



PolyOne Mapping Standards

X12 v4010 810 Invoice

VERSION: 1.0 DRAFT

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810

Invoice

This Draft standard for Trail Use contains the format and establishes the data contents of the Invoice Transaction Set (810) 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 billing for goods and services provided.

Heading:

<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
040	CUR	Currency	O	1		
LOOP ID - N1						
070	N1	Name	M	1		
090	N3	Address Information	O	1		
100	N4	Geographic Location	O	1		

Detail:

<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
LOOP ID - IT1						
010	IT1	Baseline Item Data (Invoice)	M	1		
020	CUR	Currency	M	1		
LOOP ID - PID						
060	PID	Product/Item Description	O	1		
150	DTM	Date/Time Reference	O	10		
LOOP ID - SAC						
060	SAC	Service, Promotion, Allowance Information	O	1		

Summary:

<u>POS</u>	<u>ID</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	TDS	Total Monetary Value Summary	M	1		
020	TXI	Tax Information	O	10		
070	CTT	Transaction Totals	O	1		
080	SE	Transaction Set Trailer	M	1		

Segment: **ST Transaction Set Header**

Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number

Semantic: 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).

Example: ST*810*1234

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
		<u>Code</u> <u>Definition</u>	
		810 Invoice	
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

Segment: BIG Beginning Segment for Invoice

Level: Header
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates.

Semantic: 1 BIG01 is the invoice issue date
 2 BIG03 is the date assigned by the purchaser to purchase order.
 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments: A BIG07 is used only to further define the type of invoice when needed.

Example: BIG*20050305*987654321O854698**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
BIG01	373	Date Date expressed as CCYYMMDD	M DT 8/8
BIG02	76	Invoice Number Identifying number assigned by issuer	M AN 1/22
BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser This is used only if purchase order applies to all items in this transaction set.	O AN 1/10
BIG07	640	Transaction Type Code Identifying number assigned by issuer	O ID 2/2
		Code Definition	
		CN Credit Invoice	
		DI Debit Invoice	

Segment: CUR Currency

Level: Header
Loop: N/A
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction.

Example: CUR*SU*CAD

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		Code Definition	
		BY Buying Party (Purchaser)	
		SE Selling Party	
		SU Supplier/Manufacturer	
CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M ID 3/3
		Code Definition	
		CAD Canadian Dollars	
		USD U.S. Dollars	

Segment: N1 Name

Level: Header
Loop: N1
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name and code.

Example: **N1*RE*POLYONE*92*AAAA**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		<u>Code</u> <u>Definition</u>	
		RE Remit To	
		ST Ship To	
N102	100	Name Free form name	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for identification code(67)	X ID 1/2
		<u>Code</u> <u>Definition</u>	
		92	
N104	67	Identification Code Code indentifying a party or other code (Facility number/designation)	X AN 2/80

Segment: N3 Address Information

Level: Header
Loop: N1
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party.

Example: **N3*33587 WALKER ROAD**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
N301	166	Address Information Address Line 1 information	M AN 1/55
N302	166	Address Information Address Line 2 Information	O AN 1/55

Segment: N4 Geographic Location

Level: Header

Loop: N1

Usage: Mandatory

Max Use: 1

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

Example: **N1*RE*POLYONE*92*AAAA**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
N401	19	City Name Free-form text for the city name	O AN 2/30
N402	156	State or Province Code Code as defined by appropriate government agency	X ID 2/2
N403	116	Postal Code Code defining international postal zone including punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	Country Code Code identifying the country	X ID 2/3

Segment: IT1 **Baseline Item data (invoice)**

Level: Detail
Loop: IT1 **Repeat:** 200000
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions.

Syntax:

- 1 P020304 - If either IT102, IT103 or IT104 are present, then the others are required
- 2 P0607 - if either IT106 or IT107 is present, then the other is required.
- 3 P0809 - if either IT108 or IT109 is present, then the other is required.
- 4 P1011 - if either IT110 or IT111 is present, then the other is required.
- 5 P1213 - if either IT112 or IT113 is present, then the other is required.
- 6 P1415 - if either IT114 or IT115 is present, then the other is required.
- 7 P1617 - if either IT116 or IT117 is present, then the other is required.
- 8 P1819 - if either IT118 or IT119 is present, then the other is required.
- 9 P2021 - if either IT120 or IT121 is present, then the other is required.
- 10 P2223 - if either IT122 or IT123 is present, then the other is required.
- 11 P2425 - if either IT124 or IT125 is present, then the other is required.

Semantic: 1 IT101 is the purchase order line item identification.

