Qualifier Code defining the type of weight | O | ID | 1/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD305 | 81 | Weight Numeric value of weight | C | R | 1/10 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD306 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |

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|---|------------|---|----------|-----------|-------------|
| TD307 | 102 | Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment | O | ID | 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD308 | 407 | Seal Status Code Code indicating condition of door seal upon arrival | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD309 | 225 | Seal Number Unique number on seal used to close a shipment | O | AN | 2/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD310 | 24 | Equipment Type Code identifying equipment type | C | ID | 4/4 |
| See External Code Source 14 in Section III for reference document. | | | | | |
| Use ISO 6346:1995 code list. | | | | | |

Segment: AT9 Trailer or Container Dimension and Weight

Level: Detail - Shipment

Loop: HL/TD3

Usage: Optional

Max Use: 1

Purpose: To specify trailer or container dimensions

Syntax: 1 **P040506**

If either AT904, AT905 or AT906 are present, then the others are required.

2 **P0708**

If either AT907 or AT908 is present, then the other is required.

Semantic: 1 AT902 is the height of the trailer or container in inches.

2 AT903 is the width of the trailer or container in inches.

3 AT906 is the weight of the trailer or container. It is the tare weight of the trailer or container.

4 AT908 is the volumetric capacity of the trailer or container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ▶ AT901 | 567 | Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11) | O NO 4/5 |
| AT902 | 65 | Height Vertical dimension of an object measured when the object is in the upright position | O R 1/8 |
| AT903 | 189 | Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position | O R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT904 | 187 | Weight Qualifier Code defining the type of weight | C ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT905 | 188 | Weight Unit Code Code specifying the weight unit | C ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT906 | 81 | Weight Numeric value of weight | C R 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT907 | 184 | Volume Unit Qualifier Code identifying the volume unit | C ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT908 | 183 | Volume Value of volumetric measure | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 5

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Syntax: 1 R010204

At least one of TD401, TD402 or TD404 is required.

2 C0203

If TD402 is present, then TD403 is required.

Semantic: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TD401 | 152 | Special Handling Code Code specifying special transportation handling instructions | C | ID | 2/3 |
| | | CC Container, Consolidator Load | | | |
| | | Full container | | | |
| | | CF Container, Factory Load | | | |
| | | Full container, not to be opened for consolidation | | | |
| | | LN Less Than Container, Consolidator Load | | | |
| | | LR Less Than Container, Factory Load | | | |
| | | TC Trailer, Consolidator Load | | | |
| | | Full trailer | | | |
| | | TF Trailer, Factory Load | | | |
| | | Full trailer, not to be opened for consolidation | | | |
| TD402 | 208 | Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209) | C | ID | 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD403 | 209 | Hazardous Material Class Code Code specifying the kind of hazard for a material | C | AN | 1/4 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD404 | 352 | Description A free-form description to clarify the related data elements and their content | C | AN | 1/80 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| TD405 | 1073 | Yes/No Condition or Response Code Code indicating a Yes or No condition or response | O | ID | 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: REF Reference Identification

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To specify identifying information

Syntax: 1 **R0203**

At least one of REF02 or REF03 is required.

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

Notes: In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|--------------------|
| REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | M ID 2/3 |
| | | AF Airlines Flight Identification Number | |
| | | AO Appointment Number Receiver's appointment number | |
| | | BM Bill of Lading Number | |
| | | CN Carrier's Reference Number (PRO/Invoice) | |
| | | MB Master Bill of Lading | |
| | | MR Merchandise Type Code | |
| | | UCB UCC Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document. | |
| | | UCM UCC Master Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document. | |
| REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C AN 1/50 |
| REF03 | 352 | Description A free-form description to clarify the related data elements and their content | C AN 1/80 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| REF04 | C040 | REFERENCE IDENTIFIER To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | O COMPOSITE |
| | | NOT USED BY THE RETAIL INDUSTRY | |

Segment: PER Administrative Communications Contact

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 3

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

Syntax: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|-------------------|
| PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named DI Delivery Instructions Contact HM Hazardous Material Contact | M ID 2/2 |
| PER02 | 93 | Name Free-form name | O AN 1/60 |
| PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | C ID 2/2 |
| PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | C AN 1/256 |
| PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | C ID 2/2 |
| PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | C AN 1/256 |
| PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone | C ID 2/2 |
| PER08 | 364 | Communication Number Complete communications number including country or area code when applicable | C AN 1/256 |
| PER09 | 443 | Contact Inquiry Reference Additional reference number or description to clarify a contact number | O AN 1/20 |

NOT USED BY THE RETAIL INDUSTRY

Segment: MAN Marks and Numbers

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: **A** 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.

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

C 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.

Notes: This segment, at the shipment level, is used to specify a single UCC/EAN-128 Serial Shipping Container Code (SSCC-18) to identify an entire shipment (full trailer).

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | |
|-----------|--------------|------|---|------------------|
| ➤ | MAN01 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document. GM SSCC-18 and Application Identifier This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document. | M ID 1/2 |
| ➤ | MAN02 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | M AN 1/48 |
| | MAN03 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY | O AN 1/48 |
| | MAN04 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) NOT USED BY THE RETAIL INDUSTRY | C ID 1/2 |
| | MAN05 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY | C AN 1/48 |

MAN06 87 Marks and Numbers **O AN 1/48**
Marks and numbers used to identify a shipment or parts of a shipment
NOT USED BY THE RETAIL INDUSTRY

Segment: DTM Date/Time Reference

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| ➤ | DTM01 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped 017 Estimated Delivery 067 Current Schedule Delivery 068 Current Schedule Ship AA1 Estimated Point of Arrival AA2 Estimated Point of Discharge | M ID 3/3 |
| ➤ | DTM02 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | C DT 8/8 |
| | DTM03 337 | Time 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) | C TM 4/8 |
| | DTM04 623 | Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| | DTM05 1250 | Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY | C ID 2/3 |
| | DTM06 1251 | Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY | C AN 1/35 |

Segment: FOB F.O.B. Related Instructions

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify transportation instructions relating to shipment

Syntax: 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.

Semantic: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|----------------|--------------|--|-----------------|
| ▶ FOB01 | 146 | Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect CF Collect, Freight Credited Back to Customer DF Defined by Buyer and Seller MX Mixed PC Prepaid but Charged to Customer PO Prepaid Only PP Prepaid (by Seller) TP Third Party Pay | M ID 2/2 |
| FOB02 | 309 | Location Qualifier Code identifying type of location See External Code Source 206 in Section III for reference document. AC City and State CA Country of Origin CC Country CI City CO County/Parish and State CS Canadian SPLC See External Code Source 21 in Section III for reference document. CY County/Parish DE Destination (Shipping) FA Factory FE Freight Equalization Point FF Foreign Freight Forwarder Location OA Origin (After Loading on Equipment) | C ID 1/2 |

OR Origin (Shipping Point)
OV On Vessel (Free On Board [FOB] point)
SP State/Province
TL Terminal Cargo Location

| | | | | |
|---|------------|--|-------------|-------------|
| FOB03 | 352 | Description A free-form description to clarify the related data elements and their content | O AN | 1/80 |
| Free-form name of transportation responsibility location | | | | |
| FOB04 | 334 | Transportation Terms Qualifier Code Code identifying the source of the transportation terms | O ID | 2/2 |
| 01 Incoterms | | | | |
| See External Code Source 35 in Section III for the source reference document of INCOTERMS codes, which will appear in FOB05. | | | | |
| FOB05 | 335 | Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility | C ID | 3/3 |
| FOB06 | 309 | Location Qualifier Code identifying type of location | C ID | 1/2 |
| See External Code Source 206 in Section III for reference document. | | | | |
| See FOB02 for code list. | | | | |
| FOB07 | 352 | Description A free-form description to clarify the related data elements and their content | O AN | 1/80 |
| Free-form name of title passage location | | | | |
| FOB08 | 54 | Risk of Loss Code Code specifying where responsibility for risk of loss passes | O ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |
| FOB09 | 352 | Description A free-form description to clarify the related data elements and their content | C AN | 1/80 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |

Segment: **N1 Name**
Level: Detail - Shipment
Loop: HL/N1 **Usage:** Optional **Max Use:** 200
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax: 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: **A** 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.

B N105 and N106 further define the type of entity in N101.

Notes: **N103 and N104 are required except when N101 contains code MA or OB.**

When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR. To identify the receiver of the transaction set, N101 will contain code TO.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual | M ID 2/3 |
| | | BS Bill and Ship To | |
| | | CS Consolidator | |
| | | This is the consolidation point for the order and must be used in conjunction with an additional N1 segment containing code ST in N101. | |
| | | FR Message From | |
| | | LP Loading Party | |
| | | Loading point/port | |
| | | MA Party for whom Item is Ultimately Intended | |
| | | Ultimate receiver | |
| | | OB Ordered By | |
| | | Customer of retailer | |
| | | SF Ship From | |
| | | ST Ship To | |
| | | TO Message To | |
| | | UP Unloading Party | |
| | | Unloading point/port | |
| | | YW Discharge Point | |
| N102 | 93 | Name Free-form name | C AN 1/60 |

| | | | |
|-------------|------------|---|------------------|
| N103 | 66 | <p>Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)</p> <p>1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document.</p> <p>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document.</p> <p>21 Health Industry Number (HIN) See External Code Source 121 in Section III for reference document.</p> <p>91 Assigned by Seller or Seller's Agent</p> <p>92 Assigned by Buyer or Buyer's Agent</p> <p>93 Code assigned by the organization originating the transaction set</p> <p>94 Code assigned by the organization that is the ultimate destination of the transaction set</p> <p>UL UCC/EAN Location Code See External Code Source 583 in Section III for reference document.</p> | C ID 1/2 |
| N104 | 67 | <p>Identification Code Code identifying a party or other code</p> <p>This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</p> | C AN 2/80 |
| N105 | 706 | <p>Entity Relationship Code Code describing entity relationship</p> <p>NOT USED BY THE RETAIL INDUSTRY</p> | O ID 2/2 |
| N106 | 98 | <p>Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual</p> <p>NOT USED BY THE RETAIL INDUSTRY</p> | O ID 2/3 |

