

810 Invoice

X12/V4010/810: 810 Invoice

Version: 2.0

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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		N1/010	Used
020	BIG	Beginning Segment for Invoice	M	1		N1/020	Used
030	NTE	Note/Special Instruction	O	100			Used
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	12		N1/050	Used
060	PER	Administrative Communications Contact	O	3		N1/060	Used

<u>LOOP ID - N1</u>			<u>20</u>	<u>N1/070L</u>			
070	N1	Name	M	1			Must use
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
110	REF	Reference Identification	O	12		N1/110	Used
120	PER	Administrative Communications Contact	O	3		N1/120	Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		N1/130	Used
140	DTM	Date/Time Reference	O	10		N1/140	Used
<u>LOOP ID - N9</u>			<u>1</u>				
240	N9	Reference Identification	M	1			Must use
250	MSG	Message Text	M	10			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>
<u>LOOP ID - IT1</u>			<u>200000</u>				
010	IT1	Baseline Item Data (Invoice)	M	1		N2/010	Must use
040	TXI	Tax Information	O	10		N2/040	Used
<u>LOOP ID - PID</u>			<u>1</u>	<u>N2/060L</u>			
060	PID	Product/Item Description	M	1			Must use
120	REF	Reference Identification	O	>1			Used
130	PER	Administrative Communications Contact	O	5			Used
150	DTM	Date/Time Reference	O	10		N2/150	Used
<u>LOOP ID - SAC</u>			<u>25</u>	<u>N2/180L</u>			
180	SAC	Service, Promotion, Allowance, or Charge Information	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>
010	TDS	Total Monetary Value Summary	M	1		C3/010	Used
020	TXI	Tax Information	O	10			Used
LOOP ID - SAC					25		
040	SAC	Service, Promotion, Allowance, or Charge Information	M	1			Must use
050	TXI	Tax Information	O	10			Used
070	CTT	Transaction Totals	O	1		N3/070	Used
080	SE	Transaction Set Trailer	M	1			Used

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:

- 1/010 ST^810^00004~
- 1/020 BIG^20000101^504123503^20000101^PO#123^PR~
- 1/050 REF^VN^101222999~
REF^OI^505999444~
REF^TJ^36-4095186~

- REF03 only available for REF01 qualifiers of type: DP
- 1/060 PER^CR^TE^877-254-2738~
- 1/070L N1^ST^GENERAL HOSPITAL^92^DOCKABC~
- 1/110 The REF segment is not supported for the following N101 qualifiers: DB, MA, MF, PR and WH.
- 1/120 PER segments are not supported for the following N101 qualifiers: DB, MA, MF, PR and WH.
- 1/130 ITD^01^3^30~
(30 day terms from date of invoice)
ITD^01^3^2^10^30~
(Same, except 2% discount given if paid in 10 days)
Multiple ITD's may be sent, if multiple terms are present
- 1/140 DTM^003^20001104~DTM^036^TQ^0202~ (for Credit Card purchases)
- 2/010 IT1^001^3^EA^4.326^VC^D1029^IN^A1222^UK^01897654544789~
- 2/040 TXI^LT^3.23~
Tax on previous line item. There may be multiple occurrences of the TXI segment depending on the variety of taxes that may be applied to an item.
- 2/060L PID^F^MS^Medical Product Description~
- 2/150 DTM^011^20000715~
- 2/180L SAC^C^D240^3412^06~

- SAC segment is used to itemize allowances, miscellaneous charges or services. Multiple SAC's may be generated depending on the type of allowance, charge, or service.
- 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.

Comments:

- 3/010 TDS^100328~
Total amount of invoice, includes TXI and SAC charges, less allowances. If additional elements, 2-4 are used, the type of amounts sent will be determined between individual trading partners.

GHX Standard Guideline:

GHX Recommends the usage of the following information.

Delimiters:

*Record Delimiter: ~
Field Delimiter: ^
Sub Element Delimiter |*

Identifying the Partners:

*Supplier to GHX:
ISA05: 01 (DUNS Number)
ISA06: Supplier DUNS Number
ISA07: 01 (DUNS Number)
ISA08: 124879334 (GHX DUNS Number)
GS02: Supplier DUNS Number
GS03: Provider DUNS Number*

*GHX to Provider:
ISA05: 01 (DUNS Number)
ISA06: 124879334 (GHX DUNS Number)
ISA07: 01 (DUNS Number)
ISA08: ProviderDUNS Number
GS02: Supplier DUNS Number
GS03: Provider DUNS Number*

N1ST04 : HINS / GLN Number to identify the provider ShipTo Account Number.

*OrderNumbers:
BuyerPONumber / ReleaseNumber in BIG04/BIG05
GHXOrderNumber in REF02 with REF01="OQ"
InvoiceNumber in BIG02*

*Part Numbers:
VC - Required to identify the vendor catalog number.
IN - to identify the buyers internal part number.*

*UOM:
ANSI X12 supported values.*

*Price:
Price that would be invoiced should be sent back in IT104*

All the "GHXcellence" marked Fields should be supported.

