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810**Invoice****Functional Group=IN**

This X12 Transaction Set 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.

Notes:

Revision History –

- 3/6/08 – Effective 5/1/08
 - Adding new qualifiers to SAC02 (G860 and C320)
 - For Direct Store Delivery orders, Suppliers will not be invoicing by store instead of by PO
- 12/04/2007 – Added more qualifiers to ITD 01
- 6/18/07 – Changed PID02 from optional to Mandatory
- 2/15/07 – Effective 3/12/07 – Added more qualifiers to Summary level SAC
- 12/5/06 – Added qualifiers for Canadian taxes to summary level SAC

Not Defined:

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<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
0400	CUR	Currency	O	1			Used
0500	REF	Reference Information	M	1			Must use

LOOP ID - N1**1**

0700	N1	Party Identification	M	1			Must use
0800	N2	Additional Name Information	O	1			Used
0900	N3	Party Location	O	1			Used
1000	N4	Geographic Location	O	1			Used

LOOP ID - N1**1**

0700	N1	Party Identification	M	1			Must use
0900	N3	Party Location	M	1			Must use
1000	N4	Geographic Location	M	1			Must use
1300	ITD	Terms of Sale/Deferred Terms of Sale	M	1			Must use
1400	DTM	Date/Time Reference	M	1			Must use
1500	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					200000		
0100	IT1	Baseline Item Data (Invoice)	M	1			Must use

<u>LOOP ID - PID</u>					<u>1</u>
0600	PID	Product/Item Description	M	1	Must use

<u>LOOP ID - PID</u>					<u>2</u>
0600	PID	Product/Item Description	M	1	Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	TDS	Total Monetary Value Summary	M	1			Must use
0300	CAD	Carrier Details	O	1			Used

<u>LOOP ID - SAC</u>					<u>9</u>		
0400	SAC	Service, Promotion, Allowance, or Charge Information	M	1			Must use

<u>LOOP ID - SAC</u>					<u>3</u>		
0400	SAC	Service, Promotion, Allowance, or Charge Information	M	1			Must use
0700	CTT	Transaction Totals	M	1		N3/0700	Must use
0800	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

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.

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
Description: Code identifying the type of information in the Authorization Information						
		<u>Code</u>	<u>Name</u>			
		00	No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	Authorization Information	M	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	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code identifying the type of information in the Security Information						
		<u>Code</u>	<u>Name</u>			
		00	No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them						
ISA09	I08	Interchange Date	M	DT	6/6	Must use
Description: Date of the interchange						
ISA10	I09	Interchange Time	M	TM	4/4	Must use
Description: Time of the interchange						

ISA11	I65	Repetition Separator	M		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	I11	Interchange Control Version Number	M	ID	5/5	Must use
Description: Code specifying the version number of the interchange control segments						
		<u>Code</u>	<u>Name</u>			
		00403	Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999			
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
Description: Code indicating sender's request for an interchange acknowledgment						
		<u>Code</u>	<u>Name</u>			
		0	No Interchange Acknowledgment Requested			
ISA15	I14	Interchange Usage Indicator	M	ID	1/1	Must use
Description: Code indicating whether data enclosed by this interchange envelope is test, production or information						
		<u>Code</u>	<u>Name</u>			
		P	Production Data			
ISA16	I15	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use
		Description: Code identifying a group of application related transaction sets				
		<u>Code</u>		<u>Name</u>		
		IN		Invoice Information (810)		
GS02	142	Application Sender's Code	M	AN	2/15	Must use
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
		Description: Code identifying party receiving transmission; codes agreed to by trading partners				
GS04	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
GS05	337	Time	M	TM	4/8	Must use
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
GS06	28	Group Control Number	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
		Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480				
		<u>Code</u>		<u>Name</u>		
		X		Accredited Standards Committee X12		
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
		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				
		<u>Code</u>		<u>Name</u>		
		005010		Standards Approved for Publication by ASC X12 Procedures Review Board through October 2003		

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: 2

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
		<u>Code</u>	<u>Name</u>			
		810	Invoice			
ST02	329	Transaction Set Control Number	M	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						

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. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BIG Beginning Segment for Invoice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BIG02	76	Invoice Number	M	AN	1/22	Must use
		Description: Identifying number assigned by issuer				
BIG03	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BIG04	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.

CUR Currency

Pos: 0400	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code</u>		<u>Name</u>		
		BY		Buying Party (Purchaser)		
CUR02	100	Currency Code	M	ID	3/3	Must use
		Description: Code (Standard ISO) for country in whose currency the charges are specified				

REF Reference Information

Pos: 0500	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
IA	Internal Vendor Number

REF02	127	Reference Identification	M	AN	1/50	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Loop N1

Pos: 0700	Repeat: 1
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0700	N1	Party Identification	M	1		Must use
0800	N2	Additional Name Information	O	1		Used
0900	N3	Party Location	O	1		Used
1000	N4	Geographic Location	O	1		Used

N1 Party Identification

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code</u>		<u>Name</u>		
		ST		Ship To		
N102	93	Name	O	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	M	ID	1/2	Must use
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		<u>Code</u>		<u>Name</u>		
		92		Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	M	AN	2/80	Must use
		Description: Code identifying a party or other code				

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.

N2 Additional Name Information

Pos: 0800	Max: 1
Heading - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

To specify additional names

Element Summary:

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

N3 Party Location

Pos: 0900	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

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

Comments:

1. N402 is required only if city name (N401) is in the U.S. or Canada.

Loop N1

Pos: 0700	Repeat: 1
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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0700	N1	Party Identification	M	1		Must use
0900	N3	Party Location	M	1		Must use
1000	N4	Geographic Location	M	1		Must use

N1 Party Identification

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		<u>Code</u>		<u>Name</u>		
		RI		Remit To		
N102	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		<u>Code</u>		<u>Name</u>		
		1		D-U-N-S Number, Dun & Bradstreet		
		9		D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		92		Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N3 Party Location

Pos: 0900	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

To specify the geographic place of the named party

Element Summary:

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

Comments:

1. 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 - Mandatory	
Loop: N/A	Elements: 6

User Option (Usage): Must use

To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code	M	ID	2/2	Must use
		Description: Code identifying type of payment terms				
		<u>Code</u>		<u>Name</u>		
		01		Basic		
		05		Discount Not Applicable		
		08		Basic Discount Offered		
		14		Previously agreed upon		
		41		Letter of Credit		
ITD02	333	Terms Basis Date Code	M	ID	1/2	Must use
		Description: Code identifying the beginning of the terms period				
		<u>Code</u>		<u>Name</u>		
		1		Ship Date		
		2		Delivery Date		
		3		Invoice Date		
ITD03	338	Terms Discount Percent	O	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				
ITD05	351	Terms Discount Days Due	X	N0	1/3	Used
		Description: Number of days in the terms discount period by which payment is due if terms discount is earned				
ITD07	386	Terms Net Days	O	N0	1/3	Used
		Description: Number of days until total invoice amount is due (discount not applicable)				
ITD12	352	Description	M	AN	1/80	Must use
		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.

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: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

<u>Code</u>	<u>Name</u>
011	Shipped

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

FOB F.O.B. Related Instructions

Pos: 1500	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use

Description: Code identifying payment terms for transportation charges

<u>Code</u>	<u>Name</u>
CC	Collect
CF	Collect, Freight Credited Back to Customer
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)

Semantics:

1. FOB01 indicates which party will pay the carrier.

Loop IT1

Pos: 0100	Repeat: 200000
Mandatory	
Loop: IT1	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	IT1	Baseline Item Data (Invoice)	M	1		Must use
0600		Loop PID	M		1	Must use
0600		Loop PID	O		2	Used

IT1

Baseline Item Data (Invoice)

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 13

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT102	358	Quantity Invoiced	M	R	1/15	Must use
		Description: Number of units invoiced (supplier units)				
IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u>		<u>Name</u>		
		EA		Each		
IT104	212	Unit Price	M	R	1/17	Must use
		Description: Price per unit of product, service, commodity, etc.				
IT106	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u>		<u>Name</u>		
		IN		Buyer's Item Number		
IT107	234	Product/Service ID	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
IT108	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)				
		<u>Code</u>		<u>Name</u>		
		EN		EAN/UCC - 13		
		UK		GTIN 14-digit Data Structure		
		UP		UCC - 12		
		VA		Vendor's Style Number		
IT109	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
IT110	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)				
		<u>Code</u>		<u>Name</u>		
		EN		EAN/UCC - 13		
		UK		GTIN 14-digit Data Structure		
		UP		UCC - 12		

		VA	Vendor's Style Number				
IT111	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
IT112	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)					
		<u>Code</u>	<u>Name</u>				
		EN	EAN/UCC - 13				
		UK	GTIN 14-digit Data Structure				
		UP	UCC - 12				
		VA	Vendor's Style Number				
IT113	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					
IT114	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)					
		<u>Code</u>	<u>Name</u>				
		EN	EAN/UCC - 13				
		UK	GTIN 14-digit Data Structure				
		UP	UCC - 12				
		VA	Vendor's Style Number				
IT115	234	Product/Service ID		X	AN	1/48	Used
		Description: Identifying number for a product or service					

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.

