

Customer EDI Guidelines

Canadian 810 Invoice

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810

Invoice

Functional Group=IN

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.

Segments:

<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			Used
	GS	Functional Group Header	M	1			Used

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
030	NTE	Note/Special Instruction	O	100			Used
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	12			Used

<u>LOOP ID - N1</u>					<u>200</u>		
070	N1	Name	O	1			Used
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
140	DTM	Date/Time Reference	O	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>
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<u>LOOP ID - IT1</u>					<u>200000</u>		
010	IT1	Baseline Item Data (Invoice)	O	1			Used

<u>LOOP ID - PID</u>					<u>1000</u>		
060	PID	Product/Item Description	O	1			Used
120	REF	Reference Identification	O	>1			Used

<u>LOOP ID - N1</u>					<u>200</u>		
240	N1	Name	O	1			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
030	CAD	Carrier Detail	O	1			Used

<u>LOOP ID - SAC</u>					<u>25</u>		
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040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
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LOOP ID - ISS

					<u>≥1</u>	
060	ISS	Invoice Shipment Summary	O	1		Used
070	CTT	Transaction Totals	O	1	N3/070	Used
080	SE	Transaction Set Trailer	M	1		Must use

Segments:

<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			Used
	IEA	Interchange Control Trailer	M	1			Used

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
- Mandatory	
Loop: N/A	Elements: 16

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 Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use
ISA02	I02	Authorization Information 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)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use
ISA04	I04	Security Information 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)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier 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.	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID 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	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier 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.	M	ID	2/2	Must use
ISA08	I07	Interchange Receiver ID 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	M	AN	15/15	Must use
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier 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.	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: This version number covers the interchange control segments All valid standard codes are used.				use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	Must use
ISA16	I15	Component Element Separator 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	M		1/1	Must use

GS**Functional Group Header**

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

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 Description: Code identifying a group of application related transaction sets All valid standard codes are used.	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	M	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code 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 All valid standard codes are used.	M	AN	1/12	Must use

Semantics:

- GS04 is the group date.
- GS05 is the group time.
- 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:

- 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

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 Description: Code uniquely identifying a Transaction Set Value: 810 for invoice	M	ID	3/3	Must use
		<u>Code Name</u> 810 Invoice				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This unique number is sequential and consists of four to nine digits. Number cannot be repeated within calendar year.	M	AN	4/9	Must use

Semantics:

- 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

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 Description: Date expressed asYYYYMMDD YYYY=year MM=month (01-12) DD=day (01-31) If IDDAT = '012' map DATUM from SAP IDOC.	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer Control number for this document. GMLG transmits the actual invoice number	M	AN	1/22	Must use
BIG03	373	Date Description: Date expressed asYYYYMMDD Date assigned by the purchaser to the purchase order YYYY=year MM=month (01-12) DD=day (01-31) If IDDAT = '022' map DATUM	O	DT	8/8	Used
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser If QUALF = '001' map BELNR	M	AN	1/22	Used
BIG07	640	Transaction Type Code Description: Code specifying the type of invoice being transmitted. GMLG is only using MM - Multiple Shippers, Multiple Consignees CC - Single Shipper, Single Consignee <u>Code Name</u> MM Multiple Shippers, Multiple Consignees SS Single Shipper, Single Consignee	O	ID	2/2	Used

Semantics:

- BIG01 is the invoice issue date.
- 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

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 Description: Code identifying the functional area or purpose for which the note applies GMLG transmits only the following codes: GEN - Entire Transaction set. OTH - Other Instructions ZZZ - Mutually Defined <u>Code Name</u> GEN Entire Transaction Set OTH Other Instructions ZZZ Mutually Defined	O	ID	3/3	Used
NTE02	352	Description Description: A free-form description to clarify the related data elements and their content Concatenate the following: sum of MENGE Quantity sum of NTGEW Net Weight BELNR Invoice Number	M	AN	1/80	Must use

Comments:

- 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.

