



856 Ship Notice/Manifest - Canada

VICS EDI

Version: 005010-2020

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| N1 | Party Identification | 51 |
| N2 | Additional Name Information | 53 |
| N3 | Party Location | 54 |
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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:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage | Page |
|--------|-----|-----------------------------------|-----|---------|--------|-------|----------|------|
| 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:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage | Page |
|----------------------|-----|---|-----|---------|---------------|-----------------|----------|------|
| 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 | | | 25 |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | Used | 26 |
| * 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 | 27 |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| 1500 | REF | Reference Information | O | >1 | | | Used | 28 |

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| <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> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| 1510 | PER | Administrative Communications Contact | O | 3 | | | Used | 29 |
| * 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 | 31 |
| * 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 | | 32 |
| 2200 | N1 | Party Identification | O | 1 | | | Used | 33 |
| 2300 | N2 | Additional Name Information | O | 2 | | | Used | 35 |
| 2400 | N3 | Party Location | O | 2 | | | Used | 36 |
| 2500 | N4 | Geographic Location | O | 1 | | | Used | 37 |
| * 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 |

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| <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> |
|------------------------|-----------|---|------------|----------------|----------------------|------------------------|--------------|-------------|
| * 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 Services | O | 1 | | | | N/A |
| * 3350 | YNQ | Yes/No Question | O | 10 | | | | N/A |
| * LOOP ID - LM | | | | | <u>10</u> | | | N/A |
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | <u>>1</u> | | | 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 | | | | | <u>200000</u> | <u>C2/0100L</u> | | 38 |
| 0100 | HL | Hierarchical Level | O | 1 | | C2/0100 | Used | 39 |
| * 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 | | | | | <u>12</u> | | | 40 |
| 1300 | TD3 | Carrier Details (Equipment) | O | 1 | | | Used | 41 |
| * 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 | | | | | <u>100</u> | | | N/A |
| * 1520 | LH1 | Hazardous Identification Information | O | 1 | | | | N/A |

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| <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> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| * 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 | | | Used | 42 |
| * 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 |

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| <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> |
|------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| * 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 | | 43 |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 44 |
| * 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 | 45 |
| * 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 | 46 |
| * 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 | 48 |
| * 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 |

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| <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> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| * 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 | | | | 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 | | 50 |
| 2200 | N1 | Party Identification | O | 1 | | | Used | 51 |
| 2300 | N2 | Additional Name Information | O | 2 | | | Used | 53 |
| 2400 | N3 | Party Location | O | 2 | | | Used | 54 |
| 2500 | N4 | Geographic Location | O | 1 | | | Used | 55 |
| * 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 |

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| <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> |
|------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| * 3400 | LM | Code Source Information | O | 1 | | | | N/A |
| * 3500 | LQ | Industry Code Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | | | | N/A |
| | | | | | ≥1 | | | |
| * 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 | | | | | | | | 56 |
| | | | | | 200000 | C2/0100L | | |
| 0100 | HL | Hierarchical Level | O | 1 | | C2/0100 | Used | 57 |
| * 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 | | | | | | | | N/A |
| | | | | | 12 | | | |
| * 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 | | | | | | | | N/A |
| | | | | | 100 | | | |
| * 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 |

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| <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> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|-------------|
| * 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 | | | Used | 58 |
| * 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 | 59 |
| * LOOP ID - N1 | | | | | | | | N/A |
| | | | | | | 200 | | |
| * 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 | | | | | | | | 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 Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | | | | N/A |
| | | | | | | ≥1 | | |

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| <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> |
|-------------------------------|-----------|---|------------|----------------|---------------|-----------------|--------------|-------------|
| * 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>LOOP ID - HL</u> | | | | | | | | 61 |
| | | | | | 200000 | C2/0100L | | |
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 62 |
| 0200 | LIN | Item Identification | O | 1 | | | Used | 63 |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | Used | 70 |
| * 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> | | | | | | | | N/A |
| | | | | | 12 | | | |
| * 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> | | | | | | | | N/A |
| | | | | | 100 | | | |
| * 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 |

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| <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> |
|------------------------|-----------|--|------------|----------------|---------------|--------------|--------------|------------------------|
| * 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 | | | Used | 71 |
| * 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 | | | | | | | | N/A |
| | | | | | | | | 200 |
| * 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 | | | | | | | | 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 Identification | M | 100 | | | | N/A |
| * LOOP ID - V1 | | | | | | | | N/A |
| | | | | | | | | >1 |
| * 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 | | | | | | | | 73 |
| | | | | | | | | 200000 C2/0100L |

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|------------------------|-----------|---|------------|----------------|---------------|-------------------|--------------|-------------|
| 0100 | HL | Hierarchical Level | M | 1 | | C2/0100 | Must use | 74 |
| 0200 | LIN | Item Identification | O | 1 | | | Used | 75 |
| 0300 | SN1 | Item Detail (Shipment) | O | 1 | | | Used | 81 |
| * 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 | | | Used | 83 |
| 0700 | PID | Product/Item Description | O | 200 | | | Used | 85 |
| * 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 | 87 |
| * 1450 | TSD | Trailer Shipment Details | O | 1 | | | | N/A |
| 1500 | REF | Reference Information | O | >1 | | | Used | 89 |
| * 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 |

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| <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 - 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 | 90 |
| * 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 | 91 |
| 0200 | SE | Transaction Set Trailer | M | 1 | | | Must use | 92 |

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

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 uniquely identifying a Transaction Set

Code List Summary (Total Codes: 318, 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 | | | | |
| | | Code List Summary (Total Codes: 66, Included: 2) | | | | |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | 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 | | | | |
| 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 | | | | |
| | | Code List Summary (Total Codes: 81, Included: 2) | | | | |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | 0001 | | Shipment, Order, Packaging, Item | | |
| | | Note 1: | | | | |
| | | <i>Pick and Pack Structure</i> | | | | |
| | | 0004 | | Shipment, Order, Item | | |

Syntax Rules:

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

Semantics:

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

Comments:

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

Loop Shipment

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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage | | | | |
|---|----------|-------------------------|-----|------|---------|----------|------|------|---|----------|
| HL01 | 628 | Hierarchical ID Number | M | AN | 1/12 | Must use | | | | |
| <p>Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure</p> <p>Note 1: The value for this level (shipment) is 1.</p> | | | | | | | | | | |
| HL03 | 735 | Hierarchical Level Code | M | ID | 1/2 | Must use | | | | |
| <p>Description: Code defining the characteristic of a level in a hierarchical structure</p> <p>Code List Summary (Total Codes: 250, Included: 1)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Shipment</td> </tr> </tbody> </table> | | | | | | | Code | Name | S | Shipment |
| Code | Name | | | | | | | | | |
| S | Shipment | | | | | | | | | |

Comments:

- 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.
- The HL segment defines a top-down/left-right ordered structure.
- 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.
- HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 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.
- 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

Code List Summary - Part 1/2 (Total Codes: 155, 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

Code List Summary - Part 2/2 (Total Codes: 57, 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 defining the type of weight

Code List Summary (Total Codes: 52, 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 | | | | | |
| | | Code List Summary (Total Codes: 844, Included: 2) | | | | | |
| | | <u>Code</u> | <u>Name</u> | | | | |
| | | KG | Kilogram | | | | |
| | | LB | Pound | | | | |
| TD109 | 183 | Volume | | X | R | 1/8 | Used |
| | | Description: Value of volumetric measure | | | | | |
| | | Note 1: <i>Gross volume</i> | | | | | |
| 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 | | | | | |
| | | Code List Summary (Total Codes: 844, Included: 15) | | | | | |
| | | <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 | | | | |
| | | KG | Kilogram | | | | |
| | | LB | Pound | | | | |
| | | 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: 11 |

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:

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

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

Code List Summary (Total Codes: 23, 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 designating the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 241, Included: 4)

| Code | Name |
|------|--------------------------------------|
| 2 | Standard Carrier Alpha Code (SCAC) |
| 91 | Assigned by Seller or Seller's Agent |
| 92 | Assigned by Buyer or Buyer's Agent |
| UL | Global Location Number (GLN) |

Note 1:

See External Code Source 17 in Section III for reference document.

Code Name

Description: A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system

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

Code List Summary (Total Codes: 80, Included: 14)

Code Name

- A Air
- C Consolidation
- D Parcel Post
- E Expedited Truck
- H Customer Pickup
- L Contract Carrier
- M Motor (Common Carrier)
- R Rail
- S Ocean
- T Best Way (Shippers Option)
- U Private Parcel Service
- AE Air Express
- BU Bus
- CE Customer Pickup / Customer's Expense

| | | | | | | |
|-------|-----|----------------|---|----|------|------|
| 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

Code List Summary (Total Codes: 102, Included: 5)