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 identifying the type of information in the Authorization Information

CodeList Summary (Total Codes: 7, Included: 1)

<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
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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

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

<u>Code</u>	<u>Name</u>
00	No Security Information Present (No Meaningful Information in I04)
01	Password

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

CodeList Summary (Total Codes: 41, Included: 6)

<u>Code</u>	<u>Name</u>
01	Duns (Dun & Bradstreet)
02	SCAC (Standard Carrier Alpha Code)
12	Phone (Telephone Companies)
14	Duns Plus Suffix
20	Health Industry Number (HIN)
ZZ	Mutually Defined

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
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Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

CodeList Summary (Total Codes: 41, Included: 6)

		<u>Code</u>	<u>Name</u>				
		01	Duns (Dun & Bradstreet)				
		02	SCAC (Standard Carrier Alpha Code)				
		12	Phone (Telephone Companies)				
		14	Duns Plus Suffix				
		20	Health Industry Number (HIN)				
		ZZ	Mutually Defined				
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							
CodeList Summary (Total Codes: 18, Included: 1)							
		<u>Code</u>	<u>Name</u>				
		00401	Standards 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 indicating sender's request for an interchange acknowledgment							
CodeList Summary (Total Codes: 2, Included: 2)							
		<u>Code</u>	<u>Name</u>				
		0	No Interchange Acknowledgment Requested				
		1	Interchange Acknowledgment Requested (TA1)				
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							
CodeList Summary (Total Codes: 3, Included: 2)							
		<u>Code</u>	<u>Name</u>				
		P	Production Data				
		T	Test 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

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 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						
CodeList Summary (Total Codes: 2, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		T		Transportation Data Coordinating Committee (TDCC)		
		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						
CodeList Summary (Total Codes: 49, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		004010		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): Used

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	Used
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	Used
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: 9

User Option (Usage): Used

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	Used
Description: Date expressed as CCYYMMDD GHX Standard Guideline: <i>Date of Invoice, Credit, Rebill or Correction.</i>						
BIG02	76	Invoice Number	M	AN	1/22	Used
Description: Identifying number assigned by issuer GHX Standard Guideline: <i>Actual number assigned to invoice, credit, etc. If credit memo or rebill, REF01 may be used for reference to original invoice number.</i>						
BIG03	373	Date	O	DT	8/8	Used
Description: Date expressed as CCYYMMDD GHX Standard Guideline: <i>Original date of Purchase Order.</i>						
BIG04	324	Purchase Order Number	O	AN	1/22	Used
Description: Identifying number for Purchase Order assigned by the orderer/purchaser						
BIG05	328	Release Number	O	AN	1/30	Used
Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction						
BIG07	640	Transaction Type Code	O	ID	2/2	Used
Description: Code specifying the type of transaction All valid standard codes are used. (Total Codes: 446)						
BIG08	353	Transaction Set Purpose Code	O	ID	2/2	Used
Description: Code identifying purpose of transaction set All valid standard codes are used. (Total Codes: 65)						
BIG09	306	Action Code	O	ID	1/2	Used
Description: Code indicating type of action All valid standard codes are used. (Total Codes: 296)						
BIG10	76	Invoice Number	O	AN	1/22	Used
Description: Identifying number assigned by issuer						

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

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

NTE Note/Special Instruction

Pos: 030	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

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>
NTE01	363	Note Reference Code	O	ID	3/3	Used

Description: Code identifying the functional area or purpose for which the note applies

CodeList Summary (Total Codes: 241, Included: 3)

<u>Code</u>	<u>Name</u>
GEN	Entire Transaction Set
INV	Invoice Instruction
DEL	Delivery

NTE02	352	Description	M	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
2. When NTE01 = 'DEL', NTE02 will be captured in CoreX and set to header level REF02, where REF01 = 'CO' for Customer Order Number.

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

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	Used
<p>Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used. (Total Codes: 1312)</p>						
CUR02	100	Currency Code	M	ID	3/3	Used
<p>Description: Code (Standard ISO) for country in whose currency the charges are specified</p>						
CUR03	280	Exchange Rate	O	R	4/10	Used
<p>Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another</p>						

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.
7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.
11. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
12. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
13. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
14. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

REF Reference Identification

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

User Option (Usage): Used
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	Used

Description: Code qualifying the Reference Identification
GHX Standard Guideline: GHX Mandatory to send back REF01 with 'OQ' for PO matching purposes
Exception exists when Invoice does not reference a PO

CodeList Summary (Total Codes: 1503, Included: 20)