Segment: N2 Additional Name Information

Level: Detail - Shipment

Loop: HL/N1

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|--------------|-----------------|-------------------------------|------------|----|------|
| N201 | 93 | Name Free-form name | M | AN | 1/60 |
| N202 | 93 | Name Free-form name | O | AN | 1/60 |

Segment: **N3 Address Information**
Level: Detail - Shipment
Loop: HL/N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|--------------|-----------------|---|------------|----|------|
| N301 | 166 | Address Information Address information | M | AN | 1/55 |
| N302 | 166 | Address Information Address information | O | AN | 1/55 |

Segment: N4 Geographic Location

Level: Detail - Shipment

Loop: HL/N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 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: A A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

B N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: N401 and N402 are required unless N405 and N406 are used.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------|
| N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | C ID 2/2 |
| N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) See External Code Source 51 in Section III for reference document. | O ID 3/15 |
| N404 | 26 | Country Code Code identifying the country See External Code Source 5 in Section III for reference document. | C ID 2/3 |
| N405 | 309 | Location Qualifier Code identifying type of location See External Code Source 206 in Section III for reference document. D Census Schedule D See External Code Source 54 in Section III for reference document. IA International Air Transport Association (IATA) Location Qualifier K Census Schedule K See External Code Source 55 in Section III for reference document. W Worldwide Geographic Location Code | C ID 1/2 |
| N406 | 310 | Location Identifier Code which identifies a specific location | O AN 1/30 |
| N407 | 1715 | Country Subdivision Code Code identifying the country subdivision NOT USED BY THE RETAIL INDUSTRY | C ID 1/3 |

Segment: HL Hierarchical Level

Level: Detail - Unit Load

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M AN 1/12 |
| ➤ | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure UT Unit or Lot Unit load | M ID 1/2 |
| | HL04 | 736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described | O ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: TD3 Carrier Details (Equipment)

Level: Detail - Unit Load

Loop: HL/TD3 **Usage:** Optional **Max Use:** 12

Usage: Mandatory

Max Use: 1

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

Syntax: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TD301 | 40 | Equipment Description Code Code identifying type of equipment used for shipment 20 20 ft. IL Container (Open Top) 2B 20 ft. IL Container (Closed Top) 40 40 ft. IL Container (Open Top) 4B 40 ft. IL Container (Closed Top) CN Container CZ Refrigerated Container | C | ID | 2/2 |
| TD302 | 206 | Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number See External Code Source 17 in Section III for reference document. See External Code Source 512 in Section III for reference document. | O | AN | 1/4 |
| TD303 | 207 | Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) | C | AN | 1/10 |
| TD304 | 187 | Weight Qualifier Code defining the type of weight NOT USED BY THE RETAIL INDUSTRY | O | ID | 1/2 |
| TD305 | 81 | Weight Numeric value of weight NOT USED BY THE RETAIL INDUSTRY | C | R | 1/10 |
| TD306 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY | C | ID | 2/2 |
| TD307 | 102 | Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment NOT USED BY THE RETAIL INDUSTRY | O | ID | 1/1 |
| TD308 | 407 | Seal Status Code Code indicating condition of door seal upon arrival NOT USED BY THE RETAIL INDUSTRY | O | ID | 2/2 |
| TD309 | 225 | Seal Number Unique number on seal used to close a shipment | O | AN | 2/15 |

TD310 24 **Equipment Type** C ID 4/4

Code identifying equipment type

See External Code Source 14 in Section III for reference document.

Use ISO 6346:1995 code list.

Segment: AT9 Trailer or Container Dimension and Weight

Level: Detail - Unit Load

Loop: HL/TD3

Usage: Optional

Max Use: 1

Purpose: To specify trailer or container dimensions

Syntax: 1 **P040506**

If either AT904, AT905 or AT906 are present, then the others are required.

2 **P0708**

If either AT907 or AT908 is present, then the other is required.

Semantic: 1 AT902 is the height of the trailer or container in inches.

2 AT903 is the width of the trailer or container in inches.

3 AT906 is the weight of the trailer or container. It is the tare weight of the trailer or container.

4 AT908 is the volumetric capacity of the trailer or container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ▶ AT901 | 567 | Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11) | O NO 4/5 |
| AT902 | 65 | Height Vertical dimension of an object measured when the object is in the upright position | O R 1/8 |
| AT903 | 189 | Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position | O R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT904 | 187 | Weight Qualifier Code defining the type of weight | C ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT905 | 188 | Weight Unit Code Code specifying the weight unit | C ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT906 | 81 | Weight Numeric value of weight | C R 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT907 | 184 | Volume Unit Qualifier Code identifying the volume unit | C ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| AT908 | 183 | Volume Value of volumetric measure | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: MAN Marks and Numbers

Level: Detail - Unit Load

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

- Semantic:**
- 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:**
- A** 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.
 - B** MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
 - C** 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.

Notes: This segment, at the unit load level, is used to specify the identification number for the unit load.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| ➤ MAN01 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) | M ID 1/2 |
| | | AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document. | |
| | | GM SSCC-18 and Application Identifier This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document. | |
| ➤ MAN02 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | M AN 1/48 |
| MAN03 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | O AN 1/48 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| MAN04 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) | C ID 1/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| MAN05 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | C AN 1/48 |
| | | NOT USED BY THE RETAIL INDUSTRY | |

MAN06 87 **Marks and Numbers** O AN 1/48
Marks and numbers used to identify a shipment or parts of a shipment
NOT USED BY THE RETAIL INDUSTRY

Segment: HL Hierarchical Level

Level: Detail - Order

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M AN 1/12 |
| ➤ | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure O Order | M ID 1/2 |
| | HL04 | 736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described | O ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: **PRF** Purchase Order Reference
Level: Detail - Order
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Semantic: 1 PRF04 is the date assigned by the purchaser to purchase order.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| PRF01 | 324 | Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number | M AN 1/22 |
| PRF02 | 328 | Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Retailer's release against the purchase order, if used | O AN 1/30 |
| PRF03 | 327 | Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set NOT USED BY THE RETAIL INDUSTRY | O AN 1/8 |
| PRF04 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Retailer's original purchase order date | O DT 8/8 |
| PRF05 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set The number assigned to the original purchase order line item; the value of PO101 for the previously transmitted purchase order, if used | O AN 1/20 |
| PRF06 | 367 | Contract Number Contract number | O AN 1/30 |
| PRF07 | 92 | Purchase Order Type Code Code specifying the type of Purchase Order NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |

Segment: PID Product/Item Description

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 200

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

- Syntax:**
- 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.

- Semantic:**
- 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:**
- A** 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.
 - B** Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - C** PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| ➤ | PID01 | 349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PID04. | M ID 1/1 |
| | PID02 | 750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic NOT USED BY THE RETAIL INDUSTRY | O ID 2/3 |
| ➤ | PID03 | 559 Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document. | C ID 2/2 |
| ➤ | PID04 | 751 Product Description Code A code from an industry code list which provides specific data about a product characteristic EV Compliant with State Environment Requirements FL Compliant with Fair Labor Standards Act VC Volatile Organic Compound (VOC) Compliant | C AN 1/12 |
| | PID05 | 352 Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY | C AN 1/80 |

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| | | | | | |
|--|-------------|--|----------|-----------|-------------|
| PID06 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PID07 | 822 | Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier | O | AN | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PID08 | 1073 | Yes/No Condition or Response Code Code indicating a Yes or No condition or response | O | ID | 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PID09 | 819 | Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) | O | ID | 2/3 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax: 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.

Notes: This segment, at the order level, is used to specify the number and type of shipping containers in the order.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------|
| TD101 | 103 | Packaging Code 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 | O AN 3/5 |
| | | Part 1 | |
| | | BAG Bag | |
| | | CTN Carton | |
| | | PLT Pallet | |
| | | Part 2 | |
| | | 01 Aluminum | |
| | | 25 Corrugated or Solid | |
| | | 31 Fibre | |
| | | 76 Paper | |
| | | 79 Plastic | |
| | | 94 Wood | |
| TD102 | 80 | Lading Quantity Number of units (pieces) of the lading commodity | C NO 1/7 |
| TD103 | 23 | Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code | O ID 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD104 | 22 | Commodity Code Code describing a commodity or group of commodities | C AN 1/30 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD105 | 79 | Lading Description Description of an item as required for rating and billing purposes | O AN 1/50 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD106 | 187 | Weight Qualifier Code defining the type of weight G Gross Weight | O ID 1/2 |
| TD107 | 81 | Weight Numeric value of weight | C R 1/10 |

| | | | | | |
|---------------------------------------|------------|---|----------|-----------|------------|
| TD108 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| See Section III for code list. | | | | | |
| TD109 | 183 | Volume Value of volumetric measure | C | R | 1/8 |
| Gross volume | | | | | |
| TD110 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| See Section III for code list. | | | | | |

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 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.

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

Comments: A 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.

Notes: This segment, at the order level, is used to specify the status of the order.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|--|------------------|
| TD501 | 133 | Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement | O ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| TD502 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) | C ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| TD503 | 67 | Identification Code Code identifying a party or other code | C AN 2/80 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| TD504 | 91 | Transportation Method/Type Code Code specifying the method or type of transportation for the shipment | C ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| TD505 | 387 | Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity | C AN 1/35 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| ▶ TD506 | 368 | Shipment/Order Status Code 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 BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date) CC Shipment Complete on (Date) | C ID 2/2 |

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CM Shipment Complete with Additional Quantity
CP Partial Shipment on (Date), Considered No Backorder
CS Shipment Complete with Substitution
DE Deleted Order
IC Item Canceled
IS Item Represents Substitution from Original Order
PR Partial Shipment
SS Split Shipment

| | | | | | |
|--|------------|---|----------|-----------|-------------|
| TD507 | 309 | Location Qualifier Code identifying type of location | O | ID | 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD508 | 310 | Location Identifier Code which identifies a specific location | C | AN | 1/30 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD509 | 731 | Transit Direction Code The point of origin and point of direction | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD510 | 732 | Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD511 | 733 | Transit Time The numeric amount of transit time | C | R | 1/4 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD512 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD513 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD514 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD515 | 26 | Country Code Code identifying the country | O | ID | 2/3 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: TSD Trailer Shipment Details

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

Semantic: 1 TSD01 indicates the loading sequence and relative shipment position on the trailer.

