810 Invoice

Functional Group ID=IN

Introduction:

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

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	0005	ISA	Interchange Control Header	O	1		
	0010	GS	Functional Group Header	O	1		
M	0100	ST	Transaction Set Header	M	1		
M	0200	BIG	Beginning Segment for Invoice	M	1		
	0210	REF	Reference Identification	O	1		
			LOOP ID - N1			200	
	0700	N1	Name	O	1		
	0710	N3	Address Information	O	1		
	0720	N4	Geographic Location	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	1400	DTM	Date/Time Reference	O	10		
	1500	FOB	F.O.B. Related Instructions	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
	0100	IT1	Baseline Item Data (Invoice)	O	1		
			LOOP ID - PID			1	
	0110	PID	Product/Item Description	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	TDS	Total Monetary Value Summary	M	1		
	0300	CAD	Carrier Detail	O	1		
			LOOP ID - SAC			>1	
	0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
			LOOP ID - ISS			>1	
	0600	ISS	Invoice Shipment Summary	O	1		

	0700	CTT	Transaction Totals	O	1		n1
M	0800	SE	Transaction Set Trailer	M	1		
	0810	GE	Functional Group Trailer	O	1		
	0820	IEA	Interchange Control Trailer	O	1		

Transaction Set Notes

1. 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.

				Data Element Summary			
	Ref. Des.	**Data Element**	**Name**		**Attributes**		

Segment: **ISA** Interchange Control Header
Position: 0005
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ISA01	I01	**Authorization Information Qualifier**	M 1 ID 2/2

Code identifying the type of information in the Authorization Information

Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA02	I02	**Authorization Information**	M 1 AN 10/10

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	ISA03	I03	**Security Information Qualifier**	M 1 ID 2/2

Code identifying the type of information in the Security Information

Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA04	I04	**Security Information**	M 1 AN 10/10

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	ISA05	I05	**Interchange ID Qualifier**	M 1 ID 2/2

Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified
Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA06	I06	**Interchange Sender ID**	M 1 AN 15/15

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	ISA07	I05	**Interchange ID Qualifier**	M 1 ID 2/2

Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified
Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA08	I07	**Interchange Receiver ID**	M 1 AN 15/15

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

M	ISA09	I08	**Interchange Date**	M 1 DT 6/6

Date of the interchange

M	ISA10	I09	**Interchange Time**	M 1 TM 4/4

Time of the interchange

M	ISA11	I65	**Repetition Separator**	M 1 AN 1/1

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

M	ISA12	I11	**Interchange Control Version Number**	M 1 ID 5/5

Code specifying the version number of the interchange control segments

Refer to 004010 Data Element Dictionary for acceptable code values.

| M | ISA13 | I12 | **Interchange Control Number** | M | 1 | N0 9/9 |

A control number assigned by the interchange sender

| M | ISA14 | I13 | **Acknowledgment Requested** | M | 1 | ID 1/1 |

Code indicating sender's request for an interchange acknowledgment

Refer to 004010 Data Element Dictionary for acceptable code values.

| M | ISA15 | I14 | **Usage Indicator** | M | 1 | ID 1/1 |

Code indicating whether data enclosed by this interchange envelope is test, production or information
Refer to 004010 Data Element Dictionary for acceptable code values.

| M | ISA16 | I15 | **Component Element Separator** | M | 1 | AN 1/1 |

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

	Segment:	**GS** Functional Group Header
	Position:	0010
	Loop:	
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	Purpose:	To indicate the beginning of a functional group and to provide control information
	Syntax Notes:	
	Semantic Notes:	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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	GS01	479	**Functional Identifier Code**	M 1 ID 2/2
			Code identifying a group of application related transaction sets	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	GS02	142	**Application Sender's Code**	M 1 AN 2/15
			Code identifying party sending transmission; codes agreed to by trading partners	
M	GS03	124	**Application Receiver's Code**	M 1 AN 2/15
			Code identifying party receiving transmission; codes agreed to by trading partners	
M	GS04	373	**Date**	M 1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
M	GS05	337	**Time**	M 1 TM 4/8
			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)	
M	GS06	28	**Group Control Number**	M 1 N0 1/9
			Assigned number originated and maintained by the sender	
M	GS07	455	**Responsible Agency Code**	M 1 ID 1/2
			Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	GS08	480	**Version / Release / Industry Identifier Code**	M 1 AN 1/12
			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	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment:	**ST** Transaction Set Header			
Position:	0100			
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).		
	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.		
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	ST01	143	**Transaction Set Identifier Code**	M	1	ID 3/3
			Code uniquely identifying a Transaction Set			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
M	ST02	329	**Transaction Set Control Number**	M	1	AN 4/9
			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**	O	1	AN 1/35
			Reference assigned to identify Implementation Convention			

