

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:

<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		
030	NTE	Note/Special Instruction	O	100		
050	REF	Reference Identification	O	12		

LOOP ID - N1**200**

070	N1	Name	O	1		
080	N2	Additional Name Information	O	2		
090	N3	Address Information	O	2		
100	N4	Geographic Location	O	1		
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
140	DTM	Date/Time Reference	O	10		

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**200000**

010	IT1	Baseline Item Data (Invoice)	O	1		
-----	-----	------------------------------	---	---	--	--

LOOP ID - PID**1000**

060	PID	Product/Item Description	O	1		
120	REF	Reference Identification	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		

LOOP ID - SAC**25**

040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
070	CTT	Transaction Totals	O	1		N3/070
080	SE	Transaction Set Trailer	M	1		

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.

Baxter:

Accounts Payable – Supplier invoice (v.4010)

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>NAME</u>			
		810 X12.2 Invoice			
ST02	329	Transaction Set Control Number	M	AN	4/9

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).

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
BIG01	373	Date	M	DT	6/6
BIG02	76	Invoice Number	M	AN	1/22
BIG04	324	Purchase Order Number	O	AN	1/22
BIG07	640	Transaction Type Code	O	ID	2/2
		<u>Code</u> <u>NAME</u>			
		DR Debit Memo			

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.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

NTE Note/Special Instruction

Pos: 030	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
NTE01	363	Note Reference Code <u>Code NAME</u> GEN Entire Transaction Set	O	ID	3/3
NTE02	352	Description	M	AN	1/80

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

REF Reference Identification

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

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier Code <u>NAME</u> AD Acceptable Source DUNS Number	M	ID	2/3
REF02	127	Reference Identification	C	AN	1/30

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Baxter:

The REF*AD segment is used to provide Suppliers DUNS number, which in turn is used to relate to the JDE Address Number for Supplier.

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>
N101	98	Entity Identifier Code <u>Code</u> <u>NAME</u> BT Bill-to-Party RE Party to receive commercial invoice remittance SE Selling Party ST Ship To	M	ID	2/2
N102	93	Name	C	AN	1/35
N103	66	Identification Code Qualifier <u>Code</u> <u>NAME</u> 91 Assigned by Seller or Seller's Agent	C	ID	1/2
N104	67	Identification Code	C	AN	2/20

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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.
2. N105 and N106 further define the type of entity in N101.

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>
N201	93	Name	M	AN	1/35
N202	93	Name	O	AN	1/35

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>
N301	166	Address Information	M	AN	1/35
N302	166	Address Information	O	AN	1/35

N4 Geographic Location

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

To specify the geographic place 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>
N401	19	City Name	O	AN	2/30
N402	156	State or Province Code	O	ID	2/2
N403	116	Postal Code	O	ID	3/15
N404	26	Country Code	O	ID	2/3

Syntax:

1. N406 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.

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

Pos: 130	Max: >1
Heading - Optional	
Loop: N/AElements: 8	

To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ITD01	336	Terms Type Code <u>Code</u> <u>NAME</u> 08 Basic Discount Offered	O	ID	2/2
ITD02	333	Terms Basis Date Code All valid X12 codes are used.	O	ID	1/2
ITD03	338	Terms Discount Percent	O	R	1/6
ITD04	370	Terms Discount Due Date	C	DT	6/6
ITD06	446	Terms Net Due Date	O	DT	6/6
ITD07	386	Terms Net Days	O	N0	1/3
ITD08	362	Terms Discount Amount	O	N2	1/10
ITD12	352	Description	O	AN	1/80

Syntax:

L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required. L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required. L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

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

Comments:

- If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Baxter:

The ITD12 element is the key element in terms of mapping Discount information. The text description must match the specific Discount information set up on an internal conversion table for data element #352.

DTM Date/Time Reference

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
DTM01	374	Date/Time Qualifier Code NAME 011 Shipped	M	ID	3/3
DTM02	373	Date	C	DT	6/6

Syntax:

1. DTM02 R020306 -- At least one of DTM02, DTM03 or DTM06 is required.
2. DTM06 P0607 -- If either DTM06 or DTM07 are present, then the others are required.

IT1 Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 6

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IT101	350	Assigned Identification	O	AN	1/20
IT102	358	Quantity Invoiced	C	R	1/10
IT103	355	Unit or Basis for Measurement Code All valid X12 codes are used.	C	ID	2/2
IT104	212	Unit Price	C	R	1/17
IT106	235	Product/Service ID Qualifier <u>Code NAME</u> VC Vendor's (Seller's) Catalog Number	C	ID	2/2
IT107	234	Product/Service ID	C	AN	1/40

Syntax:

- IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
- IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
- IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.
- IT112 P1213 -- If either IT112 or IT113 are present, then the others are required.
- IT114 P1415 -- If either IT114 or IT115 are present, then the others are required.
- IT116 P1617 -- If either IT116 or IT117 are present, then the others are required.
- IT118 P1819 -- If either IT118 or IT119 are present, then the others are required.
- IT120 P2021 -- If either IT120 or IT121 are present, then the others are required.
- IT122 P2223 -- If either IT122 or IT123 are present, then the others are required.
- IT124 P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

- IT101 is the purchase order line item identification.

Comments:

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

PID Product/Item Description

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
PID01	349	Item Description Type <u>Code</u> <u>NAME</u> F Free-form	M	ID	1/1
PID05	352	Description	C	AN	1/80

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0803 -- If PID08 is present, then PID03 is required

Semantics:

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:

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.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

REF Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3
		<u>Code</u> <u>NAME</u>			
		12 Billing Account			
		RE Release Number			
		ZZ Mutually Defined			
REF02	127	Reference Identification	C	AN	1/30

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Baxter:

The REF*12 segment provides the JDE Cost Center number for the appropriate Baxter unit in the REF02 element. Some suppliers also use a REF*RE segment to provide the name of the individual who placed the order, and a REF*ZZ segment to provide the location of this individual (i.e. DF6-3E). The REF*RE and REF*ZZ segments are not used for mapping purposes.

TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
TDS01	610	Amount	M	N2	1/15

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.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

TXI Tax Information

Pos: 020	Max: 10
Summary - Optional	
Loop: N/A	Elements: 2

To specify tax information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
TXI01	963	Tax Type Code Code NAME LS State and Local Sales Tax	M	ID	2/2
TXI02	782	Monetary Amount	C	R	1/15

Syntax:

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

Semantics:

1. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SACElements: 3	

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SAC01	248	Allowance or Charge Indicator <u>Code</u> <u>NAME</u> C Charge	M	ID	1/1
SAC02	1300	Service, Promotion, Allowance, or Charge Code <u>Code</u> <u>NAME</u> C040 Delivery	C	ID	4/4
SAC05	610	Amount	O	N2	1/15

Syntax:

R0203 -- At least one of SAC02 or SAC03 is required.P0304 -- If either SAC03 or SAC04 are present, then the others are required.P0607 -- If either SAC06 or SAC07 are present, then the others are required.P0910 -- If either SAC09 or SAC10 are present, then the others are required.C1110 -- If SAC11 is present, then SAC10 is requiredL130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.C1413 -- If SAC14 is present, then SAC13 is required

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.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Baxter:

The SAC segment is used to indicated Freight charges that apply to the invoice as a whole.

CTT Transaction Totals

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

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>
CTT01	354	Number of Line Items	M	N0	1/6

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

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

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>
SE01	96	Number of Included Segments	M	N0	1/10
SE02	329	Transaction Set Control Number	M	AN	4/9

Comments:

- SE is the last segment of each transaction set.