Code Name

- CC Shipment Complete on (Date)
- CM Shipment Complete with Additional Quantity
- CS Shipment Complete with Substitution
- PR Partial Shipment
- SS Split Shipment

| | | | | | | |
|-------|-----|---------------------------|---|----|-----|------|
| TD507 | 309 | Location Qualifier | O | ID | 1/2 | Used |
|-------|-----|---------------------------|---|----|-----|------|

Description: Code identifying type of location

Code List Summary (Total Codes: 184, Included: 3)

| | | | | | | | |
|-------|-----|---|---|---|----|------|------|
| | | Code | Name | | | | |
| | | PA | Port of Arrival | | | | |
| | | | Description: <i>Port where shipment enters country</i> | | | | |
| | | PB | Port of Discharge | | | | |
| | | | Description: <i>Port where shipment is unloaded</i> | | | | |
| | | PE | Port of Entry | | | | |
| | | | Description: <i>Port where customs is declared</i> | | | | |
| TD508 | 310 | Location Identifier | | X | AN | 1/30 | Used |
| | | | Description: Code which identifies a specific location | | | | |
| | | | Note 1: <i>See External Code Source 54 in Section III for reference document.</i> | | | | |
| TD510 | 732 | Transit Time Direction Qualifier | | O | ID | 2/2 | Used |
| | | | Description: Code specifying the value of time used to measure the transit time | | | | |
| | | | Code List Summary (Total Codes: 10, Included: 2) | | | | |
| | | | Code | | | | |
| | | | Name | | | | |
| | | CD | Calendar Days (Includes weekends and Holidays) | | | | |
| | | HO | Hours | | | | |
| TD511 | 733 | Transit Time | | X | R | 1/4 | Used |
| | | | Description: The numeric amount of transit time | | | | |
| | | | Note 1: <i>Transit time is based on the ship date and time in the DTM segment.</i> | | | | |
| TD512 | 284 | Service Level Code | | X | ID | 2/2 | Used |
| | | | Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier | | | | |
| | | | Code List Summary (Total Codes: 71, Included: 5) | | | | |
| | | | Code | | | | |
| | | | Name | | | | |
| | | DS | Door Service | | | | |
| | | ND | Next Day Air | | | | |
| | | | Description: <i>Delivery during business day hours of next business day</i> | | | | |
| | | PB | Priority Mail | | | | |
| | | | Description: <i>Can consist of any mail matter (including regular First-Class mail) weighing eleven ounces or less and marked Priority Mail for which the mailer chooses to pay the minimum Priority Mail rate for unguaranteed two-day service among major cities and three-day service everywhere else; First-Class mail weighing more than eleven ounces automatically becomes Priority Mail and must be marked as such</i> | | | | |
| | | PI | Priority Mail Insured | | | | |
| | | | Description: <i>Fees in addition to the Priority Mail rate for single pieces of Third- or Fourth-Class Mail or Third- or Fourth Class matter mailed at the Priority Mail rate; sealed articles must be endorsed "Third-Class Mail Enclosed" or "Fourth-Class Mail Enclosed" in addition to the Priority Mail endorsement</i> | | | | |
| | | SC | Second Day Air | | | | |
| | | | Description: <i>Delivery during business day hours no later than second business day</i> | | | | |

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

Code List Summary (Total Codes: 139, Included: 9)

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

| | | | | | | |
|-------|-----|--------------------------|---|----|-----|------|
| 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

Code List Summary (Total Codes: 556, 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:

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

Semantics:

- 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 Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated 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 qualifying the Reference Identification

Code List Summary (Total Codes: 1731, Included: 5)

Code Name

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

Note 1:

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

- UCM EAN.UCC 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 | 1/50 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

| | |
|-------------------|-------------|
| Pos: 1510 | Max: 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:

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

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

Code List Summary (Total Codes: 238, 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

Code List Summary (Total Codes: 42, Included: 3)

| Code | Name |
|------|-----------------|
| EM | Electronic Mail |
| FX | Facsimile |
| TE | Telephone |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER04 | 364 | Communication Number | X | AN | 1/256 | 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

Code List Summary (Total Codes: 42, Included: 3)

| Code | Name |
|------|-----------------|
| EM | Electronic Mail |
| FX | Facsimile |
| TE | Telephone |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER06 | 364 | Communication Number | X | AN | 1/256 | 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

Code List Summary (Total Codes: 42, Included: 3)

| Code | Name |
|------|-----------------|
| EM | Electronic Mail |

Code Name

FX Facsimile

TE Telephone

PER08 364 **Communication Number** X AN 1/256 Used

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

Syntax Rules:

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

DTM Date/Time Reference

| | |
|-------------------|-------------|
| 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

Code List Summary (Total Codes: 1280, Included: 5)

Code Name

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

| | | | | | | |
|-------|-----|-------------|---|----|-----|----------|
| 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 is ST.