Notes: This segment is used to indicate the location of all cartons within the trailer/container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TSD01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O | AN | 1/20 |
| | | Indicates the loading sequence | | | |
| TSD02 | 219 | Position Relative position of shipment in car, trailer, or container (mutually defined) | O | AN | 1/3 |
| | | <ul style="list-style-type: none"> 1 First quarter of the trailer/container 2 Second quarter of the trailer/container 3 Third quarter of the trailer/container 4 Fourth quarter of the trailer/container | | | |

Segment: **REF** Reference Identification
Level: Detail - Order
Loop: HL
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax: 1 **R0203**
 At least one of REF02 or REF03 is required.
Semantic: 1 REF04 contains data relating to the value cited in REF02.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| ➤ REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | M ID 2/3 |
| | | 6B U.S. Customs Service (USCS) Entry Number Customs entry number | |
| | | BM Bill of Lading Number | |
| | | BT Batch Number | |
| | | CH Customer catalog number | |
| | | CO Customer Order Number Customer of retailer | |
| | | DP Department Number | |
| | | HB Bill & Hold Invoice Number | |
| | | IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system | |
| | | IT Internal Customer Number Identification number assigned to the retailer, by the vendor, for use within the vendor's system | |
| | | IV Seller's Invoice Number | |
| | | MR Merchandise Type Code | |
| | | PD Promotion/Deal Number | |
| | | QC Product Specification Document Number Schematic reference number | |
| | | SB Sales Region Number | |
| | | UCB UCC Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document. | |
| | | UCM UCC Master Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document. | |
| | | VN Vendor Order Number | |
| ➤ REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C AN 1/50 |
| REF03 | 352 | Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY | C AN 1/80 |

REF04 C040 REFERENCE IDENTIFIER **COMPOSITE**
To identify one or more reference numbers or identification numbers as specified by the
Reference Qualifier

NOT USED BY THE RETAIL INDUSTRY

Segment: DTM Date/Time Reference

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| ➤ DTM01 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 272 Exit Plant Date Ex factory 371 Estimated Arrival Date This code may be used only for multi-stop shipments on one bill of lading. | M ID 3/3 |
| ➤ DTM02 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | C DT 8/8 |
| DTM03 | 337 | Time 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) | C TM 4/8 |
| DTM04 | 623 | Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| DTM05 | 1250 | Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY | C ID 2/3 |
| DTM06 | 1251 | Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY | C AN 1/35 |

Segment: **N1 Name**
Level: Detail - Order
Loop: HL/N1 **Usage:** Optional **Max Use:** 200
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Syntax: 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: A 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.
 B N105 and N106 further define the type of entity in N101.

Notes: **There will be at least one occurrence, of this segment, to identify the buying party by using code BY in N101.**
N103 and N104 are required except when N101 contains code CT, MA or OB.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual | M ID 2/3 |
| | | AG Agent/Agency Buyer's agent | |
| | | BO Broker or Sales Office For a domestic purchase order, this is the manufacturer's sales office. For an import purchase order this is the sales office that interacts with the manufacturer's/buyer's agent. | |
| | | BY Buying Party (Purchaser) | |
| | | CT Country of Origin | |
| | | MA Party for whom Item is Ultimately Intended Ultimate receiver | |
| | | OB Ordered By Customer of retailer | |
| | | SE Selling Party | |
| | | Z7 Mark-for Party This is the receiving location for the order where the location is neither the buying party nor the ship-to location and the mark-for party is specified on the shipping label, e.g., the mark-for party is a satellite warehouse, the buying party is the store, and the ship-to location is the distribution center. | |
| N102 | 93 | Name Free-form name | C AN 1/60 |
| N103 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) | C ID 1/2 |
| | | 1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document. | |
| | | 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document. | |

| | | | | | |
|------|-----|---|--|----|------|
| | | 21 Health Industry Number (HIN) | | | |
| | | | See External Code Source 121 in Section III for reference document. | | |
| | | 38 Country Code | | | |
| | | | See External Code Source 5 in Section III for reference document. | | |
| | | 91 Assigned by Seller or Seller's Agent | | | |
| | | 92 Assigned by Buyer or Buyer's Agent | | | |
| | | UL UCC/EAN Location Code | | | |
| | | | See External Code Source 583 in Section III for reference document. | | |
| N104 | 67 | Identification Code | C | AN | 2/80 |
| | | Code identifying a party or other code | | | |
| | | This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses. | | | |
| N105 | 706 | Entity Relationship Code | O | ID | 2/2 |
| | | Code describing entity relationship | | | |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| N106 | 98 | Entity Identifier Code | O | ID | 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | | | |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: N2 Additional Name Information

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|--------------|-----------------|-------------------------------|------------|----|------|
| N201 | 93 | Name Free-form name | M | AN | 1/60 |
| N202 | 93 | Name Free-form name | O | AN | 1/60 |

Segment: N3 Address Information

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|--------------|-----------------|----------------------------|------------|----|------|
| ➤ N301 | 166 | Address Information | M | AN | 1/55 |
| | | Address information | | | |
| N302 | 166 | Address Information | O | AN | 1/55 |
| | | Address information | | | |

Segment: N4 Geographic Location

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 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: A A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

B N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | C ID 2/2 |
| N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) See External Code Source 51 in Section III for reference document. | O ID 3/15 |
| N404 | 26 | Country Code Code identifying the country See External Code Source 5 in Section III for reference document. | C ID 2/3 |
| N405 | 309 | Location Qualifier Code identifying type of location NOT USED BY THE RETAIL INDUSTRY | C ID 1/2 |
| N406 | 310 | Location Identifier Code which identifies a specific location NOT USED BY THE RETAIL INDUSTRY | O AN 1/30 |
| N407 | 1715 | Country Subdivision Code Code identifying the country subdivision NOT USED BY THE RETAIL INDUSTRY | C ID 1/3 |

Segment: CUR Currency

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

- Syntax:**
- 1 C0807**
If CUR08 is present, then CUR07 is required.
 - 2 C0907**
If CUR09 is present, then CUR07 is required.
 - 3 L101112**
If CUR10 is present, then at least one of CUR11 or CUR12 is required.
 - 4 C1110**
If CUR11 is present, then CUR10 is required.
 - 5 C1210**
If CUR12 is present, then CUR10 is required.
 - 6 L131415**
If CUR13 is present, then at least one of CUR14 or CUR15 is required.
 - 7 C1413**
If CUR14 is present, then CUR13 is required.
 - 8 C1513**
If CUR15 is present, then CUR13 is required.
 - 9 L161718**
If CUR16 is present, then at least one of CUR17 or CUR18 is required.
 - 10 C1716**
If CUR17 is present, then CUR16 is required.
 - 11 C1816**
If CUR18 is present, then CUR16 is required.
 - 12 L192021**
If CUR19 is present, then at least one of CUR20 or CUR21 is required.
 - 13 C2019**
If CUR20 is present, then CUR19 is required.
 - 14 C2119**
If CUR21 is present, then CUR19 is required.

Comments: A See Figures Appendix for examples detailing the use of the CUR segment.

Notes: See Section V (CUR Usage) for usage examples.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|-----------------|
| ➤ | CUR01 | 98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser) | M ID 2/3 |
| ➤ | CUR02 | 100 Currency Code Code (Standard ISO) for country in whose currency the charges are specified See External Code Source 5 in Section III for reference document. | M ID 3/3 |
| | CUR03 | 280 Exchange Rate Value to be used as a multiplier conversion factor to convert monetary value from one currency to another | O R 4/10 |
| | CUR04 | 98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SE Selling Party | O ID 2/3 |

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|--------------|------------|--|-----------------|
| CUR05 | 100 | Currency Code Code (Standard ISO) for country in whose currency the charges are specified See External Code Source 5 in Section III for reference document. | O ID 3/3 |
| CUR06 | 669 | Currency Market/Exchange Code Code identifying the market upon which the currency exchange rate is based NOT USED BY THE RETAIL INDUSTRY | O ID 3/3 |
| CUR07 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY | C ID 3/3 |
| CUR08 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY | O DT 8/8 |
| CUR09 | 337 | Time 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) NOT USED BY THE RETAIL INDUSTRY | O TM 4/8 |
| CUR10 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY | C ID 3/3 |
| CUR11 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY | C DT 8/8 |
| CUR12 | 337 | Time 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) NOT USED BY THE RETAIL INDUSTRY | C TM 4/8 |
| CUR13 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY | C ID 3/3 |
| CUR14 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY | C DT 8/8 |
| CUR15 | 337 | Time 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) NOT USED BY THE RETAIL INDUSTRY | C TM 4/8 |
| CUR16 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY | C ID 3/3 |
| CUR17 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY | C DT 8/8 |

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CUR18 337 Time C TM 4/8
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)

NOT USED BY THE RETAIL INDUSTRY

CUR19 374 Date/Time Qualifier C ID 3/3
Code specifying type of date or time, or both date and time

NOT USED BY THE RETAIL INDUSTRY

CUR20 373 Date C DT 8/8
Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

NOT USED BY THE RETAIL INDUSTRY

CUR21 337 Time C TM 4/8
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)

NOT USED BY THE RETAIL INDUSTRY

Segment: HL Hierarchical Level

Level: Detail - Tare

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M AN 1/12 |
| ➤ | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure T Shipping Tare | M ID 1/2 |
| | HL04 | 736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described | O ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: TSD Trailer Shipment Details

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

Semantic: 1 TSD01 indicates the loading sequence and relative shipment position on the trailer.

Notes: This segment may be used to indicate the location of the pallet within the trailer/container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TSD01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O | AN | 1/20 |
| | | Indicates the loading sequence | | | |
| TSD02 | 219 | Position Relative position of shipment in car, trailer, or container (mutually defined) | O | AN | 1/3 |
| | | <ul style="list-style-type: none"> 1 First quarter of the trailer/container 2 Second quarter of the trailer/container 3 Third quarter of the trailer/container 4 Fourth quarter of the trailer/container | | | |

Segment: MAN Marks and Numbers

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 P0405
If either MAN04 or MAN05 is present, then the other is required.

2 C0605
If MAN06 is present, then MAN05 is required.

Semantic: 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: A 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.