<u>Code</u>	<u>Name</u>
19	Division Identifier
AP	Accounts Receivable Number
BY	Repair Category Number
CA	Cost Allocation Reference
CO	Customer Order Number
CR	Customer Reference Number
CT	Contract Number
DP	Department Number
GC	Government Contract Number
OI	Original Invoice Number
OP	Original Purchase Order
OQ	Order Number
	GHX Standard Guideline: <i>GHXcellence:</i>
PSM	Credit Card
	GHX Standard Guideline: <i>GHXcellence:</i>
RQ	Purchase Requisition Number
RY	Rebate Number
SI	Shipper's Identifying Number for Shipment (SID)
TJ	Federal Taxpayer's Identification Number
VN	Vendor Order Number
VR	Vendor ID Number
ZZ	Mutually Defined

REF02	127	Reference Identification	X	AN	1/30	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	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. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

GHX Standard Guideline:

GHXcellence:

To correctly match an Invoice to a PO in the GHX system, the GHX assigned PO Number should be in the REF02 data element with a qualifier of 'OQ' in the REF01 data element should be sent back in the 810 document.

*When REF01 = 'PSM', REF02 should contain Credit Card Type and REF03 the last 4 digits of the credit card #.
Valid IDs for REF02 Credit Card Type are 'AMEX', 'VISA', 'MC', 'DISC', and 'JCB'*

PER Administrative Communications Contact

Pos: 060	Max: 3
Heading - Optional	
Loop: N/A	Elements: 8

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	Used

Description: Code identifying the major duty or responsibility of the person or group named

CodeList Summary (Total Codes: 230, Included: 11)

<u>Code</u>	<u>Name</u>
AD	Accounting Department
AR	Accounts Receivable Department
BD	Buyer Name or Department
BI	Bill Inquiry Contact
CR	Customer Relations
IC	Information Contact
NT	Notification Contact
OC	Order Contact
OD	Order Department
SR	Sales Representative or Department
ZZ	Mutually Defined

PER02	93	Name	O	AN	1/60	Used
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Description: Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 4)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone
UR	Uniform Resource Locator (URL)

PER04	364	Communication Number	X	AN	1/80	Used
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Description: Complete communications number including country or area code when applicable

PER05	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 4)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone
UR	Uniform Resource Locator (URL)

PER06	364	Communication Number	X	AN	1/80	Used
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Description: Complete communications number including country or area code when applicable

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 4)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone
UR	Uniform Resource Locator (URL)

PER08	364	Communication Number	X	AN	1/80	Used
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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.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Loop Name

Pos: 070	Repeat: 20
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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
080	N2	Additional Name Information	O	2		Used
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used
110	REF	Reference Identification	O	12		Used
120	PER	Administrative Communications Contact	O	3		Used

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	Used

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1312, Included: 20)

<u>Code</u>	<u>Name</u>
BG	Buying Group
BT	Bill-to-Party
BY	Buying Party (Purchaser)
DA	Delivery Address
DB	Distributor Branch
MA	Party for whom Item is Ultimately Intended
MF	Manufacturer of Goods
PJ	Party to Receive Correspondence
PO	Party to Receive Invoice for Goods or Services
PR	Payer
RE	Party to receive commercial invoice remittance
RI	Remit To
SE	Selling Party
SF	Ship From
SN	Store
SO	Sold To If Different From Bill To
ST	Ship To
SU	Supplier/Manufacturer
VN	Vendor
WH	Warehouse

N102	93	Name	X	AN	1/60	Used
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Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 12)

<u>Code</u>	<u>Name</u>
1	D-U-N-S Number, Dun & Bradstreet
6	Plant Code
8	UCC/EAN Global Product Identification Prefix
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
11	Drug Enforcement Administration (DEA)
21	Health Industry Number (HIN)
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
94	Code assigned by the organization that is the ultimate destination of the transaction set
FI	Federal Taxpayer's Identification Number

UL UCC/EAN Location Code
ZZ Mutually Defined

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.
- 2. R0203 - At least one of N102 or N103 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.
- 2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 080	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

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	Used
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

N3 Address Information

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

User Option (Usage): Used

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	Used
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

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

User Option (Usage): Used

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 Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

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

REF Reference Identification

Pos: 110	Max: 12
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used
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	Used

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 4)

<u>Code</u>	<u>Name</u>
1W	Member Identification Number
AD	Acceptable Source DUNS Number
CR	Customer Reference Number
DP	Department Number

REF02	127	Reference Identification	X	AN	1/30	Used
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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.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

PER Administrative Communications Contact

Pos: 120	Max: 3
Heading - Optional	
Loop: N1	Elements: 8

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	Used

Description: Code identifying the major duty or responsibility of the person or group named

CodeList Summary (Total Codes: 230, Included: 10)

<u>Code</u>	<u>Name</u>
AD	Accounting Department
AR	Accounts Receivable Department
BD	Buyer Name or Department
BI	Bill Inquiry Contact
CR	Customer Relations
IC	Information Contact
NT	Notification Contact
OC	Order Contact
SR	Sales Representative or Department
ZZ	Mutually Defined

PER02	93	Name	O	AN	1/60	Used
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Description: Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 4)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone
UR	Uniform Resource Locator (URL)