Loop PID

Pos: 0600	Repeat: 1
Mandatory	
Loop: PID	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description				
		<u>Code</u>		<u>Name</u>		
		F		Free-form		
PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
		Description: Code identifying the general class of a product or process characteristic				
		<u>Code</u>		<u>Name</u>		
		08		Product		
PID05	352	Description	M	AN	1/80	Must use
		Description: A free-form description to clarify the related data elements and their content				

Loop PID

Pos: 0600	Repeat: 2
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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description				
		<u>Code</u>		<u>Name</u>		
		F		Free-form		
PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
		Description: Code identifying the general class of a product or process characteristic				
		<u>Code</u>		<u>Name</u>		
		74		Vendor size description		
		75		Buyer's Color Description		
PID05	352	Description	M	AN	1/80	Must use
		Description: A free-form description to clarify the related data elements and their content				

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS04	610	Amount Description: Monetary amount	O	N2	1/15	Used

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.

CAD Carrier Details

Pos: 0300	Max: 1
Summary - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

To specify transportation details for the transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	Transportation Method/Type Code	M	ID	1/2	Must use
Description: Code specifying the method or type of transportation for the shipment						
		<u>Code</u>	<u>Name</u>			
		C	Consolidation			
		M	Motor (Common Carrier)			
		U	Private Parcel Service			
CAD04	140	Standard Carrier Alpha Code	X	ID	2/4	Used
Description: Standard Carrier Alpha Code						
CAD05	387	Routing	X	AN	1/35	Used
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity						
CAD07	128	Reference Identification Qualifier	M	ID	2/3	Must use
Description: Code qualifying the Reference Identification						
		<u>Code</u>	<u>Name</u>			
		BM	Bill of Lading Number			
CAD08	127	Reference Identification	M	AN	1/50	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

Loop SAC

Pos: 0400	Repeat: 11
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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	M	1		Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400 Max: 1
 Summary - Mandatory
 Loop: SAC Elements: 5

User Option (Usage): Must use

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
Description: Code which indicates an allowance or charge for the service specified						
		<u>Code</u>	<u>Name</u>			
		A	Allowance			
SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	Must use
Description: Code identifying the service, promotion, allowance, or charge						
		<u>Code</u>	<u>Name</u>			
		A260	Advertising Allowance			
		B720	Cooperative Advertising/Merchandising Allowance (Performance)			
		C000	Defective Allowance			
		C300	Discount - Special			
		User Note 1:				
		<i>Used for Seasonal Discounts</i>				
		C310	Discount			
		C320	Display Allowance			
		User Note 1:				
		<i>Vendor Buy</i>				
		D240	Freight			
		G860	Shrink Allowance			
		H000	Special Allowance			
		I530	Volume Discount			
		I570	Warehouse			
SAC05	610	Amount	M	N2	1/15	Must use
Description: Monetary amount						
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
Description: Code indicating method of handling for an allowance or charge						
		<u>Code</u>	<u>Name</u>			
		02	Off Invoice			
SAC15	352	Description	M	AN	1/80	Must use
Description: A free-form description to clarify the related data elements and their content						

Loop SAC

Pos: 0400	Repeat: 3
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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	M	1		Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400 Max: 1
 Summary - Mandatory
 Loop: SAC Elements: 5

User Option (Usage): Must use

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified				
		<u>Code</u>		<u>Name</u>		
		C		Charge		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	Must use
		Description: Code identifying the service, promotion, allowance, or charge				
		<u>Code</u>		<u>Name</u>		
		D240		Freight		
		D360		Goods and Services Tax Charge		
		H770		Tax - State Tax		
SAC05	610	Amount	M	N2	1/15	Must use
		Description: Monetary amount				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
		Description: Code indicating method of handling for an allowance or charge				
		<u>Code</u>		<u>Name</u>		
		02		Off Invoice		
SAC15	352	Description	M	AN	1/80	Must use
		Description: A free-form description to clarify the related data elements and their content				

CTT Transaction Totals

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<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

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

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

User Option (Usage): 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				