



856 Ship Notice/Manifest - Canada

VICS EDI

Version: 007010VICS

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856 Ship Notice/Manifest - Canada

Functional Group=SH

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------|-----------|-----------------------------------|------------|----------------|---------------|--------------|--------------|-------------|
| 0100 | ST | Transaction Set Header | M | 1 | | | Must use | 14 |
| 0200 | BSN | Beginning Segment for Ship Notice | M | 1 | | | Must use | 15 |
| * 0400 | DTM | Date/Time Reference | O | 10 | | | | N/A |

Detail:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|----------------------|-----------|---|------------|----------------|---------------|---------------|-----------------|-------------|
| LOOP ID - HL | | | | | | 200000 | C2/0100L | 17 |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 18 |
| * 0200 | LIN | Item Identification | O | 1 | | | | N/A |
| * 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | | N/A |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |
| * 0500 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| * 0600 | PO4 | Item Physical Details | O | 1 | | | | N/A |
| * 0700 | PID | Product/Item Description | O | 200 | | | | N/A |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | Used | 19 |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | Used | 21 |
| LOOP ID - TD3 | | | | | | 12 | | 23 |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | Used | 24 |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | Used | 25 |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| 1500 | REF | Reference Information | O | >1 | | | Used | 26 |
| 1510 | PER | Administrative | O | 3 | | | Used | 27 |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| Communications Contact | | | | | | | | |
| * LOOP ID - LH1 | | | | | 100 | | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification Information | O | 4 | | | | N/A |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | | | N/A |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | | | N/A |
| * LOOP ID - CLD | | | | | 200 | | | N/A |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |
| * 1900 | MAN | Marks and Numbers Information | O | >1 | | | | N/A |
| 2000 | DTM | Date/Time Reference | O | 10 | | | Used | 29 |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | | N/A |
| LOOP ID - N1 | | | | | 200 | | | 30 |
| 2200 | N1 | Party Identification | O | 1 | | | Used | 31 |
| 2300 | N2 | Additional Name Information | O | 2 | | | Used | 33 |
| 2400 | N3 | Party Location | O | 2 | | | Used | 34 |
| 2500 | N4 | Geographic Location | O | 1 | | | Used | 35 |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | >1 | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| * 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | >1 | | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| LOOP ID - HL | | | | | 200000 | C2/0100L | | 36 |
| 0100 | HL | Hierarchical Level - Unit Load | O | 1 | | C2/0100 | Used | 37 |
| * 0200 | LIN | Item Identification | O | 1 | | | | N/A |
| * 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | | N/A |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |
| * 0500 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| * 0600 | PO4 | Item Physical Details | O | 1 | | | | N/A |
| * 0700 | PID | Product/Item Description | O | 200 | | | | N/A |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| * 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | | N/A |
| * 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | | N/A |
| LOOP ID - TD3 | | | | | 12 | | | 38 |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | Used | 39 |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| * 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | | N/A |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| * 1500 | REF | Reference Information | O | >1 | | | | N/A |
| * 1510 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LH1 | | | | | 100 | | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification | O | 4 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|-------------------|--------------|--------------|-------------|
| | | Information | | | | | | |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | | | N/A |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | | | N/A |
| * LOOP ID - CLD | | | | | <u>200</u> | | | N/A |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | | Used | 40 |
| * 2000 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | | N/A |
| * LOOP ID - N1 | | | | | <u>200</u> | | | N/A |
| * 2200 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2300 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2400 | N3 | Party Location | O | 2 | | | | N/A |
| * 2500 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | <u>≥1</u> | | | N/A |
| * 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and | O | 1 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| | | Services | | | | | | |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | >1 | | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| LOOP ID - HL | | | | | 200000 | C2/0100L | | 41 |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 42 |
| * 0200 | LIN | Item Identification | O | 1 | | | | N/A |
| * 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | | N/A |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |
| 0500 | PRF | Purchase Order Reference | O | 1 | | | Used | 43 |
| * 0600 | PO4 | Item Physical Details | O | 1 | | | | N/A |
| * 0700 | PID | Product/Item Description | O | 200 | | | | N/A |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | Used | 44 |
| * 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | | N/A |
| * LOOP ID - TD3 | | | | | 12 | | | N/A |
| * 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| * 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | | N/A |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| 1500 | REF | Reference Information | O | >1 | | | Used | 46 |
| * 1510 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LH1 | | | | | 100 | | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification Information | O | 4 | | | | N/A |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | | | N/A |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | | | N/A |
| * LOOP ID - CLD | | | | | | | | N/A |
| | | | | 200 | | | | |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |
| * 1900 | MAN | Marks and Numbers Information | O | >1 | | | | N/A |
| * 2000 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | | N/A |
| LOOP ID - N1 | | | | | | | | 48 |
| | | | | 200 | | | | |
| 2200 | N1 | Party Identification | O | 1 | | | Used | 49 |
| 2300 | N2 | Additional Name Information | O | 2 | | | Used | 51 |
| 2400 | N3 | Party Location | O | 2 | | | Used | 52 |
| 2500 | N4 | Geographic Location | O | 1 | | | Used | 53 |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | | | | N/A |
| | | | | >1 | | | | |
| * 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | | | | N/A |
| | | | | 10 | | | | |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code | M | 100 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> Identification | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|---------------|-----------------|-------------|
| * LOOP ID - V1 | | | | | | >1 | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| LOOP ID - HL | | | | | | 200000 | C2/0100L | 54 |
| 0100 | HL | Hierarchical Level | O | 1 | | C2/0100 | Used | 55 |
| * 0200 | LIN | Item Identification | O | 1 | | | | N/A |
| * 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | | N/A |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |
| * 0500 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| * 0600 | PO4 | Item Physical Details | O | 1 | | | | N/A |
| * 0700 | PID | Product/Item Description | O | 200 | | | | N/A |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| * 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | | N/A |
| * 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | | N/A |
| * LOOP ID - TD3 | | | | | | 12 | | N/A |
| * 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| * 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | | N/A |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| * 1500 | REF | Reference Information | O | >1 | | | | N/A |
| * 1510 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LH1 | | | | | | 100 | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification Information | O | 4 | | | | N/A |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material | O | 10 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| | | Identifying Reference Numbers | | | | | | |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | | | N/A |
| * LOOP ID - CLD | | | | | | 200 | | N/A |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | | Used | 56 |
| * 2000 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | Used | 57 |
| * LOOP ID - N1 | | | | | | 200 | | N/A |
| * 2200 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2300 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2400 | N3 | Party Location | O | 2 | | | | N/A |
| * 2500 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | | ≥1 | | N/A |
| * 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | | 10 | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | | ≥1 | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|-------------------------------|-----------|---|------------|----------------|---------------|----------------------|------------------------|-------------|
| <u>LOOP ID - HL</u> | | | | | | <u>200000</u> | <u>C2/0100L</u> | 60 |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 61 |
| 0200 | LIN | Item Identification | O | 1 | | | Used | 62 |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | Used | 65 |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |
| * 0500 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| * 0600 | PO4 | Item Physical Details | O | 1 | | | | N/A |
| * 0700 | PID | Product/Item Description | O | 200 | | | | N/A |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| * 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | | N/A |
| * 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | | N/A |
| * <u>LOOP ID - TD3</u> | | | | | | <u>12</u> | | N/A |
| * 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| * 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | | N/A |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| * 1500 | REF | Reference Information | O | >1 | | | | N/A |
| * 1510 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * <u>LOOP ID - LH1</u> | | | | | | <u>100</u> | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification Information | O | 4 | | | | N/A |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | | | N/A |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material | O | 1 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> Information | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|---------------|---------------|-----------------|-------------|
| * LOOP ID - CLD | | | | | | 200 | | N/A |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | | Used | 66 |
| * 2000 | DTM | Date/Time Reference | O | 10 | | | | N/A |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | | N/A |
| * LOOP ID - N1 | | | | | | 200 | | N/A |
| * 2200 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2300 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2400 | N3 | Party Location | O | 2 | | | | N/A |
| * 2500 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | | ≥1 | | N/A |
| * 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | | 10 | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | | ≥1 | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |
| LOOP ID - HL | | | | | | 200000 | C2/0100L | 68 |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 69 |
| 0200 | LIN | Item Identification | O | 1 | | | Used | 70 |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | Used | 73 |
| * 0400 | SLN | Subline Item Detail | O | 1000 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|---|------------|----------------|---------------|-------------------|--------------|-------------|
| * 0500 | PRF | Purchase Order Reference | O | 1 | | | | N/A |
| 0600 | PO4 | Item Physical Details | O | 1 | | | Used | 74 |
| 0700 | PID | Product/Item Description | O | 200 | | | Used | 80 |
| * 0800 | MEA | Measurements | O | 40 | | | | N/A |
| * 0900 | PWK | Paperwork | O | 25 | | | | N/A |
| * 1000 | PKG | Marking, Packaging, Loading | O | 25 | | | | N/A |
| * 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | | | N/A |
| * 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | | N/A |
| * LOOP ID - TD3 | | | | | | <u>12</u> | | N/A |
| * 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | | N/A |
| * 1350 | AT9 | Trailer or Container Dimension and Weight | O | 1 | | | | N/A |
| 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | | Used | 82 |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| 1500 | REF | Reference Information | O | >1 | | | Used | 84 |
| * 1510 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * LOOP ID - LH1 | | | | | | <u>100</u> | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |
| * 1530 | LH2 | Hazardous Classification Information | O | 4 | | | | N/A |
| * 1540 | LH3 | Hazardous Material Shipping Name Information | O | 12 | | | | N/A |
| * 1550 | LFH | Free-form Hazardous Material Information | O | 20 | | | | N/A |
| * 1560 | LEP | EPA Required Data | O | >1 | | | | N/A |
| * 1570 | LH4 | Canadian Dangerous Requirements | O | 4 | | | | N/A |
| * 1580 | LHT | Transborder Hazardous Requirements | O | 3 | | | | N/A |
| * 1590 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | | | N/A |
| * 1600 | PER | Administrative Communications Contact | O | 5 | | | | N/A |
| * 1610 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | | | N/A |
| * LOOP ID - CLD | | | | | | <u>200</u> | | N/A |
| * 1700 | CLD | Load Detail | O | 1 | | | | N/A |
| * 1800 | REF | Reference Information | O | 200 | | | | N/A |
| * 1850 | DTP | Date or Time or Period | O | 1 | | | | N/A |