CUR Currency

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

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 Description: Code identifying an organizational entity, a physical location, property or an individual Only the following code will be accepted: VN – Vendor <u>Code</u> <u>Name</u> VN Vendor	M	ID	2/3	Must use
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified. Only the following codes will be accepted: USD - US Dollar	M	ID	3/3	Must use

Syntax:

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

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

Only the following codes can be sent by GMLG:

C3 - Customer Specification Number
 IT - Internal Customer Number
 BM - Bill of Lading Number
 RF - Export Reference Number

if QUALF = '009' default --> 'C3'
 if QUALF = 'ZBM' default --> 'BM'
 if QUALF = 'ZRF' default --> 'RF'
 if PARVW = 'AG' default --> 'IT'

Code Name

BM Bill of Lading Number
 C3 Customer specification number
 IT Internal Customer Number
 RF Export Reference Number

REF02	127	Reference Identification	C	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

GMLG will transmit the reference number or identification number as defined for a particular transaction set, or as specified by REF01.

If QUALF = '009', 'ZBM', 'ZRF' map BELNR
 If PARVW = 'AG' map PARTN

Syntax:

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

Semantics:

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

N1**Name**

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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 Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use

GMLG will transmit only the following codes:

BT - Bill-to-Party
 CN - Consignee
 EX - Exporter
 II - Issuer of Invoice
 VN - Vendor

If PARVW = 'BK' default --> 'VN' 'EX' and 'II' The IDOC BK qualifier is used to write the EDI qualifiers: VN, EX, and II. This is done because all three addresses are using the same values.

If PARVW = 'AG' default --> 'CN'

If PARVW = 'RE' default --> 'BT'

Code Name

BT Bill-to-Party
 CN Consignee
 EX Exporter
 II Issuer of Invoice
 VN Vendor

N102	93	Name Description: Free-form name Name of the party or the location referred to in N101.	C	AN	1/60	Used
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If PARVW = 'BK' 'AG' 'RE' map NAME1

If PARVW = 'BK' and N101 = 'II' then default 'R.A. Petranek

N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used
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N103 is required in the N1 loop where n101 equals "RE". N103 will be ignored in all other N1 loops.

91 Assigned by Seller
 92 Assigned by Buyer or Buyer's Agent

If PARVW = 'BK' and 'VN' default --> '92' else element not used

Code Name

91 Assigned by Seller or Seller's Agent

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	92	Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Used
		N104 is required in the N1 loop where N101 equals "RE". N104 will be ignored in all other N1 loops.				
		This code is used to identify the party being referenced in N102.				
		If PARVW = 'BK' and N101 = 'VN' default --> '62001' else element not used				
		If PARVW = 'BK' default -->'CC'				

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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

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 Description: Free-form name Transmitted by GMLGG to provide additional name information pertaining to the parties involved. If N2 segment is present, then N201 is a mandatory element. If PARVW = 'BK 'AG' 'RE' map NAME2	M	AN	1/60	Must use
N202	93	Name Description: Free-form name Transmitted by GMLG to provide additional name information pertaining to the parties involved. If PARVW = 'BK 'AG' 'RE' map NAME3	O	AN	1/60	Used

N3**Address Information**

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

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use
<p>This element will be transmitted by GMLG to provide address information pertaining to the parties involved.</p> <p>If N3 is present, then N301 is a mandatory element. When N101 = "SF", GMLG will transmit the following code: N301 = "UNKNOWN".</p> <p>If PARVW = 'BK 'AG' 'RE' map STRAS</p>						
N302	166	Address Information Description: Address information	O	AN	1/55	Used
<p>This element will be transmitted by GMLG to provide address information pertaining to the parties involved.</p> <p>If PARVW = 'BK 'AG' 'RE' map STRS2</p>						

N4**Geographic Location**

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

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 GMLG will transmit the city name in free-form text. If PARVW = 'BK 'AG' 'RE' map ORT01	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Code values conform to the standard postal abbreviations. State abbreviation or province code. If PARVW = 'BK 'AG' 'RE' map REGIO	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) GMLG will transmit the appropriate international postal code, excluding punctuation and blanks, or the zip code for the United States If PARVW = 'BK 'AG' 'RE' map PSTLZ	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country Assume to be US if not sent CA - Canada US - United States If PARVW = 'BK 'AG' 'RE' map LAND1	O	ID	2/3	Used
N405	309	Location Qualifier Description: Code identifying type of location GMLG will transmit CC - Country Code If PARVW = 'BK and 'VN' or 'EX' default --> 'CC' <u>Code Name</u> CC Country	C	ID	1/2	Used
N406	310	Location Identifier	O	AN	1/30	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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Description: Code which identifies a specific location

