

810 Invoice

Functional Group **IN**

This Draft Standard for Trial 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

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
Required	010	ST	Transaction Set Header	M	1	
Required	020	BIG	Beginning Segment for Invoice	M	1	
		CUR	Currency	O	1	
Used	050	REF	Reference Identification	O	12	
LOOP ID - N1						200
Required	070	N1	Name	O	1	
Used	090	N3	Address Information	O	2	
Used	100	N4	Geographic Location	O	1	
Used	130	ITD	Terms of Sales/ Deferred Terms of Sale	O	>1	
Used	140	DTM	Date/Time Reference	O	10	

Detail

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - IT1						200000
Used	010	IT1	Baseline Item Data (Invoice)	O	1	
Used	050	CTP	Pricing Information	O	25	
LOOP ID - PID						1000
Used	060	PID	Product/Item Description	O	1	

Summary

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
Required	010	TDS	Total Monetary Value Summary	M	1	
		SAC	Service, Payment, Allowance	M	1	
Required	070	CTT	Transaction Totals	O	1	
Required	080	SE	Transaction Set Trailer	M	1	

Business Example of an 810 Document:

EDI Transmission Data	Explanation
ST*810*9336	810 is the Transaction Set Identifier Code for Invoicing Transaction Set. 9336 is the transaction set control number.
BIG*20040211*15578166**2004000872	20040211 is the invoice issue date. 15578166 is the invoice number. 2004000872 is the purchase order number
CUR*VN*CND	VN indicates Vendor as the Entity Identifier. CND indicates Canadian Dollars
REF*PK*BL00077896	PK is the qualifier to identify BL00077896 as the Packing List number
REF*ZZ*ASN	ZZ is a mutually defined identifier that indicates that this Invoice has an 856 ASN associated with it.
N1*ST**92*0002	ST is the "Ship To" identifier. 92 is the Buyer Assigned Identifier. 0002 is the "Ship To" identification code
ITD*01*****20040509*90*****NET 90	01 is the Basic terms indicator. 20040509 is the Net Due Date. 90 is the Net Days for payment NET 90 is the description of the Terms
DTM*011*20040211	011 is the "Shipped" qualifier 20040211 is the date the order was shipped.
IT1*0010*376*EA*26.6459*PE*IB*0000013826	0010 is the PO line number. 376 is the number of units invoiced EA is the Basis for Measurement Code for the quantity value. 26.6459 is the price, measured per each, PE , unit invoiced. IB is the Product ID Qualifier for ISBN, preceding the ISBN number, 00000 16826
CTP**CAT*64.99**DIS*0.41	CAT means 'Catalog Price' and precedes the price, 64.99 DIS indicates a discount price multiplier, 0.41
TDS*1001886	1001886 is the total amount of invoice after discount (no decimal)
SAC*C*D240***00*****FREIGHT	C is the Charge indicator. D240 is the Freight identifier. 00 is the Amount as an implied 2 decimal FREIGHT is the description of the charge
CTT*1*376	1 is the number of line items in the invoice, and 376 is the hash total of units invoiced
SE*14*9336	14 is the total number of segments included in the invoice, including ST and SE segments 9336 is the identifying set control number matching ST02 segment

Segment: **ST** Transaction Set Header
Level: Table/ Position 1/ 010
Loop: _____
Usage: Mandatory
Required
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.
Semantic: 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).

Data Element Summary:

	Ref. Des.	Data Element	Name	Attributes	Min/Max Length
Required	ST01	143	Transaction Set Header Identifier Code uniquely identifying a Transaction Set	M/Z ID	3/3
Required	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: Table/ Position 1/ 020
Loop: _____
Usage: Mandatory
Required
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.

