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	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
030	NTE	Note/Special Instruction	O	100			Used
050	REF	Reference Identification	O	12			Used
LOOP ID - N1					**200**		
070	N1	Name	O	1			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
140	DTM	Date/Time Reference	O	10			Used
150	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					**200000**		
010	IT1	Baseline Item Data (Invoice)	O	1			Used
030	IT3	Additional Item Data	O	5			Used
LOOP ID - PID					**1000**		
060	PID	Product/Item Description	O	1			Used
100	PO4	Item Physical Details	O	1			Used
LOOP ID - SAC					**25**		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	TDS	Total Monetary Value Summary	M	1			Must use
030	CAD	Carrier Detail	O	1			Used
LOOP ID - SAC					**25**		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ISS					**>1**		
060	ISS	Invoice Shipment Summary	O	1			Used
070	CTT	Transaction Totals	O	1		N3/070	Used
080	SE	Transaction Set Trailer	M	1			Must use

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.

ST | Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **All valid standard codes are used.**	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** **Description:** 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: 5**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	**Invoice Number** **Description:** Identifying number assigned by issuer	M	AN	1/22	Must use
BIG03	373	**Date** **Description:** Date expressed as CCYYMMDD	O	DT	8/8	Used
BIG04	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	Used
BIG05	328	**Release Number** **Description:** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.

NTE   Note/Special Instruction

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
NTE01	363	**Note Reference Code** **Description:** Code identifying the functional area or purpose for which the note applies **All valid standard codes are used.**	O	ID	3/3	Used
NTE02	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	M	AN	1/80	Must use

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

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **All valid standard codes are used.**	M	ID	2/3	Must use
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

N1   Name

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

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **All valid standard codes are used.**	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	C	AN	1/60	Used
N103	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **All valid standard codes are used.**	C	ID	1/2	Used
N104	67	**Identification Code** **Description:** Code identifying a party or other code	C	AN	2/80	Used

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104   is present, then all are required

N3   Address Information

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

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use
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**

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name** **Description:** Free-form text for city name	O	AN	2/30	Used
N402	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	**Country Code** **Description:** Code identifying the country	O	ID	2/3	Used

Comments:

1. 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/A	Elements: 10

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code** **Description:** Code identifying type of payment terms **All valid standard codes are used.**	O	ID	2/2	Used
ITD02	333	**Terms Basis Date Code** **Description:** Code identifying the beginning of the terms period **All valid standard codes are used.**	O	ID	1/2	Used
ITD03	338	**Terms Discount Percent** **Description:** 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	**Terms Discount Due Date** **Description:** Date payment is due if discount is to be earned expressed in format CCYYMMDD	C	DT	8/8	Used
ITD05	351	**Terms Discount Days Due** **Description:** 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	**Terms Net Due Date** **Description:** Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	**Terms Net Days** **Description:** Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD08	362	**Terms Discount Amount** **Description:** Total amount of terms discount	O	N2	1/10	Used
ITD10	389	**Deferred Amount Due** **Description:** Deferred amount due for payment	C	N2	1/10	Used
ITD12	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

Syntax:

1. L03040513 - If ITD03 is present, then at least one of ITD04,ITD05,ITD13 is required
2. L08040513 - If ITD08 is present, then at least one of ITD04,ITD05,ITD13 is required

Comments:

1. 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.

DTM   Date/Time Reference

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

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time **All valid standard codes are used.**	M	ID	3/3	Must use
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD	C	DT	8/8	Used

Syntax:

1. R020305 - At least one of DTM02,DTM03,DTM05 is required

FOB F.O.B. Related Instructions

Pos: 150   Max: 1
Heading - Optional
Loop: N/A   Elements: 3

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	**Shipment Method of Payment** **Description:** Code identifying payment terms for transportation charges **All valid standard codes are used.**	M	ID	2/2	Must use
FOB02	309	**Location Qualifier** **Description:** Code identifying type of location **All valid standard codes are used.**	C	ID	1/2	Used
FOB03	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

Syntax:
1. C0302 - If FOB03 is present, then all of FOB02 are required

Semantics:
1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.

IT1   Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 5

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT102	358	**Quantity Invoiced** **Description:** Number of units invoiced (supplier units)	C	R	1/10	Used
IT103	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used
IT104	212	**Unit Price** **Description:** Price per unit of product, service, commodity, etc.	C	R	1/17	Used
IT106	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **All valid standard codes are used.**	C	ID	2/2	Used
IT107	234	**Product/Service ID** **Description:** Identifying number for a product or service	C	AN	1/48	Used

Syntax:
1. P020304 - If either IT102,IT103,IT104   is present, then all are required
2. P0607 - If either IT106,IT107   is present, then all are required

Comments:
1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

IT3　Additional Item Data

<table>
<tr><td>Pos: 030</td><td>Max: 5</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used

To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT301	382	**Number of Units Shipped** **Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	C	R	1/10	Used
IT302	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used
IT303	368	**Shipment/Order Status Code** **Description:** Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction **All valid standard codes are used.**	C	ID	2/2	Used
IT304	383	**Quantity Difference** **Description:** Numeric value of variance between ordered and shipped quantities	C	R	1/9	Used

