

**850 Purchase Order**

**Version 4010 (5010 also available)**

**Coca-Cola Refreshments – Customer Business Solutions**

**850 Purchase Order**

**Functional Group ID=PO**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

**Heading:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Must Use | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| Must Use | 020 | BEG | Beginning Segment for Purchase Order | M | 1 |  |  |  |  |  |  |  |  |
|  | 150 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 200 |  |  |  |  |  |  |  |
|  | 310 | N1 | Name | O | 1 |  |  |  |  |  |  |  |  |
|  | 330 | N3 | Address Information | O | 2 |  |  |  |  |  |  |  |  |
|  | 340 | N4 | Geographic Location | O | >1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - PO1 |  |  | 100000 |  |  |  |  |  |  |  |
| Must Use | 010 | PO1 | Baseline Item Data | M | 1 |  | n1 |  |  |  |  |  |  |
|  | 050 | PID | Product/Item Description | O | 1 | 1000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Summary:**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - CTT |  |  | 1 |  |  |  |  |  |  |  |
|  | 010 | CTT | Transaction Totals | O | 1 |  | n2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Must Use | 030 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** PO102 is required.

**2.** The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

**Segment: ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading

**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).

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **ST01** | **143** | **Transaction Set Identifier Code** | | | | **M** | **ID 3/3** | | |
|  | | | Code uniquely identifying a Transaction Set | | | | | | |
|  | | | | 850 |  | Purchase Order | | |
| **M** | **ST02** | **329** | **Transaction Set Control Number** | | | | **M** | **AN 4/9** | | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | | | |

**Segment: BEG Beginning Segment for Purchase Order**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:** **1** BEG05 is the date assigned by the purchaser to purchase order.

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **M** | **BEG01** | **353** | **Transaction Set Purpose Code** | **M** | **ID 2/2** | |
|  | | | Code identifying purpose of transaction set | | |
|  | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| **M** | **BEG02** | **92** | **Purchase Order Type Code** | **M** | **ID 2/2** | |
|  | | | Code specifying the type of Purchase Order | | |
|  | | | NE – New Order  SA – Stand –alone Order | | |
| **M** | **BEG03** | **324** | **Purchase Order Number** | **M** | **AN 1/22** | |
|  | | | Identifying number for Purchase Order assigned by the orderer/purchaser | | |
| **M** | **BEG05** | **373** | **Date** | **M** | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | |

**Segment: DTM Date/Time Reference**

**Position:** 150

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**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** | **ID 3/3** | | |
|  | | | Code specifying type of date or time, or both date and time  002 Delivery Requested  010 Requested Ship  074 Requested for Delivery (Prior to and including) | | | | | | |
|  | | | |  |  |  | | |
| **M** | **DTM02** | **373** | **Date** | | | | **X** | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: N1 Name**

**Position:** 310

**Loop:** N1 Optional

**Level:** Heading

**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** | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | |
|  | | | | ST |  | Ship To | | |
|  | **N102** | **93** | **Name** | | | | **X** | **AN 1/60** | | |
|  | | | Free-form name | | | | | | |
| **M** | **N103** | **66** | **Identification Code Qualifier** | | | | **X** | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67)  91 Assigned by Seller or Seller’s Agent | | | | | | |
|  | | | | 92 |  | Assigned by Buyer or Buyer’s Agent | | |
| **M** | **N104** | **67** | **Identification Code** | | | | **X** | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | |
|  | | | Store number – most common | | | | | | |

**Segment: N3 Address Information**

**Position:** 330

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 2

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

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **O** | **N301** | **166** | **Address Information** | **M** | **AN 1/55** | |
|  | | | Address information | | |
|  | | |  | | |
|  | **N302** | **166** | **Address Information** | **O** | **AN 1/55** | |
|  | | | Address information | | |

