ANSI X12 version 4010 810 Invoice

VERSION: 01.00.04

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Trading Partner: **All**

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This document is describing the elements/segments of the 810 Invoice as of the date specified above. We reserve the right to modify the document and processes used at O. C. Tanner Company in regards to the 810 Invoice and its elements/segments. If any errors have been identified, the errors should be noted and the above contact must be notified immediately.

810   Invoice

Functional Group = IV

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.

Segments:

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

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
LOOP ID – N1					200		
070	N1	Name	M	1			Must Use
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

Detail:

	Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	LOOP ID – IT1					200000		
	010	IT1	Baseline Item Data (Invoice)	O	1			Used
	LOOP ID – IT1 - PID					1000		
	060	PID	Product/Item Description	O	1			Used
	LOOP ID – IT1 - CAD					1		
	160	CAD	Carrier Detail	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID – TDS					200		
010	TDS	Total Monetary Value Summary	M	1			Must Use
LOOP ID – TXI					200		
010	TXI	Tax Information	O	10			Used
LOOP ID – CAD					1		
030	CAD	Carrier Detail	O	10			Used
LOOP ID – SAC					200		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID – CTT					200		
070	CTT	Transaction Totals	O	1			Used
080	SE	Transaction Set Trailer	M	1			Must Use

Segments:

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

Notes:

ISA   Interchange Control Header

POS:	Max: 1
	Mandatory
Loop: N/A	Elements: 16

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**
		Description: Code to identify the type of information in the Authorization Information
		   Code **Name**
		    00 No Authorization Information Present
		        (No Meaningful Information in I02)
			M	ID	2/2	Must Use

ISA02	I02	**Authorization Information** **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)	M	AN	10/10	Must Use

ISA03	I03	**Security Information Qualifier**
		Description: Code to identify the type of information in the Security Information
		   Code **Name**
		    00 No Security Information Present
		        (No Meaningful Information in I04)
			M	ID	2/2	Must Use

ISA04	I04	**Security Information** **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)	M	AN	10/10	Must Use

ISA05	I05	**Interchange ID Qualifier**
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.
		   Code **Name**
		    01 Duns (Dun & Bradstreet)
		    09 X.121 (CCITT)
		    12 Phone (Telephone Companies)
		    ZZ Mutually Defined
			M	ID	2/2	Must Use

ISA06	I06	**Interchange Sender ID** **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	M	AN	15/15	Must Use

ISA07	I05	**Interchange ID Qualifier**
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
		   Code **Name**
		    01 Duns (Dun & Bradstreet)
			M	ID	2/2	Must Use

ISA08	I07	**Interchange Receiver ID** **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 receiving ID to route data to them **User Note:** '001947688EDI'	M	AN	15/15	Must Use
ISA09	I08	**Interchange Date** **Description:** Date of the interchange	M	DT	6/6	Must Use
ISA10	I09	**Interchange Time** **Description:** Time of the interchange	M	TM	4/4	Must Use
ISA11	I10	**Interchange Control Standards Identifier** **Description:** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer. All valid standard codes are used	M	ID	1/1	Must Use
ISA12	I11	**Interchange Control Version Number** **Description:** This version number covers the interchange control segments **Code** **Name**	M	ID	5/5	Must Use

		00401 Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Must Use
ISA14	I13	**Acknowledgement Requested** **Description:** Code sent by the sender to request an interchange acknowledgement (TA1) **Code** **Name** 0 No acknowledgement Requested	M	ID	1/1	Must Use
ISA15	I14	**Usage Indicator** **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information **Code** **Name** P Production Data T Test Data	M	ID	1/1	Must Use
ISA16	I15	**Component Element Separator** **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 the component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1//1	Must Use

GS   Functional Group Header

POS:	Max: 1
	Mandatory
Loop: N/A	Elements: 8

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** **Description:** Code identifying a group of application related transaction sets **Code** **Name** IN Invoice (810)	M	ID	2/2	Must Use
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must Use
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission. Codes agreed to by both trading partners **User Note**: '001947688EDI'	M	AN	2/15	Must Use
GS04	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8	Must Use
GS05	337	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSDD, 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)	M	TM	4/8	Must Use
GS06	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must Use
GS07	455	**Responsible Agency Code** **Description:** Code used in conjunction with Data Element 480 to identify the issuer of the standard **Code** **Name** X Accredited Standards Committee X12	M	ID	1/2	Must Use
GS08	480	**Version/Release/Industry Identifier Code** **Description:** Code indicating the version, release, sub-release, and industry 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 sub-release, level of the version; and positions 7-12 are the industry or trade associations identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed. **Code** **Name** 004010 Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must Use

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

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 **Code** **Name** 810 Invoice	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

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).

