ADOBE ANSI X12 810 4010

Version: 1.0

Author:	**Adobe Systems**
Modified:	**06/15/2009**

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.

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Mandatory
	GS	Functional Group Header	M	1			Mandatory

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Mandatory
020	BIG	Beginning Segment for Invoice	M	1			Mandatory
030	NTE	Note/Special Instruction	O	100			Optional
040	CUR	Currency	O	1			Optional
050	REF	Reference Identification	O	12			Optional
LOOP ID - N1					200		
070	N1	Name	O	1			Optional
080	N2	Additional Name Information	O	2			Optional
090	N3	Address Information	O	2			Optional
100	N4	Geographic Location	O	1			Optional
120	PER	Administrative Communications Contact	O	3			Optional
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Optional
140	DTM	Date/Time Reference	O	10			Optional

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					200000		
010	IT1	Baseline Item Data (Invoice)	O	1			Mandatory
LOOP ID - PID					1000		
060	PID	Product/Item Description	O	1			Optional

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	TDS	Total Monetary Value Summary	M	1			Mandatory
020	TXI	Tax Information	O	10			Optional
LOOP ID - SAC					25		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Optional
070	CTT	Transaction Totals	O	1		N3/070	Mandatory
080	SE	Transaction Set Trailer	M	1			Mandatory

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Mandatory
	IEA	Interchange Control Trailer	M	1			Mandatory

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.

ISA   Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Mandatory

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Authorization Information				
ISA02	I02	**Authorization Information**	M	AN	10/10	Mandatory
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Security Information				
ISA04	I04	**Security Information**	M	AN	10/10	Mandatory
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Mandatory
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Mandatory
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	**Interchange Date**	M	DT	6/6	Mandatory
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Mandatory
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Mandatory

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Mandatory
		Description: This version number covers the interchange control segments				
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Mandatory
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Mandatory
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
ISA15	I14	**Usage Indicator**	M	ID	1/1	Mandatory
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
ISA16	I15	**Component Element Separator**	M		1/1	Mandatory
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Mandatory
		Description: Code identifying a group of application related transaction sets				
GS02	142	**Application Sender's Code**	M	AN	2/15	Mandatory
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	**Application Receiver's Code**	M	AN	2/15	Mandatory
		Description: Code identifying party receiving transmission. Codes agreed to by trading partners				
GS04	373	**Date**	M	DT	8/8	Mandatory
		Description: Date expressed as CCYYMMDD				
GS05	337	**Time**	M	TM	4/8	Mandatory
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
GS06	28	**Group Control Number**	M	N0	1/9	Mandatory
		Description: Assigned number originated and maintained by the sender				
GS07	455	**Responsible Agency Code**	M	ID	1/2	Mandatory
		Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard				
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Mandatory
		Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

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

User Option (Usage): Mandatory

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**	M	ID	3/3	Mandatory

Description: Code uniquely identifying a Transaction Set

Code	Name
810	Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Mandatory

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

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).

User Note 2:

*ST*810*136481*

BIG   Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

User Option (Usage): Mandatory

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**	M	DT	8/8	Mandatory
		Description: Date expressed as CCYYMMDD				
BIG02	76	**Invoice Number**	M	AN	1/22	Mandatory
		Description: Identifying number assigned by issuer				
		User Note 1: *It is recommended that the invoice number be unique for a period of not less than one (1) year.*				
BIG03	373	**Date**	O	DT	8/8	Optional
		Description: Date expressed as CCYYMMDD				
BIG04	324	**Purchase Order Number**	O	AN	1/22	Optional
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BIG07	640	**Transaction Type Code**	O	ID	2/2	Optional
		Description: Code specifying the type of transaction				
		User Note 1: *This data element is used only when special identification of the invoice is needed, between trading partners, to support business needs.*				

Code	Name
DI	Debit Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG08	353	**Transaction Set Purpose Code**	O	ID	2/2	Not used
		Description: Code identifying purpose of transaction set				

Code	Name
00	Original

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.

User Note 2:

*BIG*20070129*0013833622*20070129*4150223D***DI*00*

NTE   Note/Special Instruction

User Option (Usage): Optional

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**	O	ID	3/3	Optional

Description: Code identifying the functional area or purpose for which the note applies

Code	Name
GEN	Entire Transaction Set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
NTE02	352	**Description**	M	AN	1/80	Mandatory

Description: A free-form description to clarify the related data elements and their content

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.

User Note 2:

*NTE*GEN*text*

CUR   Currency

Pos: 040	**Max: 1**
Heading - Optional	
Loop: N/A	**Elements: 3**

User Option (Usage): Optional

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	**Entity Identifier Code**	M	ID	2/3	Mandatory

Description: Code identifying an organizational entity, a physical location, property or an individual

Code Name
SE   Selling Party

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR02	100	**Currency Code**	M	ID	3/3	Mandatory

Description: Code (Standard ISO) for country in whose currency the charges are specified

User Note 1: *CAD = Canadian dollars*
USD = US Dollars

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR03	280	**Exchange Rate**	O	R	4/10	Optional

Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

User Note 1:

If the CUR segment is not used, monetary values are assumed to be expressed in the currency of the country of the transaction originator.

User Note 2:

*CUR*SE*USD*0.05*

REF   Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Optional

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

User Note 1: *("CO") - This is typically used in a fulfillment situation.*
Note ("IA") - Identification Number assigned to the supplier, by the buyer for use within the buyer's system.
Note ("IT") - Identification Number assigned to the buyer, by the supplier for use within the supplier's system.
Note ("TC") - Finance Terms between vendor and flooring company. When used, REF02 contains the vendors term code, REF03 may optionally be used to send a textual description.

Code	Name
61	Adobe VAT Number
CO	Customer Order Number
VN	Vendor Order Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Optional

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	**Description**	C	AN	1/80	Optional

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

Semantics:

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

User Note 1:

In this Header position of the Invoice X12 EDI document, this segment is used for reference numbers relating to the Invoice. There is one reference number per segment. The REF segment can loop 12 times at this Header level.

User Note 2:

*REF*CO*12345*

N1 Name

<table>
<tr><td>Pos: 070</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Optional

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**	M	ID	2/3	Mandatory

Description: Code identifying an organizational entity, a physical location, property or an individual

User Note 1: *("BO") - For domestic purchase order, this is the manufacturer's sales office. For an import purchase order, this is the sales office that interacts with the manufacturer's/buyer's agent.*
Note ("BY") - Should be used only if "Buying Party" ("BY") is different than "Bill To: ("BT").
Note ("SE") - Used by flooring companies when forwarding copies of invoices to dealer/buyer.

Code	Name
BT	Bill-to-Party
BY	Buying Party (Purchaser)
CA	Carrier
DU	Reseller
EN	End User
II	Issuer of Invoice
PR	Payer
SE	Selling Party
SO	Sold To If Different From Bill To
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Optional

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	C	ID	1/2	Optional

Description: Code designating the system/method of code structure used for Identification Code (67)

User Note 1: *CompTIA recommends the use of a Dun & Bradstreet (DUNS) Number to identify the trading partners. D & B assigns a nine-digit identifier to each trading partner. The trading partner then assigns a four-digit (DUNS+4) code to uniquely identify the specific location, e.g., 0000 may be corporate offices, 0001 may be a central warehouse, 0002 may be one of the trading partners' sites.*

Code	Name
91	Assigned by Seller or Seller's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	C	AN	2/80	Optional

Description: Code identifying a party or other code

Syntax Rules:

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.
2. N105 and N106 further define the type of entity in N101.

User Note 1:

It is strongly encouraged that the trading partners codify all addresses within their systems through use of N103 and N104. The use of codes would eliminate the need for transmittal of the N2, N3 and N4 segments below.

User Note 2:

N1*BT*COMPUTER RESELLER*91*1234567891234

N2 Additional Name Information

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

User Option (Usage): Optional

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	Mandatory
		Description: Free-form name				
N202	93	**Name**	O	AN	1/60	Optional
		Description: Free-form name				

User Note 2:

*N2*BUYER*

N3 Address Information

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

User Option (Usage): Optional

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Mandatory
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Optional
		Description: Address information				

User Note 2:

N3*123 MAIN STREET

N4 Geographic Location

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

User Option (Usage): Optional

To specify the geographic place of the named party

Element Summary:

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

User Note 1: *For US and Canadian locations CompTIA does not recommend the use of N404. For non-US/Canadian locations the two-character country code qualifier established by ISO 3166 (E/F) should be used. ISO 3166 : 1988 (E/F) is available from: American National Standards Institute, 11 West 42nd Street, New York, NY 10036, Telephone: 212 642-4900, FAX: 212 302-1286.*

Syntax Rules:

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.

User Note 2:

*N4*CEDAR RAPIDS*IA*524032140*

PER Administrative Communications Contact

Pos: 120	**Max: 3**
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Optional

To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Mandatory

Description: Code identifying the major duty or responsibility of the person or group named

User Note 1: *("RE") - This is the contact name if a problem occurs in paying the invoice.*

Code Name

CN   General Contact

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/60	Optional

Description: Free-form name

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

User Note 1:

In this Header position of the Invoice X12 EDI document, this segment identifies the parties responsible for originating the invoice.