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

C 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.

Notes: This segment, at the tare level, is used to specify the identification numbers for the pallet.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | |
|-----------|--------------|------|---|------------------|
| ➤ | MAN01 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document. GM SSCC-18 and Application Identifier This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document. SM Shipper Assigned UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code. See External Code Source 71 in Section III for reference document. | M ID 1/2 |
| ➤ | MAN02 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | M AN 1/48 |
| | MAN03 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY | O AN 1/48 |

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|--|-----------|---|----------|-----------|-------------|
| MAN04 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) | C | ID | 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| MAN05 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | C | AN | 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| MAN06 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment | O | AN | 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: PAL Pallet Information

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

- Syntax:**
- 1 P0506**
If either PAL05 or PAL06 is present, then the other is required.
 - 2 C0710**
If PAL07 is present, then PAL10 is required.
 - 3 C0810**
If PAL08 is present, then PAL10 is required.
 - 4 C0910**
If PAL09 is present, then PAL10 is required.
 - 5 L10070809**
If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
 - 6 P1112**
If either PAL11 or PAL12 is present, then the other is required.
 - 7 P1314**
If either PAL13 or PAL14 is present, then the other is required.

- Semantic:**
- 1** PAL04 (Pack) is the number of pieces on the pallet.
 - 2** PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
 - 3** PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
 - 4** PAL09 (Height) is the height of the pallet and load.
 - 5** PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|---|------------|----|-----|
| PAL01 | 883 | Pallet Type Code Code indicating the type of pallet 1 Aluminum 2 As Specified by the Department of Transportation (DOT) 3 Metal 4 Standard 5 Steel 6 Wood 7 Slip sheet Typically cardboard or plastic sheets used to hold products for storage or shipment | O | ID | 1/2 |
| PAL02 | 884 | Pallet Tiers The number of layers per pallet | O | NO | 1/3 |
| PAL03 | 885 | Pallet Blocks The number of pieces (cartons) per layer on the pallet | O | NO | 1/3 |
| PAL04 | 356 | Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container | O | NO | 1/6 |
| PAL05 | 395 | Unit Weight Numeric value of weight per unit | C | R | 1/8 |

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| | | | | |
|--------------|-------------|--|-------------|------------|
| PAL06 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | C ID | 2/2 |
| PAL07 | 82 | Length Largest horizontal dimension of an object measured when the object is in the upright position | C R | 1/8 |
| PAL08 | 189 | Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position | C R | 1/8 |
| PAL09 | 65 | Height Vertical dimension of an object measured when the object is in the upright position | C R | 1/8 |
| PAL10 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | C ID | 2/2 |
| PAL11 | 384 | Gross Weight per Pack Numeric value of gross weight per pack | C R | 1/9 |
| PAL12 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | C ID | 2/2 |
| PAL13 | 385 | Gross Volume per Pack Numeric value of gross volume per pack | C R | 1/9 |
| PAL14 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | C ID | 2/2 |
| PAL15 | 399 | Pallet Exchange Code Code specifying pallet exchange instructions 1 No Exchange/No Return 2 Exchange Pallets 3 Return Pallets 4 Pallets to be Purchased by Customer 5 Third-Party Pallet Exchange | O ID | 1/1 |
| PAL16 | 810 | Inner Pack The number of eaches per inner container NOT USED BY THE RETAIL INDUSTRY | O NO | 1/6 |
| PAL17 | 1699 | Pallet Structure Code Code identifying the pallet structure NOT USED BY THE RETAIL INDUSTRY | O ID | 1/1 |

Segment: HL Hierarchical Level

Level: Detail - Pack

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M AN 1/12 |
| ➤ | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack | M ID 1/2 |
| | HL04 | 736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described | O ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: **LIN** Item Identification

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax: 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.

Semantic: 1 LIN01 is the line item identification

Comments: A See the Data Dictionary for a complete list of IDs.

B 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.

Notes: This segment, at the pack level, is used to specify the U.P.C. Case Code or the U.P.C./EAN Shipping Container Code (SCC-14), and production information. The SN1 segment that follows is used to specify the number of cases identified in the LIN segment. The LIN segment, at the item level, is used to indicate the individual consumer units for the case code.

The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| LIN01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

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|---|-------|-----|--|------------------|
| ➤ | LIN02 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | M ID 2/2 |
| | | | <p>LT Lot Number</p> <p>PJ Product Date Code (A code indicating the period during which a product was manufactured.)</p> <p>UA U.P.C./EAN Case Code (2-5-5)</p> <p style="background-color: #e0e0e0;">See External Code Source 41 in Section III for reference document.</p> <p>UK EAN/UCC - 14</p> <p style="background-color: #e0e0e0;">See External Code Source 41 in Section III for reference document.</p> | |
| ➤ | LIN03 | 234 | Product/Service ID Identifying number for a product or service | M AN 1/48 |
| | LIN04 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | LIN05 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | LIN06 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | LIN07 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | LIN08 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN09 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN10 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN11 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN12 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN13 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN14 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |
| | LIN15 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| | | | NOT USED BY THE RETAIL INDUSTRY | |

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| LIN16 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN17 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN18 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN19 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN20 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN21 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN22 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN23 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN24 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN25 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN26 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN27 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN28 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN29 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN30 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

| | | | | | |
|--|------------|--|----------|-----------|-------------|
| LIN31 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: SN1 Item Detail (Shipment)

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify line-item detail relative to shipment

Syntax: 1 P0506

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

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

Comments: A SN103 defines the unit of measurement for both SN102 and SN104.

Notes: This segment, at the pack level, is used only to specify the number of cases identified by the U.P.C./EAN Case Code or the U.P.C./EAN Shipping Container Code (SCC-14) in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------|
| SN101 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| ➤ SN102 | 382 | Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | M R 1/10 |
| ➤ SN103 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CA Case | M ID 2/2 |
| SN104 | 646 | Quantity Shipped to Date Number of units shipped to date | O R 1/15 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| SN105 | 330 | Quantity Ordered Quantity ordered | C R 1/15 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| SN106 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| SN107 | 728 | Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment | O ID 1/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| SN108 | 668 | Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer | O ID 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |

Segment: **SLN Subline Item Detail**

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1000

Purpose: To specify product subline detail item data

Syntax: 1 **P0405**

If either SLN04 or SLN05 is present, then the other is required.

2 **C0706**

If SLN07 is present, then SLN06 is required.

3 **C0806**

If SLN08 is present, then SLN06 is required.

4 **P0910**

If either SLN09 or SLN10 is present, then the other is required.

5 **P1112**

If either SLN11 or SLN12 is present, then the other is required.

6 **P1314**

If either SLN13 or SLN14 is present, then the other is required.

7 **P1516**

If either SLN15 or SLN16 is present, then the other is required.

8 **P1718**

If either SLN17 or SLN18 is present, then the other is required.

9 **P1920**

If either SLN19 or SLN20 is present, then the other is required.

10 **P2122**

If either SLN21 or SLN22 is present, then the other is required.

11 **P2324**

If either SLN23 or SLN24 is present, then the other is required.

12 **P2526**

If either SLN25 or SLN26 is present, then the other is required.

13 **P2728**

If either SLN27 or SLN28 is present, then the other is required.

Semantic: 1 SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: A See the Data Element Dictionary for a complete list of IDs.

B SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

C SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: This segment, when used in a standard carton pack structure at the pack level, may only be used to specify an individual component of the item identified in the LIN segment in the previous item level. The quantity specified in SN102, at the item level, represents the number of sets, and SN103 will contain code ST, to identify it as a set. Each subsequent MAN segment, within this pack level, identifies the carton ID for each component identified in the SLN segment. Additional pack level SLN segments and MAN segments are used to represent each different component of the SKU.

The codes listed for SLN09 apply to every occurrence of Data Element 235 in the SLN segment.

See Section III for complete U.P.C. and EAN code definitions.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|-------------|
| ➤ | SLN01 | 350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | M AN 1/20 |
| | SLN02 | 350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| ➤ | SLN03 | 662 Relationship Code Code indicating the relationship between entities I Included | M ID 1/1 |
| ➤ | SLN04 | 380 Quantity Numeric value of quantity | C R 1/15 |
| ➤ | SLN05 | C001 COMPOSITE UNIT OF MEASURE To identify a composite unit of measure (See Figures Appendix for examples of use) | C COMPOSITE |
| ➤ | - 1 | 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | M ID 2/2 |
| | - 2 | 1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |
| | - 3 | 649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY | O R 1/10 |
| | - 4 | 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| | - 5 | 1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |
| | - 6 | 649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY | O R 1/10 |
| | - 7 | 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| | - 8 | 1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |
| | - 9 | 649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY | O R 1/10 |

| | | | | | |
|---|------|---|---|----|------|
| - 10 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 11 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 12 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 13 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 14 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 15 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| SLN06 | 212 | Unit Price Price per unit of product, service, commodity, etc. | C | R | 1/17 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| SLN07 | 639 | Basis of Unit Price Code Code identifying the type of unit price for an item | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| SLN08 | 662 | Relationship Code Code indicating the relationship between entities | O | ID | 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| SLN09 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| <p>BO Buyers Color</p> <p>CG Commodity Grouping</p> <p>Coordinates</p> <p>CM National Retail Federation Color Code This is the three digit NRF code. See External Code Source 88 in Section III for reference document.</p> <p>EN EAN/UCC - 13 See External Code Source 41 in Section III for reference document.</p> <p>IB International Standard Book Number (ISBN)</p> <p>IN Buyer's Item Number</p> <p>IT Buyer's Style Number</p> <p>IZ Buyer's Size Code</p> <p>SM National Retail Federation Size Code This is the five digit NRF code. See External Code Source 88 in Section III for reference document.</p> <p>SZ Vendor Alphanumeric Size Code This is the code assigned by the vendor.</p> | | | | | |

- UA** U.P.C./EAN Case Code (2-5-5)
See External Code Source 41 in Section III for reference document.
- UB** U.P.C./EAN Multipack Code
See External Code Source 41 in Section III for reference document.
- UC** U.P.C. Suffix (Defines Packing Variations)
See External Code Source 41 in Section III for reference document.
- UE** U.P.C./EAN Module Code (2-5-5)
See External Code Source 41 in Section III for reference document.
- UG** Drug U.P.C. Consumer Package Code (1-4-6-1)
See External Code Source 136 in Section III for reference document.
- UH** Drug U.P.C. Shipping Container Code (1-2-4-6-1)
See External Code Source 137 in Section III for reference document.
- UI** U.P.C. Consumer Package Code (1-5-5)
See External Code Source 41 in Section III for reference document.
- UK** EAN/UCC - 14
See External Code Source 41 in Section III for reference document.
- UN** U.P.C. Case Code Number (1-1-5-5)
See External Code Source 41 in Section III for reference document.
- UP** UCC - 12
See External Code Source 41 in Section III for reference document.
- VA** Vendor's Style Number
- VE** Vendor Color
- VN** Vendor's (Seller's) Item Number

| | | | | |
|--------------|------------|--|-------------|-------------|
| SLN10 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |
| SLN11 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |
| SLN12 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |
| SLN13 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |
| SLN14 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |
| SLN15 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |
| SLN16 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |
| SLN17 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |
| SLN18 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |
| SLN19 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |
| SLN20 | 234 | Product/Service ID Identifying number for a product or service | C AN | 1/48 |

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| SLN21 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| SLN22 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| SLN23 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| SLN24 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| SLN25 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| SLN26 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| SLN27 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| SLN28 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |

Segment: PO4 Item Physical Details

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax: 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.