Comments:

BIG   Beginning Segment for Invoice

POS: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 10

To indicate the beginning of the Purchase Order 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	0/22	Must Use
BIG03	373	**Date**	O	DT	8/8	Not Used
BIG04	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser. *Same value as in BEG03 data element of the 850 Purchase Order transaction received.*	O	AN	0/22	Used
BIG05	328	**Release Number**	O	AN	0/30	Not Used
BIG06	327	**Change Order Sequence Number**	O	AN	0/8	Not Used
BIG07	640	**Transaction Type Code**	O	ID	2/2	Not Used
BIG08	353	**Transaction Set Purpose Code**	O	ID	2/2	Not Used
BIG09	306	**Action Code**	O	ID	2/2	Not Used
BIG10	76	**Invoice Number**	O	AN	0/22	Not Used

Semantics:

Comments:

N1   Name

POS: 070	Max: 1
Detail - Optional	
Loop: PO1 - N1	Elements: 6

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:
		 <u>Code</u> <u>Name</u>
		   BT Party to be billed for other than freight (Bill To)
		   ST Ship To
			M	ID	2/3	Must Use

N102	93	**Name** **Description:** Free-form name N102 = "O C Tanner" where N101 = "BT" N102 = N102 data element of an 850 EDI Purchase Order transaction where N1101 = "ST"	M	AN	1/60	Used

N103	66	**Identification Code Qualifier**
		 Description:
		 <u>Code</u> <u>Name</u>
		   12 Telephone Number
		   92 Assigned by Buyer or Buyers Agent
		 N103 = N103 data element of an 850 EDI Purchase Order transaction
		   where N101 = "ST"
			M	ID	2/2	Used

N104	67	**Identification Code** **Description:** Code identifying a party or other code N104 = N104 data element of an 850 EDI Purchase Order transaction where N101 = "ST"	M	AN	2/80	Used
N105	706	**Entity Relationship Code**	O	ID	2/2	Not Used
N106	98	**Entity Identifier Code**	O	ID	2/3	Not Used

Semantics:

Comments:
N102 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N102 where N101 = "ST".
N103 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N103 where N101 = "ST".
N104 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N104 where N101 = "ST".

N3   Address Information

<table>
<tr><td>POS: 090</td><td>Max: 2</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: N1-N3</td><td>Elements: 2</td></tr>
</table>

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

Semantics:

Comments:
N301 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N301 where N101 = "ST".
N302 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N302 where N101 = "ST".

N4   Geographic Location

POS: 100	Max: 1
Detail - Optional	
Loop: N1-N4	Elements: 6

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
N405	309	**Location Qualifier**	O	ID	0/2	Not Used
N406	310	**Location Qualifier**	O	AN	1/30	Not Used

Semantics:

Comments:
N401 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N401 where N101 = "ST".
N402 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N402 where N101 = "ST".
N403 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N403 where N101 = "ST".
N404 is populated with the value passed on the inbound 850 EDI Purchase Order transaction N404 where N101 = "ST".

ITD   Terms of Sale/Deferred Terms of Sale

POS: 130	Max: 1
	Detail - Mandatory
Loop: N/A	Elements: 15

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code** **Description:**	O	ID	2/2	Used
ITD02	333	**Terms Basis Date Code** **Description:**	O	ID	0/2	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	0/6	Used
ITD04	370	**Terms Dicount Due Date** **Description:** Date payment is due if the 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 the terms discount is earned.	C	N	0/3	Used
ITD06	446	**Terms Net Due Date** **Description:** Date when total invoice amount bcomes 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	N	0/3	Used
ITD08	362	**Terms Discount Amount** Description: Total amount of terms discount	O	N	2/10	Used
ITD09	388	**Terms Deferred Due Date** **Description:** Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD10	389	**Deferred Amount Due** **Description:** Deferred amount due for payment	O	DT	8/8	Used
ITD11	342	**Percent of Invoice Payable** **Description:** Amount of invoice payable expressed in percent	C	R	0/5	Used
ITD12	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	0/80	Used
ITD13	765	**Day of Month** **Description:** The numeric value of the day of the month between 1 and maximum day of the month begin referenced	C	N	0/2	Used
ITD14	107	**Payment Method Code** **Description:**	O	ID	0/2	Used
ITD15	954	**Percent** **Description:** Percentage expressed as a decimal	O	R	0/10	Used