Note 2:

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

Note 3:

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:

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

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

Code List Summary (Total Codes: 1500, Included: 11)

Code Name

- BS Bill and Ship To
- CS Consolidator

Note 1:

This is the consolidation point for the order and must be used in conjunction with an additional N1 segment containing code ST in N101.

- FR Message From
- LP Loading Party

Note 1:

Loading point/port

- MA Party for whom Item is Ultimately Intended

Note 1:

Ultimate receiver

- OB Ordered By

Note 1:

Customer of retailer

- SF Ship From
- ST Ship To
- TO Message To
- UP Unloading Party

Note 1:

Unloading point/port

- YW Discharge Point

| | | | | | | |
|------|----|------|---|----|------|------|
| N102 | 93 | Name | X | AN | 1/60 | 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: 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) | | | | |
| | | Code List Summary (Total Codes: 241, Included: 7) | | | | |
| | | Code | | Name | | |
| | | 1 | | D-U-N-S Number, Dun & Bradstreet | | |
| | | | | Note 1: | | |
| | | | | <i>See External Code Source 16 in Section III for reference document.</i> | | |
| | | 2 | | Standard Carrier Alpha Code (SCAC) | | |
| | | | | Note 1: | | |
| | | | | <i>See External Code Source 17 in Section III for reference document.</i> | | |
| | | 9 | | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | |
| | | | | Note 1: | | |
| | | | | <i>See External Code Source 16 in Section III for reference document.</i> | | |
| | | 21 | | Health Industry Number (HIN) | | |
| | | | | Note 1: | | |
| | | | | <i>See External Code Source 121 in Section III for reference document.</i> | | |
| | | 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 for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system | | |
| | | | | Note 1: | | |
| | | | | <i>This is the 13-digit Global Location Number (GLN). See External Code Source 583 in Section III for reference document.</i> | | |
| N104 | 67 | Identification Code | X | AN | 2/80 | Used |
| | | Description: Code identifying a party or other code | | | | |
| | | Note 1: <i>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.</i> | | | | |

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: 4 |

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 (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.

Code List Summary (Total Codes: 3, Included: 3)

| <u>Code</u> | <u>Name</u> |
|-------------|---------------|
| CA | Canada |
| MX | Mexico |
| US | United States |

Syntax Rules:

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

Comments:

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

Loop 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 | O | 1 | | Used |
| 1300 | | Loop TD3 | O | | 12 | Used |
| 1900 | MAN | Marks and Numbers Information | 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 | | | | | | |
| Code List Summary (Total Codes: 250, Included: 1) | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | |
| UT | Unit or Lot | | | | | |

Note 1:

Unit load

Comments:

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

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

Code List Summary (Total Codes: 139, 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. 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.

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)

Code List Summary (Total Codes: 21, Included: 1)

Code Name

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

Note 1:

This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.

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

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

Syntax Rules:

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

Semantics:

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

Comments:

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

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 | | | | | | |
| Code List Summary (Total Codes: 250, Included: 1) | | | | | | |
| Code Name | | | | | | |
| O Order | | | | | | |

Comments:

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

PRF Purchase Order Reference

| | |
|-------------------|-------------|
| Pos: 0500 | Max: 1 |
| Detail - 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

Code List Summary - Part 1/2 (Total Codes: 155, Included: 6)

Code Name

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

Code List Summary - Part 2/2 (Total Codes: 57, 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

Code List Summary (Total Codes: 52, Included: 1)

Code Name

G Gross Weight

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

Description: Numeric value of weight

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

Code List Summary (Total Codes: 844, Included: 15)

| <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 |
| KG | Kilogram |
| LB | Pound |
| 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.

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

Code List Summary (Total Codes: 1731, Included: 17)

Code Name

6B U.S. Customs Service (USCS) 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 EAN.UCC Bill of Lading Number (17 Digits)

Note 1:

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

UCM EAN.UCC 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 | 1/50 | Used |
|-------|-----|---------------------------------|---|----|------|------|

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

Code List Summary (Total Codes: 1500, Included: 5)

Code Name

BY Buying Party (Purchaser)

Note 1:

This code will be deleted after Version 004040.

