

810 Invoice

ELECTRONIC DATA INTERCHANGE (EDI) MAPPING X12 850 PURCHASE ORDER (004010)

Functional Group ID=**IN**

| Heading | | | | | | | | |
|----------------|----------|----------|-------------------------------|-------------|-------------|---------|-------------|------------------|
| Page No. | Pos. No. | Seg. No. | Name | Base Status | User Status | Max Use | Loop Repeat | Notes & Comments |
| 4 | 010 | ST | Transaction Set Header | M | M | 1 | | |
| 5 | 020 | BIG | Beginning Segment for Invoice | M | M | 1 | | |
| | | | LOOP ID – N1 | | | | 1 | |
| 6 | 070 | N1 | Name - Ship To | O | M | 1 | | |
| 7 | 090 | N3 | Address Information | O | M | 1 | | |
| 8 | 100 | N4 | Geographic Location | O | M | 1 | | |
| | | | LOOP ID – N1 | | | | 1 | |
| 9 | 130 | N1 | Name - Ship From | O | M | 1 | | |
| 10 | 150 | N3 | Address Information | O | M | 1 | | |
| 11 | 160 | N4 | Geographic Location | O | M | 1 | | |

| Detail | | | | | | | | |
|---------------|----------|----------|------------------------------|-------------|-------------|---------|--------------|------------------|
| Page No. | Pos. No. | Seg. No. | Name | Base Status | User Status | Max Use | Loop Repeat | Notes & Comments |
| | | | LOOP ID – IT1 | | | | 10000 | |
| 12 | 010 | IT1 | Baseline Item Data (Invoice) | O | M | 1 | | |
| 14 | 040 | TXI | Tax Information | O | M | 1 | | |
| | | | LOOP ID - PID | | | | | |
| 15 | 060 | PID | Product/Item Description | O | M | 1 | | |

| Summary | | | | | | | | | |
|-----------------|-----------------|-----------------|---|--------------------|--------------------|----------------|--------------------|-----------------------------|--|
| Page No. | Pos. No. | Seg. No. | Name | Base Status | User Status | Max Use | Loop Repeat | Notes & Comments | |
| 16 | 180 | SAC | Service, Promotion, Allowance or Charge Information | O | O | 1 | | | |
| 17 | 190 | TXI | Tax Information | O | O | 1 | | | |
| 18 | 010 | TDS | Total Monetary Value Summary | M | M | 1 | | | |
| 19 | 070 | CTT | Transaction Totals | O | M | 1 | | | |
| 20 | 080 | SE | Transaction Set Trailer | M | M | 1 | | | |

Notes: The TXI segment following any SAC segments should contain tax information on the SAC segment rather than on the entire invoice (e.g. taxable freight, taxable handling). The TXI segment for the entire invoice is not necessary as we are collecting tax information on the line items and on the SAC segments.

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
Comments:

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| ST01 | 143 | Transaction Set Identifier Code Code uniquely identifying a Transaction Set 810 Invoice | M ID 3/3 | M |
| ST02 | 329 | Transaction Set Control Number 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 | M |

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|---|-----------------|-----------------|
| BIG01 | 373 | Date Date expressed as CCYYMMDD <u>Invoice Date</u> | M DT 8/8 | M |
| BIG02 | 76 | Invoice Number Identifying number assigned by issuer | M AN 1/22 | M AN 1/10 |
| BIG03 | 373 | Date Expressed as CCYYMMDD <u>Purchase Order Date</u> | O DT 8/8 | M |
| BIG04 | 324 | Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser - Leave blank for orders originating from a source other than the ReactorNet system | O AN 1/22 | O AN 1/15 |
| BIG07 | 640 | Transaction Type Code Code specifying the type of transaction CR (Credit Memo) DI (Debit Invoice) | O ID 2/2 | M |

Segment: **N1 Name - Ship To**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
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.
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|---|-----------------|-----------------|
| N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST ShipTo | M ID 2/3 | M ID 2/2 |
| N102 | 93 | Name Free-form name Customer Name | X AN 1/60 | M AN 1/30 |
| N103 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent | X ID 1/2 | M ID 2/2 |
| N104 | 67 | Identification Code Code identifying a party or other code Ship To Account Number | X AN 2/80 | M AN 3/10 |

Segment: **N3** Address Information
Position: 090
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the location of the named party
Comments:
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|---|-----------------|-----------------|
| N301 | 166 | Address Information Address Information | M AN 1/55 | M AN 1/30 |
| N302 | 166 | Address Information Address Information | O AN 1/55 | O AN 1/30 |

Segment: **N4 Geographic Location**
Position: 100
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
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.
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| N401 | 19 | City Name Free-form text for city name | O AN 2/30 | M AN 2/20 |
| N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 | M |
| N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 | M ID 5/9 |

