

**857 Shipment and Billing Notice**

**Version 5010(additional versions also available)**

Coca-Cola Refreshments – Customer Business Solutions

**857 Shipment and Billing Notice**

**Functional Group ID=BS**

**Introduction:**

This X12 Transaction Set contains the format and establishes the data contents of the Shipment and Billing Notice Transaction Set (857) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the recipient of a shipment with data for both receipt planning and payment generation. EDI and telecommunications technologies suggest efficiencies in the way business data is processed. For example, the sender of a shipment may send the recipient's receiving function a Ship Notice/Manifest (856), and the payables function an Invoice (810), even though the contents of these two documents may be largely redundant. In certain business environments, the Shipment and Billing Notice permits the consolidation of these two documents into one. Specifically, this transaction set is appropriate where the shipment data, when it includes terms and item prices, can be used both to plan receipts and to generate payment. In this environment, the exact prices for the items shipped may not be known in advance by both parties. This transaction set is not appropriate in so-called Evaluated Receipts Settlement (ERS) environments, in which the exact prices for the items shipped have been agreed upon by, and are known to, both parties in advance. This transaction set is not to be used to replace the Ship Notice/Manifest (856) or Invoice (810) individually, but only to replace both, together. For example, do not use this transaction set in place of a Ship Notice/Manifest while continuing to send either paper or electronic invoice.