PER04	364	Communication Number	X	AN	1/80	Used
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Description: Complete communications number including country or area code when applicable

PER05	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 40, Included: 4)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone
UR	Uniform Resource Locator (URL)

PER06	364	Communication Number	X	AN	1/80	Used
-------	-----	----------------------	---	----	------	------

Description: Complete communications number including country or area code when applicable

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
Description: Code identifying the type of communication number						
CodeList Summary (Total Codes: 40, Included: 4)						
		<u>Code</u>	<u>Name</u>			
		EM	Electronic Mail			
		FX	Facsimile			
		TE	Telephone			
		UR	Uniform Resource Locator (URL)			
PER08	364	Communication Number	X	AN	1/80	Used
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.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

ITD

**Terms of Sale/Deferred
Terms of Sale**

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 13

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
All valid standard codes are used. (Total Codes: 65)

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: 17)

<u>Code</u>	<u>Name</u>
1	Ship Date
2	Delivery Date
3	Invoice Date
4	Specified Date
5	Invoice Receipt Date
6	Anticipated Delivery Date
7	Effective Date
8	Invoice Transmission Date
09	Purchase Order Date
10	Invoice Verification Date
11	Completion And Acceptance Date
12	Approval of Sample Date
13	Approval of Gage Date
14	Quality Approval Date
15	Receipt of Goods
16	Quarter Start Date
ZZ	Mutually Defined

ITD03	338	Terms Discount Percent	X	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	X	N2	1/10	Used
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		Description: Total amount of terms discount				
ITD09	388	Terms Deferred Due Date	X	DT	8/8	Used
		Description: Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD				
ITD10	389	Deferred Amount Due	X	N2	1/10	Used
		Description: Deferred amount due for payment				
ITD11	342	Percent of Invoice Payable	X	R	1/5	Used
		Description: Amount of invoice payable expressed in percent				
ITD12	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content				
ITD13	765	Day of Month	X	N0	1/2	Used
		Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced				

Syntax Rules:

1. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.
2. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM Date/Time Reference

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

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	Used

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

CodeList Summary (Total Codes: 1112, Included: 5)

<u>Code</u>	<u>Name</u>
002	Delivery Requested
003	Invoice
004	Purchase Order
010	Requested Ship
011	Shipped

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	X	TM	4/8	Used
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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)

Syntax Rules:

1. C0403 - If DTM04 is present, then DTM03 is required.
2. P0506 - If either DTM05 or DTM06 is present, then the other is required.
3. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Loop Reference Identification

Pos: 240	Repeat: 1
Optional	
Loop: N9	Elements: N/A

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
240	N9	Reference Identification	M	1		Must use
250	MSG	Message Text	M	10		Used

GHX Standard Guideline:

Header Level Comments

N9

Reference Identification

Pos: 240	Max: 1
Heading - Mandatory	
Loop: N9	Elements: 3

User Option (Usage): Must use

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Used
		Description: Code qualifying the Reference Identification All valid standard codes are used. (Total Codes: 1503)				
N902	127	Reference Identification	X	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	Free-form Description	X	AN	1/45	Used
		Description: Free-form descriptive text				

Syntax Rules:

1. C0605 - If N906 is present, then N905 is required.
2. R0203 - At least one of N902 or N903 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

MSG Message Text

Pos: 250	Max: 10
Heading - Mandatory	
Loop: N9	Elements: 1

User Option (Usage): Used

Purpose: To provide a free-form format that allows the transmission of text 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>
MSG01	933	Free-Form Message Text	M	AN	1/264	Used

Description: Free-form message text

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Loop Baseline Item Data (Invoice)

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

User Option (Usage): Used

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	O	10		Used
060		Loop PID	O		1000	Used
120	REF	Reference Identification	O	>1		Used
130	PER	Administrative Communications Contact	O	5		Used
150	DTM	Date/Time Reference	O	10		Used
180		Loop SAC	O		25	Used

IT1

Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 25

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	Used
<p>Description: Alphanumeric characters assigned for differentiation within a transaction set GHX Standard Guideline: <i>GHXcellence: Same Line Number as received in the original PO should be sent back.</i></p>						
IT102	358	Quantity Invoiced	X	R	1/10	Used
<p>Description: Number of units invoiced (supplier units)</p>						
IT103	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
<p>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 794)</p>						
IT104	212	Unit Price	X	R	1/17	Used
<p>Description: Price per unit of product, service, commodity, etc. GHX Standard Guideline: <i>Price per unit of product, up to 3 decimal places.</i></p>						
IT105	639	Basis of Unit Price Code	O	ID	2/2	Used
<p>Description: Code identifying the type of unit price for an item All valid standard codes are used. (Total Codes: 91)</p>						
IT106	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p>						

CodeList Summary (Total Codes: 477, Included: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
GHX Standard Guideline: <i>New to Map HIBCC Used</i>	
ND	National Drug Code (NDC)
GHX Standard Guideline: <i>New to Map HIBCC Used</i>	
PL	Purchaser's Order Line Number
RN	Release Number