User Note 2:

*PER*CN*JSMITH*

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Optional

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code**	O	ID	2/2	Optional

Description: Code identifying type of payment terms

Code	Name
14	Previously agreed upon

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD02	333	**Terms Basis Date Code**	O	ID	1/2	Optional

Description: Code identifying the beginning of the terms period

Code	Name
3	Invoice Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD07	386	**Terms Net Days**	O	N0	1/3	Optional

Description: Number of days until total invoice amount is due (discount not applicable)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD12	352	**Description**	O	AN	1/80	Optional

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

Semantics:

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

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.

User Note 1:

In this Header position of the Invoice X12 EDI document, this segment is used to specify terms of the invoice. In the transitional period for the microcomputer industry, from paper to full automated EDI transactions, there may be a perceived need to send text data with the terms. Clearly the goal is to have the entire microcomputer industry participating in EDI. Therefore, if text data is needed to be sent for terms, ITD 12 will contain the free form text. If additional text is needed, additional ITD segments should be used.

User Note 2:

*ITD*14*3*****45*****Up to 03/15/2007 without deduction*

DTM   Date/Time Reference

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

User Option (Usage): Optional

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Mandatory

Description: Code specifying type of date or time, or both date and time

Code Name
011   Shipped

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	8/8	Optional

Description: Date expressed as CCYYMMDD

Syntax Rules:

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.

User Note 1:

In this Header position of the Invoice X12 EDI document, this segment identifies the pertinent shipping date.

User Note 2:

*DTM*011*20070129*

IT1 Baseline Item Data (Invoice)

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

User Option (Usage): Mandatory

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
IT101	350	**Assigned Identification**	O	AN	1/20	Optional

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1: *Original Line Number from PO*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT102	358	**Quantity Invoiced**	C	R	1/10	Mandatory

Description: Number of units invoiced (supplier units)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT103	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Mandatory

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1: *Unit of Measure listed should be the same unit of measure listed in the Purchase Order.*

Code Name

EA   Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT104	212	**Unit Price**	C	R	1/17	Mandatory

Description: Price per unit of product, service, commodity, etc.

User Note 1: *Rate charged per unit of measure less discount percent, but not to include order level discounts or allowances. The price is expressed in dollars. The decimal point is required if the price is not in whole dollars. The price would be sent with a decimal point only when needed, e.g., $15.95 would be sent as "15.95", and $29.00 would be sent as "29". To indicate free goods, use a single zero (0) with code NC as the value in IT105.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT105	639	**Basis of Unit Price Code**	O	ID	2/2	Optional

Description: Code identifying the type of unit price for an item

User Note 1: *This data element is used to clarify or alter the basis of unit price. The unit price expressed in IT104 is always in the same terms as the unit of measure in IT103, unless otherwise specified in IT105.*

Code Name

CP   Current Price (Subject to Change)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT106	235	**Product/Service ID Qualifier**	C	ID	2/2	Optional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

User Note 1: *CompTIA recommends the use of supplier part numbers in either UPC, EAN, or Code 39 with FACT Data Identifier formats. Transitional*

Ref	Id	Element Name	Req	Type	Min/Max	Usage

use of the customer's part numbers may facilitate the cross-referencing of supplier part numbers to the customer's part numbers. The customer's part numbers should be phased out and replaced with supplier part numbers. All suppliers will need either a manufacturer's identification assigned by the Uniform Code Council or the appropriate EAN authority or a publisher identification assigned by the appropriate ISBN agency. Contact CompTIA for information on these coding structures.
Note - Use VX when using a "bundle" or "kit" number to indicate that SLN segments will follow with related component numbers.
Note - The vendor's Mfr. ID# is used conditionally when IT106 reflects "MG".

Code Name
VP   Vendor's (Seller's) Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT107	234	**Product/Service ID**	C	AN	1/48	Optional

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT108	235	**Product/Service ID Qualifier**	C	ID	2/2	Optional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name
BP   Buyer's Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT109	234	**Product/Service ID**	C	AN	1/48	Optional

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT110	235	**Product/Service ID Qualifier**	C	ID	2/2	Optional

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code Name
UP   U.P.C. Consumer Package Code (1-5-5-1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT111	234	**Product/Service ID**	C	AN	1/48	Optional

Description: Identifying number for a product or service

Syntax Rules:

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.

Semantics:

1. IT101 is the purchase order line item identification.

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.

2. 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.

User Note 1:

At the Item Level, this segment can be used to identify either the basic unit (SKU) or at a bundle/kit/product configuration level which is further broken down into components. The components would be listed in the SLN loop following this segment.