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 0100 | ST | Transaction Set Header | M | 1 |  | c1 |  |  |  |  |  |  |
| M | 0200 | BHT | Beginning of Hierarchical Transaction | M | 1 |  | n1 |  |  |  |  |  |  |
|  |  |  | LOOP ID - HL |  |  | >1 |  |  |  |  |  |  |  |
| M | 0300 | HL | Hierarchical Level | M | 1 |  | n2 |  |  |  |  |  |  |
|  |  |  | LOOP ID - BS1 |  |  | 1 |  |  |  |  |  |  |  |
|  | 0400 | G05 | Total Shipment Information | O | 1 |  | n3 |  |  |  |  |  |  |
| Not Used | 0500 | TD1 | Carrier Details (Quantity and Weight) | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 0600 | TD3 | Carrier Details (Equipment) | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 0700 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 0800 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 0900 | FOB | F.O.B. Related Instructions | O | 1 |  |  |  |  |  |  |  |  |
|  | 1000 | DTM | Date/Time Reference | O | 5 |  |  |  |  |  |  |  |  |
|  | 1100 | N9 | Extended Reference Information | O | 20 |  |  |  |  |  |  |  |  |
|  | 1200 | PER | Administrative Communications Contact | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 1300 | CUR | Currency | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 10 |  |  |  |  |  |  |  |
|  | 1400 | N1 | Party Identification | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 1500 | N2 | Additional Name Information | O | 2 |  |  |  |  |  |  |  |  |
| Not Used | 1600 | N3 | Party Location | O | 2 |  |  |  |  |  |  |  |  |
| Not Used | 1700 | N4 | Geographic Location | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - LM |  |  | >1 |  |  |  |  |  |  |  |
| Not Used | 1750 | LM | Code Source Information | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 1760 | LQ | Industry Code Identification | M | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - BS2 |  |  | 1 |  |  |  |  |  |  |  |
|  | 1800 | TDS | Total Monetary Value Summary | O | 1 |  | n4 |  |  |  |  |  |  |
| Not Used | 1900 | PRF | Purchase Order Reference | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 2000 | N9 | Extended Reference Information | O | >1 |  |  |  |  |  |  |  |  |
| Not Used | 2100 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 2200 | ITD | Terms of Sale/Deferred Terms of Sale | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 2300 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 2350 | SN1 | Item Detail (Shipment) | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 2370 | ISS | Invoice Shipment Summary | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - SAC |  |  | 25 |  |  |  |  |  |  |  |
| Not Used | 2400 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 2500 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 10 |  |  |  |  |  |  |  |
| Not Used | 2600 | N1 | Party Identification | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 2700 | N2 | Additional Name Information | O | 2 |  |  |  |  |  |  |  |  |
| Not Used | 2800 | N3 | Party Location | O | 2 |  |  |  |  |  |  |  |  |
| Not Used | 2900 | N4 | Geographic Location | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - FA1 |  |  | >1 |  |  |  |  |  |  |  |
| Not Used | 2940 | FA1 | Type of Financial Accounting Data | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 2950 | FA2 | Accounting Data | M | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - BS3 |  |  | 1 |  |  |  |  |  |  |  |
|  | 3000 | PAL | Pallet Type and Load Characteristics | O | 1 |  | n5 |  |  |  |  |  |  |
| Not Used | 3050 | SN1 | Item Detail (Shipment) | O | 1 |  |  |  |  |  |  |  |  |
|  | 3100 | MAN | Marks and Numbers Information | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - BS4 |  |  | 1 |  |  |  |  |  |  |  |
| Not Used | 3200 | LX | Transaction Set Line Number | O | 1 |  | n6 |  |  |  |  |  |  |
| Not Used | 3250 | N9 | Extended Reference Information | O | 15 |  |  |  |  |  |  |  |  |
| Not Used | 3280 | SN1 | Item Detail (Shipment) | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 3300 | PO4 | Item Physical Details | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 3400 | MEA | Measurements | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 3500 | PKG | Marking, Packaging, Loading | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 3600 | MAN | Marks and Numbers Information | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - BS5 |  |  | 1 |  |  |  |  |  |  |  |
|  | 3700 | IT1 | Baseline Item Data (Invoice) | O | 1 |  | n7 |  |  |  |  |  |  |
| Not Used | 3800 | IT3 | Additional Item Data | O | 1 |  |  |  |  |  |  |  |  |
|  | 3900 | PO4 | Item Physical Details | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 3950 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | >1 |  |  |  |  |  |  |  |  |
| Not Used | 4000 | TC2 | Commodity | O | 5 |  |  |  |  |  |  |  |  |
| Not Used | 4100 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 4200 | CTP | Pricing Information | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 4300 | N9 | Extended Reference Information | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 4400 | MEA | Measurements | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 4450 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
| Not Used | 4460 | ITD | Terms of Sale/Deferred Terms of Sale | O | >1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - PID |  |  | 25 |  |  |  |  |  |  |  |
|  | 4500 | PID | Product/Item Description | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 4600 | MEA | Measurements | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - SLN |  |  | 1000 |  |  |  |  |  |  |  |
| Not Used | 4700 | SLN | Subline Item Detail | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 4800 | PID | Product/Item Description | O | 25 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - SAC |  |  | 25 |  |  |  |  |  |  |  |
|  | 4900 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 5000 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - LM |  |  | >1 |  |  |  |  |  |  |  |
| Not Used | 5050 | LM | Code Source Information | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 5060 | LQ | Industry Code Identification | M | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - FA1 |  |  | >1 |  |  |  |  |  |  |  |
| Not Used | 5070 | FA1 | Type of Financial Accounting Data | O | 1 |  |  |  |  |  |  |  |  |
| Not Used | 5080 | FA2 | Accounting Data | M | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | 5100 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** BHT01, Hierarchical Structure Code, may only contain the code values 0001, 0002, and 0003.

When BHT01, the Hierarchical Structure Code, contains a value of 0001, the levels of the transaction set are Shipment, Order, Tare (pallet), Pack (carton), Subpack, and Item. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the item level; however, the pack level may be omitted.

When BHT01, the Hierarchical Structure Code, contains a value of 0002, the levels of the transaction set are Shipment, Order, Item, Tare (pallet), Pack (carton), and Subpack. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the pack level; however, the tare level may be omitted.

When BHT01, Hierarchical Structure Code, contains a value of 0003, the levels of the transaction set are Shipment, Tare (pallet), Pack (carton), Subpack, Order and Item. The levels, when used, must always appear ( in the transaction set) in the above order, e.g., the pack level can not be subordinate to the order level, however the pack level may be omitted.