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| * 1900 | MAN | Marks and Numbers Information | O | >1 | | | | N/A |
| 2000 | DTM | Date/Time Reference | O | 10 | | | Used | 85 |
| * 2100 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | | | N/A |
| * LOOP ID - N1 | | | | | 200 | | | N/A |
| * 2200 | N1 | Party Identification | O | 1 | | | | N/A |
| * 2300 | N2 | Additional Name Information | O | 2 | | | | N/A |
| * 2400 | N3 | Party Location | O | 2 | | | | N/A |
| * 2500 | N4 | Geographic Location | O | 1 | | | | N/A |
| * 2600 | REF | Reference Information | O | 12 | | | | N/A |
| * 2700 | PER | Administrative Communications Contact | O | 3 | | | | N/A |
| * 2800 | FOB | F.O.B. Related Instructions | O | 1 | | | | N/A |
| * 2900 | SDQ | Destination Quantity | O | 50 | | | | N/A |
| * 3000 | ETD | Excess Transportation Detail | O | 1 | | | | N/A |
| * 3100 | CUR | Currency | O | 1 | | | | N/A |
| * LOOP ID - SAC | | | | | ≥1 | | | N/A |
| 3200 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | | N/A |
| * 3250 | CUR | Currency | O | 1 | | | | N/A |
| * 3300 | GF | Furnished Goods and Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | 10 | | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | ≥1 | | | N/A |
| * 3600 | V1 | Vessel Identification | O | 1 | | | | N/A |
| * 3700 | R4 | Port or Terminal | O | >1 | | | | N/A |
| * 3800 | DTM | Date/Time Reference | O | >1 | | | | N/A |

Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> | <u>Page</u> |
|------------|-----------|-------------------------|------------|----------------|---------------|--------------|--------------|-------------|
| 0100 | CTT | Transaction Totals | O | 1 | | N3/0100 | Used | 86 |
| 0200 | SE | Transaction Set Trailer | M | 1 | | | Must use | 87 |

Notes:

3/0100 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

- 2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
- 2/0100 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
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ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------------------|------------|-------------|----------------|--------------|
| ST01 | 143 | Transaction Set Identifier Code | M | ID | 3/3 | Must use |

Description: Code identifying a Transaction Set

CodeList Summary (Total Codes: 321, Included: 1)

Code Name

856 Ship Notice/Manifest

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

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

Note 1: *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.*

Semantics:

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

BSN Beginning Segment for Ship Notice

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 5 |

User Option (Usage): Must use

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

Note 1:

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.

Element Summary:

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

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 76, Included: 2)

Code Name

| | |
|----|-----------|
| 00 | Original |
| 07 | Duplicate |

| | | | | | | |
|-------|-----|-------------------------|---|----|------|----------|
| BSN02 | 396 | Shipment Identification | M | AN | 2/30 | Must use |
|-------|-----|-------------------------|---|----|------|----------|

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

Note 1: *Shipment Identification is a unique control number, assigned by the original shipper, to identify the original shipment transaction.*

Note 2: *When the 03-Delete code is used in BSN01, the value in BSN02 shall be the 00-Original shipment identification number from a prior 856 transaction.*

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| BSN03 | 373 | Date | M | DT | 8/8 | Must use |
|-------|-----|------|---|----|-----|----------|

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

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| BSN04 | 337 | Time | M | TM | 4/8 | Must use |
|-------|-----|------|---|----|-----|----------|

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

| | | | | | | |
|-------|------|-----------------------------|---|----|-----|----------|
| BSN05 | 1005 | Hierarchical Structure Code | O | ID | 4/4 | Must use |
|-------|------|-----------------------------|---|----|-----|----------|

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

Note 1: *To avoid potential confusion about an order, for any Hierarchical Structure Code chosen, if the Order Hierarchy (HL) is used, the PRF segment shall not be used in any other level of the 856 Ship Notice/Manifest.*

CodeList Summary (Total Codes: 83, Included: 1)

Code Name

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

Code Name

Note 1:

Pick and Pack Structure

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Loop Hierarchical Level

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

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|---|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | Used |
| 1200 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | Used |
| 1300 | | Loop TD3 | O | | 12 | Used |
| 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | Used |
| 1500 | REF | Reference Information | O | >1 | | Used |
| 1510 | PER | Administrative Communications Contact | O | 3 | | Used |
| 2000 | DTM | Date/Time Reference | O | 10 | | Used |
| 2200 | | Loop N1 | O | | 200 | Used |

HL Hierarchical Level

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

User Option (Usage): Must use

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

Note 1:

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.

Element Summary:

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

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

Note 1: *The value for this level (shipment) is 1.*

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

Description: Code specifying the characteristic of a level in a hierarchical structure

CodeList Summary (Total Codes: 251, Included: 1)

Code Name

S Shipment

Comments:

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

TD1 Carrier Details (Quantity and Weight)

| | |
|-------------------|-------------|
| Pos: 1100 | Max: 20 |
| Detail - Optional | |
| Loop: HL | Elements: 7 |

User Option (Usage): Used

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

Note 1:

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).

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| TD101 | 103 | Packaging Code | O | AN | 3/5 | Used |

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

CodeList Summary (Total Codes: 157, Included: 7)

Code Name

AAA Pallet, Returnable

BAG Bag

CTN Carton

MIX Mixed Container Types

Description: More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)

Note 1:

Can be used only with code 71 in Part 2

PLT Pallet

SLP Slip Sheet

Description: Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation

SRW Shrink Wrap

Description: In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents

CodeList Summary (Total Codes: 60, Included: 3)

Code Name

25 Corrugated or Solid

76 Paper

94 Wood

| | | | | | | |
|-------|----|------------------------|---|----|-----|------|
| TD102 | 80 | Lading Quantity | X | N0 | 1/7 | Used |
|-------|----|------------------------|---|----|-----|------|

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

Note 1: *The number of packages in the shipment as described in TD101*

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

Description: Code specifying the type of weight

CodeList Summary (Total Codes: 53, Included: 1)

| | | <u>Code</u> | <u>Name</u> | | | | |
|-------|-----|--|------------------|---|----|------|------|
| | | G | Gross Weight | | | | |
| TD107 | 81 | Weight | | X | R | 1/10 | Used |
| | | Description: Numeric value of weight | | | | | |
| TD108 | 355 | Unit or Basis for Measurement Code | | X | ID | 2/2 | Used |
| | | Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | | |
| | | Note 1: See Section III for code list. | | | | | |
| | | CodeList Summary (Total Codes: 908, Included: 3) | | | | | |
| | | <u>Code</u> | <u>Name</u> | | | | |
| | | 2W | Bin | | | | |
| | | Description: Storage container used as a unit of measurement | | | | | |
| | | KG | Kilogram | | | | |
| | | LB | Pound | | | | |
| TD109 | 183 | Volume | | X | R | 1/8 | Used |
| | | Description: Value of volumetric measure | | | | | |
| | | Note 1: Gross volume | | | | | |
| TD110 | 355 | Unit or Basis for Measurement Code | | X | ID | 2/2 | Used |
| | | Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | | |
| | | Note 1: See Section III for code list. | | | | | |
| | | CodeList Summary (Total Codes: 908, Included: 13) | | | | | |
| | | <u>Code</u> | <u>Name</u> | | | | |
| | | BA | Bale | | | | |
| | | BG | Bag | | | | |
| | | BO | Bottle | | | | |
| | | BX | Box | | | | |
| | | CA | Case | | | | |
| | | CN | Can | | | | |
| | | CT | Carton | | | | |
| | | DS | Display | | | | |
| | | DZ | Dozen | | | | |
| | | EA | Each | | | | |
| | | PK | Package | | | | |
| | | PL | Pallet/Unit Load | | | | |
| | | RL | Roll | | | | |

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

TD5 Carrier Details (Routing Sequence/Transit Time)

| | |
|-------------------|-------------|
| Pos: 1200 | Max: 12 |
| Detail - Optional | |
| Loop: HL | Elements: 6 |

User Option (Usage): Used

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

Note 1:

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| TD501 | 133 | Routing Sequence Code | O | ID | 1/2 | Used |

Description: Code specifying the relationship of a carrier to a specific shipment movement

CodeList Summary (Total Codes: 24, Included: 13)

Code Name

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

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

CodeList Summary (Total Codes: 256, Included: 4)

Code Name

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

Note 1:

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 |

Code Name

UL Global Location Number (GLN)

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

See External Code Source 583 in Section III for reference document.

| | | | | | | |
|-------|----|----------------------------|---|----|------|------|
| TD503 | 67 | Identification Code | X | AN | 2/80 | Used |
|-------|----|----------------------------|---|----|------|------|

Description: Code identifying a party or other code

| | | | | | | |
|-------|----|--|---|----|-----|------|
| TD504 | 91 | Transportation Method/Type Code | X | ID | 1/2 | Used |
|-------|----|--|---|----|-----|------|

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

CodeList Summary (Total Codes: 81, Included: 3)

Code Name

H Customer Pickup

M Motor (Common Carrier)

R Rail

| | | | | | | |
|-------|-----|----------------|---|----|------|------|
| TD505 | 387 | Routing | X | AN | 1/35 | Used |
|-------|-----|----------------|---|----|------|------|

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

| | | | | | | |
|-------|-----|-----------------------------------|---|----|-----|------|
| TD506 | 368 | Shipment/Order Status Code | X | ID | 2/2 | Used |
|-------|-----|-----------------------------------|---|----|-----|------|

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

CodeList Summary (Total Codes: 102, Included: 1)

Code Name

CC Shipment Complete on (Date)

Syntax Rules:

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

Semantics:

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

Comments:

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

Loop Carrier Details (Equipment)

| | |
|-----------|---------------|
| Pos: 1300 | Repeat: 12 |
| Optional | |
| Loop: TD3 | Elements: N/A |

User Option (Usage): Used

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

Loop Summary:

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

TD3 Carrier Details (Equipment)

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

User Option (Usage): Used

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

Note 1:

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------------|------------|-------------|----------------|--------------|
| TD301 | 40 | Equipment Description Code | X | ID | 2/2 | Used |

Description: Code identifying type of equipment used for shipment

CodeList Summary (Total Codes: 150, Included: 10)

Code Name

| | |
|----|---|
| 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 |
| CZ | Refrigerated Container |
| RC | Refrigerated (Reefer) Car |
| TA | Trailer, Heated/Insulated/Ventilated |
| TL | Trailer (not otherwise specified) |

| | | | | | | |
|-------|-----|-------------------|---|----|-----|------|
| TD302 | 206 | Equipment Initial | O | AN | 1/4 | Used |
|-------|-----|-------------------|---|----|-----|------|

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

Note 1: See *External Code Source 17 in Section III* for reference document.

| | | | | | | |
|-------|-----|------------------|---|----|------|------|
| TD303 | 207 | Equipment Number | X | AN | 1/15 | Used |
|-------|-----|------------------|---|----|------|------|

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

Syntax Rules:

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

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

| | |
|-------------------|-------------|
| Pos: 1400 | Max: 5 |
| Detail - Optional | |
| Loop: HL | Elements: 1 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| TD401 | 152 | Special Handling Code | X | ID | 2/3 | Must use |

Description: Code specifying special transportation handling instructions

Note 1: See Section III for code list.

CodeList Summary (Total Codes: 586, Included: 6)

Code Name

| | | |
|----|--|--|
| CC | Container, Consolidator Load | Description: Full container |
| CF | Container, Factory Load | Description: Full container, not to be opened for consolidation |
| LN | Less Than Container, Consolidator Load | |
| LR | Less Than Container, Factory Load | |
| TC | Trailer, Consolidator Load | Description: Full trailer |
| TF | Trailer, Factory Load | Description: Full trailer, not to be opened for consolidation |

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

Semantics:

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.

REF Reference Information

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

User Option (Usage): Used

Purpose: To specify identifying information

Note 1:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| REF01 | 128 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code identifying the Reference Identification

CodeList Summary (Total Codes: 1835, Included: 5)

Code Name

| | |
|-----|--|
| BM | Bill of Lading Number |
| CN | Carrier's Reference Number (PRO/Invoice) |
| MB | Master Bill of Lading |
| UCB | VICS Bill of Lading Number (17 Digits) |

Note 1:

See External Code Source 852 in Section III for reference document.

| | |
|-----|---|
| UCM | VICS Master Bill of Lading Number (17 Digits) |
|-----|---|

Note 1:

See External Code Source 852 in Section III for reference document.

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | X | AN | 1/80 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

| | |
|-------------------|-------------|
| Pos: 1510 | Max: 3 |
| Detail - Optional | |
| Loop: HL | Elements: 8 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--|-----------|---------------------------------------|------------|-------------|----------------|--------------|
| PER01 | 366 | Contact Function Code | M | ID | 2/2 | Must use |
| Description: Code identifying the major duty or responsibility of the person or group named | | | | | | |
| CodeList Summary (Total Codes: 241, Included: 1) | | | | | | |
| Code Name | | | | | | |
| DI Delivery Instructions Contact | | | | | | |
| PER02 | 93 | Name | O | AN | 1/60 | Used |
| Description: Free-form name | | | | | | |
| PER03 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
| Description: Code identifying the type of communication number | | | | | | |
| CodeList Summary (Total Codes: 43, Included: 3) | | | | | | |
| Code Name | | | | | | |
| EM Electronic Mail | | | | | | |
| FX Facsimile | | | | | | |
| TE Telephone | | | | | | |
| PER04 | 364 | Communication Number | X | AN | 1/2048 | Used |
| Description: Complete communications number including country or area code when applicable | | | | | | |
| PER05 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
| Description: Code identifying the type of communication number | | | | | | |
| CodeList Summary (Total Codes: 43, Included: 3) | | | | | | |
| Code Name | | | | | | |
| EM Electronic Mail | | | | | | |
| FX Facsimile | | | | | | |
| TE Telephone | | | | | | |
| PER06 | 364 | Communication Number | X | AN | 1/2048 | Used |
| Description: Complete communications number including country or area code when applicable | | | | | | |
| PER07 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
| Description: Code identifying the type of communication number | | | | | | |
| CodeList Summary (Total Codes: 43, Included: 3) | | | | | | |

Code Name

EM Electronic Mail

FX Facsimile

TE Telephone

PER08 364 **Communication Number** X AN 1/2048 Used

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

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

DTM Date/Time Reference

| | |
|-------------------|-------------|
| Pos: 2000 | Max: 10 |
| Detail - Optional | |
| Loop: HL | Elements: 3 |

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

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

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

Note 1: See Section III for code list.

CodeList Summary (Total Codes: 1316, Included: 6)

Code Name

011 Shipped
 017 Estimated Delivery
 067 Current Schedule Delivery
 068 Current Schedule Ship
 AA1 Estimated Point of Arrival
 AA2 Estimated Point of Discharge

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| DTM02 | 373 | Date | X | DT | 8/8 | Must use |
|-------|-----|------|---|----|-----|----------|

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

| | | | | | | |
|-------|-----|------|---|----|-----|------|
| DTM03 | 337 | Time | X | TM | 4/8 | Used |
|-------|-----|------|---|----|-----|------|

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

Syntax Rules:

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

Loop Party Identification

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

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|
| 2200 | N1 | Party Identification | O | 1 | | Used |
| 2300 | N2 | Additional Name Information | O | 2 | | Used |
| 2400 | N3 | Party Location | O | 2 | | Used |
| 2500 | N4 | Geographic Location | O | 1 | | Used |

N1 Party Identification

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

User Option (Usage): Used

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

Note 1:

N103 and N104 are required except when N101 contains code MA or OB, or for direct-to-consumer when N101 contains code ST.

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. 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.

Element Summary:

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

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

CodeList Summary (Total Codes: 1532, Included: 3)

Code Name

MA Party for whom Item is Ultimately Intended

Note 1:

Ultimate receiver

SF Ship From

ST Ship To

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

Description: Free-form name

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

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

CodeList Summary (Total Codes: 256, Included: 5)

Code Name

1 D-U-N-S Number, Dun & Bradstreet

Note 1:

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

Note 1:

See External Code Source 16 in Section III for reference document.

21 Health Industry Number (HIN)

Note 1:

See External Code Source 121 in Section III for reference document.

UL Global Location Number (GLN)

Code Name

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

*This is the 13-digit Global Location Number (GLN).
See External Code Source 583 in Section III for reference document.*

UM GS1 Global Location Number with Extension Component

Description: A globally unique 13-digit code with a one to twenty character extension component used, for the identification of a legal or physical location

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

Description: Code identifying a party or other code

Note 1: *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.*

Syntax Rules:

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

Comments:

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

N2 Additional Name Information

| | |
|-------------------|-------------|
| Pos: 2300 | Max: 2 |
| Detail - Optional | |
| Loop: N1 | Elements: 2 |

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| N201 | 93 | Name | M | AN | 1/60 | Must use |
| | | Description: Free-form name | | | | |
| N202 | 93 | Name | O | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |

N3 Party Location

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

| | |
|--------------------------|--------------------|
| Pos: 2500 | Max: 1 |
| Detail - Optional | |
| Loop: N1 | Elements: 5 |

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Note 1:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N401 | 19 | City Name | O | AN | 2/30 | Used |
| | | Description: Free-form text for city name | | | | |
| N402 | 156 | State or Province Code | X | ID | 2/2 | Used |
| | | Description: Code specifying the Standard State/Province as defined by appropriate government agency | | | | |
| | | Note 1: See External Code Source 22 in Section III for reference document. | | | | |
| N403 | 116 | Postal Code | X | ID | 3/15 | Used |
| | | Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States) | | | | |
| | | Note 1: See External Code Source 51 in Section III for reference document. | | | | |
| N404 | 26 | Country Code | X | ID | 2/3 | Used |
| | | Description: Code identifying the country | | | | |
| | | Note 1: See External Code Source 5 in Section III for reference document. | | | | |
| | | Note 2: CA - Canada MX - Mexico US - United States | | | | |
| N408 | 1702 | Postal Code-Formatted | X | AN | 3/20 | Used |
| | | Description: A postal code value including punctuation, blanks and other characters as defined by the postal authority | | | | |

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. E0308 - Only one of N403 or N408 may be present.
3. C0605 - If N406 is present, then N405 is required.
4. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N403 contains the postal code in an unstructured format. N408 contains the postal code in a structured format. When a postal code data field is used, the parties shall agree as to which data element (N403 or N408) shall be used in the transaction set.

Loop Unit Load

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

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--------------------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level - Unit Load | O | 1 | | Used |
| 1300 | | Loop TD3 | O | | 12 | Used |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | Used |

HL Hierarchical Level - Unit Load

| | |
|-------------------|-------------|
| Pos: 0100 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 3 |

User Option (Usage): Used**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments**Note 1:**

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| | | Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | |
| HL02 | 734 | Hierarchical Parent ID Number | O | AN | 1/12 | Must use |
| | | Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |
| | | Description: Code defining the characteristic of a level in a hierarchical structure | | | | |

CodeList Summary (Total Codes: 251, Included: 1)**Code Name**

UT Unit or Lot

Note 1:*Unit load*

Loop Carrier Details (Equipment)

| | |
|-----------|---------------|
| Pos: 1300 | Repeat: 12 |
| Optional | |
| Loop: TD3 | Elements: N/A |

User Option (Usage): Used

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

Loop Summary:

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

TD3 Carrier Details (Equipment)

| | |
|-------------------|-------------|
| Pos: 1300 | Max: 1 |
| Detail - Optional | |
| Loop: TD3 | Elements: 1 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------------|------------|-------------|----------------|--------------|
| TD301 | 40 | Equipment Description Code | X | ID | 2/2 | Used |

Description: Code identifying type of equipment used for shipment

CodeList Summary (Total Codes: 150, Included: 6)

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

Syntax Rules:

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

MAN Marks and Numbers Information

| | |
|-------------------|-------------|
| Pos: 1900 | Max: >1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Note 1:

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

Element Summary:

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

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

CodeList Summary (Total Codes: 31, Included: 5)

Code Name

| | | |
|----|---|---|
| E1 | Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) | Description: <i>Trade Item with ePC tag marked with SSCC value</i> |
| E2 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) | Description: <i>Trade Item with dual marking for barcode and ePC, with SSCC value</i> |
| E3 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) | Description: <i>Trade Item with dual marking for barcode and ePC, with SSCC and AI value</i> |
| GM | EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier | Note 1: <i>This is a twenty-character GS1-128 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.</i> <i>See External Code Source 98 in Section III for reference document.</i> |
| SI | Self-Identifying Container via Radio Frequency ID Device | Description: <i>Inbound containers that do not need manual routing</i> |

| | | | | | | |
|-------|----|--------------------------|---|----|------|----------|
| MAN02 | 87 | Marks and Numbers | M | AN | 1/48 | Must use |
|-------|----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

Loop Order

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

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|---------------------------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 0500 | PRF | Purchase Order Reference | O | 1 | | Used |
| 1100 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | Used |
| 1500 | REF | Reference Information | O | >1 | | Used |
| 2200 | | Loop N1 | O | | 200 | Used |

HL Hierarchical Level

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

User Option (Usage): Must use

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

Note 1:

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--|-----------|--------------------------------------|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number | O | AN | 1/12 | Must use |
| Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | | | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |
| Description: Code defining the characteristic of a level in a hierarchical structure | | | | | | |
| CodeList Summary (Total Codes: 251, Included: 1) | | | | | | |
| <u>Code</u> <u>Name</u> | | | | | | |
| O Order | | | | | | |

PRF Purchase Order Reference

| | |
|-------------------|-------------|
| Pos: 0500 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 1 |

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| PRF01 | 324 | Purchase Order Number | M | AN | 1/22 | Must use |

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Note 1: *Retailer's original purchase order number*

Semantics:

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

TD1 Carrier Details (Quantity and Weight)

| | |
|-------------------|-------------|
| Pos: 1100 | Max: 20 |
| Detail - Optional | |
| Loop: HL | Elements: 5 |

User Option (Usage): Used

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

Note 1:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| TD101 | 103 | Packaging Code | O | AN | 3/5 | Used |

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

CodeList Summary (Total Codes: 157, Included: 7)

Code Name

AAA Pallet, Returnable

BAG Bag

CTN Carton

MIX Mixed Container Types

Description: More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)

PLT Pallet

SLP Slip Sheet

Description: Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation

SRW Shrink Wrap

Description: In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents

CodeList Summary (Total Codes: 60, Included: 3)

Code Name

25 Corrugated or Solid

76 Paper

94 Wood

| | | | | | | |
|-------|----|------------------------|---|----|-----|------|
| TD102 | 80 | Lading Quantity | X | N0 | 1/7 | Used |
|-------|----|------------------------|---|----|-----|------|

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

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

Description: Code defining the type of weight

CodeList Summary (Total Codes: 53, Included: 1)

Code Name

G Gross Weight

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

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| | | Description: Numeric value of weight | | | | |
| TD108 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Used |

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

Note 1: See Section III for code list.

CodeList Summary (Total Codes: 908, Included: 2)

Code Name

KG Kilogram

LB Pound

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

REF Reference Information

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| REF01 | 128 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1835, Included: 17)

Code Name

6B U.S. Customs and Border Protection (CBP) Entry Number

Note 1:

Customs entry number

BM Bill of Lading Number

BT Batch Number

CH Customer Catalog Number

CO Customer Order Number

Note 1:

Customer of retailer

DP Department Number

HB Bill & Hold Invoice Number

IA Internal Vendor Number

Note 1:

Identification number assigned to the vendor, by the retailer, for use within the retailer's system

IT Internal Customer Number

Note 1:

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

Description: Model designation of replacement component

Note 1:

Schematic reference number

SB Sales Region Number

VN Vendor Order Number

UCB VICS Bill of Lading Number (17 Digits)

Note 1:

See External Code Source 852 in Section III for reference document.

UCM VICS Master Bill of Lading Number (17 Digits)

Note 1:

Code Name

See External Code Source 852 in Section III for reference document.

| | | | | | | |
|-------|-----|---------------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | X | AN | 1/80 | Must use |
|-------|-----|---------------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

Loop Party Identification

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

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|
| 2200 | N1 | Party Identification | O | 1 | | Used |
| 2300 | N2 | Additional Name Information | O | 2 | | Used |
| 2400 | N3 | Party Location | O | 2 | | Used |
| 2500 | N4 | Geographic Location | O | 1 | | Used |

N1 Party Identification

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

User Option (Usage): Used

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

Note 1:

N103 and N104 are required except when N101 contains code CT, MA or OB.

Element Summary:

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

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

CodeList Summary (Total Codes: 1532, Included: 3)

Code Name

BY Buying Party (Purchaser)
MA Party for whom Item is Ultimately Intended

Note 1:

Ultimate receiver

SE Selling Party

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

Description: Free-form name

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

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

CodeList Summary (Total Codes: 256, Included: 7)

Code Name

1 D-U-N-S Number, Dun & Bradstreet

Note 1:

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

Note 1:

See External Code Source 16 in Section III for reference document.

21 Health Industry Number (HIN)

Note 1:

See External Code Source 121 in Section III for reference document.

91 Assigned by Seller or Seller's Agent

92 Assigned by Buyer or Buyer's Agent

UL Global Location Number (GLN)

Description: A globally unique 13 digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1 identification key

Note 1:

Code Name

See External Code Source 583 in Section III for reference document.

UM GS1 Global Location Number with Extension Component

Description: A globally unique 13-digit code with a one to twenty character extension component used, for the identification of a legal or physical location

N104 67 **Identification Code** X AN 2/80 Used

Description: Code identifying a party or other code

Note 1: 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.

Syntax Rules:

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

N2 Additional Name Information

| | |
|-------------------|-------------|
| Pos: 2300 | Max: 2 |
| Detail - Optional | |
| Loop: N1 | Elements: 2 |

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| N201 | 93 | Name | M | AN | 1/60 | Must use |
| | | Description: Free-form name | | | | |
| N202 | 93 | Name | O | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |

N3 Party Location

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

| | |
|-------------------|-------------|
| Pos: 2500 | Max: 1 |
| Detail - Optional | |
| Loop: N1 | Elements: 5 |

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N401 | 19 | City Name | O | AN | 2/30 | Used |
| | | Description: Free-form text for city name | | | | |
| N402 | 156 | State or Province Code | X | ID | 2/2 | Used |
| | | Description: Code (Standard State/Province) as defined by appropriate government agency | | | | |
| | | Note 1: See External Code Source 22 in Section III for reference document. | | | | |
| N403 | 116 | Postal Code | O | ID | 3/15 | Used |
| | | Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | |
| | | Note 1: See External Code Source 51 in Section III for reference document. | | | | |
| N404 | 26 | Country Code | X | ID | 2/3 | Used |
| | | Description: Code identifying the country | | | | |
| | | Note 1: See External Code Source 5 in Section III for reference document. | | | | |
| | | Note 2: CA - Canada MX - Mexico US - United States | | | | |
| N407 | 1715 | Country Subdivision Code | X | ID | 1/3 | Used |
| | | Description: Code identifying the country subdivision | | | | |

Syntax Rules:

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

Loop Tare

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

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--------------------------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | O | 1 | | Used |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | Used |
| 2150 | PAL | Pallet Type and Load Characteristics | O | 1 | | Used |

HL Hierarchical Level

| | |
|--------------------------|--------------------|
| Pos: 0100 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 3 |

User Option (Usage): Used**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments**Note 1:**

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| | | Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | |
| HL02 | 734 | Hierarchical Parent ID Number | O | AN | 1/12 | Must use |
| | | Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |

Description: Code defining the characteristic of a level in a hierarchical structure**CodeList Summary** (Total Codes: 251, Included: 1)**Code Name**

T Shipping Tare

MAN Marks and Numbers Information

| | |
|-------------------|-------------|
| Pos: 1900 | Max: >1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Note 1:

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

Element Summary:

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

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

CodeList Summary (Total Codes: 31, Included: 5)

Code Name

| | | |
|----|---|---|
| E1 | Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) | Description: <i>Trade Item with ePC tag marked with SSCC value</i> |
| E2 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) | Description: <i>Trade Item with dual marking for barcode and ePC, with SSCC value</i> |
| E3 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) | Description: <i>Trade Item with dual marking for barcode and ePC, with SSCC and AI value</i> |
| GM | EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier | Note 1: <i>This is a twenty-character GS1-128 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.</i> |
| SI | Self-Identifying Container via Radio Frequency ID Device | Description: <i>Inbound containers that do not need manual routing</i> |

| | | | | | | |
|-------|----|--------------------------|---|----|------|----------|
| MAN02 | 87 | Marks and Numbers | M | AN | 1/48 | Must use |
|-------|----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

PAL Pallet Type and Load Characteristics

| | |
|-------------------|-------------|
| Pos: 2150 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 8 |

User Option (Usage): Used

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

Note 1:

If there is no PAL01/DE 883 code for the pallet, use PAL07, PAL08, PAL09 and PAL10 to provide the measurements of the pallet and PAL20 for a text description of the pallet.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| PAL01 | 883 | Pallet Type Code | O | ID | 1/2 | Used |

Description: Code indicating the type of pallet

CodeList Summary (Total Codes: 26, Included: 14)

Code Name

| | |
|---|--|
| 1 | Aluminum |
| 2 | As Specified by the Department of Transportation (DOT) |
| 3 | Metal |
| 4 | Standard |
| 5 | Steel |
| 6 | Wood |
| 7 | Slip sheet |

Description: Typically cardboard or plastic sheets used to hold product for storage or transportation

Note 1:

Typically cardboard or plastic sheets used to hold products for storage or shipment

42 Dolly

Description: A portable, horizontal, rigid platform on wheels or rollers, used as a base for assembling, storing, stacking, handling and transporting goods as a unit, suitable for manually positioning

47 Intermediate Bulk Container (IBC) Pallet

Description: A Rigid Intermediate Bulk Container (RIBC) that is attached to a pallet or has the pallet integrated into the RIBC. The container is used for the transport and storage of fluids and other bulk materials. The construction of the IBC container and the materials used are chosen depending on the application. There are various types available in the market place: Foldable (collapsible) IBC Container, Plastic composite IBC Container, Wire Cage IBC Container, Steel IBC Container, and Stainless steel IBC Container

49 Skid

Description: A group of parallel wooden runners attached to the undersides of boxes, crates, and machines to allow entry of platform trucks or fork lift tines

50 Stringer Pallet

Description: A pallet constructed with boards (stringers) on edge to which the top deck and bottom deck boards are attached. The stringers may be notched to facilitate four way entries and lifting by a fork lift or other pallet jacking device

Code Name

52 Block Pallet

Description: A pallet constructed with blocks at the corners and middle to which three stringers boards are attached with top deck boards attached perpendicular to the stringers. Block pallets can have a variety of bottom deck configurations: no bottom boards, boards parallel to the top deck boards or a full parameter base similar to a picture frame

53 Horizontal Drum Pallet

Description: A rigid platform with integrated restraints to prevent horizontally orientated cylindrical containers from slipping. Horizontal Drum Pallets are used for assembling, storing, stacking, handling and transporting cylindrical containers, e.g. drums, barrels, or kegs, as a unit load, suitable for lifting by a forklift, pallet jack, or other jacking device

54 Vertical Drum Pallet

Description: A rigid platform with integrated restraints to prevent vertically orientated cylindrical containers from slipping. Vertical Drum Pallets are used for assembling, storing, stacking, handling and transporting cylindrical containers, e.g. drums, barrels, or kegs, as a unit load, suitable for lifting by a forklift, pallet jack, or other jacking device

| | | | | | | |
|-------|-----|---------------------|---|----|-----|------|
| PAL02 | 884 | Pallet Tiers | O | N0 | 1/3 | Used |
|-------|-----|---------------------|---|----|-----|------|

Description: The number of layers per pallet

| | | | | | | |
|-------|-----|----------------------|---|----|-----|------|
| PAL03 | 885 | Pallet Blocks | O | N0 | 1/3 | Used |
|-------|-----|----------------------|---|----|-----|------|

Description: The number of pieces (cartons) per layer on the pallet

| | | | | | | |
|-------|-----|-------------|---|----|-----|------|
| PAL04 | 356 | Pack | O | N0 | 1/6 | Used |
|-------|-----|-------------|---|----|-----|------|

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

| | | | | | | |
|-------|-----|-----------------------------|---|----|-----|------|
| PAL15 | 399 | Pallet Exchange Code | O | ID | 1/1 | Used |
|-------|-----|-----------------------------|---|----|-----|------|

Description: Code specifying pallet exchange instructions

CodeList Summary (Total Codes: 5, Included: 5)

Code Name

1 No Exchange/No Return

Note 1:

One Way Pallet - Pallet need not be returned to the point of origin.

2 Exchange Pallets

3 Return Pallets

Note 1:

Returnable Pallet - Pallet must be returned to the point of origin.

4 Pallets to be Purchased by Customer

5 Third-Party Pallet Exchange

Description: A pallet exchange program where a third party rents pallets for internal or external use

| | | | | | | |
|-------|-----|-----------------|---|---|------|------|
| PAL18 | 380 | Quantity | O | R | 1/15 | Used |
|-------|-----|-----------------|---|---|------|------|

Description: Numeric value of quantity

| | | | | | | |
|-------|------|--|---|----|-----|------|
| PAL19 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Used |
|-------|------|--|---|----|-----|------|

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

Description: Code indicating a Yes or No condition or response

CodeList Summary (Total Codes: 4, Included: 2)

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

| | |
|---|----|
| N | No |
|---|----|

| | |
|---|-----|
| Y | Yes |
|---|-----|

| | | | | | | |
|-------|-----|--------------------|---|----|------|------|
| PAL20 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|--------------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0710 - If PAL07 is present, then PAL10 is required.
2. C0810 - If PAL08 is present, then PAL10 is required.
3. C0910 - If PAL09 is present, then PAL10 is required.
4. L10070809 - If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
5. P0506 - If either PAL05 or PAL06 is present, then the other 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.

Semantics:

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.
6. PAL18 is the maximum quantity of stackable pallets.
7. PAL19 indicates if the block count on at least one pallet tier is not the same as on other tiers. A "Y" indicates the pallet has unequal block counts on one or more tiers. An "N" indicates that the pallet's blocks per tier are uniform (block x tier equals quantity on pallet).

Loop Pack

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

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-------------------------------|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 0200 | LIN | Item Identification | O | 1 | | Used |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | Used |
| 1900 | MAN | Marks and Numbers Information | O | >1 | | Used |

HL Hierarchical Level

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

User Option (Usage): Must use

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

Note 1:

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--|-----------|--------------------------------------|------------|-------------|----------------|--------------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use |
| Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number | O | AN | 1/12 | Must use |
| Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | | | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use |
| Description: Code defining the characteristic of a level in a hierarchical structure | | | | | | |
| CodeList Summary (Total Codes: 251, Included: 1) | | | | | | |
| <u>Code</u> <u>Name</u> | | | | | | |
| P Pack | | | | | | |

LIN Item Identification

| | |
|--------------------------|--------------------|
| Pos: 0200 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 6 |

User Option (Usage): Used

Purpose: To specify basic item identification data

Note 1:

This segment, at the pack level, is used to specify the GTIN Case Code, 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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-------------------------------------|------------|-------------|----------------|--------------|
| LIN02 | 235 | Product/Service ID Qualifier | M | ID | 2/2 | Must use |

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 549, Included: 5)

Code Name

CA Case

Note 1:

GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

LT Lot Number

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

| | | | | | | |
|-------|-----|---------------------------|---|----|------|----------|
| LIN03 | 234 | Product/Service ID | M | AN | 1/80 | Must use |
|-------|-----|---------------------------|---|----|------|----------|

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| LIN04 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Used |
|-------|-----|-------------------------------------|---|----|-----|------|

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 549, Included: 5)

Code Name

CA Case

Note 1:

GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs.

Code Name

The number includes the packaging indicator and check digit.

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

LT Lot Number

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

| | | | | | | |
|-------|-----|---------------------------|---|----|------|------|
| LIN05 | 234 | Product/Service ID | X | AN | 1/80 | Used |
|-------|-----|---------------------------|---|----|------|------|

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| LIN06 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Used |
|-------|-----|-------------------------------------|---|----|-----|------|

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 549, Included: 5)

Code Name

CA Case

Note 1:

GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

LT Lot Number

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

| | | | | | | |
|-------|-----|---------------------------|---|----|------|------|
| LIN07 | 234 | Product/Service ID | X | AN | 1/80 | Used |
|-------|-----|---------------------------|---|----|------|------|

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.

8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

| | |
|-------------------|-------------|
| Pos: 0300 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Note 1:

This segment, at the pack level, is used only to specify the number of cases identified by the GTIN Case Code in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

Element Summary:

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

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

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|----------|
| SN103 | 355 | Unit or Basis for Measurement Code | M | ID | 2/2 | Must use |
|-------|-----|------------------------------------|---|----|-----|----------|

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

CodeList Summary (Total Codes: 908, Included: 1)

Code Name

CA Case

Syntax Rules:

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

Semantics:

1. SN101 is the ship notice line-item identification.
2. SN105 is quantity ordered.

MAN Marks and Numbers Information

| | |
|-------------------|-------------|
| Pos: 1900 | Max: >1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Note 1:

When the shipping container is the same as the consumer unit, the GTIN may be the only GS1 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 GTIN 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.

Element Summary:

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

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

CodeList Summary (Total Codes: 31, Included: 5)

Code Name

| | | |
|----|---|---|
| E1 | Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) | Description: Trade Item with ePC tag marked with SSCC value |
| E2 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) | Description: Trade Item with dual marking for barcode and ePC, with SSCC value |
| E3 | Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) | Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value |
| GM | EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier | Note 1: <i>This is a twenty-character GS1-128 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.</i> |
| SI | Self-Identifying Container via Radio Frequency ID Device | Description: Inbound containers that do not need manual routing |

| | | | | | | |
|-------|----|-------------------|---|----|------|----------|
| MAN02 | 87 | Marks and Numbers | M | AN | 1/48 | Must use |
|-------|----|-------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

Loop Item

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

User Option (Usage): Must use

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--|------------|----------------|---------------|--------------|
| 0100 | HL | Hierarchical Level | M | 1 | | Must use |
| 0200 | LIN | Item Identification | O | 1 | | Used |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | Used |
| 0600 | PO4 | Item Physical Details | O | 1 | | Used |
| 0700 | PID | Product/Item Description | O | 200 | | Used |
| 1400 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | Used |
| 1500 | REF | Reference Information | O | >1 | | Used |
| 2000 | DTM | Date/Time Reference | O | 10 | | Used |

HL Hierarchical Level

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

User Option (Usage): Must use**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments**Note 1:**

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.

Element Summary:

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

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

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

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

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

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

CodeList Summary (Total Codes: 251, Included: 1)

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

LIN Item Identification

| | |
|--------------------------|--------------------|
| Pos: 0200 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 8 |

User Option (Usage): Used

Purpose: To specify basic item identification data

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| LIN02 | 235 | Product/Service ID Qualifier | M | ID | 2/2 | Must use |

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 549, Included: 6)

Code Name

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

EO GTIN-8

Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items

IN Buyer's Item Number

UK GTIN-14

Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

UP GTIN-12

Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items

VN Vendor's (Seller's) Item Number

Note 1:

Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.