Comments: **A** Element 235/234 combinations should be interpreted to include products and/or services.
B 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.

Example: IT1144*EA*15.24**059JYLA**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
Note: This field will contain PolyOne's Purchase order Line Item number			
IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	X R 1/10

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
IT103	355	Unit Or Base for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X ID 2/2
Any valid X12 code values			
IT104	212	Unit Price Price per unit of product, service, commodity, etc.	X R 1/17

Segment: CUR Currency

Level: Detail
Loop: IT1
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction.

Example: CUR*SU*CAD

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		<u>Code</u> <u>Definition</u>	
		BY Buying Party (Purchaser)	
		SE Selling Party	
		SU Supplier/Manufacturer	
CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M ID 3/3
		<u>Code</u> <u>Definition</u>	
		CAD Canadian Dollars	
		USD U.S. Dollars	

Segment: PID Product/Item Description

Level: Detail
Loop: IT1/PID **Repeat:** 200000
Usage: Optional
Max Use: 1
Purpose: to describe a product or process in coded or free-form format.

Syntax:

- 1 C0403 - if PID04 is present, then PID03 is required.
- 2 R0405 - At least one of PID04 or PID05 is required.
- 3 C0703 - if PID07 is present, then PID03 is required.
- 4 C0804 - if PID08 is present, then PID04 is required.
- 5 C0905 - if PID09 is present, then PID05 is required.

Semantic:

- 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:

- A** 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.
- B** Use PID06 when necessary to refer to the product surface or layer being described in the segment
- C** PID07 specifies the individual code list of the agency specified in PID03.

Example: PID*F*CLEANER**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
PID01	349	Item Description Type Code indicating the format of a description	M ID 1/1
		Code Definition	
		F Free-Form	
PID05	352	Description A free-form description to clarify the related data elements and their content.	X AN 1/80

Segment: DTM Date/Time Reference

Level: Detail
Loop: IT1
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times.

Syntax: 1 R020305 - At least one of DTM02, DTM03 or DTM05 is required.
 2 C0403 - If DTM04 is present, then DTM03 is required.
 3 P0506 - If either DTM05 or DTM06 is present, then the other is required.

Example: DTM*011*20050304

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		<u>Code</u> <u>Definition</u>	
		011 Shipped	
DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8

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

Level: Detail
Loop: IT1/SAC Repeat: 25
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.

Example: SAC*A*D230*100.00**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified	M ID 1/1
		Code Definition	
		A Allowance	
		C Charge	
SAC02	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge	X ID 4/4
SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values	X ID 2/2
SAC04	248	Agency Service, Promotion, Allow., or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge	X AN 1/10
SAC05	248	Amount Monetary amount	O N2 1/15

Segment: TDS Total Monetary Value Summary

Level: Summary
Loop: N/A
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts.

- Semantic:**
- 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: A TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Example: TDS*239456*219456*215067*4389

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
TDS01	610	Amount Monetary amount	M N2 1/15
TDS02	610	Amount Monetary amount	O N2 1/15
TDS03	610	Amount Monetary amount	O N2 1/15
TDS04	610	Amount Monetary amount	O N2 1/15

Segment: TXI **Tax Information**

Level: Summary
Loop: N/A
Usage: Optional
Max Use: 10
Purpose: To specify tax information.

Syntax:

- 1 R020306 - At least one of TXI02, TXI03 or TXI06 is required.
- 2 P0405 - If either TXI04 or TXI05 is present, then the other is required.
- 3 C0803 - If TXI08 is present, then TXI03 is required.

Semantic:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Example: TXI*GS.07**

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
TXI01	963	Tax Type Code Code specifying the type of tax	M ID 2/2
		Code Definition	
		LS State and Local Sales Tax	
		GS Goods and Services Tax	
TXI02	782	Monetary Amount Monetary amount	X R 1/18
TXI03	954	Percent Percentage expressed as a decimal	X R 1/10

Segment: CTT Transaction Totals

Level: Summary
Loop: N/A
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.

Set Notes: 1 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, has total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

Syntax: 1 P0304 - If either CTT03 or CTT04 is present, then the other is required.
 2 P0506 - If either CTT05 or CTT06 is present, then the other is required.

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

Example: CTT*1

Data Element Summary

REF DES.	DATA ELE.	NAME	ATTRIBUTES
CTT01	354	Number of Line Items Total number of line items in the transaction set	M NO 1/6

Segment: SE Transaction Set Trailer

Level: Summary
Loop: N/A
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 the ending (SE) segments).

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

Example: SE*17*1234

Data Element Summary

REF DES.	DATA ELE.	NAME	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
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