BHT03 and BHT04 are mandatory.

**2.** HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.

HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.

HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

**3.** The BS1 loop may only be used at the Shipment Level.

The transaction set shall contain one and only one occurrence of the BS1 loop, Shipment level.

**4.** The BS2 loop may only be used at the Order Level.

The Transaction Set shall contain at least one occurrence of the BS2 loop, Order Level.

**5.** The BS3 loop may only be used at the Tare (pallet) Level.

**6.** The BS4 loop may only be used at the Pack (carton) and Subpack Levels. The Subpack Level may only be used in conjunction with the Pack Level.

LX01 (Assigned Number) will be sequentially assigned starting with one and incremented by one for each LX segment.

The LX segment is used to bound the segments for the Pack and Subpack Levels to allow all segments within the loop to be optional. It has no relevance to the application data being sent.

**7.** The BS5 loop may only be used at the Item Level.

There shall be at least one occurrence of the BS5 loop, Item Level within each Order Level.

**Transaction Set Comments**

**1.** The structure of this transaction set is one shipment of one or more orders.

This transaction set is used to convey information that is normally found on a shipping/receiving document and a invoice, in a paper environment. In most cases prices are excluded from the receiving documents. Care should be exercised to keep this information from the receiving area if it is the current practice to exclude such information. It may be prudent to consult an auditor or legal representative if there is any question.

**Segment: ST Transaction Set Header**

**Position:** 0100

**Loop:**

**Level:**

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes:** **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.

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **ST01** | **143** | **Transaction Set Identifier Code** | | | | **M** | **1** | **ID 3/3** | |
|  | | | Code uniquely identifying a Transaction Set | | | | | | |
|  | | | | 857 |  | Shipment and Billing Notice | | | |
| **M** | **ST02** | **329** | **Transaction Set Control Number** | | | | **M** | **1** | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | | | |
| **X** | **ST03** | **1705** | **Implementation Convention Reference** | | | | **O** | **1** | **AN 1/35** | |

**Segment: BHT Beginning of Hierarchical Transaction**

**Position:** 0200

**Loop:**

**Level:**

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time

**Syntax Notes:**

**Semantic Notes:** **1** BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.

**2** BHT04 is the date the transaction was created within the business application system.

**3** BHT05 is the time the transaction was created within the business application system.

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **BHT01** | **1005** | **Hierarchical Structure Code** | | | | **M** | **1** | **ID 4/4** | |
|  | | | Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set | | | | | | |
|  | | | | 0001 |  | Shipment, Order, Packaging, Item | | | |
| **M** | **BHT02** | **353** | **Transaction Set Purpose Code** | | | | **M** | **1** | **ID 2/2** | |
|  | | | Code identifying purpose of transaction set | | | | | | |
|  | | | | 00 |  | Original | | | |
|  | **BHT03** | **127** | **Reference Identification** | | | | **O** | **1** | **AN 1/50** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
|  | **BHT04** | **373** | **Date** | | | | **O** | **1** | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
|  | **BHT05** | **337** | **Time** | | | | **O** | **1** | **TM 4/8** | |
|  | | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | | | | | | |
| **X** | **BHT06** | **640** | **Transaction Type Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |

**Segment: HL Hierarchical Level**

**Position:** 0300

**Loop:** HL Mandatory

**Level:**

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes:**

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

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

**2** 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.

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

**4** 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.

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

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **HL01** | **628** | **Hierarchical ID Number** | | | | **M** | **1** | **AN 1/12** | |
|  | | | A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | | | | |
|  | **HL02** | **734** | **Hierarchical Parent ID Number** | | | | **O** | **1** | **AN 1/12** | |
|  | | | Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | | | | | | |
| **M** | **HL03** | **735** | **Hierarchical Level Code** | | | | **M** | **1** | **ID 1/2** | |
|  | | | Code defining the characteristic of a level in a hierarchical structure | | | | | | |
|  | | | | I |  | Item | | | |
|  | | | | O |  | Order | | | |
|  | | | | S |  | Shipment | | | |
|  | | | | T |  | Shipping Tare | | | |
| **X** | **HL04** | **736** | **Hierarchical Child Code** | | | | **O** | **1** | **ID 1/1** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |

**Segment: G05 Total Shipment Information**

**Position:** 0400

**Loop:** BS1 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

**Purpose:** To provide totals relating to the shipment

**Syntax Notes:** **1** If either G0501 or G0502 is present, then the other is required.

**2** At least one of G0501 G0503 or G0505 is required.

**3** If either G0503 or G0504 is present, then the other is required.

**4** If either G0505 or G0506 is present, then the other is required.

**5** If either G0507 or G0508 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **G0501** | **382** | **Number of Units Shipped** | | | | **X** | **1** | **R 1/10** | |
|  | | | Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | | | | | | |
|  | **G0502** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | | | |
|  | | | | CA |  | Case | | | |
| **X** | **G0503** | **81** | **Weight** | | | | **X** | **1** | **R 1/10** | |
| **X** | **G0504** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **G0505** | **183** | **Volume** | | | | **X** | **1** | **R 1/8** | |
| **X** | **G0506** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **G0507** | **80** | **Lading Quantity** | | | | **X** | **1** | **N0 1/7** | |
| **X** | **G0508** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |

**Segment: DTM Date/Time Reference**

**Position:** 1000

**Loop:** BS1 Optional

**Level:**

**Usage:** Optional

**Max Use:** 5

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

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** | **1** | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 067 |  | Current Schedule Delivery | | | |
|  | **DTM02** | **373** | **Date** | | | | **X** | **1** | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| **X** | **DTM03** | **337** | **Time** | | | | **X** | **1** | **TM 4/8** | |
| **X** | **DTM04** | **623** | **Time Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **DTM05** | **1250** | **Date Time Period Format Qualifier** | | | | **X** | **1** | **ID 2/3** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **DTM06** | **1251** | **Date Time Period** | | | | **X** | **1** | **AN 1/35** | |

**Segment: N9 Extended Reference Information**

**Position:** 1100

**Loop:** BS1 Optional

**Level:**

**Usage:** Optional

**Max Use:** 20

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

**Syntax Notes:** **1** At least one of N902 or N903 is required.

**2** If N906 is present, then N905 is required.

**3** If either C04003 or C04004 is present, then the other is required.

**4** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** N906 reflects the time zone which the time reflects.

**2** N907 contains data relating to the value cited in N902.

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **N901** | **128** | **Reference Identification Qualifier** | | | | **M** | **1** | **ID 2/3** | |
|  | | | Code qualifying the Reference Identification  19 Division Identifier | | | | | | |
|  | | | | IK |  | Invoice Number | | | |
|  | **N902** | **127** | **Reference Identification** | | | | **X** | **1** | **AN 1/50** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
|  | **N903** | **369** | **Free-form Description** | | | | **X** | **1** | **AN 1/45** | |
|  | | | Free-form descriptive text | | | | | | |
| **X** | **N904** | **373** | **Date** | | | | **O** | **1** | **DT 8/8** | |
| **X** | **N905** | **337** | **Time** | | | | **X** | **1** | **TM 4/8** | |
| **X** | **N906** | **623** | **Time Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **N907** | **C040** | **Reference Identifier** | | | | **O** | **1** |  | |
|  | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | | | | | |
| **X** | **C04001** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | |
|  | | | Code qualifying the Reference Identification | | | | | | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **C04002** | **127** | **Reference Identification** | | | | **M** |  | **AN 1/50** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
| **X** | **C04003** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | |
|  | | | Code qualifying the Reference Identification | | | | | | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **C04004** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/50** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
| **X** | **C04005** | **128** | **Reference Identification Qualifier** | | | | **X** |  | **ID 2/3** | |
|  | | | Code qualifying the Reference Identification | | | | | | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **C04006** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/50** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |

**Segment: PER Administrative Communications Contact**

**Position:** 1200

**Loop:** BS1 Optional

**Level:**

**Usage:** Optional

**Max Use:** 5

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

**Syntax Notes:** **1** If either PER03 or PER04 is present, then the other is required.

**2** If either PER05 or PER06 is present, then the other is required.

**3** If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **PER01** | **366** | **Contact Function Code** | | | | **M** | **1** | **ID 2/2** | |
|  | | | Code identifying the major duty or responsibility of the person or group named | | | | | | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
|  | **PER02** | **93** | **Name** | | | | **O** | **1** | **AN 1/60** | |
|  | | | Free-form name | | | | | | |
|  | **PER03** | **365** | **Communication Number Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code identifying the type of communication number | | | | | | |
|  | | | | TE |  | Telephone | | | |
|  | **PER04** | **364** | **Communication Number** | | | | **X** | **1** | **AN 1/256** | |
|  | | | Complete communications number including country or area code when applicable | | | | | | |
|  | **PER05** | **365** | **Communication Number Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code identifying the type of communication number | | | | | | |
|  | | | | EM |  | Electronic Mail | | | |
|  | **PER06** | **364** | **Communication Number** | | | | **X** | **1** | **AN 1/256** | |
|  | | | Complete communications number including country or area code when applicable | | | | | | |
| **X** | **PER07** | **365** | **Communication Number Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PER08** | **364** | **Communication Number** | | | | **X** | **1** | **AN 1/256** | |
| **X** | **PER09** | **443** | **Contact Inquiry Reference** | | | | **O** | **1** | **AN 1/20** | |

**Segment: N1 Party Identification**

**Position:** 1400

**Loop:** N1 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**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.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **N101** | **98** | **Entity Identifier Code** | | | | **M** | **1** | **ID 2/3** | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | |
|  | | | | SF |  | Ship From | | | |
|  | | | | ST |  | Ship To | | | |
|  | **N102** | **93** | **Name** | | | | **X** | **1** | **AN 1/60** | |
|  | | | Free-form name | | | | | | |
|  | **N103** | **66** | **Identification Code Qualifier** | | | | **X** | **1** | **ID 1/2** | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | |
|  | | | | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | |
|  | **N104** | **67** | **Identification Code** | | | | **X** | **1** | **AN 2/80** | |
|  | | | Code identifying a party or other code | | | | | | |
| **X** | **N105** | **706** | **Entity Relationship Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **N106** | **98** | **Entity Identifier Code** | | | | **O** | **1** | **ID 2/3** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |

**Segment: TDS Total Monetary Value Summary**

**Position:** 1800

**Loop:** BS2 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the total invoice discounts and amounts

**Syntax Notes:**

**Semantic Notes:** **1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

**2** TDS02 indicates the amount upon which the terms discount amount is calculated.

**3** TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).

**4** TDS04 indicates the total amount of terms discount.

**Comments:** **1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **TDS01** | **610** | **Amount** | **M** | **1** | **N2 1/15** | |
|  | | | Monetary amount | | | |
| **X** | **TDS02** | **610** | **Amount** | **O** | **1** | **N2 1/15** | |
| **X** | **TDS03** | **610** | **Amount** | **O** | **1** | **N2 1/15** | |
| **X** | **TDS04** | **610** | **Amount** | **O** | **1** | **N2 1/15** | |

**Segment: PAL Pallet Type and Load Characteristics**

**Position:** 3000

**Loop:** BS3 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** If either PAL05 or PAL06 is present, then the other is required.