Note 2:

Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.

| | | | | | | |
|-------|-----|--------------------|---|----|------|----------|
| LIN03 | 234 | Product/Service ID | M | AN | 1/80 | Must use |
|-------|-----|--------------------|---|----|------|----------|

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|------------------------------|---|----|-----|------|
| LIN04 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Used |
|-------|-----|------------------------------|---|----|-----|------|

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 549, Included: 6)

Code Name

EN GTIN-13

Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items

EO GTIN-8

Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item

Code Name

- Reference, and Check Digit used to identify trade items*
- IN Buyer's Item Number
- UK GTIN-14
Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items
- UP GTIN-12
Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items
- VN Vendor's (Seller's) Item Number

Note 1:
Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.

Note 2:
Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.

| | | | | | | |
|-------|-----|---|---|----|------|------|
| LIN05 | 234 | Product/Service ID | X | AN | 1/80 | Used |
| | | Description: Identifying number for a product or service | | | | |
| LIN06 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Used |
| | | Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |

CodeList Summary (Total Codes: 549, Included: 6)

Code Name

- EN GTIN-13
Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items
- EO GTIN-8
Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items
- IN Buyer's Item Number
- UK GTIN-14
Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items
- UP GTIN-12
Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items
- VN Vendor's (Seller's) Item Number

Note 1:
Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.

Note 2:
Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.

| | | | | | | |
|-------|-----|---|---|----|------|------|
| LIN07 | 234 | Product/Service ID | X | AN | 1/80 | Used |
| | | Description: Identifying number for a product or service | | | | |
| LIN08 | 235 | Product/Service ID Qualifier | X | ID | 2/2 | Used |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|---|----------------|--------------|
| | | Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | CodeList Summary (Total Codes: 549, Included: 6) | | | | |
| | | Code | | Name | | |
| | | EN | | GTIN-13 | | |
| | | | | Description: A 13-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference and Check Digit used to identify trade items | | |
| | | EO | | GTIN-8 | | |
| | | | | Description: An 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items | | |
| | | IN | | Buyer's Item Number | | |
| | | UK | | GTIN-14 | | |
| | | | | Description: A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference and Check Digit used to identify trade items | | |
| | | UP | | GTIN-12 | | |
| | | | | Description: A 12-digit GS1 Identification Key composed of a GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items | | |
| | | VN | | Vendor's (Seller's) Item Number | | |
| | | | | Note 1: | | |
| | | | | <i>Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.</i> | | |
| | | | | Note 2: | | |
| | | | | <i>Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.</i> | | |
| LIN09 | 234 | Product/Service ID | X | AN | 1/80 | Used |
| | | Description: Identifying number for a product or service | | | | |

Syntax Rules:

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

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

| | |
|-------------------|-------------|
| Pos: 0300 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 2 |

User Option (Usage): Used**Purpose:** To specify line-item detail relative to shipment**Note 1:**

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 notes in the SLN segment at the pack level.

Element Summary:

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

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

| | | | | | | |
|-------|-----|---|---|----|-----|----------|
| SN103 | 355 | Unit or Basis for Measurement Code | M | ID | 2/2 | Must use |
|-------|-----|---|---|----|-----|----------|

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

CodeList Summary (Total Codes: 908, Included: 15)

Code Name

| | |
|----|------------------|
| BA | Bale |
| BG | Bag |
| BO | Bottle |
| BX | Box |
| CA | Case |
| CN | Can |
| CT | Carton |
| DS | Display |
| DZ | Dozen |
| EA | Each |
| KG | Kilogram |
| LB | Pound |
| PK | Package |
| PL | Pallet/Unit Load |
| RL | Roll |

Syntax Rules:

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

Semantics:

1. SN101 is the ship notice line-item identification.
2. SN105 is quantity ordered.

PO4 Item Physical Details

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

User Option (Usage): Used**Purpose:** To specify the physical qualities, packaging, weights, and dimensions relating to the item**Note 1:**

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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|-------------|-------------|----------------|--------------|
| PO401 | 356 | Pack | O | N0 | 1/6 | Used |
| | | Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container | | | | |
| PO406 | 384 | Gross Weight per Pack | X | R | 1/9 | Used |
| | | Description: Numeric value of gross weight per pack | | | | |
| PO407 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Used |
| | | Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| | | CodeList Summary (Total Codes: 908, Included: 3) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | 2W | Bin | | | |
| | | Description: Storage container used as a unit of measurement | | | | |
| | | KG | Kilogram | | | |
| | | LB | Pound | | | |
| PO408 | 385 | Gross Volume per Pack | X | R | 1/9 | Used |
| | | Description: Numeric value of gross volume per pack | | | | |
| PO409 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Used |
| | | Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| | | CodeList Summary (Total Codes: 908, Included: 160) | | | | |
| | | <u>Code</u> | <u>Name</u> | | | |
| | | 12 | Packet | | | |
| | | 15 | Stick | | | |
| | | 1N | Count | | | |
| | | 26 | Actual Tons | | | |

| Code | Name |
|-------------|--|
| 2W | Bin Description: <i>Storage container used as a unit of measurement</i> |
| 50 | Actual Kilograms |
| AF | Centigram Description: <i>A unit of metric weight equal to 0.01 gram or 0.000035 ounce</i> |
| AM | Ampoule |
| AR | Suppository |
| AS | Assortment |
| AV | Capsule Description: <i>A compact metallic or plastic container for liquids or solids</i> |
| AZ | British Thermal Units (BTUs) per Pound |
| BA | Bale |
| BF | Board Feet |
| BG | Bag |
| BK | Book |
| BO | Bottle |
| BP | 100 Board Feet |
| BR | Barrel |
| BX | Box |
| C3 | Centiliter |
| CA | Case |
| CC | Cubic Centimeter |
| CE | Centigrade, Celsius Note 1: <i>Degrees</i> |
| CF | Cubic Feet |
| CH | Container |
| CI | Cubic Inches |
| CM | Centimeter |
| CN | Can |
| CR | Cubic Meter |
| CT | Carton |
| CW | Hundred Pounds (CWT) |
| CX | Coil |
| CY | Cubic Yard |
| D1 | Dollars, Canadian |
| DA | Days |
| DC | Disk (Disc) |
| DD | Degree |
| DG | Decigram |
| DL | Deciliter |
| DM | Decimeter |
| DO | Dollars, U.S. |
| DR | Drum |
| DS | Display |
| DZ | Dozen |

| Code | Name |
|-------------|--|
| EA | Each |
| EP | Eleven pack |
| F2 | International Unit Description: <i>A unit accepted by an international agency; potency of a drug/vitamin based on a specific weight of that drug/vitamin</i> |
| FA | Fahrenheit Note 1: <i>Degrees</i> |
| FG | Transdermal Patch Description: <i>A drug delivery system which is placed on the skin and releases a drug at a constant rate through the skin</i> |
| FO | Fluid Ounce |
| FT | Foot Note 1: <i>Feet</i> |
| FZ | Fluid Ounce (Imperial) Description: <i>A liquid unit of measure equal to 1/20 (.05) pint (Imperial), 28.416 cubic centimeters, or 28.416 milliliters</i> |
| GA | Gallon |
| GN | Gross Gallons |
| GR | Gram |
| GS | Gross |
| H3 | 18-Pack |
| H5 | 22-Pack |
| H6 | 30-Pack |
| H7 | 38-Pack |
| H8 | 62-Pack |
| H9 | 75-Pack |
| HC | Hundred Count |
| HL | Hundred Feet - Linear |
| HR | Hours |
| HS | Hundred Square Feet |
| IH | Inhaler Description: <i>Metered-dose pressurized method of getting medication into the lungs or nasal passages</i> |
| IN | Inch |
| J1 | 80-Pack |
| J3 | 81-Pack |
| J4 | 82-Pack |
| J5 | 84-Pack |
| J6 | 85-Pack |
| J7 | 96-Pack |
| J8 | 5000-Pack |
| J9 | Left Unit |
| JC | Caplet Description: <i>To denote items in caplet form</i> |
| JL | Refill |

