810 Invoice

Functional Group=

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.

Not Defined:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	М	1			Must use

Heading:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0500	REF	Reference Identification	0	12			Used
<u>LOOP ID - N1</u> <u>200</u>							
0700	N1	Name	0	1			Used
0800	N2	Additional Name Information	0	2			Used
0900	N3	Address Information	0	2			Used
1000	N4	Geographic Location	0	1			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	0	>1			Used
1400	DTM	Date/Time Reference	0	10			Used

Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP ID	<u>- IT1</u>				200000		
0100	IT1	Baseline Item Data (Invoice)	0	1			Used
0500	CTP	Pricing Information	0	25			Used
LOOP ID	- PID				<u>1000</u>		
0600	PID	Product/Item Description	0	1			Used
1000	PO4	Item Physical Details	0	1			Used
1200	REF	Reference Identification	0	>1			Used
LOOP ID	- SAC				<u>>1</u>		
1800	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Used

Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	TDS	Total Monetary Value Summary	M	1			Must use

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>		
LOOP ID - SAC					<u>>1</u>				
0400	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Used		
0700	CTT	Transaction Totals	0	1		N3/0700	Used		
0800	SE	Transaction Set Trailer	М	1			Must use		
Not Defined:									
<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>		

Notes:

GΕ

IEA

Functional Group Trailer

Interchange Control Trailer

3/0700 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the hash total of the quantities invoiced (IT102) for each IT1 segment.

Μ

Μ

1

1

Must use

Must use

ISA Interchange Control Header

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

User Option (Usage): Must use

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

Element Summary:

Ref ISA01	<u>ld</u> 101	Element Name Authorization Information Qualifier	Req M	Type ID	Min/Max 2/2	<u>Usage</u> Must use				
		Description: Code identifying the type of infor All valid standard codes are used.	mation	in the Au	thorization Info	ormation				
ISA02	102	Authorization Information	М	AN	10/10	Must use				
		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	103	Security Information Qualifier	М	ID	2/2	Must use				
		escription: Code identifying the type of information in the Security Information I valid standard codes are used.								
ISA04	104	Security Information	М	AN	10/10	Must use				
		escription: This is used for identifying the security information about the interchange inder or the data in the interchange; the type of information is set by the Security ormation Qualifier (I03)								
ISA05	105	Interchange ID Qualifier	М	ID	2/2	Must use				
		Description: Code indicating the system/meth sender or receiver ID element being qualified All valid standard codes are used.	.							
ISA06	106	Interchange Sender ID	М	AN	15/15	Must use				
		Description: Identification code published by treceiver ID to route data to them; the sender a								
ISA07	105	Interchange ID Qualifier	М	ID	2/2	Must use				
		Description: Code indicating the system/meth sender or receiver ID element being qualified All valid standard codes are used.	od of c	ode struc	ture used to de	esignate the				
ISA08	107	Interchange Receiver ID	М	AN	15/15	Must use				
		Description: Identification code published by the used by the sender as their sending ID, thus or receiving ID to route data to them								
ISA09	108	Interchange Date	М	DT	6/6	Must use				
		Description: Date of the interchange								
ISA10	109	Interchange Time	M	TM	4/4	Must use				

Ref	<u>ld</u>	Element Name Description: Time of the interchange	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
ISA11	165	Repetition Separator	М		1/1	Must use			
		Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator							
ISA12	l11	Interchange Control Version Number	М	ID	5/5	Must use			
		Description: Code specifying the version num All valid standard codes are used.	ber of t	he intercl	nange control s	segments			
ISA13	l12	Interchange Control Number	М	N0	9/9	Must use			
		Description: A control number assigned by th	e intercl	hange se	nder				
ISA14	l13	Acknowledgment Requested	М	ID	1/1	Must use			
		Description: Code indicating sender's request All valid standard codes are used.	t for an i	interchar	ige acknowledo	gment			
ISA15	l14	Usage Indicator	М	ID	1/1	Must use			
		Description: Code indicating whether data en production or information All valid standard codes are used.	closed b	oy this int	erchange enve	elope is test,			
ISA16	l15	Component Element Separator	M		1/1	Must use			

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): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
GS01	479	Functional Identifier Code	М	ID	2/2	Must use				
		Description: Code identifying a group of appli	Description: Code identifying a group of application related transaction sets							
		Code Name								
		IN Invoice Information (810)								
GS02	142	Application Sender's Code	М	AN	2/15	Must use				
		Description: Code identifying party sending trapartners	ansmiss	sion; code	es agreed to by	y trading				
GS03	124	Application Receiver's Code	М	AN	2/15	Must use				
		Description: Code identifying party receiving t partners	transmis	ssion; cod	des agreed to b	by trading				
GS04	373	Date	М	DT	8/8	Must use				
		Description: Date expressed as CCYYMMDD)							
GS05	337	Time	М	TM	4/8	Must use				
		Description: Time expressed in 24-hour clock HHMMSSD, or HHMMSSDD, where H = hours seconds (00-59) and DD = decimal seconds; d tenths (0-9) and DD = hundredths (00-99)	(00-23), M = mi	nutes (00-59),	S = integer				
GS06	28	Group Control Number	М	N0	1/9	Must use				
		Description: Assigned number originated and	mainta	ined by th	ne sender					
GS07	455	Responsible Agency Code	М	ID	1/2	Must use				
		Description: Code identifying the issuer of the Data Element 480 All valid standard codes are used.	standa	rd; this c	ode is used in	conjunction with				
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use				
		Description: Code indicating the version, release	ase, sub	orelease,	and industry id	dentifier of the				

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

Code Name

004020VICS

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: 0100 Max: 1 Heading - Mandatory Loop: N/A Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use				
		Description: Code uniquely identifying a Transaction Set								
		Code Name 810 Invoice								
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use				
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set								
ST03	1705	Implementation Convention Reference	0	AN	1/35	Used				
		Description: Reference assigned to identify Implementation Convention								

Semantics:

- 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).
- 2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

BIG Beginning Segment for Invoice

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 7

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
BIG01	373	Date	М	DT	8/8	Must use
		Description: Date expressed as CCYYMMDI)			
BIG02	76	Invoice Number	М	AN	1/22	Must use
		Description: Identifying number assigned by	issuer			
BIG03	373	Date	0	DT	8/8	Used
		Description: Date expressed as CCYYMMDI)			
BIG04	324	Purchase Order Number	0	AN	1/22	Used
		Description: Identifying number for Purchase	Order a	ssigned	by the orderer	/purchaser
BIG05	328	Release Number	0	AN	1/30	Used
		Description: Number identifying a release ag parties involved in the transaction	ainst a F	Purchase	Order previou	isly placed by the
BIG06	327	Change Order Sequence Number	0	AN	1/8	Used
		Description: Number assigned by the ordere previously transmitted transaction set	r identify	ring a spe	ecific change c	or revision to a
BIG07	640	Transaction Type Code	0	ID	2/2	Used
		Description: Code specifying the type of tran	saction			
		Code Name BB Billback BH Bill and Hold Goods CA Cash CI Consolidated Invoice FI First Cost Invoice ME Memorandum PB Partial Bill				

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.

REF Reference Identification

Pos: 0500 Max: 12 **Heading - Optional** Loop: N/A Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use			
		Description: Code qualifying the Reference Identification							
		Code Name IA Internal Vendor Number							
REF02	127	Reference Identification	Χ	AN	1/30	Used			
		Description: Reference information as define	d for a p	articular	Transaction S	et or as specified			

by the Reference Identification Qualifier

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.

Loop N1

Pos: 0700 Repeat: 200

Optional

Loop: N1 Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
0700	N1	Name	0	1		Used
0800	N2	Additional Name Information	0	2		Used
0900	N3	Address Information	0	2		Used
1000	N4	Geographic Location	0	1		Used

N1 Name

Pos: 0700 Max: 1
Heading - Optional
Loop: N1 Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> N101	<u>ld</u> 98	Element Name Entity Identifier Code	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Must use
		Description: Code identifying an organization individual	al entity	, a physic	cal location, pro	operty or an
		CodeNameBTBill-to-PartyRIRemit ToSTShip To				
N102	93	Name	Х	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	Χ	ID	1/2	Used
		Description: Code designating the system/me Code (67)	ethod of	code stru	ucture used for	Identification
		<u>Code</u> Name92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	Х	AN	2/80	Used
		Description: Code identifying a party or other		•	_,	2004
		Description. Code identifying a party of 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:

- This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 0800 Max: 2 Heading - Optional Loop: N1 Elements: 2

User Option (Usage): Used

To specify additional names

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	0	AN	1/60	Used
		Description: Free-form name				

N3 Address Information

Pos: 0900 Max: 2 Heading - Optional Loop: N1 Elements: 2

User Option (Usage): Used

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 1000 Max: 1 Heading - Optional Loop: N1 Elements: 3

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	Χ	ID	2/2	Used
		Description: Code (Standard State/Province)	as defir	ned by ap	propriate gove	rnment agency
N403	116	Postal Code	0	ID	3/15	Used
		Description: Code defining international post (zip code for United States)	al zone	code exc	luding punctuat	tion and blanks

Syntax Rules:

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.
- 3. C0704 If N407 is present, then N404 is required.

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300 Max: >1 Heading - Optional Loop: N/A Elements: 7

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
ITD01	336	Terms Type Code	0	ID	2/2	Not used		
		Description: Code identifying type of paymen All valid standard codes are used.	t terms					
ITD02	333	Terms Basis Date Code	0	ID	1/2	Not used		
	Description: Code identifying the beginning of the terms period All valid standard codes are used.							
ITD03	338	Terms Discount Percent	0	R	1/6	Used		
		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						
ITD04	370	Terms Discount Due Date	Χ	DT	8/8	Used		
		Description: Date payment is due if discount CCYYMMDD	is to be	earned e	xpressed in for	rmat		
ITD05	351	Terms Discount Days Due	Χ	N0	1/3	Used		
		Description: Number of days in the terms disc discount is earned	count pe	eriod by v	vhich payment	is due if terms		
ITD06	446	Terms Net Due Date	0	DT	8/8	Used		
		Description: Date when total invoice amount	become	s due ex	pressed in forn	nat CCYYMMDD		
ITD12	352	Description	0	AN	1/80	Used		
		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.

DTM Date/Time Reference

Pos: 1400 Max: 10 Heading - Optional Loop: N/A Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>		
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must use		
		Description: Code specifying type of date or time, or both date and time						
		Code Name						
		011 Shipped						
DTM02	373	Date	Χ	DT	8/8	Used		
		Description: Data assuranced as CCVVMMDD						

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.

Loop IT1

Pos: 0100 Repeat: 200000 Optional

Elements: N/A

Loop: IT1

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0100	IT1	Baseline Item Data (Invoice)	0	1		Used
0500	CTP	Pricing Information	0	25		Used
0600		Loop PID	0		1000	Used
1000	PO4	Item Physical Details	0	1		Used
1200	REF	Reference Identification	0	>1		Used
1800		Loop SAC	0		>1	Used

IT1 Baseline Item Data (Invoice)

Pos: 0100 Max: 1 Detail - Optional Loop: IT1 Elements: 6

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
IT102	358	Quantity Invoiced	Χ	R	1/10	Used			
		Description: Number of units invoiced (suppl	lier units)					
IT103	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used			
		Description: Code specifying the units in whi which a measurement has been taken All valid standard codes are used.	ich a valı	ue is bein	g expressed, o	or manner in			
IT104	212	Unit Price	Х	R	1/17	Used			
	Description: Price per unit of product, service, commodity, etc.								
IT105	639	Basis of Unit Price Code	0	ID	2/2	Used			
		Description: Code identifying the type of unit All valid standard codes are used.	price fo	r an item					
IT106	235	Product/Service ID Qualifier	X	ID	2/2	Used			
		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)						
IT107	234	Product/Service ID	Х	AN	1/48	Used			
		Description: Identifying number for a product	t or servi	ce					

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 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.

CTP Pricing Information

Pos: 0500 Max: 25

Detail - Optional

Loop: IT1 Elements: 3

User Option (Usage): Used

To specify pricing information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>		
CTP01	687	Class of Trade Code	0	ID	2/2	Used		
		Description: Code indicating class of trade All valid standard codes are used.						
CTP02	236	Price Identifier Code	Х	ID	3/3	Used		
		Description: Code identifying pricing specification						
		Code Name						
		MSR Manufacturer's Suggested Retail						
CTP03	212	Unit Price	Х	R	1/17	Used		
Description: Price per unit of product, service, commodity, etc.								

Syntax Rules:

- 1. P0405 If either CTP04 or CTP05 is present, then the other is required.
- 2. C0607 If CTP06 is present, then CTP07 is required.
- 3. C0902 If CTP09 is present, then CTP02 is required.
- 4. C1002 If CTP10 is present, then CTP02 is required.
- 5. C1103 If CTP11 is present, then CTP03 is required.

Semantics:

- 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.
- 2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Loop PID

Pos: 0600 Repeat: 1000

Optional

Loop: PID Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	0	1		Used

PID Product/Item Description

Pos: 0600 Max: 1

Detail - Optional

Loop: PID Elements: 2

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
PID01	349	Item Description Type	М	ID	1/1	Must use		
		Description: Code indicating the format of a description						
		Code Name Free-form						
PID05	352	Description	Χ	AN	1/80	Used		
		Description: A free-form description to clarify	the rela	ted data	elements and t	heir 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.

PO4 Item Physical Details

Pos: 1000 Max: 1 Detail - Optional Loop: IT1 Elements: 1

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
PO401	356	Pack	0	N0	1/6	Used

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

Syntax Rules:

- 1. P0203 If either PO402 or PO403 is present, then the other is required.
- 2. C0506 If PO405 is present, then PO406 is required.
- 3. P0607 If either PO406 or PO407 is present, then the other is required.
- 4. P0809 If either PO408 or PO409 is present, then the other is required.
- 5. C1013 If PO410 is present, then PO413 is required.
- 6. C1113 If PO411 is present, then PO413 is required.
- 7. C1213 If PO412 is present, then PO413 is required.
- 8. L13101112 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
- 9. C1716 If PO417 is present, then PO416 is required.
- 10. C1804 If PO418 is present, then PO404 is required.

Semantics:

- 1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3. PO417 is the ending package identifier in a range of identifiers.
- 4. PO418 is the number of packages in this layer.

Comments:

- PO403 The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2. PO413 defines the unit of measure for PO410, PO411, and PO412.

REF Reference Identification

Pos: 1200 Max: >1
Detail - Optional
Loop: IT1 Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use
		Description: Code qualifying the Reference I	dentifica	ition		
		Code Name				
		DP Department Number				
		PK Packing List Number				
REF02	127	Reference Identification	Χ	AN	1/30	Used
		Description: Reference information as define	d for a p	articular	Transaction S	et or as specified

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

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.

Loop SAC

Pos: 1800 Repeat: >1

Optional

Loop: SAC Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
1800	SAC	Service, Promotion, Allowance, or Charge Information	0	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800 Max: 1 Detail - Optional Loop: SAC Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref SAC01	<u>ld</u> 248	Element Name Allowance or Charge Indicator	Req M	Type ID	Min/Max 1/1	<u>Usage</u> Must use
		Description: Code which indicates an allowan	ice or ch	narge for	the service sp	ecified
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
		Description: Code identifying the service, pro-	motion,	allowand	e, or charge	
SAC05	610	Amount	0	N2	1/15	Used
		Description: Monetary amount				
SAC12	331	Allowance or Charge Method of Handling Code	0	ID	2/2	Used
		Description: Code indicating method of handl All valid standard codes are used.	ing for a	an allowa	nce or charge	

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.
- 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 with SAC03 to further define SAC02.
- 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.

TDS Total Monetary Value Summary

Pos: 0100 Max: 1 Summary - Mandatory Loop: N/A Elements: 4

User Option (Usage): Must use

To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
TDS01	610	Amount	М	N2	1/15	Must use
		Description: Monetary amount				
TDS02	610	Amount	0	N2	1/15	Used
		Description: Monetary amount				
TDS03	610	Amount	0	N2	1/15	Used
		Description: Monetary amount				
TDS04	610	Amount	0	N2	1/15	Used
		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.

Loop SAC

Pos: 0400 Repeat: >1

Optional
Loop: SAC Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	Ο	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400 Max: 1 Summary - Optional Loop: SAC Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref SAC01	<u>ld</u> 248	Element Name Allowance or Charge Indicator	Req M	Type ID	Min/Max 1/1	<u>Usage</u> Must use
		Description: Code which indicates an allowan	ice or ch	narge for	the service sp	ecified
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
		Description: Code identifying the service, pro-	motion,	allowand	e, or charge	
SAC05	610	Amount	0	N2	1/15	Used
		Description: Monetary amount				
SAC12	331	Allowance or Charge Method of Handling Code	0	ID	2/2	Used
		Description: Code indicating method of handl All valid standard codes are used.	ing for a	an allowa	nce or charge	

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.
- 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 with SAC03 to further define SAC02.
- 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.

CTT Transaction Totals

Pos: 0700 Max: 1 Summary - Optional Loop: N/A Elements: 7

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>					
CTT01	354	Number of Line Items	M	N0	1/6	Must use					
		Description: Total number of line items in the transaction set									
CTT02	347	Hash Total	0	R	1/10	Used					
		Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example:0018 First occurrence of value being hashed18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. Fourth occurrence of value being hashed1855 Hash Total									
CTT03	81	Weight	Χ	R	1/10	Used					
		Description: Numeric value of weight									
CTT04	355	Unit or Basis for Measurement Code	Χ	ID	2/2	Used					
		Description: Code specifying the units in which which a measurement has been taken All valid standard codes are used.	ch a valu	ue is bein	g expressed, o	or manner in					
CTT05	183	Volume	Х	R	1/8	Used					
		Description: Value of volumetric measure									
CTT06	355	Unit or Basis for Measurement Code	Χ	ID	2/2	Used					
		Description: Code specifying the units in which which a measurement has been taken All valid standard codes are used.	ch a valu	ue is bein	g expressed, o	or manner in					
CTT07	352	Description	0	AN	1/80	Used					
		Description: A free-form description to clarify the related data elements and their content									

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.

SE Transaction Set Trailer

Pos: 0800 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		Description: Total number of segments include segments	led in a	transacti	on set includin	g ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number that m functional group assigned by the originator for				ction set

Comments:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	М	N0	1/6	Must use
		Description: Total number of transaction set (transmission) group terminated by the trailer			• .	o or interchange
GE02	28	Group Control Number	М	N0	1/9	Must use
		Description: Assigned number originated an	d mainta	ined by tl	ne 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): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	М	N0	1/5	Must use
		Description: A count of the number of function	onal grou	ıps includ	led in an interd	hange
IEA02	l12	Interchange Control Number	М	N0	9/9	Must use
		Description: A control number assigned by the	he interc	hange se	ender	

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