



EDI Guideline

X12/V4010/810 : 810 Invoice

Version: 2.2

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Document Change Log

Version	Date	Page	Description
2.2	05/02/2019	13	TXI09 Added
2.2	05/02/2019	21, 26, 28 & 32	Apply TXI09changes to Sample data

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810

Invoice

Functional Group=IN

Purpose: 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>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>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	M	1			Must use
050	REF	Reference Identification	M	12			Must use
060	PER	Administrative Communications Contact	O	3			Used

<u>LOOP ID - N1</u>					<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
070	N1	Name	M	1	<u>3</u>		Must use
090	N3	Address Information	M	2			Must use
100	N4	Geographic Location	M	1			Must use
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
140	DTM	Date/Time Reference	M	10			Must use

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>
<u>LOOP ID - IT1</u>					<u>200000</u>		
010	IT1	Baseline Item Data (Invoice)	M	1			Must use
040	TXI	Tax Information	C	10			Used
<u>LOOP ID - PID</u>					<u>1000</u>		
060	PID	Product/Item Description	M	1			Must use
<u>LOOP ID - SAC</u>					<u>25</u>		
180	SAC	Service, Promotion, Allowance, or Charge Information	C	1			Used
190	TXI	Tax Information	C	10			Used

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>
010	TDS	Total Monetary Value Summary	M	1			Must use
020	TXI	Tax Information	C	10			Used
<u>LOOP ID - SAC</u>					<u>25</u>		
040	SAC	Service, Promotion, Allowance, or Charge Information	C	1			Used
050	TXI	Tax Information	C	10			Used
070	CTT	Transaction Totals	M	1		N3/070	Must use
080	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:

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

ISA Interchange Control Header

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

User Option (Usage): Must use

Purpose: 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 to identify the type of information in the Authorization Information All valid standard codes are used. (Total Codes: 7)				
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 to identify the type of information in the Security Information All valid standard codes are used. (Total Codes: 2)				
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: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)				
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: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)				
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	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used. (Total Codes: 1)				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments				

CodeList Summary (Total Codes: 14, Included: 1)

<u>Code</u>	<u>Name</u>					
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997					
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 sent by the sender to request an interchange acknowledgment (TA1)				
		All valid standard codes are used. (Total Codes: 2)				
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		All valid standard codes are used. (Total Codes: 3)				
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

Purpose: 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						
CodeList Summary (Total Codes: 240, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		IN		Invoice Information (810,819)		
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						
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						
All valid standard codes are used. (Total Codes: 2)						
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						
CodeList Summary (Total Codes: 39, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		004010		Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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

CodeList Summary (Total Codes: 298, Included: 1)

<u>Code</u>	<u>Name</u>
810	Invoice

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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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) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

Purpose: 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				
BIG02	76	Invoice Number	M	AN	1/22	Must use
		Description: Identifying number assigned by issuer				
BIG03	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
BIG04	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
BIG07	640	Transaction Type Code	O	ID	2/2	Used
		Description: Code specifying the type of transaction				
		CodeList Summary (Total Codes: 446, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		CN		Credit Invoice		
		DI		Debit Invoice		

Semantics:

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

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

CUR Currency

Pos: 040	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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

CodeList Summary (Total Codes: 1312, Included: 1)

<u>Code</u>	<u>Name</u>
SE	Selling Party

CUR02	100	Currency Code	M	ID	3/3	Must use
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Description: Code (Standard ISO) for country in whose currency the charges are specified

REF Reference Identification

Pos: 050	Max: 12
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use
Purpose: 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

CodeList Summary (Total Codes: 1503, Included: 3)

<u>Code</u>	<u>Name</u>
BM	Bill of Lading Number
CO	Customer Order Number
PK	Packing List Number

REF02	127	Reference Identification	M	AN	1/30	Must use
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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.

PER Administrative Communications Contact

Pos: 060	Max: 3
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

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>
PER01	366	Contact Function Code	M	ID	2/2	Must use
Description: Code identifying the major duty or responsibility of the person or group named						
CodeList Summary (Total Codes: 230, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		BD		Buyer Name or Department		
PER02	93	Name	M	AN	1/60	Must use
Description: Free-form name						
PER03	365	Communication Number Qualifier	M	ID	2/2	Must use
Description: Code identifying the type of communication number						
CodeList Summary (Total Codes: 40, Included: 3)						
		<u>Code</u>		<u>Name</u>		
		EM		Electronic Mail		
		FX		Facsimile		
		TE		Telephone		
PER04	364	Communication Number	M	AN	1/80	Must use
Description: Complete communications number including country or area code when applicable						

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

Loop Name

Pos: 070	Repeat: 3
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: 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>
070	N1	Name	M	1		Must use
090	N3	Address Information	M	2		Must use
100	N4	Geographic Location	M	1		Must use