For example, a computer (item level) may have individual components which may be separately identified (CPU, hard disk, monitor, keyboard, etc.). Another example could be a group of software products which have been grouped together for sale as one unit, e.g., a spreadsheet program and a report writer or a virus program with a utility program.

In this Detail position of the Invoice X12 EDI document, this segment identifies the quantity, unit price, and product codes of the items being invoiced. CompTIA recommends the use of UPC code in UCC/EAN formats. Product descriptions would appear in a corresponding and subsequent PID segment.

User Note 2:

example :IT1*000010*2773*EA*41*CP*VP*09972555*BP*1234567*UP*5029766636242 (Adobe Shrink Wrap SKU)
example :IT1*000010*2773*EA*41*CP*VP*09972555A4*BP*1234567*UP*5029766636242 (Adobe AVL 4.5 Licensing Program SKU)
example :IT1*000010*2773*EA*41*CP*VP*65008841AB02A00*BP*1234567*UP*5029766636242 (Adobe AVL 5.0 Licensing Program SKU - Post October 2009)

Adobe:

Partners P.O. Line Item Number will be sent in the IT101 in the invoice when applicable. If Partner P.O. Line Item Number does not exist in Adobe's Ordering System, then Adobe's Invoice Line Item Number will be sent.

For Adobe's AVL 5.0 Licensing Program (October 2009), the Adobe SKU in the IT107 will extend to 15 digits.

PID   Product/Item Description

<table>
<tr><td>Pos: 060</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: PID</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Optional

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**	M	ID	1/1	Mandatory

Description: Code indicating the format of a description

User Note 1: *Semi-structured data may be both codes and text. If "X" is used, the structure may be mutually defined between the trading partners.*

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	C	AN	1/80	Optional

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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.

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.

User Note 1:
In the Detail position of the Invoice X12 EDI document, this segment identifies free-format product descriptions.

User Note 2:
PID*F****ACRO,8.0,WIN,AOO,UE,1PK,N/A

TDS   Total Monetary Value Summary

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

User Option (Usage): Mandatory

To specify the total invoice discounts and amounts

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	610	**Amount**	M	N2	1/15	Mandatory

Description: Monetary amount

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.

User Note 2:

*TDS*16000*

TXI Tax Information

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

User Option (Usage): Optional

To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Mandatory

Description: Code specifying the type of tax

Code	Name
ST	State Sales Tax

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI02	782	**Monetary Amount**	C	R	1/18	Optional

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percent**	C	R	1/10	Optional

Description: Percentage expressed as a decimal

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	C	ID	2/2	Optional

Description: Code identifying the source of the
data used in tax jurisdiction code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	C	AN	1/10	Optional

Description: Code identifying the taxing jurisdiction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	C	ID	1/1	Optional

Description: Code identifying exemption status
from sales and use tax

Code	Name
0	Exempt (For Export)
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)
3	Exempt (For Resale)
4	Not Exempt/For Resale
5	Exempt (Not For Resale)
6	Not Exempt,Not For Resale
7	Direct Pay ID
8	Exempt (Sale to U.S. Government)
9	Exempt (Per State Law)
A	Labor Taxable, Material Exempt
B	Material Taxable, Labor Exempt
C	Not Taxable
V	Exempt from State Property Tax
W	Other Property Tax Exemption
X	Exempt - Letter on file

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI07	662	**Relationship Code**	O	ID	1/1	Optional

Description: Code indicating the relationship
between entities
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI08	828	**Dollar Basis For Percent**	O	R	1/9	Optional

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax				
TXI09	325	**Tax Identification Number**	O	AN	1/20	Optional
		Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
		Adobe: *Customer VAT Number*				
TXI10	350	**Assigned Identification**	O	AN	1/20	Optional
		Description: Alphanumeric characters assigned for differentiation within a transaction set				

Syntax Rules:

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.

Semantics:

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.

User Note 2:

TXI*ST*0*0******noval*Customer VAT Number

SAC   Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	**Elements: 15**

User Option (Usage): Optional

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**	M	ID	1/1	Mandatory

Description: Code which indicates an allowance or charge for the service specified

Code	Name
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	C	ID	4/4	Optional

Description: Code identifying the service, promotion, allowance, or charge

Code	Name
D240	Freight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC03	559	**Agency Qualifier Code**	C	ID	2/2	Optional

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	C	AN	1/10	Optional

Description: Agency maintained code identifying the service, promotion, allowance, or charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC05	610	**Amount**	O	N2	1/15	Optional

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC06	378	**Allowance/Charge Percent Qualifier**	C	ID	1/1	Optional