Semantic: 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: **A** 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".

B PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: In a pick and pack structure, this segment, at the pack level, is used only to specify the carton weight and/or physical dimensions.

This segment may be used to describe a master pack of an item or a master pack of a component of an item in a standard carton pack structure.

A master pack of an item is where multiple units of an item, identified in the LIN segment at the item level, are physically packed within a shipping container, such as four crockpots to a shipping container. The item and total quantity are identified in the LIN segment at the item level. The PO4 segment, at the pack level, is used to identify the master pack makeup. PO401 (Pack) is the number of containers packed within the container identified at the pack level, the master pack. PO414 (Inner Pack) is the number of items packed within each container indicated in PO401. For example, if the manufacturer is shipping eight crockpots in one master pack, with each master pack containing four boxes, each box containing two crockpots, the item level would indicate the U.P.C. for the crockpots, with a quantity of eight each. The pack level would contain a PO4 segment with PO401 equal to 4 and PO414 equal to 2.

A master pack of a component of an item is similar to the master pack of an item with the exception that the component is identified in the SLN segment at the pack level and the item is identified at the item level. The SLN segment is used to identify how many of this component are in the item. The PO4 segment specifies how many of these components are in the shipping container identified at the pack level. For example, 8 lamps are being shipped. Each lamp has two components, the lamp base and lamp shade, and each lamp base is shipped one to a container and shades are shipped four to a container. The LIN segment at the item level would contain the U.P.C. for the lamp, with a quantity of 8 and a unit of measure of ST for set. There would be one pack level for each component.

For the shade component, the SLN segment would identify the shade and a quantity of 1, and PO401 would equal 4. PO414 is not needed since inner packs are not present. There would be two MAN segments to identify each of the two cartons which contain four lamp shades each.

For the base component, the SLN segment would identify the base and a quantity of 1. The PO4 segment is not used. There would be eight MAN segments to identify each carton containing one lamp base.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|--|------------|
| PO401 | 356 | Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container | O NO 1/6 |
| PO402 | 357 | Size Size of supplier units in pack | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO403 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO404 | 103 | Packaging Code 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 | C AN 3/5 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

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|--|------|---|---|----|------|
| PO405 | 187 | Weight Qualifier Code defining the type of weight | O | ID | 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO406 | 384 | Gross Weight per Pack Numeric value of gross weight per pack | C | R | 1/9 |
| PO407 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| See Section III for code list. | | | | | |
| PO408 | 385 | Gross Volume per Pack Numeric value of gross volume per pack | C | R | 1/9 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO409 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO410 | 82 | Length Largest horizontal dimension of an object measured when the object is in the upright position | C | R | 1/8 |
| PO411 | 189 | Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position | C | R | 1/8 |
| PO412 | 65 | Height Vertical dimension of an object measured when the object is in the upright position | C | R | 1/8 |
| PO413 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| See Section III for code list. | | | | | |
| PO414 | 810 | Inner Pack The number of eaches per inner container | O | NO | 1/6 |
| PO415 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO416 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | C | AN | 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO417 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O | AN | 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PO418 | 1470 | Number A generic number | O | NO | 1/9 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: PKG Marking, Packaging, Loading

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 25

Purpose: To describe marking, packaging, loading, and unloading requirements

Syntax: 1 **R040506**

At least one of PKG04, PKG05 or PKG06 is required.

2 **C0403**

If PKG04 is present, then PKG03 is required.

3 **C0501**

If PKG05 is present, then PKG01 is required.

Semantic: 1 PKG04 should be used for industry-specific packaging description codes.

Comments: A Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.

B If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.

C Use PKG03 to indicate the organization that publishes the code list being referred to.

D Special marking or tagging data can be given in PKG05 (description).

Notes: The codes in PKG04 are maintained by the VICS EDI SMC and are only printed in this guideline.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| ➤ | PKG01 | 349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PKG04. | C ID 1/1 |
| | PKG02 | 753 Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described 36 Package Specifications | O ID 1/5 |
| ➤ | PKG03 | 559 Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document. | C ID 2/2 |
| ➤ | PKG04 | 754 Packaging Description Code A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product Part 1: Container Type (Position 1) L Logical Container P Physical Container Part 2: Container Configuration (Positions 2-3) 01 Carton 02 Carton, Hanging Garments 03 Carton, With Hangers (not hanging) 04 Carton, With identifiable inner packs 05 Carton, With unidentifiable inner packs 06 Rack, Hanging Garments (GOH) | C AN 1/7 |

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| | | | | | |
|--|------------|--|----------|-----------|-------------|
| PKG05 | 352 | Description A free-form description to clarify the related data elements and their content | C | AN | 1/80 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| PKG06 | 400 | Unit Load Option Code Code identifying loading or unloading a shipment | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: TSD Trailer Shipment Details

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

Semantic: 1 TSD01 indicates the loading sequence and relative shipment position on the trailer.

Notes: This segment is used to indicate the location of the carton within the trailer/container.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TSD01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O | AN | 1/20 |
| | | Indicates the loading sequence | | | |
| TSD02 | 219 | Position Relative position of shipment in car, trailer, or container (mutually defined) | O | AN | 1/3 |
| | | <ul style="list-style-type: none"> 1 First quarter of the trailer/container 2 Second quarter of the trailer/container 3 Third quarter of the trailer/container 4 Fourth quarter of the trailer/container | | | |

Segment: MAN Marks and Numbers

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: **A** 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.

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

C 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.

Notes: **When the shipping container is the same as the consumer unit, the U.P.C. may be the only UCC identification code on the container. In many applications, it is necessary to positively identify what identification code is to be scanned and matched at point of receipt. Since the U.P.C. is not a unique serial shipping container code, only one pack level for each item is required when using the pick and pack structure. The total number of shipping units for this item is the same as the quantity for the item in the SN1 segment at the item level.**

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| MAN01 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) | M ID 1/2 |
| | | AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document. | |
| | | CP Carrier-Assigned Package ID Number | |
| | | GM SSCC-18 and Application Identifier This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document. | |
| | | SM Shipper Assigned | |
| | | UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code. See External Code Source 71 in Section III for reference document. | |

| | | | | | | | | |
|---|--------------|-----------|------------------------------------|--|----------|-----------|-------------|--|
| | | | UP | U.P.C. Consumer Package Code (1-5-5-1) | | | | |
| | | | | See External Code Source 41 in Section III for reference document. | | | | |
| ➤ | MAN02 | 87 | Marks and Numbers | Marks and numbers used to identify a shipment or parts of a shipment | M | AN | 1/48 | |
| | MAN03 | 87 | Marks and Numbers | Marks and numbers used to identify a shipment or parts of a shipment | O | AN | 1/48 | |
| | MAN04 | 88 | Marks and Numbers Qualifier | Code specifying the application or source of Marks and Numbers (87) | C | ID | 1/2 | |
| | | | AA | SSCC-18 | | | | |
| | | | | This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. | | | | |
| | | | | See External Code Source 664 in Section III for reference document. | | | | |
| | | | CP | Carrier-Assigned Package ID Number | | | | |
| | | | GM | SSCC-18 and Application Identifier | | | | |
| | | | | This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. | | | | |
| | | | | See External Code Source 98 in Section III for reference document. | | | | |
| | | | SM | Shipper Assigned | | | | |
| | | | UC | U.P.C. Shipping Container Code | | | | |
| | | | | This is the fourteen-digit U.P.C. Shipping Container Code. | | | | |
| | | | | See External Code Source 71 in Section III for reference document. | | | | |
| | MAN05 | 87 | Marks and Numbers | Marks and numbers used to identify a shipment or parts of a shipment | C | AN | 1/48 | |
| | MAN06 | 87 | Marks and Numbers | Marks and numbers used to identify a shipment or parts of a shipment | O | AN | 1/48 | |

Segment: DTM Date/Time Reference

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 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.

Notes: This segment, at the pack level, is used to communicate production and expiration information.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| ▶ DTM01 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time | M ID 3/3 |
| | | 036 Expiration Date product is no longer consumable or usable | |
| | | 405 Production | |
| | | 511 Shelf Life Expiration Date product is no longer available for sale | |
| ▶ DTM02 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | C DT 8/8 |
| DTM03 | 337 | Time 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) | C TM 4/8 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| DTM04 | 623 | Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow | O ID 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| DTM05 | 1250 | Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format | C ID 2/3 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| DTM06 | 1251 | Date Time Period Expression of a date, a time, or range of dates, times or dates and times | C AN 1/35 |
| | | NOT USED BY THE RETAIL INDUSTRY | |

Segment: HL Hierarchical Level

Level: Detail - Item

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|---|------------|
| ➤ | HL01 | 628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M AN 1/12 |
| ➤ | HL02 | 734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12 |
| ➤ | HL03 | 735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item | M ID 1/2 |
| | HL04 | 736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described | O ID 1/1 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: **LIN** Item Identification

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax: 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.