	Segment:	**BIG** Beginning Segment for Invoice
	Position:	0200
	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:	**1** BIG01 is the invoice issue date.
		2 BIG03 is the date assigned by the purchaser to purchase order.
		3 BIG10 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.
	Comments:	**1** BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	BIG01	373	**Date**	M	1	DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
M	BIG02	76	**Invoice Number**	M	1	AN 1/22
			Identifying number assigned by issuer			
	BIG03	373	**Date**	O	1	DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
	BIG04	324	**Purchase Order Number**	O	1	AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser			

	Segment:	**REF** Reference Identification
	Position:	0210
	Loop:	
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	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** Code qualifying the Reference Identification	M	1	ID 2/3
			BM Bill of Lading Number PK Packing Slip Number IA Party City Internal Vendor Number			
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1	AN 1/50

	Segment:	**N1** Name
	Position:	0700
	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. Des.	Data Element	Name	Attributes		
M	N101	98	**Entity Identifier Code**	M	1	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
			ST Ship To			
			BT Bill To			
	N102	93	**Name**	X	1	AN 1/60
			Free-form name			
	N103	66	**Identification Code Qualifier**	X	1	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)			
			92 Party City Store Number			
			92 Bill to Location Number			
	N104	67	**Identification Code**	X	1	AN 2/80
			Code identifying a party or other code			

Segment: **N3** Address Information
Position: 0710
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	N301	166	**Address Information**	M	1	**AN 1/55**
			Address information			
	N302	166	**Address Information**	O	1	**AN 1/55**
			Address information			

Segment:	**N4** Geographic Location
Position:	0720
Loop:	N1 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 Only one of N402 or N407 may be present.
	2 If N406 is present, then N405 is required.
	3 If N407 is present, then N404 is required.
Semantic Notes:	
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.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
N401	19	**City Name**	O	1	**AN 2/30**
		Free-form text for city name			
N402	156	**State or Province Code**	X	1	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency			
N403	116	**Postal Code**	O	1	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)			
N404	26	**Country Code**	X	1	**ID 2/3**
		Code identifying the country			
N405	309	**Location Qualifier**	X	1	**ID 1/2**
		Code identifying type of location			
		Refer to 004010 Data Element Dictionary for acceptable code values.			
N406	310	**Location Identifier**	O	1	**AN 1/30**
		Code which identifies a specific location			
N407	1715	**Country Subdivision Code**	X	1	**ID 1/3**
		Code identifying the country subdivision			

		Segment:	**ITD** Terms of Sale/Deferred Terms of Sale

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 1300
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.
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:
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.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
	ITD01	336	**Terms Type Code**	O	1	**ID 2/2**
			Code identifying type of payment terms			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
	ITD02	333	**Terms Basis Date Code**	O	1	**ID 1/2**
			Code identifying the beginning of the terms period			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
	ITD03	338	**Terms Discount Percent**	O	1	**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**	X	1	**DT 8/8**
			Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year			
	ITD05	351	**Terms Discount Days Due**	X	1	**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	1	**DT 8/8**
			Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year			
	ITD07	386	**Terms Net Days**	O	1	**N0 1/3**
			Number of days until total invoice amount is due (discount not applicable)			
Not Used	ITD08	362	**Terms Discount Amount**	O	1	**N2 1/10**
			Total amount of terms discount			
Not Used	ITD09	388	**Terms Deferred Due Date**	O	1	**DT 8/8**
			Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year			
Not Used	ITD10	389	**Deferred Amount Due**	X	1	**N2 1/10**
			Deferred amount due for payment			
Not Used	ITD11	342	**Percent of Invoice Payable**	X	1	**R 1/5**
			Amount of invoice payable expressed in percent			
	ITD12	352	**Description**	O	1	**AN 1/80**
			A free-form description to clarify the related data elements and their content			
Not Used	ITD13	765	**Day of Month**	X	1	**N0 1/2**
			The numeric value of the day of the month between 1 and the maximum day of the month being referenced			
Not Used	ITD14	107	**Payment Method Code**	O	1	**ID 1/2**
			Code identifying type of payment procedures			
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Not Used   **ITD15**   **954**   **Percent**   **O**   **1 R 1/10**
Percentage expressed as a decimal