Description: Code indicating on what basis allowance or charge percent is calculated
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC07	332	**Percent**	C	R	1/6	Optional

Description: Percent expressed as a percent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC08	118	**Rate**	O	R	1/9	Optional

Description: Rate expressed in the standard monetary denomination for the currency specified

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC09	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Optional

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.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC10	380	**Quantity**	C	R	1/15	Optional

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC11	380	**Quantity**	O	R	1/15	Optional

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2	Optional

Description: Code indicating method of handling for an allowance or charge

User Note 1: *"01" Used when customer is invoicing supplier for miscellaneous services provided.*

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC13	127	**Reference Identification**	C	AN	1/30	Optional

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC14	770	**Option Number**	O	AN	1/20	Optional

Description: A unique number identifying available promotion or allowance options when more than one is offered

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC15	352	**Description**	C	AN	1/80	Optional

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 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.
9. SAC16 is used to identify the language being used in SAC15.

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 as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

User Note 1:

At this Summary level within the Invoice X12 EDI document, this segment will indicate in ITA01 if it is allowances or charges. One segment per allowance or charge. This segment applies to the entire transaction. The allowances/charges specified at the

summary level are exclusive of the allowances/charges specified in any other areas; they are not the sum of the allowances/charges specified in the detail areas. ITA07 is required when using the ITA segment in the microcomputer industry. This will resolve any differences between the sender's and receiver's system calculations of amounts, e.g., rounding errors when allowances/charges are expressed in percentages or rates.

User Note 2:

SAC*C*D240***888

CTT **Transaction Totals**

User Option (Usage): Mandatory

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**	M	N0	1/6	Mandatory

Description: Total number of line items in the transaction set

Syntax Rules:

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:

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

User Note 1:

In this Summary position of the Invoice X12 EDI document, this segment identifies the number of line items reported.

User Note 2:

CTT*1

SE   Transaction Set Trailer

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

User Option (Usage): Mandatory

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**	M	N0	1/10	Mandatory
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Mandatory
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

1. SE is the last segment of each transaction set.

User Note 2:

SE~32~136481

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Mandatory
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	**Group Control Number**	M	N0	1/9	Mandatory
		Description: Assigned number originated and maintained by the sender				

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Mandatory

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Mandatory
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Mandatory
		Description: A control number assigned by the interchange sender				

```
ISA*00* *00* *16*102096559TEST *14*PARTNERTEST*071214*1406*U*00040*810000263*1*T*>
GS*IN*102096559TEST*PARTNER*20071214*1406*810000263*X*004010
ST*810*166061414
BIG*20070129*0013833070*20070129*V8748745***DI*00
NTE*GEN*If 0% VAT is charged and your VAT ID number is displayed above, this
NTE*GEN*is either an exempt or a reverse charge transaction.
NTE*GEN*This supply is exempt from VAT according to the section 64 of the Czec
NTE*GEN*h VAT Act.
CUR*SE*USD
REF*61*noval*Adobe VAT Number
REF*CO*121212
REF*VN*0070861270
N1*II*ADOBE SYSTEMS INCORPORATED*91*0000012137
N2*ADOBE SYSTEMS INCORPORATED
N3*345 PARK AVENUE
N4*SAN JOSE*CA*95110*US
N1*BY*SOFTWARE.*91*0000012137
N2*SOFTWARE
N3*111 MAIN DR
N4*PLANO*TX*75075*US
N1*BT*SOFTWARE.*91*0000012137
N2*SOFTWARE
N3*111 MAIN DR
N4*PLANO*TX*75075*US
N1*PR*SOFTWARE*91*0000012137
N2*SOFTWARE
N3*111 MAIN DR
N4*PLANO*TX*75075*US
N1*ST*SHIP TO PARTNER*91*0050480425
N2*SHIP TO
N3*122 MAIN AVE
N4*SANTA CLARA*CA*95050*US
PER*CN*JOHN DOE
N1*SE*ADOBE SYSTEMS INCORPORATED*91*ADUS
N2*ADOBE SYSTEMS INCORPORATED
N3*345 Park Avenue
N4*SAN JOSE*CA*95110*US
N1*EN**91*0020064630
N1*DU**91*0010013997
ITD*14*3*****35*****Up to 03/05/2007 without deduction
DTM*011*20070129
IT1*000010*1*EA*160*CP*VP*65008841AB02A00*BP*7167946*UP*883919019161
PID*F****ACRO,8.0,WIN,AOO,UE,1PK,N/A
TDS*16000
TXI*ST*0*0******noval*Customer VAT Number
CTT*1
SE*44*166061414
GE*1*810000263
IEA*1*810000263
```