Semantic: 1 LIN01 is the line item identification

Comments: A See the Data Dictionary for a complete list of IDs.

B 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.

Notes: The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.

See Section III for complete U.P.C. and EAN code definitions.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|--|------------|
| LIN01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| LIN02 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BO Buyers Color | M ID 2/2 |



- CG** Commodity Grouping
Coordinates
- CH** Country of Origin Code
See External Code Source 5 in Section III for reference document.
- CM** National Retail Federation Color Code
This is the three digit NRF code.
See External Code Source 88 in Section III for reference document.
- EN** EAN/UCC - 13
See External Code Source 41 in Section III for reference document.
- IB** International Standard Book Number (ISBN)
- IN** Buyer's Item Number
- IT** Buyer's Style Number
- IZ** Buyer's Size Code
- LT** Lot Number
- SM** National Retail Federation Size Code
This is the five digit NRF code.
See External Code Source 88 in Section III for reference document.
- SZ** Vendor Alphanumeric Size Code
This is the code assigned by the vendor.
- UA** U.P.C./EAN Case Code (2-5-5)
See External Code Source 41 in Section III for reference document.
- UB** U.P.C./EAN Multipack Code
See External Code Source 41 in Section III for reference document.
- UC** U.P.C. Suffix (Defines Packing Variations)
See External Code Source 41 in Section III for reference document.
- UE** U.P.C./EAN Module Code (2-5-5)
See External Code Source 41 in Section III for reference document.
- UG** Drug U.P.C. Consumer Package Code (1-4-6-1)
See External Code Source 136 in Section III for reference document.
- UH** Drug U.P.C. Shipping Container Code (1-2-4-6-1)
See External Code Source 137 in Section III for reference document.
- UI** U.P.C. Consumer Package Code (1-5-5)
See External Code Source 41 in Section III for reference document.
- UK** EAN/UCC - 14
See External Code Source 41 in Section III for reference document.
- UN** U.P.C. Case Code Number (1-1-5-5)
See External Code Source 41 in Section III for reference document.
- UP** UCC - 12
See External Code Source 41 in Section III for reference document.
- VA** Vendor's Style Number
- VE** Vendor Color
- VN** Vendor's (Seller's) Item Number

| | | | | | |
|---|--------------|------------|--|-------------|-------------|
| ➤ | LIN03 | 234 | Product/Service ID Identifying number for a product or service | M AN | 1/48 |
| | LIN04 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID | 2/2 |

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|-------|-----|--|---|----|------|
| LIN05 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN06 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN07 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN08 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN09 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN10 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN11 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN12 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN13 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN14 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN15 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN16 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN17 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN18 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN19 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN20 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN21 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN22 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN23 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN24 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |
| LIN25 | 234 | Product/Service ID Identifying number for a product or service | C | AN | 1/48 |
| LIN26 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 |

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|--------------|------------|--|------------------|
| LIN27 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| LIN28 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| LIN29 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| LIN30 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| LIN31 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |

Segment: SN1 Item Detail (Shipment)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify line-item detail relative to shipment

Syntax: 1 **P0506**

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

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

Comments: A SN103 defines the unit of measurement for both SN102 and SN104.

Notes: This segment is used to specify the quantities associated with the item identified in the LIN at the item level.

When specifying an item, which is comprised of two or more components that are in unique shipping containers, SN103 will contain code ST for set and the quantity specified in SN102 is the number of sets as identified in the LIN segment. Each different component is identified in one pack level. See the VICS Note, on the SLN segment, at the pack level.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| SN101 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| ➤ SN102 | 382 | Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | M R 1/10 |
| ➤ SN103 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | M ID 2/2 |
| | | See Section III for code list. | |
| SN104 | 646 | Quantity Shipped to Date Number of units shipped to date | O R 1/15 |
| SN105 | 330 | Quantity Ordered Quantity ordered | C R 1/15 |
| SN106 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| | | See Section III for code list. | |
| SN107 | 728 | Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment | O ID 1/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| SN108 | 668 | Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer | O ID 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | |

Segment: **SLN Subline Item Detail**

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1000

Purpose: To specify product subline detail item data

Syntax: 1 **P0405**

If either SLN04 or SLN05 is present, then the other is required.

2 **C0706**

If SLN07 is present, then SLN06 is required.

3 **C0806**

If SLN08 is present, then SLN06 is required.

4 **P0910**

If either SLN09 or SLN10 is present, then the other is required.

5 **P1112**

If either SLN11 or SLN12 is present, then the other is required.

6 **P1314**

If either SLN13 or SLN14 is present, then the other is required.

7 **P1516**

If either SLN15 or SLN16 is present, then the other is required.

8 **P1718**

If either SLN17 or SLN18 is present, then the other is required.

9 **P1920**

If either SLN19 or SLN20 is present, then the other is required.

10 **P2122**

If either SLN21 or SLN22 is present, then the other is required.

11 **P2324**

If either SLN23 or SLN24 is present, then the other is required.

12 **P2526**

If either SLN25 or SLN26 is present, then the other is required.

13 **P2728**

If either SLN27 or SLN28 is present, then the other is required.

Semantic: 1 SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: A See the Data Element Dictionary for a complete list of IDs.

B SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

C SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: This segment can be used to specify the originally ordered SKU for substituted SKUs. This segment can also be used to specify SKU contents of an assortment. The assortment can be defined by the retailer or the vendor. The assortment identification is in the line item detail segment for the transaction. This segment may be used to specify partial deletions of SKUs ordered but not invoiced and/or shipped. This segment may also be used to specify export item detail, such as price information, when shipments are made across the border.

At this time, the ASC X12 Ship Notice/Manifest does not have the same capability as the Purchase Order and Invoice for specification of the price placed on pre-ticketed items. For many retailers, this information is necessary to determine if the cartons need to be routed to areas for re-ticketing for promotional pricing. The SLN can function, in a limited way, to satisfy this need. SLN03 will contain code I, SLN04 will contain the same code value as SN102, SLN05 will be the same as SN103, SLN06 will be the price on the ticket and SLN07 will contain code RE.

If SLN03 contains code D or code I, then SLN04 and SLN05 are required.

The codes listed for SLN09 apply to every occurrence of Data Element 235 in the SLN segment.

See Section III for complete U.P.C. and EAN code definitions.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|-------------|
| ➤ | SLN01 | 350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | M AN 1/20 |
| | SLN02 | 350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| ➤ | SLN03 | 662 Relationship Code Code indicating the relationship between entities D Delete I Included S Substituted | M ID 1/1 |
| | SLN04 | 380 Quantity Numeric value of quantity | C R 1/15 |
| | SLN05 | C001 COMPOSITE UNIT OF MEASURE To identify a composite unit of measure (See Figures Appendix for examples of use) | C COMPOSITE |
| ➤ | - 1 | 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | M ID 2/2 |
| | - 2 | 1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |
| | - 3 | 649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY | O R 1/10 |
| | - 4 | 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| | - 5 | 1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |
| | - 6 | 649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY | O R 1/10 |

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| | | | | | |
|---|------|---|---|----|------|
| - 7 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 8 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 9 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 10 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 11 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 12 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 13 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 14 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 15 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| SLN06 | 212 | Unit Price Price per unit of product, service, commodity, etc. | C | R | 1/17 |
| The price is sent with a decimal point only when needed, e.g., \$15.95 would be sent as "15.95", and \$29.00 would be sent as "29". | | | | | |
| To indicate a no charge item or free goods, SLN06 will contain a single zero (0) and SLN07 will contain code NC. | | | | | |
| SLN07 | 639 | Basis of Unit Price Code Code identifying the type of unit price for an item | O | ID | 2/2 |
| This data element is used to clarify or alter the basis of unit price. The unit price expressed in SLN06 is always in the same terms as the unit of measure in SLN05, unless otherwise specified in SLN07. | | | | | |
| LD Catalog Price per Dozen | | | | | |
| LE Catalog Price per Each | | | | | |
| NC No Charge | | | | | |
| PO Price per Ounce | | | | | |
| PP Price per Pound | | | | | |
| PR Promotion | | | | | |
| QT Quoted | | | | | |
| RD Retail Price per Dozen | | | | | |
| RE Retail Price per Each | | | | | |
| TD Contract Price per Dozen | | | | | |
| TE Contract Price per Each | | | | | |
| WD Wholesale Price per Dozen | | | | | |

| | | | | | |
|--------------|------------|---|--|-------------|------------|
| | | WE Wholesale Price per Each | | | |
| SLN08 | 662 | Relationship Code | | O ID | 1/1 |
| | | Code indicating the relationship between entities | | | |
| | | NOT USED BY THE RETAIL INDUSTRY | | | |
| SLN09 | 235 | Product/Service ID Qualifier | | C ID | 2/2 |
| | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | |
| | | BO Buyers Color | | | |
| | | CG Commodity Grouping | | | |
| | | Coordinates | | | |
| | | CM National Retail Federation Color Code | | | |
| | | This is the three digit NRF code. | | | |
| | | See External Code Source 88 in Section III for reference document. | | | |
| | | EN EAN/UCC - 13 | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | IB International Standard Book Number (ISBN) | | | |
| | | IN Buyer's Item Number | | | |
| | | IT Buyer's Style Number | | | |
| | | IZ Buyer's Size Code | | | |
| | | SM National Retail Federation Size Code | | | |
| | | This is the five digit NRF code. | | | |
| | | See External Code Source 88 in Section III for reference document. | | | |
| | | SZ Vendor Alphanumeric Size Code | | | |
| | | This is the code assigned by the vendor. | | | |
| | | UA U.P.C./EAN Case Code (2-5-5) | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UB U.P.C./EAN Multipack Code | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UC U.P.C. Suffix (Defines Packing Variations) | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UE U.P.C./EAN Module Code (2-5-5) | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UG Drug U.P.C. Consumer Package Code (1-4-6-1) | | | |
| | | See External Code Source 136 in Section III for reference document. | | | |
| | | UH Drug U.P.C. Shipping Container Code (1-2-4-6-1) | | | |
| | | See External Code Source 137 in Section III for reference document. | | | |
| | | UI U.P.C. Consumer Package Code (1-5-5) | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UK EAN/UCC - 14 | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UN U.P.C. Case Code Number (1-1-5-5) | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | UP UCC - 12 | | | |
| | | See External Code Source 41 in Section III for reference document. | | | |
| | | VA Vendor's Style Number | | | |
| | | VE Vendor Color | | | |
| | | VN Vendor's (Seller's) Item Number | | | |

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|--------------|------------|--|------------------|
| SLN10 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN11 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN12 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN13 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN14 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN15 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN16 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN17 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN18 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN19 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN20 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN21 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN22 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN23 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN24 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN25 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN26 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |
| SLN27 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C ID 2/2 |
| SLN28 | 234 | Product/Service ID Identifying number for a product or service | C AN 1/48 |

Segment: **PRF** Purchase Order Reference
Level: Detail - Item
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Semantic: 1 PRF04 is the date assigned by the purchaser to purchase order.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| PRF01 | 324 | Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number | M AN 1/22 |
| PRF02 | 328 | Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Retailer's release against the purchase order, if used | O AN 1/30 |
| PRF03 | 327 | Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set NOT USED BY THE RETAIL INDUSTRY | O AN 1/8 |
| PRF04 | 373 | Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Retailer's original purchase order date | O DT 8/8 |
| PRF05 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set NOT USED BY THE RETAIL INDUSTRY | O AN 1/20 |
| PRF06 | 367 | Contract Number Contract number | O AN 1/30 |
| PRF07 | 92 | Purchase Order Type Code Code specifying the type of Purchase Order NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |

Segment: PO4 Item Physical Details

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax: 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.

