US ECPA Christian – X12 vers 3060

810 Invoice

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Functional Group ID=IN

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Updates:
- September 20, 2006: Add ISBN-13, GTIN-14 Product ID's. Replace XNET with US ECPA Christian.
- August 10, 2016: Modified document's file name and Header to replace "XNet" with "US ECPA Christian." Added version, "X12 vers 3060.." Since this standard has been in use at least 12 years, replaced "Draft Standard Trial Use" with "Standard."

Introduction:

This Standard contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	050	REF	Reference Identification	O	12		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	140	DTM	Date/Time Reference	O	10		
			LOOP ID - LM			10	
	220	LM	Code Source Information	O	1		
	230	LQ	Industry Code	O	100		

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - IT1			200000	

	010	IT1	Baseline Item Data (Invoice)	O	1
M	050	CTP	Pricing Information	M	25

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
			LOOP ID - SAC			25	
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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.

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code**	**M** **ID 3/3**
		Code uniquely identifying a Transaction Set	
		Refer to 003060 Data Element Dictionary for acceptable code values.	

MST02   329   Transaction Set Control Number   M   AN 4/9
Identifying control number that must be unique within the transaction set functional group
assigned by the originator for a transaction set

Segment:BIG Beginning Segment for Invoice
  Position:020
    Loop:
    Level: Heading
    Usage: Mandatory
  Max Use:1
  Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and
           dates
Syntax Notes:
Semantic Notes:1BIG01 is the invoice issue date.
              2BIG03 is the date assigned by the purchaser to purchase order.
              3BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is
               not used.
  Comments:1BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MBIG01	373	**Date**	M	**DT 6/6**
		Date (YYMMDD)		
MBIG02	76	**Invoice Number**	M	**AN 1/22**
		Identifying number assigned by issuer		
BIG04	324	**Purchase Order Number**	O	**AN 1/22**
		Identifying number for Purchase Order assigned by the orderer/purchaser		
BIG05	328	**Release Number**	O	**AN 1/30**
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
BIG07	640	**Transaction Type Code**	O	**ID 2/2**
		Code specifying the type of transaction		
		C3 Consignment		
		CI Consolidated Invoice		
		CR Credit Memo		

Segment:REF Reference Identification
  Position:050
    Loop:
    Level: Heading
    Usage: Optional

Max Use: 12

Purpose: To specify identifying information

Syntax Notes: **1** At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
M REF01	128	**Reference Identification Qualifier**	M	ID 2/3
		Code qualifying the Reference Identification		
		BM Bill of Lading Number		
		DP Department Number		
		IA Internal Vendor Number		
REF02	127	**Reference Identification**	O	AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier (Vendor Invoice number)		
REF03	352	**Description**	O	AN 1/80
		A free-form description to clarify the related data elements and their content. "Invoice"		

Segment: **N1** Name

Position: 070

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 1

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

Syntax Notes: **1** At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

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.

Data Element Summary

Ref.   Data

Des.		ElementName	Attributes	
MN101	98	**Entity Identifier Code**	M	ID 2/2

Code identifying an organizational entity, a physical location, or an individual
ST Ship To

MN103	66	**Identification Code Qualifier**	M	ID 1/2

Code designating the system/method of code structure used for Identification Code (67)
15 Standard Address Number (SAN)

MN104	67	**Identification Code**	M	AN 2/20

Code identifying a party or other code

Segment:ITD Terms of Sale/Deferred Terms of Sale

Position:130
Loop:
Level: Heading
Usage: Optional
Max Use:>1
Purpose: To specify terms of sale
Syntax Notes:1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
2If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:1ITD15 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.