Code Name

| | |
|----|--|
| | Description: Refers to the number of refill units in a package |
| JN | Pan Description: Refers to items in a pan (such as eye shadow) and would be associated with the number of different colors |
| JP | Prepack Description: To indicate this is "n" assortment product with different UPC codes on it |
| JS | Use Description: Refers to the number of uses from a product (such as a box of laundry detergent that provides sixty washes) |
| JT | Tin Description: Refers to giftware products in a tin |
| JV | Ovule Description: Refers to products which come in "ovule" form |
| JX | Exposure Description: To be used to indicate the number of exposures on a roll of film |
| KE | Keg Description: A unit of weight equal to 100 pounds, used for nails |
| KG | Kilogram |
| KT | Kit |
| L1 | Right Unit |
| LB | Pound |
| LF | Linear Foot Note 1: <i>Running Feet</i> |
| LT | Liter |
| LY | Linear Yard Note 1: <i>Running Yard</i> |
| M4 | Monetary Value |
| MC | Microgram |
| ME | Milligram |
| MJ | Minutes |
| ML | Milliliter |
| MM | Millimeter |
| MO | Months |
| MR | Meter |
| NG | Net Gallons |
| OP | Two pack |
| OZ | Ounce - Av |
| P1 | Percent |
| P3 | Three pack |
| P4 | Four-pack |
| P5 | Five-pack |
| P6 | Six pack |
| P7 | Seven pack |

| Code | Name |
|-------------|--|
| P8 | Eight-pack |
| P9 | Nine pack |
| PC | Piece |
| PD | Pad |
| PF | Pallet (Lift) |
| PH | Pack (PAK) |
| PK | Package |
| PL | Pallet/Unit Load |
| PR | Pair |
| PT | Pint |
| QB | Pages - Hardcopy |
| | Description: <i>Number of printed pages delivered</i> |
| QT | Quart |
| RL | Roll |
| S9 | Slip Sheet |
| | Description: <i>A cardboard platform used for holding product for storage or transportation</i> |
| SH | Sheet |
| ST | Set |
| SX | Shipment |
| SY | Square Yard |
| SZ | Syringe |
| | Description: <i>Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle</i> |
| TB | Tube |
| TC | Truckload |
| TE | Tote |
| TH | Thousand |
| TK | Tank |
| TM | Thousand Feet (Board) |
| TP | Ten-pack |
| TS | Thousand Square Feet |
| U2 | Tablet |
| | Description: <i>A compressed or molded block of solid material; a collection of sheet paper glued together at one edge</i> |
| UN | Unit |
| V2 | Pouch |
| VI | Vial |
| WG | Wine Gallon |
| Y4 | Tub |
| | Description: <i>A measure used to identify a storage container</i> |
| YD | Yard |
| YR | Years |
| Z7 | 13-pack Marketing |
| Z9 | 14-pack Marketing |
| ZF | 16-pack Marketing |
| ZG | 48-pack Component Parts |

Code Name

| | |
|----|---------------------------|
| ZH | 51-pack Component Parts |
| ZI | 52-pack Component Parts |
| ZJ | 60-pack Gift Packs |
| ZK | 72-pack Gift Packs |
| ZL | 83-pack Gift Packs |
| ZM | 10-pack Marketing |
| ZN | 120-pack Promotional |
| ZO | 150-pack Component Parts |
| ZQ | 200-pack Component Parts |
| ZR | 1000-pack Component Parts |
| ZS | 15-Pack |

PO414 810 **Inner Pack** O NO 1/6 Used

Description: The number of eaches per inner container

Syntax Rules:

1. C0506 - If PO405 is present, then PO406 is required.
2. C1013 - If PO410 is present, then PO413 is required.
3. C1113 - If PO411 is present, then PO413 is required.
4. C1213 - If PO412 is present, then PO413 is required.
5. C1716 - If PO417 is present, then PO416 is required.
6. C1804 - If PO418 is present, then PO404 is required.
7. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
8. P0203 - If either PO402 or PO403 is present, then the other is required.
9. P0607 - If either PO406 or PO407 is present, then the other is required.
10. P0809 - If either PO408 or PO409 is present, then the other is required.

Semantics:

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

PID Product/Item Description

| | |
|-------------------|-------------|
| Pos: 0700 | Max: 200 |
| Detail - Optional | |
| Loop: HL | Elements: 5 |

User Option (Usage): Used

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

Note 1:

The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are published only in this guideline.

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|-----------------------|-----|------|---------|----------|
| PID01 | 349 | Item Description Type | M | ID | 1/1 | Must use |

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 4, Included: 2)

Code Name

F Free-form

Note 1:

The description will be found in PID05.

S Structured (From Industry Code List)

Note 1:

The description will be found in PID04.

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| PID02 | 750 | Product/Process Characteristic Code | O | ID | 2/3 | Used |
|-------|-----|-------------------------------------|---|----|-----|------|

Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 275, Included: 1)

Code Name

08 Product

| | | | | | | |
|-------|-----|-----------------------|---|----|-----|------|
| PID03 | 559 | Agency Qualifier Code | X | ID | 2/2 | Used |
|-------|-----|-----------------------|---|----|-----|------|

Description: Code identifying the agency assigning the code values

CodeList Summary (Total Codes: 196, Included: 1)

Code Name

VI Voluntary Inter-Industry Commerce Standard (VICS) EDI

Note 1:

See External Code Source 70 in Section III for reference document.

| | | | | | | |
|-------|-----|--------------------------|---|----|------|------|
| PID04 | 751 | Product Description Code | X | AN | 1/12 | Used |
|-------|-----|--------------------------|---|----|------|------|

Description: A code from an industry code list which provides specific data about a product characteristic

CodeList Summary (Total Codes: 10, Included: 7)

Code Name

CL Collateral

GW Gift with purchase

OS Size not within normal size range (odd size)

Code Name

| | |
|----|---|
| 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 | X | AN | 1/80 | Used |
|-------|-----|--------------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

Semantics:

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

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

| | |
|-------------------|-------------|
| Pos: 1400 | Max: 5 |
| Detail - Optional | |
| Loop: HL | Elements: 3 |

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| TD401 | 152 | Special Handling Code | X | ID | 2/3 | Used |

Description: Code specifying special transportation handling instructions

Note 1: See Section III for code list.

CodeList Summary (Total Codes: 586, Included: 12)

Code Name

| | |
|-----|---|
| 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 |
| NW | In Case of Fire Do Not Use Water |
| PG | Poisonous Gas |
| RM | Radioactive Material |
| UN | Unload as Placarded |
| NPR | No Placards Required |

| | | | | | | |
|-------|-----|--|---|----|-----|------|
| TD402 | 208 | Hazardous Material Code Qualifier | X | ID | 1/1 | Used |
|-------|-----|--|---|----|-----|------|

Description: Code which qualifies the Hazardous Material Class Code (209)

CodeList Summary (Total Codes: 15, Included: 2)

Code Name

| | |
|---|---|
| 9 | Title 49, Code of Federal Regulations (CFR) |
|---|---|

Note 1:

See External Code Source 52 in Section III for reference document.

| | |
|---|----------------|
| U | United Nations |
|---|----------------|

Note 1:

See External Code Source 53 in Section III for reference document.

| | | | | | | |
|-------|-----|--------------------------------------|---|----|-----|------|
| TD403 | 209 | Hazardous Material Class Code | X | AN | 1/4 | Used |
|-------|-----|--------------------------------------|---|----|-----|------|

Description: Code specifying the kind of hazard for a material

Syntax Rules:

1. C0203 - If TD402 is present, then TD403 is required.
2. R010204 - At least one of TD401, TD402 or TD404 is required.

Semantics:

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.

REF Reference Information

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| REF01 | 128 | Reference Identification Qualifier | M | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1835, Included: 3)

Code Name

72 Schedule Reference Number

Note 1:

The REF02 (DE127) value is the same value that is used in the 862 shipping schedule BSS02 data element field.

CO Customer Order Number

Note 1:

Customer of retailer

SE Serial Number

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | X | AN | 1/80 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

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

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

CodeList Summary (Total Codes: 1316, Included: 1)

Code Name

036 Expiration

Description: *Date coverage expires*

Note 1:

Used for perishable products

| | | | | | | |
|-------|-----|------|---|----|-----|----------|
| DTM02 | 373 | Date | X | DT | 8/8 | Must use |
|-------|-----|------|---|----|-----|----------|

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

Syntax Rules:

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

CTT Transaction Totals

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

User Option (Usage): Used

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------|------------|-------------|----------------|--------------|
| CTT01 | 354 | Number of Line Items | M | N0 | 1/6 | Must use |

Description: Total number of line items in the transaction set

Note 1: *The number of HL segments present in the transaction set*

Syntax Rules:

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

Comments:

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

SE Transaction Set Trailer

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Summary - Mandatory | |
| Loop: N/A | Elements: 2 |

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

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

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

| | | | | | | |
|------|-----|---------------------------------------|---|----|-----|----------|
| SE02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
|------|-----|---------------------------------------|---|----|-----|----------|

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

Note 1: This must be the same number as is in the ST segment (ST02) for the transaction set.

Comments:

- SE is the last segment of each transaction set.