

# **VERSION: 1.0 DRAFT**

**Modified: April 20, 1999 03:01 PM**

**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.

**Notes:**

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	O	1			Must use
050	REF	Reference Identification	O	12			Must use

<u>LOOP ID - N1</u>			<u>200</u>				
070	N1	Name	O	1			Must use
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Must use
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Must use

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
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<u>LOOP ID - IT1</u>			<u>200000</u>				
010	IT1	Baseline Item Data (Invoice)	O	1			Must use
050	CTP	Pricing Information	M	25			Must use

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use

<u>LOOP ID - SAC</u>			<u>25</u>				
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Must use
070	CTT	Transaction Totals	O	1		N3/070	Must use
080	SE	Transaction Set Trailer	M	1			Must use

# ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

## Semantics:

- 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).

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code <b>Description:</b> Code uniquely identifying a Transaction Set <u>Code Name</u> 810 Invoice	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number <b>Description:</b> 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

# BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

## Semantics:

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.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	<b>Invoice Number</b> <b>Description:</b> Identifying number assigned by issuer	M	AN	1/22	Must use
BIG03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used
BIG04	324	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	Must use

# CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <u>Code Name</u> BT Bill-to-Party	M	ID	2/3	Must use
CUR02	100	Currency Code <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified <b>User:</b> USD - US Dollar	M	ID	3/3	Must use

# REF Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

**Semantics:**

- REF04 contains data relating to the value cited in REF02.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <u>Code Name</u> PK Packing List Number	M	ID	2/3	Must use
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Must use

**N1****Name**

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <u>Code Name</u> RI Remit To ST Ship To	M	ID	2/3	Must use
N102	93	Name <b>Description:</b> Free-form name	C	AN	1/60	Must use
N103	66	Identification Code Qualifier <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <u>Code Name</u> 1 D-U-N-S Number, Dun & Bradstreet 15 Standard Address Number (SAN)	C	ID	1/2	Must use
N104	67	Identification Code <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Must use

# N2

## Additional Name Information

Pos: 080	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify additional names or those longer than 35 characters in length

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	<u>Name</u> Description: Free-form name	M	AN	1/60	Used
N202	93	<u>Name</u> Description: Free-form name	O	AN	1/60	Used

# N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Used
N302	166	Address Information Description: Address information	O	AN	1/55	Used

# N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

To specify the geographic place of the named party

## User:

*Remit to address*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) <b>User:</b> <i>Must be in 12345-XXXX format</i>	O	ID	3/15	Must use
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Not rec

**ITD****Terms of Sale/Deferred Terms of Sale**

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 12

To specify terms of sale

**Semantics:**

- ITD15 is the percentage applied to a base amount used to determine a late payment charge.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	<b>Terms Type Code</b> <b>Description:</b> Code identifying type of payment terms <u>Code Name</u>	O	ID	2/2	Used
	01	Basic				
ITD02	333	<b>Terms Basis Date Code</b> <b>Description:</b> Code identifying the beginning of the terms period <u>Code Name</u>	O	ID	1/2	Used
	3	Invoice Date				
ITD03	338	<b>Terms Discount Percent</b> <b>Description:</b> 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	Used
ITD04	370	<b>Terms Discount Due Date</b> <b>Description:</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD	C	DT	8/8	Used
ITD05	351	<b>Terms Discount Days Due</b> <b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used
ITD06	446	<b>Terms Net Due Date</b> <b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	<b>Terms Net Days</b> <b>Description:</b> Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Must use
ITD08	362	<b>Terms Discount Amount</b> <b>Description:</b> Total amount of terms discount	O	N2	1/10	Used
ITD09	388	<b>Terms Deferred Due Date</b> <b>Description:</b> Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD10	389	<b>Deferred Amount Due</b>	C	N2	1/10	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>-</b> <b>Description:</b> Deferred amount due for payment				<b>-</b>
<b>ITD11</b>	<b>342</b>	<b>Percent of Invoice Payable</b> <b>Description:</b> Amount of invoice payable expressed in percent	<b>C</b>	<b>R</b>	<b>1/5</b>	<b>Used</b>
<b>ITD12</b>	<b>352</b>	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	<b>O</b>	<b>AN</b>	<b>1/80</b>	<b>Used</b>

# IT1 Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 11

To specify the basic and most frequently used line item data for the invoice and related transactions

## Semantics:

- IT101 is the purchase order line item identification.

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Must use
IT102	358	<b>Quantity Invoiced</b> <b>Description:</b> Number of units invoiced (supplier units)	C	R	1/10	Used
IT103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code Name</u> EA    Each	C	ID	2/2	Must use
IT104	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Must use
IT105	639	<b>Basis of Unit Price Code</b> <b>Description:</b> Code identifying the type of unit price for an item <u>Code Name</u> PE    Price per Each	O	ID	2/2	Must use
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <u>Code Name</u> EN    European Article Number (EAN) (2-5-5-1) IB    International Standard Book Number (ISBN) IS    International Standard Serial Number (ISSN) UP    U.P.C. Consumer Package Code (1-5-5-1)	C	ID	2/2	Must use
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		-				-
IT110	235	Product/Service ID Qualifier <u>Code Name</u> PO Purchase Order Number	C	ID	2/2	Used
IT111	234	Product/Service ID <b>Description:</b> Identifying number for a product or service <b>User:</b> <i>If more than one purchase order is in the invoice, put PO number here, rather than in BIG04.</i>	C	AN	1/48	Used

# CTP Pricing Information

Pos: 050	Max: 25
Detail - Mandatory	
Loop: IT1	Elements: 7

To specify pricing information

## Semantics:

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.
2. CTP08 is the rebate amount.

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP01	687	<b>Class of Trade Code</b> <b>Description:</b> Code indicating class of trade All valid X12 codes are used.	O	ID	2/2	Used
CTP02	236	<b>Price Identifier Code</b> <b>Description:</b> Code identifying pricing specification <u>Code Name</u> LPR List Price SLP Suggested List Price	C	ID	3/3	Must use
CTP03	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Must use
CTP04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	C	R	1/15	Used
CTP05	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code Name</u> EA Each	M	ID	2/2	Used
CTP06	648	<b>Price Multiplier Qualifier</b> <b>Description:</b> Code indicating the type of price multiplier <u>Code Name</u> DIS Discount Multiplier	O	ID	3/3	Must use
CTP07	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	C	R	1/10	Must use

# TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To specify the total invoice discounts and amounts

## Semantics:

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.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 4

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	<p><b>Allowance or Charge Indicator</b>  <b>Description:</b> Code which indicates an allowance or charge for the service specified  <u>Code Name</u></p> <p>C    Charge</p>	M	ID	1/1	Used
SAC02	1300	<p><b>Service, Promotion, Allowance, or Charge Code</b>  <b>Description:</b> Code identifying the service, promotion, allowance, or charge  <u>Code Name</u></p> <p>D200 Freight Charges to Destination  D240 Freight  D242 Freight, International  D244 Freight, International, U.S. Dollars  D246 Freight, International, Non-U.S. Dollars</p>	C	ID	4/4	Used
SAC05	610	<p><b>Amount</b>  <b>Description:</b> Monetary amount</p>	O	N2	1/15	Must use
SAC12	331	<p><b>Allowance or Charge Method of Handling Code</b>  <b>Description:</b> Code indicating method of handling for an allowance or charge  <u>Code Name</u></p> <p>06    Charge to be Paid by Customer</p>	O	ID	2/2	Used

# CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b> <b>Description:</b> 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.	O	R	1/10	Must use

# SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	- <b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> 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