Semantic: 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: A 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".

B PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack). The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V (Pack/Inner Pack Usage) for usage examples.

This segment can be used to specify the weight for the item by using PO406 and PO407, and to specify the volume (cube) by using PO408 and PO409.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|--|--------------|--|------------|
| PO401 | 356 | Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container | O NO 1/6 |
| PO402 | 357 | Size Size of supplier units in pack | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO403 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO404 | 103 | Packaging Code 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 | C AN 3/5 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO405 | 187 | Weight Qualifier Code defining the type of weight | O ID 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO406 | 384 | Gross Weight per Pack Numeric value of gross weight per pack | C R 1/9 |
| PO407 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| See Section III for code list. | | | |
| PO408 | 385 | Gross Volume per Pack Numeric value of gross volume per pack | C R 1/9 |
| PO409 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| See Section III for code list. | | | |
| PO410 | 82 | Length Largest horizontal dimension of an object measured when the object is in the upright position | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO411 | 189 | Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO412 | 65 | Height Vertical dimension of an object measured when the object is in the upright position | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO413 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| PO414 | 810 | Inner Pack The number of eaches per inner container | O NO 1/6 |
| PO415 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described | O ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

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|--|-------------|---|-------------|-------------|
| PO416 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | C AN | 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |
| PO417 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN | 1/20 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |
| PO418 | 1470 | Number A generic number | O NO | 1/9 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |

Segment: PID Product/Item Description

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 200

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

- Syntax:**
- 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.

- Semantic:**
- 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:**
- A** 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.
 - B** Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - C** PID07 specifies the individual code list of the agency specified in PID03.

Notes: The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are maintained by the VICS EDI SMC and are only printed in this guideline.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|-----|
| PID01 | 349 | Item Description Type Code indicating the format of a description | M | ID | 1/1 |
| | | F Free-form The description will be found in PID05. | | | |
| | | S Structured (From Industry Code List) The description will be found in PID04. | | | |
| | | X Semi-structured (Code and Text) The description will be found in PID04 and PID05. | | | |
| PID02 | 750 | Product/Process Characteristic Code Code identifying the general class of a product or process characteristic | O | ID | 2/3 |
| | | 08 Product | | | |
| | | 73 Vendor color description | | | |
| | | 74 Vendor size description | | | |
| PID03 | 559 | Agency Qualifier Code Code identifying the agency assigning the code values | C | ID | 2/2 |
| | | VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document. | | | |

| | | | | |
|--------------|-------------|---|-------------|-------------|
| PID04 | 751 | Product Description Code A code from an industry code list which provides specific data about a product characteristic | C AN | 1/12 |
| | | CL Collateral GW Gift with purchase OS Size not within normal size range (odd size) PP Product sold only as part of a prepack (assortment) PW Purchase with pPurchase RN Product cannot be reordered RY Product can be reordered | | |
| PID05 | 352 | Description A free-form description to clarify the related data elements and their content | C AN | 1/80 |
| PID06 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described | O ID | 2/2 |
| | | NOT USED BY THE RETAIL INDUSTRY | | |
| PID07 | 822 | Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier | O AN | 1/15 |
| | | NOT USED BY THE RETAIL INDUSTRY | | |
| PID08 | 1073 | Yes/No Condition or Response Code Code indicating a Yes or No condition or response | O ID | 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | | |
| PID09 | 819 | Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) | O ID | 2/3 |
| | | NOT USED BY THE RETAIL INDUSTRY | | |

Segment: MEA Measurements

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001)

Syntax: 1 R03050608

At least one of MEA03, MEA05, MEA06 or MEA08 is required.

2 C0504

If MEA05 is present, then MEA04 is required.

3 C0604

If MEA06 is present, then MEA04 is required.

4 L07030506

If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

5 E0803

Only one of MEA08 or MEA03 may be present.

Semantic: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

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

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|--------------------|
| MEA01 | 737 | Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions SE Property Specifications These are the measurements of the area where the product is to be installed, e.g., window dimensions, fireplace box dimensions, etc. | O ID 2/2 |
| MEA02 | 738 | Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies DP Depth HT Height LN Length WD Width | O ID 1/3 |
| MEA03 | 739 | Measurement Value The value of the measurement | C R 1/20 |
| MEA04 | C001 | COMPOSITE UNIT OF MEASURE To identify a composite unit of measure (See Figures Appendix for examples of use) | C COMPOSITE |
| - 1 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | M ID 2/2 |
| - 2 | 1018 | Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY | O R 1/15 |

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|--|------|---|---|----|------|
| - 3 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 4 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 5 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 6 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 7 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 8 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 9 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 10 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 11 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 12 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 13 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 14 | 1018 | Exponent Power to which a unit is raised | O | R | 1/15 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| - 15 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| MEA05 | 740 | Range Minimum The value specifying the minimum of the measurement range | C | R | 1/20 |
| MEA06 | 741 | Range Maximum The value specifying the maximum of the measurement range | C | R | 1/20 |
| MEA07 | 935 | Measurement Significance Code Code used to benchmark, qualify or further define a measurement value | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

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|--|-------------|---|----------|-----------|------------|
| MEA08 | 936 | Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| MEA09 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| MEA10 | 1373 | Measurement Method or Device The method or device used to record the measurement | O | ID | 2/4 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: PKG Marking, Packaging, Loading

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 25

Purpose: To describe marking, packaging, loading, and unloading requirements

Syntax: 1 **R040506**

At least one of PKG04, PKG05 or PKG06 is required.

2 **C0403**

If PKG04 is present, then PKG03 is required.

3 **C0501**

If PKG05 is present, then PKG01 is required.

Semantic: 1 PKG04 should be used for industry-specific packaging description codes.

Comments: A Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.

B If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.

C Use PKG03 to indicate the organization that publishes the code list being referred to.

D Special marking or tagging data can be given in PKG05 (description).

Notes: This segment, at the item level, is used to notify the receiver that ticketing (item marking) was not as originally requested or expected. Part II of PKG04 describes what, if any, ticket is on the item. This is only for exceptions. The receiver assumes all items are marked as requested if not otherwise stated.

The codes in PKG04 are maintained by the VICS EDI SMC and are only printed in this guideline.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|-----------------|
| ➤ PKG01 | 349 | Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PKG04. | C ID 1/1 |
| PKG02 | 753 | Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described 34 Product Marking | O ID 1/5 |
| PKG03 | 559 | Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document. | C ID 2/2 |

| | | | | |
|--|------------|--|-------------|-------------|
| PKG04 | 754 | Packaging Description Code A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product | C AN | 1/7 |
| Part 1: Service Type (Positions 1&2) HN Hanger Service not as requested TN Ticketing Service not as requested | | | | |
| Part 2: Ticket Format Code (Positions 3&4) 01 No Ticket 02 Hang Tag (swiftach) 03 Gummed Label 04 Pin Ticket 05 String Ticket (string around button) 06 Hang Tag (securtach) 07 Dumbell Gum (jewelry) 08 Double Gummed Label (peel off on gummed label) 99 Non Standard Ticket | | | | |
| PKG05 | 352 | Description A free-form description to clarify the related data elements and their content | C AN | 1/80 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |
| PKG06 | 400 | Unit Load Option Code Code identifying loading or unloading a shipment | C ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | |

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax: 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.

Notes: This segment, at the item level, is used only in a standard carton pack structure, to specify the number, type and total weight of the shipping containers for the item (SKU).

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------|
| TD101 | 103 | Packaging Code 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 | O AN 3/5 |
| | | Part 1 | |
| | | BAG Bag | |
| | | CTN Carton | |
| | | PLT Pallet | |
| | | Part 2 | |
| | | 01 Aluminum | |
| | | 25 Corrugated or Solid | |
| | | 31 Fibre | |
| | | 76 Paper | |
| | | 79 Plastic | |
| | | 94 Wood | |
| TD102 | 80 | Lading Quantity Number of units (pieces) of the lading commodity | C NO 1/7 |
| TD103 | 23 | Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code | O ID 1/1 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD104 | 22 | Commodity Code Code describing a commodity or group of commodities | C AN 1/30 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD105 | 79 | Lading Description Description of an item as required for rating and billing purposes | O AN 1/50 |
| | | NOT USED BY THE RETAIL INDUSTRY | |
| TD106 | 187 | Weight Qualifier Code defining the type of weight | O ID 1/2 |
| | | G Gross Weight | |
| TD107 | 81 | Weight Numeric value of weight | C R 1/10 |

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|--|------------|---|----------|-----------|------------|
| TD108 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| See Section III for code list. | | | | | |
| TD109 | 183 | Volume Value of volumetric measure | C | R | 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD110 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 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.

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

Comments: A 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.