N1	Name	Pos: 070	Max: 1
		Heading - Mandatory	
		Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: 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						
CodeList Summary (Total Codes: 1312, Included: 3)						
		<u>Code</u>		<u>Name</u>		
		BT		Bill-to-Party		
		ST		Ship To		
		VN		Vendor		
N102	93	Name	X	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)						
CodeList Summary (Total Codes: 215, Included: 3)						
		<u>Code</u>		<u>Name</u>		
		91		Assigned by Seller or Seller's Agent		
		92		Assigned by Buyer or Buyer's Agent		
		ZZ		Mutually Defined		
N104	67	Identification Code	X	AN	2/80	Used
Description: Code identifying a party or 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:

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

Address Information

Pos: 090	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use

Purpose: 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	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4**Geographic Location**

Pos: 100	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use**Purpose:** 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	M	ID	2/3	Must use
		Description: Code identifying the country				

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 9

User Option (Usage): Used
Purpose: 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	O	ID	2/2	Used

Description: Code identifying type of payment terms

CodeList Summary (Total Codes: 65, Included: 3)

<u>Code</u>	<u>Name</u>
01	Basic
05	Discount Not Applicable
08	Basic Discount Offered

ITD02	333	Terms Basis Date Code	O	ID	1/2	Used
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Description: Code identifying the beginning of the terms period

CodeList Summary (Total Codes: 17, Included: 2)

<u>Code</u>	<u>Name</u>
3	Invoice Date
09	Purchase Order Date

ITD03	338	Terms Discount Percent	O	R	1/6	Used
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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	X	DT	8/8	Used
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Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD

ITD05	351	Terms Discount Days Due	X	N0	1/3	Used
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Description: Number of days in the terms discount period by which payment is due if terms discount is earned

ITD06	446	Terms Net Due Date	O	DT	8/8	Used
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Description: Date when total invoice amount becomes due expressed in format CCYYMMDD

ITD07	386	Terms Net Days	O	N0	1/3	Used
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Description: Number of days until total invoice amount is due (discount not applicable)

ITD08	362	Terms Discount Amount	O	N2	1/10	Used
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Description: Total amount of terms discount

ITD12	352	Description	O	AN	1/80	Used
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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.

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: 140	Max: 10
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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

CodeList Summary (Total Codes: 1112, Included: 2)

<u>Code</u>	<u>Name</u>
002	Delivery Requested
011	Shipped

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Loop Baseline Item Data (Invoice)

Pos: 010	Repeat: 200000
Mandatory	
Loop: IT1	Elements: N/A

User Option (Usage): Must use

Purpose: 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>
010	IT1	Baseline Item Data (Invoice)	M	1		Must use
040	TXI	Tax Information	C	10		Used
060		Loop PID	M		1000	Must use
180		Loop SAC	C		25	Used

IT1

Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 11

User Option (Usage): Must use

Purpose: 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>
IT101	350	Assigned Identification	O	AN	1/20	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1: ***This value must match the value sent on the 850 - purchase order*

IT102	358	Quantity Invoiced	M	R	1/10	Must use
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Description: Number of units invoiced (supplier units)

IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1: *Only standard X12 codes are accepted ex. CA = Case EA - Each*

CodeList Summary (Total Codes: 794, Included: 2)

<u>Code</u>	<u>Name</u>
CA	Case
EA	Each

IT104	212	Unit Price	M	R	1/17	Must use
-------	-----	------------	---	---	------	----------

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

IT105	639	Basis of Unit Price Code	O	ID	2/2	Used
-------	-----	--------------------------	---	----	-----	------

Description: Code identifying the type of unit price for an item

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)

CodeList Summary (Total Codes: 477, Included: 2)

<u>Code</u>	<u>Name</u>
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number

IT107	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

IT108	235	Product/Service ID Qualifier	O	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 477, Included: 1)

<u>Code</u>	<u>Name</u>
IN	Buyer's Item Number

IT109	234	Product/Service ID	X	AN	1/48	Used
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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)

CodeList Summary (Total Codes: 477, Included: 2)

<u>Code</u>	<u>Name</u>
LT	Lot Number
SN	Serial Number

IT111	234	Product/Service ID	X	AN	1/48	Used
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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.

Semantics:

1. IT101 is the purchase order line item identification.

TXI Tax Information

Pos: 040	Max: 10
Detail - Conditional	
Loop: IT1	Elements: 3

User Option (Usage): Used
Purpose: To specify tax 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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use

Description: Code specifying the type of tax

CodeList Summary (Total Codes: 74, Included: 2)

<u>Code</u>	<u>Name</u>
GS	Goods and Services Tax
PS	State or Provincial Tax on Services

TXI02	782	Monetary Amount	M	R	1/18	Must use
-------	-----	-----------------	---	---	------	----------

Description: Monetary amount

TXI09	325	Tax Identification Number	X	AN	1/20	Used
-------	-----	---------------------------	---	----	------	------

Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.

Loop Product/Item Description

Pos: 060	Repeat: 1000
Mandatory	
Loop: PID	Elements: N/A

User Option (Usage): Must use

Purpose: 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>
060	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 060	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 2

User Option (Usage): Must use

Purpose: 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

CodeList Summary (Total Codes: 3, Included: 1)

<u>Code</u>	<u>Name</u>
F	Free-form

PID05	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. R0405 - At least one of PID04 or PID05 is required.