SN Serial Number
 UI U.P.C. Consumer Package Code (1-5-5)
 UK GTIN Number

GHX Standard Guideline:
New to Map
HIBCC Used

UP U.P.C. Consumer Package Code (1-5-5-1)
 VC Vendor's (Seller's) Catalog Number
 VN Vendor's (Seller's) Item Number
 VO Vendor's Order Number
 VP Vendor's (Seller's) Part Number
 ZZ Mutually Defined

IT107 234 **Product/Service ID** X AN 1/48 Used
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)

CodeList Summary (Total Codes: 465, Included: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
HI	HIBC (Health Care Industry Bar Code)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
PL	Purchaser's Order Line Number
RN	Release Number
RO	Roll Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	GTIN Number

GHX Standard Guideline:
New to Map
HIBCC Used

UP U.P.C. Consumer Package Code (1-5-5-1)
 VC Vendor's (Seller's) Catalog Number
 VN Vendor's (Seller's) Item Number
 VO Vendor's Order Number
 VP Vendor's (Seller's) Part Number
 ZZ Mutually Defined

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)

CodeList Summary (Total Codes: 477, Included: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number
VO	Vendor's Order Number
VP	Vendor's (Seller's) Part Number
ZZ	Mutually Defined

IT111	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

IT112	235	Product/Service ID Qualifier	X	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: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)

UP U.P.C. Consumer Package Code (1-5-5-1)
 VC Vendor's (Seller's) Catalog Number
 VN Vendor's (Seller's) Item Number
 VO Vendor's Order Number
 VP Vendor's (Seller's) Part Number
 ZZ Mutually Defined

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)

CodeList Summary (Total Codes: 477, Included: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number
VO	Vendor's Order Number
VP	Vendor's (Seller's) Part Number
ZZ	Mutually Defined

IT115 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

IT116 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: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number

- LT Lot Number
- MF Manufacturer
- MG Manufacturer's Part Number
- MP Mortgage Product Code
- N4 National Drug Code in 5-4-2 Format
- ND National Drug Code (NDC)
- PL Purchaser's Order Line Number
- RN Release Number
- SN Serial Number
- UI U.P.C. Consumer Package Code (1-5-5)
- UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)
- UP U.P.C. Consumer Package Code (1-5-5-1)
- VC Vendor's (Seller's) Catalog Number
- VN Vendor's (Seller's) Item Number
- VO Vendor's Order Number
- VP Vendor's (Seller's) Part Number
- ZZ Mutually Defined

IT117 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

IT118 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: 24)

- | <u>Code</u> | <u>Name</u> |
|-------------|--|
| BP | Buyer's Part Number |
| CB | Buyer's Catalog Number |
| CG | Commodity Grouping |
| CR | Contract Number |
| DV | Location Code |
| EN | European Article Number (EAN) (2-5-5-1) |
| IN | Buyer's Item Number |
| LT | Lot Number |
| MF | Manufacturer |
| MG | Manufacturer's Part Number |
| MP | Mortgage Product Code |
| N4 | National Drug Code in 5-4-2 Format |
| ND | National Drug Code (NDC) |
| PL | Purchaser's Order Line Number |
| RN | Release Number |
| SN | Serial Number |
| UI | U.P.C. Consumer Package Code (1-5-5) |
| UK | U.P.C./EAN Shipping Container Code (1-2-5-5-1) |
| UP | U.P.C. Consumer Package Code (1-5-5-1) |
| VC | Vendor's (Seller's) Catalog Number |
| VN | Vendor's (Seller's) Item Number |
| VO | Vendor's Order Number |
| VP | Vendor's (Seller's) Part Number |
| ZZ | Mutually Defined |

IT119 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

IT120 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: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number
VO	Vendor's Order Number
VP	Vendor's (Seller's) Part Number
ZZ	Mutually Defined

IT121	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

IT122	235	Product/Service ID Qualifier	X	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: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)

UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)
 UP U.P.C. Consumer Package Code (1-5-5-1)
 VC Vendor's (Seller's) Catalog Number
 VN Vendor's (Seller's) Item Number
 VO Vendor's Order Number
 VP Vendor's (Seller's) Part Number
 ZZ Mutually Defined

IT123 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

IT124 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: 24)

<u>Code</u>	<u>Name</u>
BP	Buyer's Part Number
CB	Buyer's Catalog Number
CG	Commodity Grouping
CR	Contract Number
DV	Location Code
EN	European Article Number (EAN) (2-5-5-1)
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer
MG	Manufacturer's Part Number
MP	Mortgage Product Code
N4	National Drug Code in 5-4-2 Format
ND	National Drug Code (NDC)
PL	Purchaser's Order Line Number
RN	Release Number
SN	Serial Number
UI	U.P.C. Consumer Package Code (1-5-5)
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VC	Vendor's (Seller's) Catalog Number
VN	Vendor's (Seller's) Item Number
VO	Vendor's Order Number
VP	Vendor's (Seller's) Part Number
ZZ	Mutually Defined