Semantics:

Comments:

DTM   Date/Time Reference

POS: 140	Max: 10
Detail - Optional	
Loop: DTM	Elements: 6

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	M	ID	3/3	Must Use
DTM02	373	**Date** **Description:** Date expressed as CCYYMMDD	C	DT	8/8	Used
DTM03	337	**Time**	O	TM	4/8	Not Used
DTM04	623	**Time Code**	O	ID	2/2	Not Used
DTM05	1250	**Date Time Period Format Qualifier**	O	ID	2/3	Not Used
DTM06	1251	**Date Time Period**	O	AN	1/35	Not Used

Semantics:

Comments:

IT1　　Baseline Item Data

POS: 010	Max: 200000
Detail - Optional	
Loop: IT1 – IT1	Elements: 9

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT1-01	350	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set (Pulled from the purchase order PO101 field from the purchase order) (Should be a multiple of ten)	O	AN	1/20	Used
IT1-02	358	**Quantity Invoiced** **Description:** Number of units invoiced (supplier units) (Should match the PO102 field from the purchase order)	M	R	1/10	Used
IT1-03	355	**Unit or Basis for Measurement Code** **Code**　**Name** 'EA'　Each	M	ID	2/2	Used
IT1-04	212	**Unit Price** **Description:** Price per unit of product, service, commodity, etc.	M	R	1/17	Used
IT1-05	639	**Basis of Unit Price Code**	O	ID	2/2	Not Used
IT1-06	235	**Product/Service ID Qualifier** **Code**　**Name** 'IN'　Buyers Item Number	M	ID	2/2	Used
IT1-07	234	**Product/Service ID** **Description:** Identifying number for a product or service (Should be the same value as entered on purchase order field PO107)	M	AN	1/48	Used
IT1-08	235	**Product/Service ID Qualifier** **Code**　**Name** 'VC'　Vendors (Seller's) Catalog Number	C	ID	2/2	*Used
IT1-09	234	**Product/Service ID** **Description:** Identifying number for a product or service	C	AN	1/48	*Used
IT1-10	235	**Product/Service ID Qualifier** **Code**　**Name** 'UP'　U.P.C. Consumer Package Code (1-5-5-1)	O	ID	2/2	Optional
IT1-11	234	**Product/Service ID** **Description:** Identifying number for a product or service	O	AN	1/48	Optional
IT1-12	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-13	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-14	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-15	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-16	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-17	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-18	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-19	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-20	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-21	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-22	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-23	234	**Product/Service ID**	O	AN	1/48	Not Used
IT1-24	235	**Product/Service ID Qualifier**	O	ID	2/2	Not Used
IT1-25	234	**Product/Service ID**	O	AN	1/48	Not Used

Semantics:

Comments:

If O.C. Tannners part number equates to multiple part numbers on the vendor side, the populating of IT1-08, IT1-09 become required. Please note IT1-07 is Buyers Item Number and IT1-08 is Vendor (Seller's) Catalog Number.

PID   Product/Item Description

| POS: 220   Max: 1000 |
| Detail - Optional |
| Loop: IT1 - PID   Elements: 9 |

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 <u>Code</u> <u>Name</u> F Free-form	M	ID	1/1	Must Use
PID02	750	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	ID	2/3	Not Used
PID03	559	**Agency Qualifier Code**	O	ID	2/2	Not Used
PID04	751	**Product Description Code**	O	AN	1/12	Not Used
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
PID06	752	**Surface/Layer/Position Code**	O	ID	2/2	Not Used
PID07	822	**Source Sub-qualifier**	O	AN	1/15	Not Used
PID08	1073	**Yes/No Condition or Response Code**	O	ID	1/1	Not Used
PID09	819	**Language code**	O	ID	2/3	Not Used

Semantics:

Comments:

CAD   Carrier Detail

POS: 160	Max: 1
Detail - Optional	
Loop: IT1 – CAD	Elements: 9

To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transporation Method/Type Code**	O	ID	2/2	Not Used
CAD02	206	**Equipment Intital** **Description:** Prefix or alphabetic part of an equipment unit's identifying number	O	AN	0/4	Not Used
CAD03	207	**Equipment Number** **Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O	AN	0/10	Not Used
CAD04	140	**Standard Carrier Alpha Code** **Description:** Standard Carrier Alpha Code	X	ID	2/4	Used
CAD05	387	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	0/35	Used
CAD06	368	**Shipment/Order Status Code** **Description:** See Standard Code List	O	ID	2/2	Not Used
CAD07	128	**Reference Identification Qualifier** <u>**Code**</u> <u>**Name**</u> **BM** **Bill of Lading Number**	O	ID	2/3	Used
CAD08	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	0/30	Used
CAD09	284	**Service Level Code** **Description:** See Standard Code List	O	ID	2/2	Not Used

Semantics:

Comments:
At least one of CAD05 or CAD04 must be present.
If CAD07 is present, then CAD08 is required

TDS   Total Monetary Value Summary

POS: 010	Max: 1
Summary - Mandatory	
Loop:	Elements: 4

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	N	2/15	Must Use
TDS02	610	**Amount** **Description:** Monetary Amount	O	N	2/15	Not Used
TDS03	610	**Amount** **Description:** Monetary Amount	O	N	2/15	Not Used
TDS04	610	**Amount** **Description:** Monetary Amount	O	N	2/15	Not Used

Semantics:

Comments:

TXI   Tax Information

POS: 020		Max: 10
	Summary - Optional	
Loop: TXI		Elements: 10

To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must Use
TXI02	782	**Monetary Amount** **Description:** Monetary Amount	C	R	1/18	Used
TXI03	954	**Percent**	O	R	1/10	Not Used
TXI04	955	**Tax Jurisdiction Code Qualifier**	O	ID	2/2	Not Used
TXI05	956	**Tax Jurisdiction Code**	O	AN	1/10	Not Used
TXI06	441	**Tax Exempt Code**	O	ID	1/1	Not Used
TXI07	662	**Relationship Code**	O	ID	1/1	Not Used
TXI08	828	**Dollar Basis for Percent**	O	R	1/9	Not Used
TXI09	325	**Tax Identification Number**	O	AN	1/20	Not Used
TXI10	350	**Assignment Identification**	O	AN	1/20	Not Used

Semantics:

Comments:

CAD   Carrier Detail

POS: 030	Max: 1
Detail - Optional	
Loop: IT1 – CAD	Elements: 9

To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transporation Method/Type Code**	O	ID	2/2	Not Used
CAD02	206	**Equipment Intital** Description: Prefix or alphabetic part of an equipment unit's identifying number	O	AN	0/4	Not Used
CAD03	207	**Equipment Number** Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O	AN	0/10	Not Used
CAD04	140	**Standard Carrier Alpha Code** Description: Standard Carrier Alpha Code	X	ID	2/4	Used
CAD05	387	**Routing** Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	0/35	Used
CAD06	368	**Shipment/Order Status Code** Description: See Standard Code List	O	ID	2/2	Not Used
CAD07	128	**Reference Identification Qualifier** <u>Code</u> <u>Name</u> BM **Bill of Lading Number**	O	ID	2/3	Used
CAD08	127	**Reference Identification** Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	0/30	Used
CAD09	284	**Service Level Code** Description: See Standard Code List	O	ID	2/2	Not Used

Semantics:

Comments:
At least one of CAD05 or CAD04 must be present.
If CAD07 is present, then CAD08 is required
The detail CAD can be sent or the summary level CAD segment. If more than one line item is on the invoice, the detail level would most likely be necessary.

SAC Service, Promotion, Allowance, or Charge Information

POS: 040	Max: 25
	Summary - Optional
Loop: SAC	Elements: 16

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 indicating a charge or allowance
		     <u>Code</u> <u>Name</u>
		     'A' Allowance
		     'C' Charge
			M	ID	1/1	Must Use

SAC02	1300	**Service, Promotion, Allowance, or Charge Code**
		     <u>Code</u> <u>Name</u>
		     'C300' Discount – Special
		     'D240' Freight
		     'D830' Inside Pick-up
			C	ID	4/4	Used

SAC03	559	**Agency Qualifier Code**	O	ID	2/2	Not Used
SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	O	AN	1/10	Not Used
SAC05	610	**Amount**	C	N	2/15	Used
SAC06	378	**Allowance/Charge Percent Qualifier**	O	ID	1/1	Not Used
SAC07	332	**Percent**	O	R	1/6	Not Used
SAC08	118	**Rate**	O	R	1/9	Not Used
SAC09	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Not Used
SAC10	380	**Quantity**	O	R	1/15	Not Used
SAC11	380	**Quantity**	O	R	1/15	Not Used
SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2	Not Used
SAC13	127	**Reference Identification**	O	AN	1/30	Not Used
SAC14	770	**Option Number**	O	AN	1/20	Not Used
SAC15	352	**Description**	C	AN	1/80	Used
SAC16	819	**Language Code**	O	ID	2/3	Not Used

Semantics:

Comments:

If other charges or allowances are to be charged, they will be picked up by the SAC01 A or C qualifier. Only Freight will be handled separately on our processing. If passing any other charges or allowances, please communicate them durring the set-up/testing phase of the process.

CTT   Transaction Totals

		POS: 010	Max: 1
		Summary - Mandatory	
		Loop: CTT	Elements: 7

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	NO	1/6	Must Use
CTT02	347	**Hash Total**	O	R	1/10	Not Used
CTT03	81	**Weight**	O	R	1/10	Not Used
CTT04	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Not Used
CTT05	183	**Volume**	O	R	1/8	Not Used
CTT06	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Not Used
CTT07	352	**Description**	O	AN	1/80	Not Used

Semantics:

Comments:

SE   Transaction Set Trailer

POS: 030   Max: 1
Summary - Mandatory
Loop: N/A   Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

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

Semantics:

Comments:

GE   Functional Group Trailer

POS:	Max: 1
	- Mandatory
Loop: N/A	Elements: 2

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** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must Use
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must Use

Semantics:

Comments:

IEA   Interchange Control Trailer

POS: Max: 1
- Mandatory
Loop: N/A   Elements: 2

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** **Description:** A count of the number of functional groups included in an interchange	M	N0	1/5	Must Use
IEA02	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Must Use

Semantics:

Comments:

Sample IV Transaction Set

```
ISA*00*       *00*       *01*123456789    *ZZ*001947688EDI   *031208*0700*U*00401*000000326*0*T*>
GS*IN*123456789*001947688EDI*20031208*0700*140*X*004010
ST*810*000001383
BIG*20031205*824673*20031202*4500129814
N1*ST*JOHN DOE
N3*123 STREET
N4*ANYTOWN*US*12345
ITD*05*3**********NET 30
DTM*011*20031205
IT1**1*EA*344**IN*123456*VC*6221001
PID*F****GEN SILVER B LP BLK USA
CAD*****UPS**BM*1234567890
SAC*C*D830***500******02***RDWY
SAC*A*C300***688******02***2% CATALOG ALLOWANCE
TDS*34212
CTT*1
SE*15*000001383
ST*810*000001384
BIG*20031205*824836*20031204*4500130460
N1*ST*JANE DOE
N4*SOMEWHERE*US*12345
ITD*05*3**********NET 30
DTM*011*20031205
FOB*PC
IT1**1*EA*81.8**IN*234567*VC*458001
PID*F****18" O/T GOLD DARK BLUE USA
CAD*****UPS**BM*1234567890
SAC*C*D240***1038******06***FREIGHT CHRGS
SAC*C*D830***500******02***F011
SAC*A*C300***164******02***2% CATALOG ALLOWANCE
TDS*9554
CTT*1
SE*16*000001384
ST*810*000001385
BIG*20031205*824868*20031204*4500119141RR
N1*ST*JIMMY DOE
N4*ANYWHERE*US*12345
ITD*05*3**********NET 30
DTM*011*20031205
FOB*PC
IT1**1*EA*126**IN*3456789*VC*396001
PID*F****COMPANY Q SILVER
CAD*****UPS**BM*1234567890
SAC*C*D240***1730******06***FREIGHT CHRGS
SAC*C*D830***500******02***F011
SAC*A*C300***252******02***2% CATALOG ALLOWANCE
TDS*14578
CTT*1
SE*16*000001385
GE*3*140
IEA*1*000000326
```