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.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 180	Repeat: 25
Conditional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

Purpose: 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>
180	SAC	Service, Promotion, Allowance, or Charge Information	C	1		Used
190	TXI	Tax Information	C	10		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Conditional	
Loop: SAC	Elements: 5

User Option (Usage): Used

Purpose: 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	O	ID	1/1	Used
Description: Code which indicates an allowance or charge for the service specified						
CodeList Summary (Total Codes: 7, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		A		Allowance		
		C		Charge		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
Description: Code identifying the service, promotion, allowance, or charge						
SAC05	610	Amount	O	N2	1/15	Used
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						
SAC15	352	Description	X	AN	1/80	Used
Description: A free-form description to clarify the related data elements and their content						

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

TXI Tax Information

Pos: 190	Max: 10
Detail - Conditional	
Loop: SAC	Elements: 3

User Option (Usage): Used

Purpose: To specify tax 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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use

Description: Code specifying the type of tax

CodeList Summary (Total Codes: 74, Included: 2)

<u>Code</u>	<u>Name</u>
GS	Goods and Services Tax
PS	State or Provincial Tax on Services

TXI02	782	Monetary Amount	M	R	1/18	Must use
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Description: Monetary amount

TXI09	325	Tax Identification Number	O	AN	1/20	Used
-------	-----	---------------------------	---	----	------	------

Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: 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	M	N2	1/15	Must use

Description: Monetary amount

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

TXI Tax Information

Pos: 020	Max: 10
Summary - Conditional	
Loop: N/A	Elements: 3

User Option (Usage): Used

Purpose: To specify tax 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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use

Description: Code specifying the type of tax

CodeList Summary (Total Codes: 74, Included: 2)

<u>Code</u>	<u>Name</u>
GS	Goods and Services Tax
PS	State or Provincial Tax on Services

TXI02	782	Monetary Amount	M	R	1/18	Must use
-------	-----	-----------------	---	---	------	----------

Description: Monetary amount

TXI09	325	Tax Identification Number	M	AN	1/20	Used
-------	-----	---------------------------	---	----	------	------

Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 040	Repeat: 25
Conditional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

Purpose: 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>
040	SAC	Service, Promotion, Allowance, or Charge Information	C	1		Used
050	TXI	Tax Information	C	10		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Conditional	
Loop: SAC	Elements: 5

User Option (Usage): Used

Purpose: 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						
CodeList Summary (Total Codes: 7, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		A		Allowance		
		C		Charge		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
Description: Code identifying the service, promotion, allowance, or charge						
SAC05	610	Amount	O	N2	1/15	Used
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 All valid standard codes are used. (Total Codes: 22)						
SAC15	352	Description	X	AN	1/80	Used
Description: A free-form description to clarify the related data elements and their content						

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 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.

TXI Tax Information

Pos: 050	Max: 10
Summary - Conditional	
Loop: SAC	Elements: 3

User Option (Usage): Used
Purpose: To specify tax 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>
TXI01	963	Tax Type Code	M	ID	2/2	Must use

Description: Code specifying the type of tax

CodeList Summary (Total Codes: 74, Included: 2)

<u>Code</u>	<u>Name</u>
GS	Goods and Services Tax
PS	State or Provincial Tax on Services

TXI02	782	Monetary Amount	M	R	1/18	Must use
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Description: Monetary amount

TXI09	325	Tax Identification Number	M	AN	1/20	Used
-------	-----	---------------------------	---	----	------	------

Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number

Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.

CTT Transaction Totals

Pos: 070	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: 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: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

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:

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

Purpose: 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

Purpose: 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				

Sample 810:

ISA*00* *00* *ZZ*SUPPLIER *ZZ*HOSPITAL *150118*2149*U*00401*000009084*0*P*|~
 GS*IN*SUPPLIER*HOSPITAL*20150118*2149*9084*X*004010~
 ST*810*90840001~
 BIG*20150118*99999*20160108*1234567-D***DI~
 CUR*SE*CAD~
 REF*BM*36498213PC~
 PER*BD*ORDER DESK*TE*1-800-555-5555~
 N1*BT*HOSPITAL*91*123456~
 N3*123 1st Ave~
 N4*MONTREAL*QC*H2X 0A9*CA~
 N1*ST*HOSPITAL*91*123456~
 N3*123 MAIN STREET~
 N4*MONTREAL*QC*H2L 4M1*CA~
 N1*VN*SUPPLIER*91*99999~
 N3*1 SUPPLIER ROAD~
 N4*MONTREAL*QC*A1A 1A1*CA~
 ITD*01*3**20150318~
 DTM*011*20150118~
 IT1**22*EA*26.6**VC*ABC1234~
 TXI*GS*29.26*****123456789RT0001~
 TXI*PS*58.37*****987654321TQ0001~
 PID*F***DESCRIPTION~
 TDS*67283~
 TXI*GS*29.26*****123456789RT0001~
 TXI*PS*58.37*****987654321TQ0001~
 CTT*1~
 SE*25*90840001~
 GE*13*9084~
 IEA*1*000009084~