IT125 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

Syntax Rules:

1. P0607 - If either IT106 or IT107 is present, then the other is required.
2. P0809 - If either IT108 or IT109 is present, then the other is required.
3. P1011 - If either IT110 or IT111 is present, then the other is required.
4. P1213 - If either IT112 or IT113 is present, then the other is required.
5. P1415 - If either IT114 or IT115 is present, then the other is required.
6. P1617 - If either IT116 or IT117 is present, then the other is required.
7. P1819 - If either IT118 or IT119 is present, then the other is required.
8. P2021 - If either IT120 or IT121 is present, then the other is required.
9. P2223 - If either IT122 or IT123 is present, then the other is required.
10. P2425 - If either IT124 or IT125 is present, then the other is required.

11. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.

Semantics:

1. IT101 is the purchase order 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.

GHX Standard Guideline:

Elements 06/07, 08/09, ..., 24/25 are qualifier/value pairs.

The valid qualifiers are defined in 06 only. 08, 10, ..., 24 should refer to 06 for valid qualifiers.

TXI Tax Information

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 10

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 <i>Description: Code specifying the type of tax All valid standard codes are used. (Total Codes: 74)</i>	M	ID	2/2	Used
TXI02	782	Monetary Amount <i>Description: Monetary amount</i>	X	R	1/18	Used
TXI03	954	Percent <i>Description: Percentage expressed as a decimal GHX Standard Guideline: GHX does not calculate on Percentages</i>	X	R	1/10	Used
TXI04	955	Tax Jurisdiction Code Qualifier <i>Description: Code identifying the source of the data used in tax jurisdiction code All valid standard codes are used. (Total Codes: 3)</i>	X	ID	2/2	Used
TXI05	956	Tax Jurisdiction Code <i>Description: Code identifying the taxing jurisdiction</i>	X	AN	1/10	Used
TXI06	441	Tax Exempt Code <i>Description: Code identifying exemption status from sales and use tax All valid standard codes are used. (Total Codes: 34)</i>	X	ID	1/1	Used
TXI07	662	Relationship Code <i>Description: Code indicating the relationship between entities All valid standard codes are used. (Total Codes: 5)</i>	O	ID	1/1	Used
TXI08	828	Dollar Basis For Percent <i>Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax</i>	X	R	1/9	Used
TXI09	325	Tax Identification Number <i>Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number</i>	O	AN	1/20	Used
TXI10	350	Assigned Identification <i>Description: Alphanumeric characters assigned for differentiation within a transaction set</i>	O	AN	1/20	Used

Syntax Rules:

1. C0803 - If TXI08 is present, then TXI03 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. 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.

Loop Product/Item Description

Pos: 060	Repeat: 1
Optional	
Loop: PID	Elements: N/A

User Option (Usage): Used

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	Used

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	X	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. C0403 - If PID04 is present, then PID03 is required.
2. C0703 - If PID07 is present, then PID03 is required.
3. C0804 - If PID08 is present, then PID04 is required.
4. C0905 - If PID09 is present, then PID05 is required.
5. R0405 - At least one of PID04 or PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

REF Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

User Option (Usage): Used
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	Used

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 27)

<u>Code</u>	<u>Name</u>
19	Division Identifier
44	End Use Number
83	Extended (or Exhibit) Line Item Number (ELIN)
AP	Accounts Receivable Number
CA	Cost Allocation Reference
CR	Customer Reference Number
CT	Contract Number
DB	Buyer's Debit Memo
DP	Department Number
EA	Medical Record Identification Number
EJ	Patient Account Number
GC	Government Contract Number
GE	Geographic Number
L1	Letters or Notes
LT	Lot Number
OI	Original Invoice Number
OP	Original Purchase Order
PN	Permit Number
RE	Release Number
RM	Raw material supplier Dun & Bradstreet number
RQ	Purchase Requisition Number
RY	Rebate Number
SE	Serial Number
SI	Shipper's Identifying Number for Shipment (SID)
SS	Split Shipment Number
TX	Tax Exempt Number
VN	Vendor Order Number
VS	Vendor Order Number Suffix
ZZ	Mutually Defined

REF02	127	Reference Identification	X	AN	1/30	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	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. R0203 - At least one of REF02 or REF03 is required.