When N101 equals VN (Vendor), GMLG will transmit UIL (U=USA, IL=Illinois)

Syntax:

1. N406 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.

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

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 7

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 Description: Code identifying type of payment terms Only the following codes will be sent by GMLG: 05 - Discount not applicable 08 - Basic Discount Offered If QUALF = '001' and PRZNT = 0 default --> '05' If QUALF = '001' and PRZNT <> 0 default --> '08' <u>Code Name</u> 05 Discount Not Applicable 08 Basic Discount Offered	O	ID	2/2	Used
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period Only the following codes will be accepted: 3 - Invoice date <u>Code Name</u> 3 Invoice Date	O	ID	1/2	Used
ITD03	338	Terms Discount Percent 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 The terms discount percentage specifies the discount available for "prompt payment" of the invoice. Must not exceed 100% 2% = 2 or 2.0 If QUALF = '001' map PRZNT	O	R	1/6	Used
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned expressed in format YYYYMMDD YYYY=year MM=month (01-12) DD=day (01-31) If IDDAT = "Z01" map DATUM	C	DT	8/8	Used
ITD05	351	Terms Discount Days Due	C	N0	1/3	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Number of days in the terms discount period by which payment is due if terms discount is earned If QUALF = '001' map TAGE				
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable) Max value of TAGE	O	N0	1/3	Used
ITD12	352	Description Description: A free-form description of invoice terms. If QUALF = '001' map ZTERM_TEXT	O	AN	1/80	Used

Syntax:

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

Semantics:

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

Comments:

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

DTM Date/Time Reference

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

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

The following code will be transmitted by GMLG:

011 - Shipped Date

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

DTM02	373	Date	C	DT	8/8	Used
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Description: Date expressed as YYYYMMDD

GMLG will transmit the date referenced by DTM01.

YYYY=year

MM=month (01-12)

DD=day (01-31)

If IDDAT = '001' map DATUM

Syntax:

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

IT1**Baseline Item Data (Invoice)**

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 8

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 Description: Alphanumeric characters assigned for differentiation within a transaction set GMLG will transmit the customer's line number from the customer's Purchase Order. If the customer's line number is not available, GMLG's line number will be transmitted. If data found in ZEILE use it else use POSEX value	O	AN	1/20	Used				
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units) value must be greater than 0 GMLG will transmit the number of units being invoiced for this line item. Map using SAP IDOC field MENGE	C	R	1/10	Used				
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken GMLG will transmit only the following code: EA - Each Map using SAP IDOC field MENEE <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	C	ID	2/2	Used
<u>Code</u>	<u>Name</u>									
EA	Each									
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc. Unit price will be expressed in the unit of measure from data element 355. Unit price will be net of gross price, trade discounts and item-specific mark-ups, but will not be adjusted for payment terms or any order-specific special charges. Unit price must be greater than or equal to zero. If QUALF = '003' map BETRG minus freight and any taxes.	C	R	1/17	Used				
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) GMLG will transmit the following codes:	C	ID	2/2	Used				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		PI - Purchaser's Item Code				
		<u>Code Name</u> PI Purchaser's Item Code				
IT107	234	Product/Service ID Description: Identifying number for a product or service Whenever possible, GMLG will also transmit their customer's part number. If the customer's part number is not available, GMLG will transmit "NO STOCK #" in IT109 If QUALF = '001' and data found in IDTNR then map else use default --> 'No Stock#'	C	AN	1/48	Used
IT108	235	Product/Service ID Qualifier Description: ode identifying the type/source of the descriptive number used in Product/Service ID (234) GMLG will transmit the following codes: VP - Vendors's (Seller's) Item Code <u>Code Name</u> VP Vendor's (Seller's) Part Number	C	ID	2/2	Used
IT109	234	Product/Service ID Description: Identifying number for a product or service GMLG will transmit the item number referred to in IT108. GMLG will always transmit their part number on the invoice. If QUALF = '002' map IDTNR	C	AN	1/48	Used