CT Country of Origin

MA Party for whom Item is Ultimately Intended

Note 1:

Ultimate receiver

OB Ordered By

Note 1:

Customer of retailer

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)

Code List Summary (Total Codes: 241, 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.

2 Standard Carrier Alpha Code (SCAC)

Note 1:

See External Code Source 17 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)

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: 4 |

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

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

Code List Summary (Total Codes: 3, Included: 3)

Code Name

CA Canada

MX Mexico

US United States

Syntax Rules:

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

Comments:

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

Loop 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 | | | | | | |
| Code List Summary (Total Codes: 250, Included: 1) | | | | | | |
| Code Name | | | | | | |
| T | | Shipping Tare | | | | |

Comments:

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

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)

Code List Summary (Total Codes: 21, Included: 1)

Code Name

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

Note 1:

This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.

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

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

Syntax Rules:

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

Semantics:

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

Comments:

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

PAL Pallet Type and Load Characteristics

| | |
|-------------------|-------------|
| Pos: 2150 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 5 |

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

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

Code List Summary (Total Codes: 9, Included: 7)

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

| | | | | | | |
|-------|-----|---------------------|---|----|-----|------|
| 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

Code List Summary (Total Codes: 5, Included: 5)

Code Name

- 1 No Exchange/No Return
- 2 Exchange Pallets
- 3 Return Pallets
- 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

Syntax Rules:

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

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.

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 | | | | | | |
| Code List Summary (Total Codes: 250, Included: 1) | | | | | | |
| Code Name | | | | | | |
| P Pack | | | | | | |

Comments:

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

LIN Item Identification

| | |
|--------------------------|--------------------|
| Pos: 0200 | Max: 1 |
| Detail - 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 U.P.C. Case Code or the U.P.C./EAN Shipping Container Code (SCC14), and production information. The SN1 segment that follows is used to specify the number of cases identified in the LIN segment. The LIN segment, at the item level, is used to indicate the individual consumer units for the case code.

The LIN segment is to be used when the PACK is a standard shipping unit.

The MAN segment is to be used when PACK is a variable, single use shipping unit.

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)

Code List Summary (Total Codes: 519, Included: 6)

Code Name

EN EAN/UCC - 13

Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

EO EAN/UCC - 8

Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

LT Lot Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UK GTIN 14-digit Data Structure

Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

UP UCC - 12

Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)

| | | | | | | |
|-------|-----|--------------------|---|----|------|----------|
| LIN03 | 234 | Product/Service ID | M | AN | 1/48 | 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)

Code List Summary (Total Codes: 519, Included: 43)

Code Name

AG Age

| <u>Code</u> | <u>Name</u> |
|-------------|---|
| | Description: <i>The period during which, after distillation and before bottling, distilled spirits have been stored in oak containers</i> |
| | Note 1: <i>Used only by the alcohol beverage industry.</i> |
| BC | Supplier Brand Code |
| BL | Brand/Label |
| BO | Buyers Color |
| BV | Beverage Common Code |
| | Note 1: <i>Used only by the alcohol beverage industry. See External Code Source 467 in Section III for reference document.</i> |
| CG | Commodity Grouping |
| CH | Country of Origin Code |
| CM | National Retail Federation Color Code |
| | Note 1: <i>This is the three-digit NRF code. See External Code Source 88 in Section III for reference document.</i> |
| CN | Commodity Name |
| | Note 1: <i>Used only by the alcohol beverage industry.</i> |
| EN | EAN/UCC - 13 |
| | Description: <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)</i> |
| EO | EAN/UCC - 8 |
| | Description: <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)</i> |
| FV | Drug Identification Number (DIN) |
| | Note 1: <i>See External Code Source 874 in Section III for reference document.</i> |
| IB | International Standard Book Number (ISBN) |
| IN | Buyer's Item Number |
| IS | International Standard Serial Number (ISSN) |
| IT | Buyer's Style Number |
| IZ | Buyer's Size Code |
| LT | Lot Number |
| MN | Model Number |
| ND | National Drug Code (NDC) |
| | Note 1: <i>Used only by the Canadian pharmaceutical retail industry.</i> |
| OC | Old U.P.C./EAN Consumer Package Code |
| | Note 1: <i>This code will be marked for deletion in Version 005020 (May 2005) and will no longer appear in Version 005030 (May 2006).</i> |
| P8 | Retail Price Look Up Number (PLU) |
| | Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| PI | Purchaser's Item Code |