Syntax:

1. P0102 - If either IT301,IT302   is present, then all are required
2. R01030405 - At least one of IT301,IT303,IT304,IT305 is required

PID Product/Item Description

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type** **Description:** Code indicating the format of a description **All valid standard codes are used.**	M	ID	1/1	Must use
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	C	AN	1/80	Must use

PO4 Item Physical Details

Pos: 100	**Max: 1**
Detail - Optional	
Loop: IT1	**Elements: 3**

User Option (Usage): Used

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	**Pack** **Description:** The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0	1/6	Used
PO402	357	**Size** **Description:** Size of supplier units in pack	C	R	1/8	Used
PO403	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used

Syntax:

1. P0203 - If either PO402,PO403   is present, then all are required

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180 **Max: 1**
Detail - Optional
Loop: SAC **Elements: 9**

User Option (Usage): Used

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator** **Description:** Code which indicates an allowance or charge for the service specified **All valid standard codes are used.**	M	ID	1/1	Must use
SAC02	1300	**Service, Promotion, Allowance, or Charge Code** **Description:** Code identifying the service, promotion, allowance, or charge **All valid standard codes are used.**	C	ID	4/4	Must use
SAC05	610	**Amount** **Description:** Monetary amount	O	N2	1/15	Used
SAC06	378	**Allowance/Charge Percent Qualifier** **Description:** Code indicating on what basis allowance or charge percent is calculated **All valid standard codes are used.**	C	ID	1/1	Used
SAC07	332	**Percent** **Description:** Percent expressed as a percent	C	R	1/6	Used
SAC08	118	**Rate** **Description:** Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC12	331	**Allowance or Charge Method of Handling Code** **Description:** Code indicating method of handling for an allowance or charge **All valid standard codes are used.**	O	ID	2/2	Used
SAC13	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
SAC15	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

Syntax:

1. R0203 - At least one of SAC02,SAC03 is required
2. P0607 - If either SAC06,SAC07   is present, then all are required
3. L130204 - If SAC13 is present, then at least one of SAC02,SAC04 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. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

TDS   Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	**Elements: 4**

User Option (Usage): Must use

To specify the total invoice discounts and amounts

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	610	**Amount** **Description:** Monetary amount	M	N2	1/15	Must use
TDS02	610	**Amount** **Description:** Monetary amount	O	N2	1/15	Used
TDS03	610	**Amount** **Description:** Monetary amount	O	N2	1/15	Used
TDS04	610	**Amount** **Description:** Monetary amount	O	N2	1/15	Used

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.

CAD   Carrier Detail

<table>
<tr><td>Pos: 030</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Summary - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used

To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transportation Method/Type Code** **Description:** Code specifying the method or type of transportation for the shipment **All valid standard codes are used.**	O	ID	1/2	Used
CAD04	140	**Standard Carrier Alpha Code** **Description:** Standard Carrier Alpha Code	C	ID	2/4	Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040 Max: 1
Summary - Optional
Loop: SAC Elements: 5

User Option (Usage): Used

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator** **Description:** Code which indicates an allowance or charge for the service specified **All valid standard codes are used.**	M	ID	1/1	Must use
SAC02	1300	**Service, Promotion, Allowance, or Charge Code** **Description:** Code identifying the service, promotion, allowance, or charge **All valid standard codes are used.**	C	ID	4/4	Used
SAC05	610	**Amount** **Description:** Monetary amount	O	N2	1/15	Used
SAC12	331	**Allowance or Charge Method of Handling Code** **Description:** Code indicating method of handling for an allowance or charge **All valid standard codes are used.**	O	ID	2/2	Used
SAC15	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

Syntax:
1. R0203 - At least one of SAC02,SAC03 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.

ISS   Invoice Shipment Summary

Pos: 060	**Max: 1**
Summary - Optional	
Loop: ISS	**Elements: 4**

User Option (Usage): Used

To specify summary details of total items shipped in terms of quantity, weight, and volume

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS01	382	**Number of Units Shipped** **Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	C	R	1/10	Used
ISS02	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used
ISS03	81	**Weight** **Description:** Numeric value of weight	C	R	1/10	Used
ISS04	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used

Syntax:

1. R010305 - At least one of ISS01,ISS03,ISS05 is required
2. P0102 - If either ISS01,ISS02   is present, then all are required
3. P0304 - If either ISS03,ISS04   is present, then all are required

CTT   Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	**Elements: 7**

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items** **Description:** Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	**Hash Total** **Description:** 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 beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.---------1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field.	O	R	1/10	Used
CTT03	81	**Weight** **Description:** Numeric value of weight	C	R	1/10	Used
CTT04	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used
CTT05	183	**Volume** **Description:** Value of volumetric measure	C	R	1/8	Used
CTT06	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	C	ID	2/2	Used
CTT07	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

Syntax:

1. P0304 - If either CTT03,CTT04   is present, then all are required
2. P0506 - If either CTT05,CTT06   is present, then all 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**

User Option (Usage): Must use

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:

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