	Segment:	**DTM** Date/Time Reference
	Position:	1400
	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 DTM05 is required.
		2 If DTM04 is present, then DTM03 is required.
		3 If either DTM05 or DTM06 is present, then the other is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**1**	**ID 3/3**
			Code specifying type of date or time, or both date and time			
			011 Ship Date			
	DTM02	**373**	**Date**	**X**	**1**	**DT 8/8**
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			

Segment:	**FOB** F.O.B. Related Instructions			

Segment: **FOB** F.O.B. Related Instructions
Position: 1500
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes: 1 If FOB03 is present, then FOB02 is required.
2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB08 is present, then FOB09 is required.
Semantic Notes: 1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying the title passage location.
4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	FOB01	146	**Shipment Method of Payment**	M	1	ID 2/2

Code identifying payment terms for transportation charges

CC   Collect
PP   Prepaid

		Segment:	**IT1** Baseline Item Data (Invoice)

Segment: **IT1** Baseline Item Data (Invoice)
Position: 0100
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.
Semantic Notes:
    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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	IT101	350	**Assigned Identification**	O	1	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set			
	IT102	358	**Quantity Invoiced**	X	1	R 1/10
			Number of units invoiced (supplier units)			
	IT103	355	**Unit or Basis for Measurement Code**	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
	IT104	212	**Unit Price**	X	1	R 1/17
			Price per unit of product, service, commodity, etc.			
Not Used	IT105	639	**Basis of Unit Price Code**	O	1	ID 2/2
			Code identifying the type of unit price for an item			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
	IT106	235	**Product/Service ID Qualifier**	X	1	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			VP Vendor Part Number			
	IT107	234	**Product/Service ID**	X	1	AN 1/48
			Identifying number for a product or service			
	IT108	235	**Product/Service ID Qualifier**	X	1	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			UI UPC (11 digit)			
			UP UPC (12 digit)			
			EN UPC (13 digit)			
			UK UPC (14 digit)			
	IT109	234	**Product/Service ID**	X	1	AN 1/48
			Identifying number for a product or service			
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Segment:	**PID** Product/Item Description		
Position:	0110		
Loop:	PID Optional		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To describe a product or process in coded or free-form format		
Syntax Notes:	1	If PID04 is present, then PID03 is required.	
	2	At least one of PID04 or PID05 is required.	
	3	If PID07 is present, then PID03 is required.	
	4	If PID08 is present, then PID04 is required.	
	5	If PID09 is present, then PID05 is required.	
Semantic Notes:	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.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**PID01**	**349**	**Item Description Type**	M	1	ID 1/1
			Code indicating the format of a description			
			F			
Not Used	**PID02**	**750**	**Product/Process Characteristic Code**	O	1	ID 2/3
			Code identifying the general class of a product or process characteristic			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**PID03**	**559**	**Agency Qualifier Code**	X	1	ID 2/2
			Code identifying the agency assigning the code values			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**PID04**	**751**	**Product Description Code**	X	1	AN 1/12
			A code from an industry code list which provides specific data about a product characteristic			
	PID05	**352**	**Description**	X	1	AN 1/80
			A free-form description to clarify the related data elements and their content			

Segment:	**TDS** Total Monetary Value Summary					
Position:	0100					
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		
M	TDS01	610	Amount	M	1	N2 1/15
			Monetary amount			
	TDS02	610	Amount	O	1	N2 1/15
			Monetary amount			
	TDS03	610	Amount	O	1	N2 1/15
			Monetary amount			
	TDS04	610	Amount	O	1	N2 1/15
			Monetary amount			

		Segment:	**CAD** Carrier Detail
		Position:	0300
		Loop:	
		Level:	Summary
		Usage:	Optional
		Max Use:	1
		Purpose:	To specify transportation details for the transaction
		Syntax Notes:	**1** At least one of CAD05 or CAD04 is required.
			2 If CAD07 is present, then CAD08 is required.
		Semantic Notes:	
		Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
Not Used	**CAD01**	**91**	**Transportation Method/Type Code**	O	1	**ID 1/2**
			Code specifying the method or type of transportation for the shipment			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**CAD02**	**206**	**Equipment Initial**	O	1	**AN 1/4**
			Prefix or alphabetic part of an equipment unit's identifying number			
Not Used	**CAD03**	**207**	**Equipment Number**	O	1	**AN 1/10**
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)			
Not Used	**CAD04**	**140**	**Standard Carrier Alpha Code**	X	1	**ID 2/4**
			Standard Carrier Alpha Code			
	CAD05	**387**	**Routing**	X	1	**AN 1/35**
			Free form description of the carrier			

Segment:	**SAC** Service, Promotion, Allowance, or Charge Information				
Position:	0400				
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.
8. If SAC16 is present, then SAC15 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.
7. 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.
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	SAC01	248	**Allowance or Charge Indicator**	M	1	ID 1/1
			Code which indicates an allowance or charge for the service specified			
			A Allowance **See List for Allowable Codes**			
			C Charge			
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	1	ID 4/4
			Code identifying the service, promotion, allowance, or charge			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	SAC03	559	**Agency Qualifier Code**	X	1	ID 2/2
			Code identifying the agency assigning the code values			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	1	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge			
	SAC05	610	**Amount**	O	1	N2 1/15
			Monetary amount			
Not Used	SAC06	378	**Allowance/Charge Percent Qualifier**	X	1	ID 1/1

Code indicating on what basis allowance or charge percent is calculated

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**SAC07**	**332**	**Percent**	**X**	**1**	**R 1/6**

Percent expressed as a percent

Not Used	**SAC08**	**118**	**Rate**	**O**	**1**	**R 1/9**

Rate expressed in the standard monetary denomination for the currency specified

Not Used	**SAC09**	**355**	**Unit or Basis for Measurement Code**	**X**	**1**	**ID 2/2**

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

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**SAC10**	**380**	**Quantity**	**X**	**1**	**R 1/15**

Numeric value of quantity

Not Used	**SAC11**	**380**	**Quantity**	**O**	**1**	**R 1/15**

Numeric value of quantity

	SAC12	**331**	**Allowance or Charge Method of Handling Code**	**O**	**1**	**ID 2/2**

Code indicating method of handling for an allowance or charge

02   Off Invoice

Not Used	**SAC13**	**127**	**Reference Identification**	**X**	**1**	**AN 1/50**

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

Not Used	**SAC14**	**770**	**Option Number**	**O**	**1**	**AN 1/20**

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

Not Used	**SAC15**	**352**	**Description**	**X**	**1**	**AN 1/80**

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

Not Used	**SAC16**	**819**	**Language Code**	**O**	**1**	**ID 2/3**

Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

			Segment:	**ISS** Invoice Shipment Summary

Segment: **ISS** Invoice Shipment Summary
Position: 0600
Loop: ISS   Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To specify summary details of total items shipped in terms of quantity, weight, and volume
Syntax Notes:
  1   At least one of ISS01 ISS03 or ISS05 is required.
  2   If either ISS01 or ISS02 is present, then the other is required.
  3   If either ISS03 or ISS04 is present, then the other is required.
  4   If either ISS05 or ISS06 is present, then the other is required.
Semantic Notes:
  1   ISS07 is the quantity of third party pallets.
  2   ISS08 is the gross weight of third party pallets in pounds.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	ISS01	**382**	**Number of Units Shipped**	X	1	R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set			
	ISS02	**355**	**Unit or Basis for Measurement Code**	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**ISS03**	**81**	**Weight**	X	1	R 1/10
			Numeric value of weight			
Not Used	**ISS04**	**355**	**Unit or Basis for Measurement Code**	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**ISS05**	**183**	**Volume**	X	1	R 1/8
			Value of volumetric measure			
Not Used	**ISS06**	**355**	**Unit or Basis for Measurement Code**	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
Not Used	**ISS07**	**380**	**Quantity**	O	1	R 1/15
			Numeric value of quantity			
Not Used	**ISS08**	**81**	**Weight**	O	1	R 1/10
			Numeric value of weight			

	Segment:	**CTT** Transaction Totals

Segment: **CTT** Transaction Totals
Position: 0700
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.
2 If 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		
M	CTT01	354	**Number of Line Items**	M	1	N0 1/6
			Total number of line items in the transaction set			
	CTT02	347	**Hash Total**	O	1	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

	Ref. Des.	Data Element	Name	Attributes		
	CTT03	81	**Weight**	X	1	R 1/10
			Numeric value of weight			
	CTT04	355	**Unit or Basis for Measurement Code**	X	1	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes		
	CTT05	183	**Volume**	X	1	R 1/8
			Value of volumetric measure			
	CTT06	355	**Unit or Basis for Measurement Code**	X	1	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes		
	CTT07	352	**Description**	O	1	AN 1/80
			A free-form description to clarify the related data elements and their content			

Segment:	**SE** **Transaction Set Trailer**					
Position:	0800					
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		
M	SE01	96	**Number of Included Segments**	M	1	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments			
M	SE02	329	**Transaction Set Control Number**	M	1	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:		**GE** Functional Group Trailer				

Segment: **GE** Functional Group Trailer
Position: 0810
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: 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.

Data Element Summary

	Ref. Des.	Data Element	Name			Attributes
M	GE01	97	**Number of Transaction Sets Included**	M	1	N0 1/6
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element			
M	GE02	28	**Group Control Number**	M	1	N0 1/9
			Assigned number originated and maintained by the sender			

Segment:	**IEA** Interchange Control Trailer			

Segment: **IEA** Interchange Control Trailer
Position: 0820
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	IEA01	I16	**Number of Included Functional Groups**	M	1	N0 1/5
			A count of the number of functional groups included in an interchange			
M	IEA02	I12	**Interchange Control Number**	M	1	N0 9/9
			A control number assigned by the interchange sender			

Invoice Sample

ISA*00*   *00*   *01*008325230   *ZZ*SupplierID
*20030503*1157*U*00400*000000218*0*T*> ~
GS*IN*008325230*SupplierID*20030503*1157*28*X*004010~
ST*810*4021~
BIG*20071002*092974**0001-000694902~
REF*BM*063281~
REF*IA*ABC1~
N1*ST*PARTY AMERICA - PARKER*92*3205~
N3*SHIP TO CODE: 3205*5448 SOUTH PARKER ROAD~
N4*AURORA*CO*80015~
N1*BT*PARTY AMERICA CORPORATION*92*0001~
N3*25 GREEN POND ROAD, SUITE #1~
N4*ROCKAWAY*NJ*07866~
ITD*14*3*****60*****NET 60~
DTM*011*20071002~
FOB*PP~
IT1*1*120*EA*.1425**VP*TC03*UP*804599201080~
PID*F****STAR TWINKLE POP~
IT1*2*120*EA*.1425**VP*TC04*UP*804599201134~
PID*F****2 TNE STAR TWINKLE POP~
IT1*3*120*EA*.1425**VP*TC29*UP*804599201240~
PID*F****TEDDY TWINKLE POP~
IT1*4*12*EA*2.02**VP*TB01*UP*804599202407~
PID*F****STAR BOUQUET~
TDS**7554**~
CAD*M****UPS~
SAC*C*D240***959*******06~
CTT*4~
SE*27*4021~
GE*1*28~
IEA*1*000000218~