| Code | Name |
|-------------|---|
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| PJ | Product Date Code (A code indicating the period during which a product was manufactured.) |
| SM | National Retail Federation Size Code |
| | <p>Note 1: <i>This is the five-digit NRF code. See External Code Source 88 in Section III for reference document.</i></p> |
| SZ | Vendor Alphanumeric Size Code |
| U2 | U.P.C. Shipping Container Code (1-2-5-5) |
| | <p>Description: A 13-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, and the remaining five digits are the item code</p> |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UA | U.P.C./EAN Case Code (2-5-5) |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UB | U.P.C./EAN Multipack Code |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UC | Product Variant |
| | <p>Note 1: <i>The two or five digit code used to further define the contents of a consumer unit or multipack, also referred to as an ADD-ON code.</i></p> |
| UD | U.P.C./EAN Consumer Package Code (2-5-5) |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UE | U.P.C./EAN Module Code (2-5-5) |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UG | Drug U.P.C. Consumer Package Code (1-4-6-1) |
| | <p>Description: A specific instance of the Universal Product Code that uses a 4-digit manufacturer identifier code and a 6-digit product code</p> |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UH | Drug U.P.C. Shipping Container Code (1-2-4-6-1) |
| | <p>Description: A specific instance of the U.P.C. Shipping Container Code that uses a 4-digit manufacturer identifier code and a 6-digit product code</p> |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UI | U.P.C. Consumer Package Code (1-5-5) |
| | <p>Note 1: <i>This code will be deleted in the version published in 2005.</i></p> |
| UK | GTIN 14-digit Data Structure |
| | <p>Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform</p> |

Code Name

- Code Council) Global Trade Item Number (GTIN)
- UN U.P.C. Case Code Number (1-1-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UP UCC - 12
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)
- VA Vendor's Style Number
- VE Vendor Color
- VN Vendor's (Seller's) Item Number
- VT Vintage
Description: The harvest year of the grapes that are part of the composition of a particular wine
Note 1:
Used only by the alcohol beverage industry.
- ZZ Mutually Defined
Note 1:
Self-Identifying Container via Radio Frequency ID Device

LIN05 234 **Product/Service ID** X AN 1/48 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)

Code List Summary (Total Codes: 519, Included: 43)

Code Name

- AG Age
Description: The period during which, after distillation and before bottling, distilled spirits have been stored in oak containers
Note 1:
Used only by the alcohol beverage industry.
- BC Supplier Brand Code
- BL Brand/Label
- BO Buyers Color
- BV Beverage Common Code
Note 1:
*Used only by the alcohol beverage industry.
See External Code Source 467 in Section III for reference document.*
- CG Commodity Grouping
- CH Country of Origin Code
- CM National Retail Federation Color Code
Note 1:
*This is the three-digit NRF code.
See External Code Source 88 in Section III for reference document.*
- CN Commodity Name

| Code | Name |
|-------------|---|
| | Note 1: <i>Used only by the alcohol beverage industry.</i> |
| EN | EAN/UCC - 13 Description: <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)</i> |
| EO | EAN/UCC - 8 Description: <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)</i> |
| FV | Drug Identification Number (DIN) Note 1: <i>See External Code Source 874 in Section III for reference document.</i> |
| IB | International Standard Book Number (ISBN) |
| IN | Buyer's Item Number |
| IS | International Standard Serial Number (ISSN) |
| IT | Buyer's Style Number |
| IZ | Buyer's Size Code |
| LT | Lot Number |
| MN | Model Number |
| ND | National Drug Code (NDC) Note 1: <i>Used only by the Canadian pharmaceutical retail industry.</i> |
| OC | Old U.P.C./EAN Consumer Package Code Note 1: <i>This code will be marked for deletion in Version 005020 (May 2005) and will no longer appear in Version 005030 (May 2006).</i> |
| P8 | Retail Price Look Up Number (PLU) Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| PI | Purchaser's Item Code Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| PJ | Product Date Code (A code indicating the period during which a product was manufactured.) |
| SM | National Retail Federation Size Code Note 1: <i>This is the five-digit NRF code. See External Code Source 88 in Section III for reference document.</i> |
| SZ | Vendor Alphanumeric Size Code |
| U2 | U.P.C. Shipping Container Code (1-2-5-5) Description: <i>A 13-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, and the remaining five digits are the item code</i> Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UA | U.P.C./EAN Case Code (2-5-5) Note 1: |