Segment: **N1** Name –Ship From
Position: 130
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
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 par
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|---|-----------------|-----------------|
| N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual <u>Ship From Warehouse</u> SF Ship From | M ID 2/3 | M ID 2/2 |
| N102 | 93 | Name Free-form Name <u>Warehouse Name</u> | X AN 1/60 | M AN 1/20 |
| N103 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent | X ID 1/2 | M ID 1/1 |
| N104 | 67 | Identification Code Code identifying a party or other code <u>Warehouse ID / Account Number</u> | X AN 2/80 | M AN 2/13 |

Segment: **N3** Address Information
Position: 150
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the location of the named party
Comments:
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|---|-----------------|-----------------|
| N301 | 166 | Address Information Address Information | M AN 1/55 | M AN 1/30 |
| N302 | 166 | Address Information Address Information | O AN 1/55 | O AN 1/30 |

Segment: **N4 Geographic Location**
Position: 160
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
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.
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| N401 | 19 | City Name Free-form text for city name | O AN 2/30 | M AN 2/20 |
| N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 | M |
| N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 | M ID 5/9 |

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Comments: 1 Element 235/234 combinations should be interpreted to include products and/or services.
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| IT 101 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set. NT Not Taxable TX Taxable | O AN 1/20 | O AN 2/2 |
| IT 102 | 358 | Quantity Invoiced Number of units invoiced (supplier units) <u>Quantity Invoiced</u> | X R 1/10 | M R 1/8 |
| IT 103 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Price Basis Code: CA - Case EA - Each LB – Pound | X ID 2/2 | M |
| IT 104 | 212 | Unit Price | X R 1/17 | M R 1/8 |

| | | | | |
|--------|-----|--|-----------|----------|
| | | Price per unit of product, service, commodity, etc. | | |
| IT 106 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VN – Vendor’s (Seller’s) Item Number | X ID 2/2 | M |
| IT 107 | 234 | Product/Service ID Identifying number for a product or service Supplier Item Number | X AN 1/48 | M AN 7/7 |

Segment: **TXI1** **Baseline Item Data (Invoice)**
Position: 040
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify tax information
Comments:
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| TXI01 | 963 | Tax Type Code Code specifying the type of tax: LS – State and Local Sales Tax | M ID 2/2 | M |
| TXI02 | 782 | Monetary Amount Monetary Amount Sales Tax Amount | X R 1/18 | M R 1/7 |
| TXI03 | 954 | Percent Sales Tax Rate Sales Tax Rate | X R 1/10 | M R 1/10 |
| | | | | |

Segment: **PID** Product/Item Description
Position: 060
Loop: PID Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Comments:
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| PID01 | 349 | Item Description Type Code indicating the format of a description F – Free-form | M ID 1/1 | M |
| PID05 | 352 | Description A free-form description to clarify the related data elements and their content Item Description | X AN 1/80 | M AN 1/30 |

Segment: **SAC** Service, Promotion, Allowance, or Charge Information
Position: 180
Loop:
Level: Summary
Usage: Optional
Max Use: 100
Purpose: To specify freight, handling charges, etc.
Comments:
Usage Notes: This segment may be used or omitted

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| SAC01 | 248 | Allowance or Charge Indicator Code indicating contents of the segment | M ID 1/1 | M ID 1/1 |
| SAC02 | 1300 | Service, Promotion, Allowance or Charge Code Code indicating type of allowance or charge | C ID 4/4 | M ID 4/4 |
| SAC05 | 610 | Amount Monetary Amount | O R 1/15 | M R 1/15 |

Segment: **TXI1** Tax Information
Position: 190
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To specify tax information on preceding SAC segments
Comments:
Usage Notes: This segment may be used or omitted

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| TXI01 | 963 | Tax Type Code Code specifying the type of tax: LS – State and Local Sales Tax | M ID 2/2 | M |
| TXI02 | 782 | Monetary Amount Monetary Amount Sales Tax Amount | X R 1/18 | M R 1/7 |
| TXI03 | 954 | Percent Sales Tax Rate Sales Tax Rate | X R 1/10 | M R 1/10 |
| | | | | |

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Comments: 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01
Usage Notes:

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| TDS01 | 610 | Amount Monetary Amount Total Invoice Amount | M N2 1/15 | M N2 1/13 |
| | | | | |

Segment: **CTT** Transaction Totals
Position: 070
Loop:
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| CTT01 | 354 | Number of Line Items Total number of line items in the transaction set Line Item Total | M N0 1/6 | M |
| CTT02 | 347 | Hash Total 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. Total Quantity | O R 1/10 | M |

Segment: **SE** Transaction Set Trailer
Position: 080
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)
Comments: 1 SE is the last segment of each transaction set
Usage Notes: **The transaction cannot process without this segment**

Data Element Summary

| Ref Des. | Data Element | Name | Base Attributes | User Attributes |
|----------|--------------|--|-----------------|-----------------|
| SE01 | 96 | Number of Included Segments Total number of segments included in a transaction set including ST and SE segments | M NO 1/10 | M |
| SE02 | 329 | Transaction Set Control Number 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 | M |