PER Administrative Communications Contact

Pos: 130	Max: 5
Detail - Optional	
Loop: IT1	Elements: 8

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	Used						
<p>Description: Code identifying the major duty or responsibility of the person or group named</p> <p>CodeList Summary (Total Codes: 230, Included: 2)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1F</td> <td>Physician</td> </tr> <tr> <td>PZ</td> <td>Patient</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	1F	Physician	PZ	Patient
<u>Code</u>	<u>Name</u>											
1F	Physician											
PZ	Patient											
PER02	93	Name	O	AN	1/60	Used						
<p>Description: Free-form name</p>												
PER03	365	Communication Number Qualifier	X	ID	2/2	Used						
<p>Description: Code identifying the type of communication number All valid standard codes are used. (Total Codes: 40)</p>												
PER04	364	Communication Number	X	AN	1/80	Used						
<p>Description: Complete communications number including country or area code when applicable</p>												
PER05	365	Communication Number Qualifier	X	ID	2/2	Used						
<p>Description: Code identifying the type of communication number All valid standard codes are used. (Total Codes: 40)</p>												
PER06	364	Communication Number	X	AN	1/80	Used						
<p>Description: Complete communications number including country or area code when applicable</p>												
PER07	365	Communication Number Qualifier	X	ID	2/2	Used						
<p>Description: Code identifying the type of communication number All valid standard codes are used. (Total Codes: 40)</p>												
PER08	364	Communication Number	X	AN	1/80	Used						
<p>Description: Complete communications number including country or area code when applicable</p>												

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

DTM Date/Time Reference

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 3

User Option (Usage): Used
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	Used

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

CodeList Summary (Total Codes: 1112, Included: 6)

<u>Code</u>	<u>Name</u>
003	Invoice
004	Purchase Order
010	Requested Ship
011	Shipped
150	Service Period Start
151	Service Period End
456	Surgery

DTM02	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

DTM03	337	Time	X	TM	4/8	Used
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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)

Syntax Rules:

1. C0403 - If DTM04 is present, then DTM03 is required.
2. P0506 - If either DTM05 or DTM06 is present, then the other is required.
3. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 180	Repeat: 25
Optional	
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	M	1		Must use

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Mandatory	
Loop: SAC	Elements: 10

User Option (Usage): Must use

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	Used

Description: Code which indicates an allowance or charge for the service specified

CodeList Summary (Total Codes: 7, Included: 7)

<u>Code</u>	<u>Name</u>
A	Allowance
C	Charge
N	No Allowance or Charge
P	Promotion
Q	Charge Request
R	Allowance Request
S	Service

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
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Description: Code identifying the service, promotion, allowance, or charge
All valid standard codes are used. (Total Codes: 1053)

SAC03	559	Agency Qualifier Code	X	ID	2/2	Used
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Description: Code identifying the agency assigning the code values
All valid standard codes are used. (Total Codes: 176)

SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN	1/10	Used
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Description: Agency maintained code identifying the service, promotion, allowance, or charge

SAC05	610	Amount	O	N2	1/15	Used
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Description: Monetary amount

SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Used
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Description: Code indicating on what basis allowance or charge percent is calculated

CodeList Summary (Total Codes: 11, Included: 11)

<u>Code</u>	<u>Name</u>
1	Item List Cost
2	Item Net Cost
3	Discount/Gross
4	Discount/Net
5	Base Price per Unit
6	Base Price Amount
7	Base Price Amount Less Previous Discount
8	Net Monthly On All Invoices Past Due
9	Late Payment Charge Base Amount

		A	Fuel Rate				
		Z	Mutually Defined				
SAC07	332	Percent		X	R	1/6	Used
		Description: Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified					
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					
		CodeList Summary (Total Codes: 22, Included: 22)					
		<u>Code</u>	<u>Name</u>				
		01	Bill Back				
		02	Off Invoice				
		03	Vendor Check to Customer				
		04	Credit Customer Account				
		05	Charge to be Paid by Vendor				
		06	Charge to be Paid by Customer				
		07	Optional				
		08	Off Gross Quantity Invoiced				
		09	Allowance To Be Issued by Vendor				
		10	Allowance To Be Issued by Reseller				
		11	Charge Denied by Vendor				
		12	Cancel Allowance				
		13	Provide Amount				
		15	Information Only				
		18	Non-Payable Tax				
		20	Accrual Fund				
		21	Flat Fund				
		25	Cash in Advance				
		CA	Calculate and Add to Invoice				
		CC	Collect				
		PP	Prepaid				
		ZZ	Mutually Defined				
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. C1110 - If SAC11 is present, then SAC10 is required.
2. C1413 - If SAC14 is present, then SAC13 is required.
3. C1615 - If SAC16 is present, then SAC15 is required.
4. P0304 - If either SAC03 or SAC04 is present, then the other is required.
5. P0607 - If either SAC06 or SAC07 is present, then the other is required.
6. P0910 - If either SAC09 or SAC10 is present, then the other is required.
7. R0203 - At least one of SAC02 or SAC03 is required.
8. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in 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.

TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Used
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 Description: Monetary amount	M	N2	1/15	Used
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.

GHX Standard Guideline:

TDS01 is the amount the buyer is expected to pay for the invoice by the standard invoice terms date.