**Segment: N4 Geographic Location**

**Position:** 340

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** >1

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

**Syntax Notes:** **1** If N406 is present, then N405 is required.

**Semantic Notes:**

**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.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **O** | **N401** | **19** | **City Name** | **O** | **AN 2/30** | |
|  | | | Free-form text for city name | | |
|  | **N402** | **156** | **State or Province Code** | **O** | **ID 2/2** | |
|  | | | Code (Standard State/Province) as defined by appropriate government agency | | |
|  | **N403** | **116** | **Postal Code** | **O** | **ID 3/15** | |
|  | | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | |

**Segment: PO1 Baseline Item Data**

**Position:** 010

**Loop:** PO1 Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic and most frequently used line item data

**Syntax Notes:** **1** If PO103 is present, then PO102 is required.

**2** If PO105 is present, then PO104 is required.

**3** If either PO106 or PO107 is present, then the other is required.

**4** If either PO108 or PO109 is present, then the other is required.

**5** If either PO110 or PO111 is present, then the other is required.

**6** If either PO112 or PO113 is present, then the other is required.

**7** If either PO114 or PO115 is present, then the other is required.

**8** If either PO116 or PO117 is present, then the other is required.

**9** If either PO118 or PO119 is present, then the other is required.

**10** If either PO120 or PO121 is present, then the other is required.

**11** If either PO122 or PO123 is present, then the other is required.

**12** If either PO124 or PO125 is present, then the other is required.

**Semantic Notes:**

**Comments:** **1** See the Data Element Dictionary for a complete list of IDs.

**2** PO101 is the line item identification.

**3** PO106 through PO125 provide for ten different product/service IDs per 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**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO101** | **350** | **Assigned Identification** | | | | | **O** | **AN 1/20** | | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | | |
| **M** | **PO102** | **330** | **Quantity Ordered** | | | | | **X** | **R 1/15** | | |
|  | | | Quantity ordered | | | | | | | |
| **M** | **PO103** | **355** | **Unit or Basis for Measurement Code** | | | | | **O** | **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 | | |
|  | | | |  | |  |  | | |
| **M** | **PO106** | **235** | **Product/Service ID Qualifier** | | | | | **X** | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | | UI |  | U.P.C. Consumer Package Code (1-5-5) | | |
|  | | | | | UP |  | U.P.C Consumer Package Code (1-5-5-1) | | |
|  | | | | |  |  |  | | |
| **M** | **PO107** | **234** | **Product/Service ID** | | | | | **X** | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | UPC if PO106 = "UI" or “UP” | | | | | | | |
|  | | | Product Description | | | | | | | |

Segment: **PID Product/Item Description**

Position: 0600

Loop: PID Optional

Level: Detail

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.

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.

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.

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 description | | | |
|  | **PID05** | **352** | **Description** | **X** | **1** | **AN 1/80** | |
|  | | | A free-form description to clarify the related data elements and their content | | | |

Segment: **CTT Transaction Totals**

**Position:** 010

**Loop:** CTT Optional

**Level:** Summary

**Usage:** Optional

**Max Use:** 1

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

**Syntax Notes:** **1** If either CTT03 or CTT04 is present, then the other is required.

**2** If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:**

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

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **M** | **CTT01** | **354** | **Number of Line Items** | **M** | **N0 1/6** | |
|  | | | Total number of line items in the transaction set | | |
|  | **CTT02** | **347** | **Hash Total** | **O** | **R 1/10** | |
|  | | | Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. --------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. | | |
|  | **CTT03** | **81** | **Weight** | **X** | **R 1/10** | |
|  | | | Numeric value of weight | | |
|  | **CTT04** | **355** | **Unit or Basis for Measurement Code** | **X** | **ID 2/2** | |
|  | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | |
|  | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
|  | **CTT05** | **183** | **Volume** | **X** | **R 1/8** | |
|  | | | Value of volumetric measure | | |
|  | **CTT06** | **355** | **Unit or Basis for Measurement Code** | **X** | **ID 2/2** | |
|  | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | |
|  | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
|  | **CTT07** | **352** | **Description** | **O** | **AN 1/80** | |
|  | | | A free-form description to clarify the related data elements and their content | | |

**Segment: SE Transaction Set Trailer**

**Position:** 030

**Loop:**

**Level:** Summary

**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** | **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** | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | |