VendorNet 850

EDI Purchase Order - X12 - Version 4010

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.

Segments:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
	ISA	Interchange Control Header	M	1		Must Use
	GS	Functional Group Header	M	1		Must Use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	ST	Transaction Set Header	M	1		Must use
020	BEG	Beginning Segment for Purchase Order	M	1		Must use
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		Used
LOOP ID – N9					**1000**	
295	N9	Reference Identification	O	1		Used
300	MSG	Message Text	O	1000		Used
LOOP ID - N1						
310	N1	Name	O	1		Used
320	N2	Additional Name Information	O	1		Used
330	N3	Address Information	O	1		Used
340	N4	Geographic Location	O	1		Used
360	PER	Administrative Communications Contact	O	1		Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
LOOP ID – PO1					**100000**	
010	PO1	Baseline Item Data	M	1		Must use
LOOP ID – PID					**1000**	
050	PID	Product/Item Description	O	1		Used
LOOP ID – SAC					**25**	
210	DTM	Date/Time Reference	O	10		Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
LOOP ID – CTT						
010	CTT	Transaction Totals	O	1		Used
030	SE	Transaction Set Trailer	M	1		Must use

Segments:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
	GE	Functional Group Trailer	M	1		Must Use
	IEA	Interchange Control Trailer	M	1		Must Use

ISA Interchange Control Header

Pos: **Max: 1**
- Mandatory
Loop: N/A   **Elements: 16**

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	**I01**	**Authorization Information Qualifier** **Description:** Code to identify the type of information in the Authorization Information All valid standard codes are used.	**M**	**ID**	**2/2**	**Must use**
ISA02	**I02**	**Authorization Information** **Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	**M**	**AN**	**10/10**	**Must use**
ISA03	**I03**	**Security Information Qualifier** **Description:** Code to identify the type of information in the Security Information All valid standard codes are used.	**M**	**ID**	**2/2**	**Must use**
ISA04	**I04**	**Security Information** **Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	**M**	**AN**	**10/10**	**Must use**
ISA05	**I05**	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	**M**	**ID**	**2/2**	**Must use**
ISA06	**I06**	**Interchange Sender ID** **Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	**M**	**AN**	**15/15**	**Must use**
ISA07	**I05**	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	**M**	**ID**	**2/2**	**Must use**
ISA08	**I08**	**Interchange Receiver ID** **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	**M**	**AN**	**15/15**	**Must use**
ISA09	**I08**	**Interchange Date** **Description:** Date of the interchange	**M**	**DT**	**6/6**	**Must use**
ISA10	**I09**	**Interchange Time** **Description:** Time of the interchange	**M**	**TM**	**4/4**	**Must use**
ISA11	**I10**	**Interchange Control Standards Identifier** **Description:** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	**M**	**ID**	**1/1**	**Must use**

		All valid standard codes are used.				
ISA12	**I11**	**Interchange Control Version Number** **Description:** This version number covers the interchange control segments All valid standard codes are used.	**M**	**ID**	**5/5**	**Must use**
ISA13	**I12**	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	**M**	**N0**	**9/9**	**Must use**
ISA14	**I13**	**Acknowledgment Requested** **Description:** Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	**M**	**ID**	**1/1**	**Must use**
ISA15	**I14**	**Usage Indicator** **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	**M**	**ID**	**1/1**	**Must use**
ISA16	**I15**	**Component Element Separator** **Description:** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	**M**		**1/1**	**Must use**

GS   **Functional Group Header**

Pos: **Max: 1**
- Mandatory
Loop: N/A   **Elements: 8**

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	**479**	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets All valid standard codes are used.	**M**	**ID**	**2/2**	**Must use**
GS02	**142**	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	**M**	**AN**	**2/15**	**Must use**
GS03	**124**	**Application Receiver's Code** **Description:** Code identifying party receiving transmission. Codes agreed to by trading partners	**M**	**AN**	**2/15**	**Must use**
GS04	**373**	**Date** **Description:** Date expressed as CCYYMMDD	**M**	**DT**	**8/8**	**Must use**
GS05	**337**	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23) and M = minutes (00-59)	**M**	**TM**	**4/8**	**Must use**
GS06	**28**	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	**M**	**N0**	**1/9**	**Must use**
GS07	**455**	**Responsible Agency Code** **Description:** Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	**M**	**ID**	**1/2**	**Must use**
GS08	**480**	**Version / Release / Industry Identifier Code** **Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed All valid standard codes are used.	**M**	**AN**	**1/12**	**Must use**

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set All valid standard codes are used.	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BEG Beginning Segment for Purchase Order

Pos: 020   **Max: 1**
Heading - Mandatory
Loop: N/A   **Elements: 5**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG01	**353**	**Transaction Set Purpose Code** **Description:** Code identifying purpose of transaction set <u>Code</u> <u>Name</u> 00 Original	**M**	**ID**	**2/2**	**Must use**
BEG02	**92**	**Purchase Order Type Code** **Description:** Code specifying the type of Purchase Order <u>Code</u> <u>Name</u> DS DropShip Order	**M**	**ID**	**2/2**	**Must use**
BEG03	**324**	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	**M**	**AN**	**1/22**	**Must use**
BEG04	**328**	**Release Number** **Description:** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	**O**	**AN**	**1/30**	**Not Used**
BEG05	**373**	**Date** **Description:** Date expressed as CCYYMMDD	**M**	**DT**	**8/8**	**Must use**

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

TD5 Carrier Details

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	**133**	**Routing Sequence Code** **Description:** Code describing the relationship of a carrier to a specific shipment movement	**O**	**ID**	**1/2**	**Not Used**
TD502	**66**	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identicification Code (67)	**C**	**ID**	**1/2**	**Not Used**
TD503	**67**	**Identification Code** **Description:** Code identifying a party or other code	**C**	**AN**	**2/80**	**Not Used**
TD504	**91**	**Transportation Method/Type Code** **Description:** Code specifying the method or type of transportation for the shipment	**C**	**ID**	**1/2**	**Not Used**
TD505	**387**	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	**C**	**AN**	**1/35**	**Used**

N9   Reference Identification

Pos: 295   **Max: 1**
Heading - Optional
Loop: N9   **Elements: 2**

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	**128**	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification <u>**Code**</u> <u>**Name**</u> TOC Type Of Comment	**M**	**ID**	**2/3**	**Must use**
N902	**127**	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**C**	**AN**	**1/30**	**Used**

Comments:

1. N902- Used to communicate order comments

MSG Message Text

To provide a free-form format that allows the transmission of text information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MSG01	**933**	**Free-Form Message Text** **Description:** Free-form message text	O	AN	1/264	Used
MSG02	**934**	**Printer Carriage Control Code** **Description:** A field to be used for the control of the line feed of the receiving printer **Code Name** SS Advance to new line before print	X	ID	2/2	Used

N1   Name

Pos: 310   **Max: 1**
Heading - Optional
Loop: N1   **Elements: 2**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	**98**	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **Code Name** ST Ship To BT Bill To	**M**	**ID**	**2/2**	**Must use**
N102	**93**	**Name** **Description:** Free-form name	**C**	**AN**	**1/35**	**Used**

N2 Additional Name Information

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	**98**	**Name**	**C**	**AN**	**1/35**	**Used**

Comments:

N201 – Used to communicate Company Name when provided

N3   Address Information

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	**166**	**Address Information** **Description:** Address information	**M**	**AN**	**1/35**	**Must use**
N302	**166**	**Address Information** **Description:** Address information	**O**	**AN**	**1/35**	**Used**

N4   Geographic Location

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	**19**	**City Name** **Description:** Free-form text for city name	**O**	**AN**	**2/19**	**Used**
N402	**156**	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID**	**2/2**	**Used**
N403	**116**	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O**	**ID**	**3/9**	**Used**
N404	**26**	**Country** **Description:** Code identifying the country	**O**	**ID**	**2/3**	**Used**

Comments:

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

PER Administrative Communications Contact

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** **Description:** Code identifying the major duty or responsibility of the person or group named <u>**Code**</u> <u>**Name**</u> OC Order Contact	**M**	**ID**	**2/2**	**Must Use**
PER02	**93**	**Name** **Description:** Free-form name	**O**	**AN**	**1/60**	**Used**
PER03	**365**	**Communication Number Qualifier** **Description:** Code identifying the type of communication number <u>**Code**</u> <u>**Name**</u> TE Telephone	**O**	**ID**	**2/2**	**Used**
PER04	**364**	**Communication Number** **Description:** Complete communications number including country or area code when applicable	**O**	**AN**	**1/60**	**Used**

Syntax Notes:

1. P0404 – If either PER03 or PER04 is present, then the other is required

PO1 **Baseline Item Data**

Pos: 010   **Max: 1**
Detail - Mandatory
Loop: PO1   **Elements: 9**

To specify basic and most frequently used line item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO101	**350**	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**AN**	**1/11**	**Used**
PO102	**330**	**Quantity Ordered** **Description:** Quantity ordered	**C**	**R**	**1/9**	**Used**
PO103	**355**	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **Code Name** CA Case EA Each BO Box DO Dozen	**O**	**ID**	**2/2**	**Used**
PO104	**212**	**Unit Price** **Description:** Price per unit of product, service, commodity, etc.	**C**	**R**	**1/14**	**Used**
PO105	**639**	**Basis of Unit Price Code** **Description:** Code identifying the type of unit price for an item **Code NAME** CT Contract QT Quoted	**O**	**ID**	**2/2**	**Used**
PO106	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code Name** VC Vendor's (Seller's) Catalog Number	**C**	**ID**	**2/2**	**Used**
PO107	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	**C**	**AN**	**1/30**	**Used**
PO108	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **Code Name** BP Buyer's Part Number	**C**	**ID**	**2/2**	**Used**
PO109	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	**C**	**AN**	**1/30**	**Used**

Comments:

1. PO101 is the line item identification.

PID   **Product/Item Description**

Pos: 050   **Max: 200**
Detail - Optional
Loop: PID   **Elements: 5**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	**349**	**Item Description Type** **Description:** Code indicating the format of a description **Code Name** F Free-form	**O**	**ID**	**1/1**	**Must use**
PID02	**750**	**Product/Process Characteristic Code** **Description:** Code identifying the general class of a product or process characteristic **Code Name** 08 Product	**O**	**ID**	**2/3**	**Must use**
PID03	**559**	**Agency Qualifier code**	**O**	**ID**	**2/2**	**Not Used**
PID04	**751**	**Product Description Code**	**O**	**AN**	**1/12**	**Not Used**
PID05	**352**	**Description** **Description:** A free-form description to clarify the related data elements and their content	**C**	**AN**	**1/80**	**Used**

DTM   Date/Time Reference

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time **Code Name** 038 Ship No Later	M	ID	3/3	**Must use**
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD	X	DT	8/8	**Used**

CTT **Transaction Totals**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	**354**	**Number of Line Items** **Description:** Total number of line items in the transaction set	**M**	**N0**	**1/6**	**Must use**
CTT02	**347**	**Hash Total** **Description:** 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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value being hashed.---------1855 Hash total prior to truncation.855 Hash total after truncation to three-digit field.	**O**	**R**	**1/10**	**Used**

Comments:

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

SE

Transaction Set Trailer

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	**96**	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0**	**1/10**	**Must use**
SE02	**329**	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M**	**AN**	**4/9**	**Must use**

Comments:

1. SE is the last segment of each transaction set.

GE   Functional Group Trailer

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	**97**	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M**	**N0**	**1/6**	**Must use**
GE02	**28**	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	**M**	**N0**	**1/9**	**Must use**

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA   Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	**I16**	**Number of Included Functional Groups** **Description:** A count of the number of functional groups included in an interchange	**M**	**N0**	**1/5**	**Must use**
IEA02	**I12**	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	**M**	**N0**	**9/9**	**Must use**