Syntax:

1. IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
2. IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
3. IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
4. IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.
5. IT112 P1213 -- If either IT112 or IT113 are present, then the others are required.
6. IT114 P1415 -- If either IT114 or IT115 are present, then the others are required.
7. IT116 P1617 -- If either IT116 or IT117 are present, then the others are required.
8. IT118 P1819 -- If either IT118 or IT119 are present, then the others are required.
9. IT120 P2021 -- If either IT120 or IT121 are present, then the others are required.
10. IT122 P2223 -- If either IT122 or IT123 are present, then the others are required.
11. IT124 P2425 -- If either IT124 or IT125 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.

PID Product/Item Description

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

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 Description: Code indicating the format of a description	M	ID	1/1	Must use
GMLG will transmit the following code: F - Free form						
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description Description: A free-form description of the item that is being invoice.	C	AN	1/80	Used
If QUALF = '002' map KTEXT						

Syntax:

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

Semantics:

- Use PID03 to indicate the organization that publishes the code list being referred to.
- PID04 should be used for industry-specific product description codes.
- 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.
- PID09 is used to identify the language being used in PID05.

Comments:

- 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.
- Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- PID07 specifies the individual code list of the agency specified in PID03.

REF Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

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

GMLG will transmit the following code:

PO - Purchase Order Number

<u>Code</u>	<u>Name</u>
PO	Purchase Order Number

REF02	127	Reference Identification	C	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 REF01

If QUALF = "001" map BELNR

Syntax:

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

Semantics:

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

N1**Name**

Pos: 240	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

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 Description: Code identifying an organizational entity, a physical location, property or an individual GMLG will transmit only the following codes: CT - Country of Origin If E2EDP01003/SEGNAM exists default --> 'CT' <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CT</td> <td>Country of Origin</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CT	Country of Origin	M	ID	2/3	Must use
<u>Code</u>	<u>Name</u>									
CT	Country of Origin									
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) GMLG will transmit the following code: 38 - Country Code If E2EDP01003/SEGNAM exists default --> '38' <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>38</td> <td>Country Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	38	Country Code	C	ID	1/2	Used
<u>Code</u>	<u>Name</u>									
38	Country Code									
N104	67	Identification Code Description: Code identifying a party or other code GMLG will transmit the following code: US - United States If E2EDP01003/SEGNAM exists default --> 'US'	C	AN	2/80	Used				

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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.

TDS Total Monetary Value Summary

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

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: Total amount of the invoice (including charges, less allowances) before the "prompt payment discount". Must equal the sum of (IT102 * IT104) rounded to 2 decimals, for IT1 segments plus the sum of SAC05 elements (with the appropriate regard for the allowance charge indicator, SAC01) SUMID = '010' map SUMME	M	N2	1/15	Must use
TDS02	610	Amount Description: The amount subject to terms of discount from which the prompt payment discount (terms of discount) should be calculated. The amount subject to terms of discount can be determined as follows: Sum of (IT102 * IT104) for all IT1 segments included in the invoice.	O	N2	1/15	Used
TDS03	610	Amount Description: Amount of invoice due if paid by the prompt payment discount date (terms discount due date). The discounted amount due may be determined as follows: TDS01 minus (TDS02 * ITD03)	O	N2	1/15	Used
TDS04	610	Amount Description: Amount of discount that will be received if the invoice is paid by the prompt payment discount date (terms discount due date). The terms discount amount may be determined as follows: TDS01 minus TDS03	O	N2	1/15	Used

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

To specify transportation details for the transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	Transportation Method/Type Code	O	ID	1/2	Used

Description: Code specifying the method or type of transportation for the shipment

GMLG may transmit the following codes:

A - Air
 D - Parcel Post
 H - Customer Pickup
 M - Motor (Common Carrier)
 R - Rail
 U - Private Parcel Service

If TDID = 'ZTR' map TDLINE using generic synonym table trans_cat

Code Name

A Air
 D Parcel Post
 H Customer Pickup
 M Motor (Common Carrier)
 R Rail
 U Private Parcel Service

CAD05	387	Routing	C	AN	1/35	Used
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Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Alpha carrier name.