Data Element Summary

Ref. Des.	Data ElementName	Attributes	
ITD01	336 **Terms Type Code**	O	ID 2/2

Code identifying type of payment terms
01 Basic
02 End of Month (EOM)
03 Fixed Date
05 Discount Not Applicable
07 Extended
12 10 Days After End of Month (10 EOM)
14 Previously agreed upon
18 Fixed Date, Late Payment Penalty Applies
Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date
22 Cash Discount Terms Apply
Contract terms specify that a cash discount is applicable
CO Consignment
NC No Charge

ITD02	333 **Terms Basis Date Code**	O	ID 1/2

Code identifying the beginning of the terms period
  1 Ship Date
  3 Invoice Date
  4 Specified Date
  8 Invoice Transmission Date

ITD03	**338**	**Terms Discount Percent**	**O**	**R 1/6**

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

ITD04	**370**	**Terms Discount Due Date**	**C**	**DT 6/6**

Date payment is due if discount is to be earned

ITD05	**351**	**Terms Discount Days Due**	**C**	**N0 1/3**

Number of days in the terms discount period by which payment is due if terms discount is earned

ITD06	**446**	**Terms Net Due Date**	**O**	**DT 6/6**

Date when total invoice amount becomes due

ITD07	**386**	**Terms Net Days**	**O**	**N0 1/3**

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

ITD08	**362**	**Terms Discount Amount**	**O**	**N2 1/10**

Total amount of terms discount

Segment:DTM Date/Time Reference

Position: 140
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM06 is required.
　　　　　　2 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MDTM01	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**

Code specifying type of date or time, or both date and time
 011 Shipped

DTM02	**373**	**Date**	**X**	**DT 6/6**

Date (YYMMDD)

DTM05	**624**	**Century**	**X**	**N0 2/2**

The first two characters in the designation of the year (CCYY)

Segment:LM **Code Source Information**

  Position:220
      Loop:LM Optional
      Level: Heading
      Usage: Optional
  Max Use:1
  Purpose: To transmit standard code list identification information
  Syntax Notes:
Semantic Notes:
      Comments:1LM02 identifies the applicable industry code list source information.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
LM01	559	**Agency Qualifier Code**	O	ID 2/2
		Code identifying the agency assigning the code values		
		BI Book Industry Systems Advisory Committee		
LM02	822	**Source Subqualifier**	O	AN 1/15
		A reference that indicates the table or text maintained by the Source Qualifier "ACK"		

Segment:LQ **Industry Code**

  Position:230
      Loop:LM Optional
      Level: Heading
      Usage: Optional
  Max Use:100
  Purpose: Code to transmit standard industry codes
  Syntax Notes:1If LQ01 is present, then LQ02 is required.
Semantic Notes:
      Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
LQ01	1270	**Code List Qualifier Code**	O	ID 1/3
		Code identifying a specific industry code list		
		Refer to 003060 Data Element Dictionary for acceptable code values.		
LQ02	1271	**Industry Code**	X	AN 1/30

Segment:IT1 **Baseline Item Data (Invoice)**
Position:010
Loop:IT1 Optional
Level: Detail
Usage: Optional
Max Use:1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:1 If any of IT102 IT103 or IT104 is present, then all are required.
  2 If either IT106 or IT107 is present, then the other is required.
  3 If either IT108 or IT109 is present, then the other is required.
  4 If either IT110 or IT111 is present, then the other is required.
  5 If either IT112 or IT113 is present, then the other is required.
  6 If either IT114 or IT115 is present, then the other is required.
  7 If either IT116 or IT117 is present, then the other is required.
  8 If either IT118 or IT119 is present, then the other is required.
  9 If either IT120 or IT121 is present, then the other is required.
  10If either IT122 or IT123 is present, then the other is required.
  11If either IT124 or IT125 is present, then the other is required.
Semantic Notes: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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IT101	350	**Assigned Identification**	O	AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set. This value is reflected back to the buyer as found in the PO101 segment of the buyer's PO document (850)		
IT102	358	**Quantity Invoiced**	C	R 1/10
		Number of units invoiced (supplier units)		
IT103	355	**Unit or Basis for Measurement Code**	C	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		ST Set		
		UN Unit		
IT104	212	**Unit Price**	C	R 1/17
		Price per unit of product, service, commodity, etc.		
IT105	639	**Basis of Unit Price Code**	O	ID 2/2
		Code identifying the type of unit price for an item		