TXI Tax Information

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

User Option (Usage): Used
Purpose: Summary invoice tax

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	Used
		Description: Code specifying the type of tax All valid standard codes are used. (Total Codes: 74)				
TXI02	782	Monetary Amount	X	R	1/18	Used
		Description: Monetary amount				
TXI03	954	Percent	X	R	1/10	Used
		Description: Percentage expressed as a decimal				
TXI04	955	Tax Jurisdiction Code Qualifier	X	ID	2/2	Used
		Description: Code identifying the source of the data used in tax jurisdiction code				
		CodeList Summary (Total Codes: 3, Included: 3)				
		<u>Code</u>		<u>Name</u>		
		CD		Customer defined		
		VD		Vendor defined		
		VE		Vertex		
TXI05	956	Tax Jurisdiction Code	X	AN	1/10	Used
		Description: Code identifying the taxing jurisdiction				
TXI06	441	Tax Exempt Code	X	ID	1/1	Used
		Description: Code identifying exemption status from sales and use tax All valid standard codes are used. (Total Codes: 34)				
TXI07	662	Relationship Code	O	ID	1/1	Used
		Description: Code indicating the relationship between entities All valid standard codes are used. (Total Codes: 5)				
TXI08	828	Dollar Basis For Percent	X	R	1/9	Used
		Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax				
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				
TXI10	350	Assigned Identification	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				

Syntax Rules:

1. C0803 - If TXI08 is present, then TXI03 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. 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.

GHX Standard Guideline:

TXI^ST^5.42~

Multiple TXI segments may be generated for every type of tax indicated.

xCBL Supports only one TXI at the header level.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 040	Repeat: 25
	Optional
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	M	1		Must use
050	TXI	Tax Information	O	10		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Mandatory	
Loop: SAC	Elements: 10

User Option (Usage): Must use

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	Used
Description: Code which indicates an allowance or charge for the service specified						
CodeList Summary (Total Codes: 7, Included: 7)						
		<u>Code</u>		<u>Name</u>		
		A		Allowance		
		C		Charge		
		N		No Allowance or Charge		
		P		Promotion		
		Q		Charge Request		
		R		Allowance Request		
		S		Service		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
Description: Code identifying the service, promotion, allowance, or charge						
All valid standard codes are used. (Total Codes: 1053)						
SAC03	559	Agency Qualifier Code	X	ID	2/2	Used
Description: Code identifying the agency assigning the code values						
All valid standard codes are used. (Total Codes: 176)						
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN	1/10	Used
Description: Agency maintained code identifying the service, promotion, allowance, or charge						
SAC05	610	Amount	O	N2	1/15	Used
Description: Monetary amount						
SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Used
Description: Code indicating on what basis allowance or charge percent is calculated						
All valid standard codes are used. (Total Codes: 11)						
SAC07	332	Percent	X	R	1/6	Used
Description: Percent expressed as a percent						
SAC08	118	Rate	O	R	1/9	Used
Description: Rate expressed in the standard monetary denomination for the currency specified						
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
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C1110 - If SAC11 is present, then SAC10 is required.
2. C1413 - If SAC14 is present, then SAC13 is required.
3. C1615 - If SAC16 is present, then SAC15 is required.
4. P0304 - If either SAC03 or SAC04 is present, then the other is required.
5. P0607 - If either SAC06 or SAC07 is present, then the other is required.
6. P0910 - If either SAC09 or SAC10 is present, then the other is required.
7. R0203 - At least one of SAC02 or SAC03 is required.
8. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in 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.

GHX Standard Guideline:

SAC^C^D500^^2512^^^^^^06~

Summary and totals of charges from item level SAC's by Charge Code defined in SAC02. Multiple SAC's may be generated by Charge Code type.

TXI Tax Information

Pos: 050	Max: 10
Summary - Optional	
Loop: SAC	Elements: 10

User Option (Usage): Used

Purpose: To specify tax information due to the preceding SAC charge only

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 Description: Code specifying the type of tax All valid standard codes are used. (Total Codes: 74)	M	ID	2/2	Used
TXI02	782	Monetary Amount Description: Monetary amount	X	R	1/18	Used
TXI03	954	Percent Description: Percentage expressed as a decimal	X	R	1/10	Used
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code All valid standard codes are used. (Total Codes: 3)	X	ID	2/2	Used
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction	X	AN	1/10	Used
TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax All valid standard codes are used. (Total Codes: 34)	X	ID	1/1	Used
TXI07	662	Relationship Code Description: Code indicating the relationship between entities All valid standard codes are used. (Total Codes: 5)	O	ID	1/1	Used
TXI08	828	Dollar Basis For Percent Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax	X	R	1/9	Used
TXI09	325	Tax Identification Number Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	O	AN	1/20	Used
TXI10	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used

Syntax Rules:

1. C0803 - If TXI08 is present, then TXI03 is required.
2. P0405 - If either TXI04 or TXI05 is present, then the other is required.
3. 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.

CTT Transaction Totals

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

User Option (Usage): Used

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	Used

Description: Total number of line items in the transaction set

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

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

User Option (Usage): Used

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	NO	1/10	Used

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	Used
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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

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						