**2** If PAL07 is present, then PAL10 is required.

**3** If PAL08 is present, then PAL10 is required.

**4** If PAL09 is present, then PAL10 is required.

**5** If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.

**6** If either PAL11 or PAL12 is present, then the other is required.

**7** If either PAL13 or PAL14 is present, then the other is required.

**Semantic Notes:** **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.

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PAL01** | **883** | **Pallet Type Code** | | | | **O** | **1** | **ID 1/2** | |
|  | | | Code indicating the type of pallet | | | | | | |
|  | | | | 6 |  | Wood | | | |
| **X** | **PAL02** | **884** | **Pallet Tiers** | | | | **O** | **1** | **N0 1/3** | |
| **X** | **PAL03** | **885** | **Pallet Blocks** | | | | **O** | **1** | **N0 1/3** | |
| **X** | **PAL04** | **356** | **Pack** | | | | **O** | **1** | **N0 1/6** | |
| **X** | **PAL05** | **395** | **Unit Weight** | | | | **X** | **1** | **R 1/8** | |
| **X** | **PAL06** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PAL07** | **82** | **Length** | | | | **X** | **1** | **R 1/8** | |
| **X** | **PAL08** | **189** | **Width** | | | | **X** | **1** | **R 1/8** | |
| **X** | **PAL09** | **65** | **Height** | | | | **X** | **1** | **R 1/8** | |
| **X** | **PAL10** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PAL11** | **384** | **Gross Weight per Pack** | | | | **X** | **1** | **R 1/9** | |
| **X** | **PAL12** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PAL13** | **385** | **Gross Volume per Pack** | | | | **X** | **1** | **R 1/9** | |
| **X** | **PAL14** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PAL15** | **399** | **Pallet Exchange Code** | | | | **O** | **1** | **ID 1/1** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PAL16** | **810** | **Inner Pack** | | | | **O** | **1** | **N0 1/6** | |
| **X** | **PAL17** | **1699** | **Pallet Structure Code** | | | | **O** | **1** | **ID 1/1** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |

**Segment: MAN Marks and Numbers Information**

**Position:** 3100

**Loop:** BS3 Optional

**Level:**

**Usage:** Optional

**Max Use:** 10

**Purpose:** To indicate identifying marks and numbers for shipping containers

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

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

**Semantic Notes:** **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.

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.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **MAN01** | **88** | **Marks and Numbers Qualifier** | | | | **M** | **1** | **ID 1/2** | |
|  | | | Code specifying the application or source of Marks and Numbers (87) | | | | | | |
|  | | | | GM |  | EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier | | | |
| **M** | **MAN02** | **87** | **Marks and Numbers** | | | | **M** | **1** | **AN 1/48** | |
|  | | | Marks and numbers used to identify a shipment or parts of a shipment | | | | | | |
| **X** | **MAN03** | **87** | **Marks and Numbers** | | | | **O** | **1** | **AN 1/48** | |
| **X** | **MAN04** | **88** | **Marks and Numbers Qualifier** | | | | **X** | **1** | **ID 1/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **MAN05** | **87** | **Marks and Numbers** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **MAN06** | **87** | **Marks and Numbers** | | | | **O** | **1** | **AN 1/48** | |

**Segment: IT1 Baseline Item Data (Invoice)**

**Position:** 3700

**Loop:** BS5 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax Notes:** **1** If any of IT102 IT103 or IT104 is present, then all are required.