If TDID = 'ZCR' map IDOC field TDLINE.

If TDID = 'ZCR' and data not found in IDOC field TDLINE, map 'CARRIER UNDEFINED' to CAD05.

Syntax:

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

SAC Service, Promotion, Allowance, or Charge Information

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

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 Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Must use
		Only the following codes allowed: A - Allowance C - Charge				
		<u>Code</u> <u>Name</u> A Allowance C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	C	ID	4/4	Used
		Only the following codes will be used by GMLG: D240 - Freight D500 - Handling G740 - Service Charge H330 - State Sales Charge H850 - Tax Charge				
		<u>Code</u> <u>Name</u> D240 Freight D500 Handling G740 Service Charge H330 State Sales Charge H850 Tax				
		Currently, H330 is being used for sales tax, D240 is used for freight and UPS charges, and G740 is used for discounts.				
SAC05	610	Amount Description: GMLG will transmit the total dollar amount of the allowance or charge.	O	N2	1/15	Used
		If SUMID = '005' and SUMME <> 0 map taxes using SUMME				
		If SUMID = '001' and \$TOTAL_FREIGHT <> 0 then map \$TOTAL_FREIGHT a system variable containing a summary of freight charges				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code indicating method of handling for an allowance or charge. GMLG will transmit the following codes:				
		04 - Credit Customer Account				
		06 - Charge to be paid by Customer				
		Code Name				
		04 Credit Customer Account				
		06 Charge to be Paid by Customer				
SAC15	352	Description	C	AN	1/80	Used
		Description: A free-form description to clarify the allowance or charge				
		Map "Sales Tax" or system variable \$FREIGHT_DESC depending on the type of charge.				

Syntax:

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

Semantics:

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

ISS**Invoice Shipment Summary**

Pos: 060	Max: 1
Summary - Optional	
Loop: ISS	Elements: 6

To specify summary details of total items shipped in terms of quantity, weight, and volume

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>
ISS01	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set Sum over E2EDP01003 loop using SAP IDOC field, MENGE	C	R	1/10	Used
ISS02	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken GMLG will transmit the following code: PK – Package <u>Code Name</u> PK Package	C	ID	2/2	Used
ISS03	81	Weight Description: Numeric value of weight Sum over E2EDP01003 loop using SAP IDOC field, NETGW	C	R	1/10	Used
ISS04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken GMLG will transmit the following code: LB – Pound <u>Code Name</u> LB Pound	C	ID	2/2	Used
ISS05	183	Volume Description: Value of volumetric measure Sum over E2EDP01003 loop using SAP IDOC field, BRGEW	C	R	1/8	Used
ISS06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken GMLG will transmit the following code: LB – Pound	C	ID	2/2	Used

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

Syntax:

1. ISS01 R010305 -- At least one of ISS01, ISS03 or ISS05 is required.
2. ISS01 P0102 -- If either ISS01 or ISS02 are present, then the others are required.
3. ISS03 P0304 -- If either ISS03 or ISS04 are present, then the others are required.
4. ISS05 P0506 -- If either ISS05 or ISS06 are present, then the others are required.

Semantics:

1. ISS07 is the quantity of third party pallets.
2. ISS08 is the gross weight of third party pallets in pounds.

CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

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 Description: Total number of line items in the transaction set count over E2EDP01003 loop using field SEGNAM	M	N0	1/6	Must use
CTT02	347	Hash Total Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.Example:-.0018 First occurrence of value beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.-----1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field. sum over E2EDP01003 loop using SAP IDOC field MENGE	O	R	1/10	Used

Syntax:

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

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 Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set Must be identical to the transaction set control number in the ST segment	M	AN	4/9	Must use

Comments:

- SE is the last segment of each transaction set.

GE**Functional Group Trailer**

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

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 Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

- 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:

- 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
- Mandatory	
Loop: N/A	Elements: 2

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 Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use