Data Element Summary:

	Ref. Des.	Data Element	Name	Attributes	Min/Max Length
Required	BIG01	373	Date Date (CCYYMMDD)	M/Z DT	8/8
Required	BIG02	76	Invoice Number Identifying number assigned by issuer	M AN	1/22
	BIG03	373	Date Date (CCYYMMDD)	O/Z DT	8/8
	BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	O AN	1/22
	BIG05	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN	1/30
	BIG06	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O AN	1/8
	BIG07	640	Transaction Type Code Code specifying the type of transaction	O ID	2/2
	BIG08	353	Transaction Set Purpose Code Code identifying purpose of transaction set	O ID	2/2

Segment: CUR Currency
Level:
Loop:
Usage: Optional
Max Use: 1
Purpose: To specify Currency information
Syntax:

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Required	CUR01	98	Entity Identifier Code	M	ID	2/3
	CUR02	100	Currency Code	X	ID	3/3

Segment: REF Reference Identification
Level: Table/ Position 1/ 050
Loop:
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax: 1. R0203 - At least one of REF02 or REF03 is required.

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Required	REF01	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/2
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier *This data element is required in Canada.	X	AN	1/30

Segment: N1 Name
Level: Table/ Position 1/ 070
Loop: N1
Usage: Required
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax: 1. R0203 - At least one of N102 or N103 is required.
 2. P0304 - If either N103 or N104 is present, then the other is required.
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.

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Required	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual BT Bill-to-Party SF Ship From ST Ship To VN Vendor	M	ID	2/2
	N102	93	Name Free-form name	X	AN	1/35
Recommended	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet	X	ID	½

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
 15 Standard Address Number (SAN)
Recommended by the book industry.
 92 Assigned by Buyer or Buyer's Agent
This is the store number.

N104 67 Identification Code X AN 2/20
 Code identifying a party or other code

Segment: N3 Address Information
Level: Table/ Position 1/ 090
Loop: _____
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Required	N301	166	Address Information Address Information	M	AN	1/55
	N302	166	Address Information Address Information	O	AN	1/55

Segment: N4 Geographic Location
Level: Table/ Position 1/ 100
Loop: _____
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax: 1. C0605 - If N406 is present, then N405 is required.
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. Des.	Data Element	Name		Attributes	Min/Max Length
	N401	19	City Name Free-form text for city name	O	AN	2/30
	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2
	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15
	N404	26	Country Code Code identifying the country	O	ID	2/3

Segment: ITD Terms of Sale/ Deferred Terms of Sale
Level: Table/ Position 1/ 130
Loop:
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale
Syntax: 1. L03040513 - If ITD03 is present, then at least one of ITD04 or ITD05 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04 or ITD05 is required.

Data Element Summary:

Ref. Des.	Data Element	Name	Attributes	Min/Max Length
ITD01	336	Terms Type Code Code identifying type of payment terms 14 Previously agreed upon	O ID	2/2
ITD02	333	Terms Basis Date Code Code identifying the beginning of the terms period	O ID	1/2
ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O R	1/6
ITD04	370	Terms Discount Due Date Date payment is due if discount is to be earned	X DT	8/8
ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned	X N0	1/3
ITD06	446	Terms Net Due Date Date when total invoice amount becomes due	O DT	8/8
ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	O N0	1/3
ITD08	362	Terms Discount Amount Total amount of terms discount	O N2	1/10
Not Used	ITD09	388 Terms Deferred Due Date Date deferred payment or percent of invoice payable is due	O DT	8/8
Not Used	ITD10	389 Deferred Amount Due Deferred amount due for payment	X N2	1/10
Not Used	ITD11	342 Percent of Invoice Payable Amount of invoice payable expressed in percent	X R	1/5
ITD12	352	Description A free-form description to clarify the related data elements and their content	O AN	1/80
Not Used	ITD13	234 Product/ Service ID Identifying number for a product or service	X AN	1/40
ITD14	107	Payment Method Code Code identifying type of payment procedures	O ID	1/1

Segment: DTM Date/Time Reference
Level: Table/ Position 1/ 140
Loop:
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times

Data Element Summary:

	Ref. Des.	Data Element	Name	Attributes	Min/Max Length
Required	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped	M ID	3/3
Required	DTM02	373	Date Date (CCYYMMDD)	X DT	8/8

Segment: IT1 Baseline Item Data (Invoice)
Level: Table/ Position 2/ 010
Loop: IT1
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax:

- P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
- P0607 - If either IT106 or IT107 is present, then the other is required.
- P0809 - If either IT108 or IT109 is present, then the other is required.
- P1011 - If either IT110 or IT111 is present, then the other is required.

Semantic:

- IT101 is the purchase order line item identification.

Comments:

- IT106 through IT111 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

Data Element Summary:

	Ref. Des.	Data Element	Name	Attributes	Min/Max Length
	IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O/Z AN	1/20
	IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	X R	1/10
	IT103	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	X ID	2/2
	IT104	212	Unit Price Price per unit of product, service, commodity, etc.	X R	1/17
	IT105	639	Basis of Unit Price Code	O/Z ID	2/2
	IT106	235	Product/ Service ID Qualifier Code identifying the type/source of the descriptive number used in	X ID	2/2
	IT107	234	Product/ Service ID Identifying number for a product or service	X AN	1/40
	IT108	235	Product/ Service ID Qualifier Code identifying the type/source of the descriptive number used in	X ID	2/2
	IT109	234	Product/ Service ID Identifying number for a product or service	X AN	1/40
	IT110	235	Product/ Service ID Qualifier Code identifying the type/source of the descriptive number used in	X ID	2/2
	IT111	234	Product/ Service ID Identifying number for a product or service	X AN	1/40

Segment: CTP Pricing Information
Level: Table/ Position 2/ 050
Loop: CTP
Usage: Optional
Max Use: 25
Purpose: To specify pricing information
Syntax: 1. C0607 - If CTP06 is present, then CTP07 is required.
Semantic: 1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Not Used	CTP01	687	Class of Trade Code	O	ID	2/2
			Code indicating class of trade			
	CTP02	236	Price Identifier Code	X	ID	3/3
			Code identifying pricing specification			
	CTP03	212	Unit Price	O	R	1/17
			Price per unit of product, service, commodity, etc.			
Not Used	CTP04	380	Quantity	X	R	1/15
			Numeric value of quantity			
Not Used	CTP05	C001	Composite Unit of Measure	X		
			To identify a composite unit of measure			
	CTP06	648	Price Multiplier Qualifier	O	ID	3/3
			Code indicating the type of price multiplier			
	CTP07	649	Multiplier	X/Z	R	1/10
			Value to be used as a multiplier to obtain a new value			

Segment: PID Product/Item Description
Level: Table/ Position 2/ 060
Loop: PID
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.
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. Des.	Data Element	Name		Attributes	Min/Max Length
Required	PID01	349	Item Description Type	M	ID	1/1
			Code indicating the format of a description			
			F Free-form			
	PID02	750	Product/ Process Char. Code	O	ID	2/3
			Code identifying the general class of a product or process characteristic			
			08 Product			
	PID03	559	Agency Qualifier Code	X/Z	ID	2/2
			Code identifying the agency assigning the code values			
			BI Book Industry Systems Advisory Committee			
	PID04	751	Product Description Code	X/Z	AN	1/12
			A code from an industry code list which provides specific data about a product characteristic			
	PID05	352	Description	X	AN	1/80
			A free-form description to clarify the related data elements and their content			
			Code and/ or description as agreed upon by the Publisher/ Manufacturer Group.			
			maintained by the International Standards Organization (ISO 639)			

Segment: TDS Total Monetary Value Summary
Level: Table/ Position 3/ 010
Loop: _____
Usage: Mandatory
Required
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).

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. Des.	Data Element	Name	Attributes	Min/Max Length
Required	TDS01	610	Amount Monetary Amount	M/Z N2	1/15
	TDS02	610	Amount Monetary Amount	O/Z N2	1/15
	TDS03	610	*This element is mandatory in Canada Amount Monetary Amount	O/Z N2	1/15

Segment: CTT Transaction Totals
Level: Table/ Position 3/ 070
Loop: _____
Usage: Optional
Required
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.

Data Element Summary:

	Ref. Des.	Data Element	Name	Attributes	Min/Max Length
Required	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0	1/6
	CTT02	347	Hash Total Sum of values of the specified data element.	O R	1/10

Segment: SE Transaction Set Trailer

Level: Table/ Position 3/ 080

Loop:

Usage: Mandatory

Required

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.

Data Element Summary:

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>		<u>Attributes</u>	<u>Min/Max</u> <u>Length</u>
Required	SE01	96	Number of Included Segments	M	N0	1/10
			Total number of segments included in a transaction set including ST and SE segments			
Required	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			