**2** If either IT106 or IT107 is present, then the other is required.

**3** If either IT108 or IT109 is present, then the other is required.

**4** If either IT110 or IT111 is present, then the other is required.

**5** If either IT112 or IT113 is present, then the other is required.

**6** If either IT114 or IT115 is present, then the other is required.

**7** If either IT116 or IT117 is present, then the other is required.

**8** If either IT118 or IT119 is present, then the other is required.

**9** If either IT120 or IT121 is present, then the other is required.

**10** If either IT122 or IT123 is present, then the other is required.

**11** If either IT124 or IT125 is present, then the other is required.

**Semantic Notes:** **1** IT101 is the line item identification.

**Comments:** **1** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

**2** IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **IT101** | **350** | **Assigned Identification** | | | | **O** | **1** | **AN 1/20** | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | |
|  | **IT102** | **358** | **Quantity Invoiced** | | | | **X** | **1** | **R 1/15** | |
|  | | | Number of units invoiced (supplier units) | | | | | | |
|  | **IT103** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | | | |
|  | | | | CA |  | Case | | | |
|  | **IT104** | **212** | **Unit Price** | | | | **X** | **1** | **R 1/17** | |
|  | | | Price per unit of product, service, commodity, etc. | | | | | | |
| **X** | **IT105** | **639** | **Basis of Unit Price Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
|  | **IT106** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | |
|  | | | | UP |  | UCC - 12 | | | |
|  | | | | | | 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.) | | | |
|  | **IT107** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
|  | | | Identifying number for a product or service | | | | | | |
| **X** | **IT108** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | |
| **X** | **IT109** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
|  | | | Identifying number for a product or service | | | | | | |
| **X** | **IT110** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT111** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT112** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT113** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT114** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT115** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT116** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT117** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT118** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT119** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT120** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT121** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT122** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT123** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |
| **X** | **IT124** | **235** | **Product/Service ID Qualifier** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **IT125** | **234** | **Product/Service ID** | | | | **X** | **1** | **AN 1/48** | |

**Segment: PO4 Item Physical Details**

**Position:** 3900

**Loop:** BS5 Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** If either PO402 or PO403 is present, then the other is required.

**2** If PO405 is present, then PO406 is required.

**3** If either PO406 or PO407 is present, then the other is required.

**4** If either PO408 or PO409 is present, then the other is required.

**5** If PO410 is present, then PO413 is required.

**6** If PO411 is present, then PO413 is required.

**7** If PO412 is present, then PO413 is required.

**8** If PO413 is present, then at least one of PO410 PO411 or PO412 is required.

**9** If PO417 is present, then PO416 is required.

**10** If PO418 is present, then PO404 is required.

**Semantic Notes:** **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.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO401** | **356** | **Pack** | **O** | **1** | **N0 1/6** | |
|  | | | The number of inner containers, or number of eaches if there are no inner containers, per outer container | | | |
| **X** | **PO402** | **357** | **Size** | **X** | **1** | **R 1/8** | |
| **X** | **PO403** | **355** | **Unit or Basis for Measurement Code** | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO404** | **103** | **Packaging Code** | **X** | **1** | **AN 3/5** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO405** | **187** | **Weight Qualifier** | **O** | **1** | **ID 1/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO406** | **384** | **Gross Weight per Pack** | **X** | **1** | **R 1/9** | |
| **X** | **PO407** | **355** | **Unit or Basis for Measurement Code** | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO408** | **385** | **Gross Volume per Pack** | **X** | **1** | **R 1/9** | |
| **X** | **PO409** | **355** | **Unit or Basis for Measurement Code** | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO410** | **82** | **Length** | **X** | **1** | **R 1/8** | |
| **X** | **PO411** | **189** | **Width** | **X** | **1** | **R 1/8** | |
| **X** | **PO412** | **65** | **Height** | **X** | **1** | **R 1/8** | |
| **X** | **PO413** | **355** | **Unit or Basis for Measurement Code** | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO414** | **810** | **Inner Pack** | **O** | **1** | **N0 1/6** | |
| **X** | **PO415** | **752** | **Surface/Layer/Position Code** | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | |
| **X** | **PO416** | **350** | **Assigned Identification** | **X** | **1** | **AN 1/20** | |
| **X** | **PO417** | **350** | **Assigned Identification** | **O** | **1** | **AN 1/20** | |
| **X** | **PO418** | **1470** | **Number** | **O** | **1** | **N0 1/9** | |