NC No Charge
PE Price per Each
PR Promotion
WE Wholesale Price per Each

IT106 **235** **Product/Service ID Qualifier**   **C**   **ID 2/2**

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

CB Buyer's Catalog Number
IB International Standard Book Number (ISBN)
UP U.P.C. Consumer Package Code (1-5-5-1)
EN (ISBN-13) 13-digit European Article Number (EAN) (2-5-5-1)
UK 14-digit GTIN, UCC/EAN 1-2-5-5-1. Used when a leading digit is added to the ISBN-13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated.
VN Vendor's (Seller's) Item Number

IT107 **234** **Product/Service ID**   **C**   **AN 1/40**

Identifying number for a product or service

IT108 **235** **Product/Service ID Qualifier**   **C**   **ID 2/2**

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

CB Buyer's Catalog Number

IT109 **234** **Product/Service ID**   **C**   **AN 1/40**

Identifying number for a product or service. This value is reflected back to the Buyer as found in the PO1 loop, Qualified as "CB", of the Buyer's PO document (850)

Segment:CTP **Pricing Information**

Position: 050
Loop: IT1 Optional
Level: Detail
Usage: Mandatory
Max Use: 25
Purpose: To specify pricing information
Syntax Notes: 1 If either CTP04 or CTP05 is present, then the other is required.
          2 If CTP06 is present, then CTP07 is required.
          3 If CTP09 is present, then CTP02 is required.
          4 If CTP10 is present, then CTP02 is required.
Semantic Notes: 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.
Comments: 1 See Figures Appendix for an example detailing the use of CTP03 and CTP04.
          See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
CTP02	236	**Price Identifier Code**	X	ID	3/3

Code identifying pricing specification

SLP Suggested List Price

CTP03	212	**Unit Price**	O	R	1/17

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

CTP06	648	**Price Multiplier Qualifier**	O	ID	3/3

Code indicating the type of price multiplier

DIS Discount Multiplier

CTP07	649	**Multiplier**	X	R	1/10

Value to be used as a multiplier to obtain a new value

Segment: **TDS** Total Monetary Value Summary

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

Purpose: To specify the total invoice discounts and amounts

Syntax Notes:

Semantic Notes: 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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
MTDS01	610	**Amount** M N2 1/15	

Monetary amount

TDS02	610	**Amount** O N2 1/15	

Monetary amount

TDS03	610	**Amount** O N2 1/15	

Monetary amount

TDS04	610	**Amount** O N2 1/15	

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 040
Loop: SAC Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes: 1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
Semantic Notes: 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.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
MSAC01	**248**	**Allowance or Charge Indicator**	**M ID 1/1**
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
MSAC02	**1300**	**Service, Promotion, Allowance, or Charge Code**	**M ID 4/4**

Code identifying the service, promotion, allowance, or charge
D200 Freight Charges to Destination
D500 Handling
G250 Refurbishing Charge

MSAC05   610   **Amount**   **M N2 1/15**
Monetary amount

Segment:CTT Transaction Totals
   Position:070
     Loop:
     Level: Summary
     Usage: Optional
  Max Use:1
   Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:1 If either CTT03 or CTT04 is present, then the other is required.
          2If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
   Comments:1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MCTT01	354	**Number of Line Items**	M	N0 1/6
		Total number of line items in the transaction set		
CTT02	347	**Hash Total**	O	R 1/10

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.

Segment:SE Transaction Set Trailer
   Position:080
     Loop:
     Level: Summary

Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments:1 SE is the last segment of each transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
MSE01	**96**	**Number of Included Segments**	**M N0 1/10**
		Total number of segments included in a transaction set including ST and SE segments	
MSE02	**329**	**Transaction Set Control Number**	**M AN 4/9**
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	