Notes: This segment, at the item level, is used only to specify the status of the item.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| TD501 | 133 | Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement NOT USED BY THE RETAIL INDUSTRY | O ID 1/2 |
| TD502 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) NOT USED BY THE RETAIL INDUSTRY | C ID 1/2 |
| TD503 | 67 | Identification Code Code identifying a party or other code NOT USED BY THE RETAIL INDUSTRY | C AN 2/80 |
| TD504 | 91 | Transportation Method/Type Code Code specifying the method or type of transportation for the shipment NOT USED BY THE RETAIL INDUSTRY | C ID 1/2 |
| TD505 | 387 | Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity NOT USED BY THE RETAIL INDUSTRY | C AN 1/35 |
| ➤ TD506 | 368 | Shipment/Order Status Code 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 BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date) | C ID 2/2 |

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- CC** Shipment Complete on (Date)
- CM** Shipment Complete with Additional Quantity
- CP** Partial Shipment on (Date), Considered No Backorder
- CS** Shipment Complete with Substitution
- DE** Deleted Order
- IC** Item Canceled
- IS** Item Represents Substitution from Original Order
- PR** Partial Shipment
- SS** Split Shipment

| | | | | | |
|--|------------|---|----------|-----------|-------------|
| TD507 | 309 | Location Qualifier Code identifying type of location | O | ID | 1/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD508 | 310 | Location Identifier Code which identifies a specific location | C | AN | 1/30 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD509 | 731 | Transit Direction Code The point of origin and point of direction | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD510 | 732 | Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD511 | 733 | Transit Time The numeric amount of transit time | C | R | 1/4 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD512 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD513 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | C | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD514 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier | O | ID | 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |
| TD515 | 26 | Country Code Code identifying the country | O | ID | 2/3 |
| NOT USED BY THE RETAIL INDUSTRY | | | | | |

Segment: TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 5

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Syntax: 1 R010204
At least one of TD401, TD402 or TD404 is required.

2 C0203
If TD402 is present, then TD403 is required.

Semantic: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES | | |
|-----------|--------------|--|------------|----|------|
| TD401 | 152 | Special Handling Code Code specifying special transportation handling instructions CO No Marshalling Required for Hazardous Materials DA Dangerous EX Explosive Flammable Gas FG Flammable Gas FL Flammable FP Flammable Poison Gas HM Endorsed as Hazardous Material NPR No Placards Required NW In Case of Fire Do Not Use Water PG Poisonous Gas RM Radioactive Material UN Unload as Placarded | C | ID | 2/3 |
| TD402 | 208 | Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209) 9 Title 49, Code of Federal Regulations (CFR) See External Code Source 52 in Section III for reference document. U United Nations See External Code Source 53 in Section III for reference document. | C | ID | 1/1 |
| TD403 | 209 | Hazardous Material Class Code Code specifying the kind of hazard for a material | C | AN | 1/4 |
| TD404 | 352 | Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY | C | AN | 1/80 |
| TD405 | 1073 | Yes/No Condition or Response Code Code indicating a Yes or No condition or response NOT USED BY THE RETAIL INDUSTRY | O | ID | 1/1 |

Segment: **REF** Reference Identification
Level: Detail - Item
Loop: HL
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax: 1 **R0203**
 At least one of REF02 or REF03 is required.
Semantic: 1 REF04 contains data relating to the value cited in REF02.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|--------------------|
| ➤ REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification CO Customer Order Number Customer of retailer SE Serial Number | M ID 2/3 |
| ➤ REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C AN 1/50 |
| REF03 | 352 | Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY | C AN 1/80 |
| REF04 | C040 | REFERENCE IDENTIFIER To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier NOT USED BY THE RETAIL INDUSTRY | O COMPOSITE |

Segment: DTM Date/Time Reference

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 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.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|--|------------------|
| ➤ | DTM01 | 374 Date/Time Qualifier Code specifying type of date or time, or both date and time 036 Expiration Used for perishable products | M ID 3/3 |
| ➤ | DTM02 | 373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | C DT 8/8 |
| | DTM03 | 337 Time 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) NOT USED BY THE RETAIL INDUSTRY | C TM 4/8 |
| | DTM04 | 623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY | O ID 2/2 |
| | DTM05 | 1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY | C ID 2/3 |
| | DTM06 | 1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY | C AN 1/35 |

Segment: **SAC Service, Promotion, Allowance, or Charge Information**

Level: Detail - Item

Loop: HL/SAC **Usage:** Optional **Max Use:** >1

Usage: Mandatory

Max Use: 1

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax: 1 **R0203**

At least one of SAC02 or SAC03 is required.

2 **P0304**

If either SAC03 or SAC04 is present, then the other is required.

3 **P0607**

If either SAC06 or SAC07 is present, then the other is required.

4 **P0910**

If either SAC09 or SAC10 is present, then the other is required.

5 **C1110**

If SAC11 is present, then SAC10 is required.

6 **L130204**

If SAC13 is present, then at least one of SAC02 or SAC04 is required.

7 **C1413**

If SAC14 is present, then SAC13 is required.

8 **C1615**

If SAC16 is present, then SAC15 is required.

Semantic: 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.

2 SAC05 is the total amount for the service, promotion, allowance, or charge.

3 If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

4 SAC08 is the allowance or charge rate per unit.

5 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

6 SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

7 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

8 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

9 SAC16 is used to identify the language being used in SAC15.

Comments: **A** SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.

B In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: **There is one segment for each Allowance, Charge, Service, or Promotion being specified. If this segment appears in the item level of the transaction set, the data applies only to that line item.**

This segment is primarily used to indicate free goods or ticketing service (D170 or I060 in SAC02 respectively).

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------|
| ➤ SAC01 | 248 | Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge | M ID 1/1 |
| ➤ SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge | C ID 4/4 |
| SAC03 | 559 | Agency Qualifier Code Code identifying the agency assigning the code values NOT USED BY THE RETAIL INDUSTRY | C ID 2/2 |
| SAC04 | 1301 | Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge NOT USED BY THE RETAIL INDUSTRY | C AN 1/10 |
| SAC05 | 610 | Amount Monetary amount When SAC01 contains code A or code C, then this data element is required. This will resolve any differences between the sender's and receiver's system calculations of amounts, i.e., rounding errors when allowances or charges are expressed in percentages or rates. | O N2 1/15 |
| SAC06 | 378 | Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated 1 Item List Cost 2 Item Net Cost 3 Discount/Gross All allowances are off the gross price including cash discount. 4 Discount/Net All allowances are off the gross price. Cash discounts are off the net. 5 Base Price per Unit Line item discount 6 Base Price Amount 7 Base Price Amount Less Previous Discount Declining balance method | C ID 1/1 |
| SAC07 | 332 | Percent Percent expressed as a percent The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2". | C R 1/6 |
| SAC08 | 118 | Rate Rate expressed in the standard monetary denomination for the currency specified | O R 1/9 |
| SAC09 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken See Section III for code list. | C ID 2/2 |
| SAC10 | 380 | Quantity Numeric value of quantity When SAC02 contains code D170, this data element is required and will contain the quantity of free goods. The unit of measure is in SAC09. SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to the service, promotion, allowance, or charge. | C R 1/15 |
| SAC11 | 380 | Quantity Numeric value of quantity | O R 1/15 |

| | | | |
|--------------|------------|--|------------------|
| SAC12 | 331 | Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge | O ID 2/2 |
| | 01 | Bill Back The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice. The amount will not be reflected in the invoice total amount. | |
| | 02 | Off Invoice The allowance or charge amount will be reflected in the total transaction amount, e.g., Total Invoice Amount = Merchandise Price + Charges - Allowances. | |
| | 03 | Vendor Check to Customer The vendor will issue a check directly to the customer of the retailer, or end consumer, for the allowance or charge amount. The amount is not reflected in the total invoice amount. | |
| | 04 | Credit Customer Account The retailer's account will be credited for the amount of the allowance or charge. The amount is not reflected in the total invoice amount. | |
| | 05 | Charge to be Paid by Vendor The vendor is responsible for the allowance or charge amount. The exact method of adjudication has been agreed to by the trading partners. The amount will not be reflected in the total invoice amount. | |
| | 06 | Charge to be Paid by Customer When the order/item is a direct ship to the customer, or end consumer of the retailer, the allowance or charge amount is the responsibility of the customer or end consumer. If it is not a drop ship to the customer of the retailer, then the allowance or charge amount is the responsibility of the retailer. The exact method of adjudication has been agreed to by the trading partners. The amount will not be reflected in the total invoice amount. | |
| SAC13 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C AN 1/50 |
| SAC14 | 770 | Option Number A unique number identifying available promotion or allowance options when more than one is offered | O AN 1/20 |
| SAC15 | 352 | Description A free-form description to clarify the related data elements and their content | C AN 1/80 |
| SAC16 | 819 | Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) See External Code Source 102 in Section III for reference document. | O ID 2/3 |

Segment: CTT Transaction Totals

Level: Summary

Loop: ___

Usage: Optional

Max Use: 1

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

Syntax: 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: A This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|---|--------------|--|------------|
| ▶ CTT01 | 354 | Number of Line Items Total number of line items in the transaction set | M NO 1/6 |
| The number of HL segments present in the transaction set | | | |
| CTT02 | 347 | Hash Total 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. | O R 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| CTT03 | 81 | Weight Numeric value of weight | C R 1/10 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| CTT04 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| CTT05 | 183 | Volume Value of volumetric measure | C R 1/8 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| CTT06 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C ID 2/2 |
| NOT USED BY THE RETAIL INDUSTRY | | | |
| CTT07 | 352 | Description A free-form description to clarify the related data elements and their content | O AN 1/80 |
| NOT USED BY THE RETAIL INDUSTRY | | | |

Segment: SE Transaction Set Trailer

Level: Summary

Loop: ___

Usage: Mandatory

Max Use: 1

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)

Comments: A SE is the last segment of each transaction set.

Data Element Summary

| REF. DES. | DATA ELEMENT | NAME | ATTRIBUTES |
|-----------|--------------|---|------------------|
| ➤ SE01 | 96 | Number of Included Segments Total number of segments included in a transaction set including ST and SE segments | M NO 1/10 |
| ➤ SE02 | 329 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This must be the same number as is in the ST segment (ST02) for the transaction set. | M AN 4/9 |