| Code | Name |
|-------------|---|
| | <i>This code will be deleted in the version published in 2005.</i> |
| UB | U.P.C./EAN Multipack Code Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UC | Product Variant Note 1: <i>The two or five digit code used to further define the contents of a consumer unit or multipack, also referred to as an ADD-ON code.</i> |
| UD | U.P.C./EAN Consumer Package Code (2-5-5) Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UE | U.P.C./EAN Module Code (2-5-5) Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UG | Drug U.P.C. Consumer Package Code (1-4-6-1) Description: <i>A specific instance of the Universal Product Code that uses a 4-digit manufacturer identifier code and a 6-digit product code</i> Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UH | Drug U.P.C. Shipping Container Code (1-2-4-6-1) Description: <i>A specific instance of the U.P.C. Shipping Container Code that uses a 4-digit manufacturer identifier code and a 6-digit product code</i> Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UI | U.P.C. Consumer Package Code (1-5-5) Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UK | GTIN 14-digit Data Structure Description: <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i> |
| UN | U.P.C. Case Code Number (1-1-5-5) Note 1: <i>This code will be deleted in the version published in 2005.</i> |
| UP | UCC - 12 Description: <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i> |
| VA | Vendor's Style Number |
| VE | Vendor Color |
| VN | Vendor's (Seller's) Item Number |
| VT | Vintage Description: <i>The harvest year of the grapes that are part of the composition of a particular wine</i> Note 1: <i>Used only by the alcohol beverage industry.</i> |
| ZZ | Mutually Defined Note 1: |

Code Name

Self-Identifying Container via Radio Frequency ID Device

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

Description: Identifying number for a product or service

Syntax Rules:

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

Semantics:

1. LIN01 is the line item identification

Comments:

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

SN1 Item Detail (Shipment)

| | |
|-------------------|-------------|
| 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 U.P.C./EAN Case Code or the U.P.C./EAN Shipping Container Code (SCC-14) in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

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 | | | | | | |
| Code List Summary (Total Codes: 844, Included: 1) | | | | | | |
| Code Name | | | | | | |
| CA | Case | | | | | |

Syntax Rules:

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

Semantics:

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

Comments:

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

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

Canadian Note:

The MAN segment is to be used when the PACK is a variable, single use shipping unit.

The LIN segment is to be used when the PACK is a standard shipping unit.

Element Summary:

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

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

Code List Summary (Total Codes: 21, Included: 7)

Code Name

AA EAN.UCC Serial Shipping Container Code (SSCC)

Note 1:

This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character.

See External Code Source 664 in Section III for reference document.

CP Carrier-Assigned Package ID Number

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

Note 1:

This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included.

See External Code Source 98 in Section III for reference document.

SI Self-Identifying Container via Radio Frequency ID Device

Description: Inbound containers that do not need manual routing

SM Shipper Assigned

UC U.P.C. Shipping Container Code

Note 1:

This is the fourteen-digit U.P.C. Shipping Container Code.

See External Code Source 71 in Section III for reference document.

UP U.P.C. Consumer Package Code (1-5-5-1)

Note 1:

See External Code Source 41 in Section III for reference document.

| | | | | | | |
|-------|----|-------------------|---|----|------|----------|
| 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

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

Syntax Rules:

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

Semantics:

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

Comments:

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

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 | | | | | | |
| Code List Summary (Total Codes: 250, Included: 1) | | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | |
| | | I | | Item | | |

Comments:

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

LIN Item Identification

| | |
|--------------------------|---------------------|
| Pos: 0200 | Max: 1 |
| Detail - Optional | |
| Loop: HL | Elements: 16 |

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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

EN EAN/UCC - 13

Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

IN Buyer's Item Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UK GTIN 14-digit Data Structure

Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

UN U.P.C. Case Code Number (1-1-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UP UCC - 12

Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

| | | | | | | |
|-------|-----|---------------------------|---|----|------|----------|
| LIN03 | 234 | Product/Service ID | M | AN | 1/48 | 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

EN EAN/UCC - 13

Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

IN Buyer's Item Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

Code Name

- UK GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- UN U.P.C. Case Code Number (1-1-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UP UCC - 12
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)
- VN Vendor's (Seller's) Item Number

LIN05 234 **Product/Service ID** X AN 1/48 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

- EN EAN/UCC - 13
Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
- IN Buyer's Item Number
- UA U.P.C./EAN Case Code (2-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UK GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- UN U.P.C. Case Code Number (1-1-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UP UCC - 12
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)
- VN Vendor's (Seller's) Item Number

LIN07 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

LIN08 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

- EN EAN/UCC - 13

Code Name

Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

IN Buyer's Item Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UK GTIN 14-digit Data Structure

Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

UN U.P.C. Case Code Number (1-1-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UP UCC - 12

Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

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

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| LIN10 | 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

EN EAN/UCC - 13

Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)

IN Buyer's Item Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UK GTIN 14-digit Data Structure

Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

UN U.P.C. Case Code Number (1-1-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UP UCC - 12

Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

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

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| LIN12 | 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

- EN EAN/UCC - 13
Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
- IN Buyer's Item Number
- UA U.P.C./EAN Case Code (2-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UK GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- UN U.P.C. Case Code Number (1-1-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UP UCC - 12
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)
- VN Vendor's (Seller's) Item Number

| | | | | | | |
|-------|-----|---------------------------|---|----|------|------|
| LIN13 | 234 | Product/Service ID | X | AN | 1/48 | Used |
|-------|-----|---------------------------|---|----|------|------|

Description: Identifying number for a product or service

| | | | | | | |
|-------|-----|-------------------------------------|---|----|-----|------|
| LIN14 | 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

- EN EAN/UCC - 13
Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
- IN Buyer's Item Number
- UA U.P.C./EAN Case Code (2-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UK GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- UN U.P.C. Case Code Number (1-1-5-5)
Note 1:
This code will be deleted in the version published in 2005.
- UP UCC - 12
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the

Code Name

Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

LIN15 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

LIN16 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)

Code List Summary (Total Codes: 519, Included: 7)

Code Name

EN EAN/UCC - 13

Description: *Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)*

IN Buyer's Item Number

UA U.P.C./EAN Case Code (2-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UK GTIN 14-digit Data Structure

Description: *Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)*

UN U.P.C. Case Code Number (1-1-5-5)

Note 1:

This code will be deleted in the version published in 2005.

UP UCC - 12

Description: *Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)*

VN Vendor's (Seller's) Item Number

LIN17 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

Syntax Rules:

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

Semantics:

1. LIN01 is the line item identification

Comments:

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

SN1 Item Detail (Shipment)

| | |
|-------------------|-------------|
| 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 VICS Note, on the SLN segment, at the pack level.

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|--|-----|------------------------------------|-----|------|---------|----------|
| SN102 | 382 | Number of Units Shipped | M | R | 1/10 | Must use |
| Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | | | | | | |
| 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 | | | | | | |

Code List Summary (Total Codes: 844, 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.

Comments:

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

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:

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

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

| | | | | | | |
|-------|-----|-----------------------|---|---|-----|------|
| 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

Code List Summary (Total Codes: 844, Included: 2)

Code Name

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

Code List Summary (Total Codes: 844, Included: 15)

Code Name

BA Bale
BG Bag
BO Bottle
BX Box
CA Case
CN Can
CT Carton
DS Display
DZ Dozen

| <u>Code</u> | <u>Name</u> |
|-------------|------------------|
| EA | Each |
| KG | Kilogram |
| LB | Pound |
| PK | Package |
| PL | Pallet/Unit Load |
| RL | Roll |

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

Description: The number of eaches per inner container

Syntax Rules:

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

Semantics:

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

Comments:

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

PID Product/Item Description

| | |
|-------------------|-------------|
| 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:

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

Description: Code indicating the format of a description

Code List Summary (Total Codes: 3, Included: 3)

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.

X Semi-structured (Code and Text)

Note 1:

The description will be found in PID04 and PID05.

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

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

Code List Summary (Total Codes: 238, 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

Code List Summary (Total Codes: 194, 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

Note 1:

CL Collateral

GW Gift with purchase

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| | | <i>OS Size not within normal size range (odd size)</i> | | | | |
| | | <i>PP Product sold only as part of a prepack (assortment)</i> | | | | |
| | | <i>PW Purchase with purchase</i> | | | | |
| | | <i>RN Product cannot be reordered</i> | | | | |
| | | <i>RY Product can be reordered</i> | | | | |
| 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. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

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

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

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

Code List Summary (Total Codes: 556, 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)

Code List Summary (Total Codes: 14, 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. 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

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

Code List Summary (Total Codes: 1731, Included: 3)

Code Name

CO Customer Order Number

Note 1:

Customer of retailer

LT Lot Number

SE Serial Number

| | | | | | | |
|-------|-----|--------------------------|---|----|------|----------|
| REF02 | 127 | Reference Identification | X | AN | 1/50 | Must use |
|-------|-----|--------------------------|---|----|------|----------|

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

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

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

Code List Summary (Total Codes: 1280, Included: 1)

Code Name

036 Expiration

Description: *Date coverage expires*

Note 1:

Date coverage expires. 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. 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.

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.