**Segment: PID Product/Item Description**

**Position:** 4500

**Loop:** PID Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** If PID04 is present, then PID03 is required.

**2** At least one of PID04 or PID05 is required.

**3** If PID07 is present, then PID03 is required.

**4** If PID08 is present, then PID04 is required.

**5** If PID09 is present, then PID05 is required.

**Semantic Notes:** **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.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **PID01** | **349** | **Item Description Type** | | | | **M** | **1** | **ID 1/1** | |
|  | | | Code indicating the format of a description | | | | | | |
|  | | | | F |  | Free-form | | | |
| **X** | **PID02** | **750** | **Product/Process Characteristic Code** | | | | **O** | **1** | **ID 2/3** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PID03** | **559** | **Agency Qualifier Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PID04** | **751** | **Product Description Code** | | | | **X** | **1** | **AN 1/12** | |
|  | **PID05** | **352** | **Description** | | | | **X** | **1** | **AN 1/80** | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | |
| **X** | **PID06** | **752** | **Surface/Layer/Position Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PID07** | **822** | **Source Subqualifier** | | | | **O** | **1** | **AN 1/15** | |
| **X** | **PID08** | **1073** | **Yes/No Condition or Response Code** | | | | **O** | **1** | **ID 1/1** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **PID09** | **819** | **Language Code** | | | | **O** | **1** | **ID 2/3** | |

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

**Position:** 4900

**Loop:** SAC Optional

**Level:**

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** At least one of SAC02 or SAC03 is required.

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

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

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

**5** If SAC11 is present, then SAC10 is required.

**6** If SAC14 is present, then SAC13 is required.

**7** If SAC16 is present, then SAC15 is required.

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

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

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

**3** SAC08 is the allowance or charge rate per unit.

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

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

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

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

**7** SAC16 is used to identify the language being used in SAC15.

**Comments:** **1** SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.

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

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **SAC01** | **248** | **Allowance or Charge Indicator** | | | | **M** | **1** | **ID 1/1** | |
|  | | | Code which indicates an allowance or charge for the service specified | | | | | | |
|  | | | | A |  | Allowance | | | |
|  | **SAC02** | **1300** | **Service, Promotion, Allowance, or Charge Code** | | | | **X** | **1** | **ID 4/4** | |
|  | | | Code identifying the service, promotion, allowance, or charge | | | | | | |
|  | | | | F800 |  | Promotional Allowance | | | |
| **X** | **SAC03** | **559** | **Agency Qualifier Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **SAC04** | **1301** | **Agency Service, Promotion, Allowance, or Charge Code** | | | | **X** | **1** | **AN 1/10** | |
| **X** | **SAC05** | **610** | **Amount** | | | | **O** | **1** | **N2 1/15** | |
| **X** | **SAC06** | **378** | **Allowance/Charge Percent Qualifier** | | | | **X** | **1** | **ID 1/1** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **SAC07** | **332** | **Percent, Decimal Format** | | | | **X** | **1** | **R 1/6** | |
|  | **SAC08** | **118** | **Rate** | | | | **O** | **1** | **R 1/9** | |
|  | | | Rate expressed in the standard monetary denomination for the currency specified | | | | | | |
| **X** | **SAC09** | **355** | **Unit or Basis for Measurement Code** | | | | **X** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **SAC10** | **380** | **Quantity** | | | | **X** | **1** | **R 1/15** | |
| **X** | **SAC11** | **380** | **Quantity** | | | | **O** | **1** | **R 1/15** | |
| **X** | **SAC12** | **331** | **Allowance or Charge Method of Handling Code** | | | | **O** | **1** | **ID 2/2** | |
|  | | | Refer to 005010 Data Element Dictionary for acceptable code values. | | | | | | |
| **X** | **SAC13** | **127** | **Reference Identification** | | | | **X** | **1** | **AN 1/50** | |
| **X** | **SAC14** | **770** | **Option Number** | | | | **O** | **1** | **AN 1/20** | |
| **X** | **SAC15** | **352** | **Description** | | | | **X** | **1** | **AN 1/80** | |
| **X** | **SAC16** | **819** | **Language Code** | | | | **O** | **1** | **ID 2/3** | |

**Segment: SE Transaction Set Trailer**

**Position:** 5100

**Loop:**

**Level:**

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes:**

**Comments:** **1** SE is the last segment of each transaction set.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **SE01** | **96** | **Number of Included Segments** | **M** | **1** | **N0 1/10** | |
|  | | | Total number of segments included in a transaction set including ST and SE segments | | | |
| **M** | **SE02** | **329** | **Transaction Set Control Number** | **M** | **1** | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | |