

HubBroker iPaaS X12 4010 855 Purchase Order Acknowledgment Specification

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Product Management

November 2017

Company Public Information



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Table of Contents

1.	Introduction	3
2.	Purpose	3
3.	Schema Validation	3
4.	HubBroker iPaaS ANSI X12 855 Purchase Order Acknowledgement	4
4.1	General information	4
1.1.1	ANSI X.12 Version	4
4.2	ISA - Interchange Control Header	4
4.3	GS - Functional Group Header	6
4.4	ST - Transaction Set Header	7
4.5	BAK - Beginning Segment for Purchase Order Acknowledgment	7
4.6	CUR - Currency	9
4.7	REF - Reference Identification	9
4.8	FOB - F.O.B. Related Instructions	9
4.9	ITD - Terms of Sale/Deferred Terms of Sale	11
4.10	CTB - Restrictions/Conditions	12
4.11	N9 - Extended Reference Information	12
4.12	N1 - Name Information	13
4.13	N2 - Additional Name Information	13
4.14	N3 - Address Information	14
4.15	N4 - Geographic Location	14
4.16	NX2 - Location ID Component	14
4.17	PER - Administration Communication Contact	15
4.18	PO1 - Baseline Item Data (Purchase Order Item Data)	15
4.19	CUR - Currency	16
4.20	CTP - Pricing Information	17
4.21	PID - Product/Item Description	17
4.22	REF - Reference Information	18
4.23	FOB - F.O.B. Related Instructions	18

4.24	ACK - Line Item Acknowledgment	20
4.25	N9 - Extended Reference Information	21
4.26	N1 - Name Information	22
4.27	N4 - Geographic Location	22
4.28	CTT - Transaction Totals	23
4.29	AMT - Monetary Amount	23
4.30	SE - Transaction Set Trailer	23
4.31	GE - Functional Group Trailer	24
4.32	IEA - Interchange Control Trailer	24
5.	Example	24

1. Introduction

The EDI (Electronic Data Interchange) Standard (X12), version (4010) and Transaction Set (855) is a globally standardized order acknowledgement format developed by ANSI (American National Standards Institute), a private not-for-profit organization that oversees the creation, promulgation and use of thousands of norms and guidelines that directly impact businesses.

This format is most commonly used in the United States. The HubBroker iPaaS has implemented support in receiving X12 4010:855 Order Acknowledgements from North American suppliers via Https/Post and FTP. This format support will allow suppliers to send purchase order acknowledgments to their customers via the HubBroker iPaaS without implementing mappings from their internal EDI format to XML.

Like any other electronic order acknowledgment document, the ANSI X12 855 document contains information regarding the products/services and the quantities accepted or rejected, shipping details, payment terms, etc.

Below is an example typical structure supported by the HubBroker iPaaS when receiving ANSI X12 855 transactions.

2. Purpose

The purpose of this document is to detail the meaning and the information contained in the segments of the ANSI X12 format as received by the HubBroker iPaaS. More information regarding ANSI X12 4010 transaction sets can be found at <http://www.disa.org>. Please note publications are available at a cost.

3. Schema Validation

Any ANSI X12 order response received by HubBroker iPaaS from suppliers must be valid according to the global X12 schema version 4010 for order acknowledgements. Documents which do not comply with the standard ANSI X12 specifications might not be processed.

4. HubBroker iPaaS ANSI X12 855 Purchase Order Acknowledgement

4.1 General information

1.1.1 ANSI X.12 Version

The HubBroker iPaaS supports ANSI X.12, Version 004010.

Below is a structure of the segments used by HubBroker iPaaS when processing X12 855 Order acknowledgements. The structure is complete with explanations for each segments' elements.

4.2 ISA - Interchange Control Header

This segment starts and identifies an interchange of one or more groups or loops and their related segments. This segment is ended by the IEA segment. Only one ISA-IEA control loop may be used per transmission.

Element	Meaning	Length (min/max)	Required?
ISA01	Authorization Information Qualifier Default: "00" = "No Authorization Information Present"	2/2	Yes
ISA02	Authorization Information Default: empty	10/10	Yes
ISA03	Security Information Qualifier Default: "00" = "No Security Information Present"	2/2	Yes
ISA04	Security Information Default: empty	10/10	Yes
ISA05	Interchange ID Qualifier Default: "ZZ" = "Mutually Defined"	2/2	Yes
ISA06	Interchange Sender ID	15/15	Yes
ISA07	Interchange ID Qualifier Default: "ZZ" = "Mutually Defined"	2/2	Yes

	Other values e.g.: "01" = "DUNS number"		
ISA08	Interchange Receiver ID	15/15	Yes
ISA09	Interchange Date - YYMMDD	6/6	Yes
ISA10	Interchange Time - HHMM	4/4	Yes
ISA11	Repetition Separator - 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. Example: "*"	1/1	Yes
ISA12	Interchange Control Version Number - Indicates the version of the ISA/IEA envelope	5/5	Yes
ISA13	ISA13 - Interchange Control Number - A control number assigned by the interchange sender. May take any numeric value, but is usually incremented by one for each interchange sent to the same trading partner.	9/9	Yes
ISA14	Acknowledgment Requested Default: "0"	1/1	Yes
ISA15	Test Indicator "T" = Test "P" = Production	1/1	Yes
ISA16	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 Example: ">"	1/1	Yes

Example: ISA*00* *00* *ZZ*SenderID *ZZ*ReceiverID
*130421*1232*U*00402*163100545*0*T*>~

4.3 GS - Functional Group Header

The GS segment indicates the beginning of a functional group and provides control information. The GS segment is ended by the GE segment. One or more GS-GE control loops may be used per transmission by the sender, but at least one is mandatory.

Element	Meaning	Length (min/max)	Required?
GS01	Functional Group Header Code - Same as the Group Type of the included Transaction Sets Example: "PR" = Functional code for "Purchase Order Acknowledgment (855)"	2/2	Yes
GS02	Application Sender's Code	24/24	Yes
GS03	Application Receiver's Code	24/24	Yes
GS04	Date - YYMMDD, or CCYYMMDD as of 4010	8/8	Yes
GS05	Time - HHMM	4/4	Yes
GS06	Group Control Number - Like the ISA control number, is used for audit and to detect duplicates, missing, or out of sequence groups. Most importantly, the 997 Functional Acknowledgement, which acts as a return receipt for the group, references the group control number. May take any numeric value so long as there are no duplicates in the interchange, but is usually incremented by one for each group of this type sent to the same trading partner	9/9	Yes
GS07	Responsible Agency Code – "X" for X12 or "T" for TDCC Default: "X"	1/1	Yes
GS08	Version/Release/Industry Identifier Code - The first six characters specify the X12 version and release, while any of the last six may be used to indicate an Industry standard or Implementation Convention reference. Default: "004010"	5/5	Yes

Example:

GS*PR*SenderID*ReceiverID*20130410*1232*163100545*X*004010~

4.4 ST - Transaction Set Header

This segment indicates the start of a transaction set and assigns a control number. It is ended by the SE segment. Invoices may be transmitted within one ST-SE control loop, but only Invoices may be present within this mandatory segment.

Element	Meaning	Length (min/max)	Required?
ST01	Transaction Set Identifier Code - A three digit numeric code identifying the Transaction Set type, from the Transaction Set table. Must always be "855" for order acknowledgements.	3/3	Yes
ST02	Transaction Set Control Number - May take any alphanumeric value so long as there are no duplicates in the functional group. Usually starts with 0001 in each group, but there are several other numbering schemes in common usage.	4/9	Yes

Example: ST*855*0001~

4.5 BAK - Beginning Segment for Purchase Order Acknowledgment

This segment is used to indicate the beginning of the Purchase Order Acknowledgment Transaction Set and to transmit identifying numbers and dates.

Element	Meaning	Length (min/max)	Required?
BAK01	<p>Transaction Set Purpose Code - Code identifying purpose of transaction set</p> <p>Supported codes:</p> <p>"00" = "Original"</p> <p>"01" = "Cancellation"</p> <p>"04" = "Change"</p> <p>"05" = "Replace"</p> <p>"06" = "Confirmation"</p> <p>"07" = "Duplicate"</p> <p>"ZZ" = "Mutually Defined"</p> <p>(Any other code used will be interpreted as "Original"!))</p>	2/2	Yes

BAK02	<p>Code specifying the type of acknowledgment.</p> <p>Supported codes</p> <p>AC Acknowledge - With Detail and Change</p> <p>AD Acknowledge - With Detail, No Change</p> <p>AT Accepted</p> <p>NA No Acknowledgment Needed</p> <p>RD Reject with Detail</p> <p>RF Reject with Exception Detail Only</p> <p>RJ Rejected - No Detail</p> <p>RN Rejected - Not as Agreed</p> <p>RO Rejected With Counter Offer</p> <p>RV Rejected - Violates Industry Practices</p> <p>ZZ Mutually Defined</p> <p>(Any other code used will be interpreted like "Mutually Defined"!) </p>	2/2	Yes
BAK03	Purchase order number - Identifying number for Purchase Order assigned by the orderer/purchaser	1/22	Yes
BAK04	Purchase order date, expressed as CCYYMMDD where CC represents the first two digits of the calendar year.	8/8	Yes
BAK08	Reference information as defined for a particular Transaction Set - used for reference purposes. HubBroker iPaaS currently interprets this information as the document's order response number. (If not provided then the purchase order number in BAK03 will be taken also as order response number!)	1/80	No
BAK09	Order acknowledgment issue date (If not provided then the purchase order date in BAK04 will be taken also as order acknowledgment issue date!)	8/8	No

Example: BAK*07*AT*987987*20130101*****1234*20130102~

4.6 CUR - Currency

This segment is used to specify the currency (dollars, pounds, euros, etc.) used in a transaction.

Element	Meaning	Length (min/max)	Required?
CUR01	Entity Identifier Code - Code identifying an organizational entity, a physical location, property or an individual Example: "SE" = Selling Party (Must be a valid code but has no impact on processing within HubBroker iPaaS!)	2/3	Yes
CUR02	Code specifying the standard ISO code for country in whose currency the charges are specified	3/3	Yes

Example: CUR*SE*USD~

4.7 REF - Reference Identification

The REF segment is used to specify identifying information/numbers. References such as Purchase Order reference, Contract Reference, Account numbers etc.

Element	Meaning	Length (min/max)	Required?
REF01	Reference Identification Qualifier. Code qualifying the Reference Number. Supported codes: "Q1" = "Quote Number" "11" = "Account Number"	2/3	Yes
REF02	Reference Identification. Reference number or identification number as specified by the Reference Identification Qualifier.	1/30	Yes

Example: REF*11*14779413~

REF*Q1*24779413~

4.8 FOB - F.O.B. Related Instructions

This segment is used to specify transportation instructions relating to shipment.

Element	Meaning	Length (min/max)	Required?
FOB01	Shipment Method of Payment Code - Code identifying payment terms for transportation charges	2/2	Yes
	Supported codes:		
	11 Rule 11 Shipment		
	BP Paid by Buyer		
	CA Advance Collect		
	CC Collect		
	CD Collect on Delivery		
	CF Collect, Freight Credited Back to Customer		
	CN Cost and Freight		
	DE Per Contract		
	DF Defined by Buyer and Seller		
	FO FOB Port of Call		
	HP Half Prepaid		
	MX Mixed		
	NC Service Freight, No Charge		
	NR Non Revenue		
	PA Advance Prepaid		
	PB Customer Pickup/Backhaul		
	PC Prepaid but Charged to Customer		
	PD Prepaid by Processor		
	PE Prepaid and Summary Bill		
	PL Prepaid Local, Collect Outstate		
	PO Prepaid Only		
	PP Prepaid (by Seller)		
	PS Paid by Seller		
	PU Pickup		
	RC Return Container Freight Paid by Customer		
	RF Return Container Freight Free		

	RS Return Container Freight Paid by Supplier TP Third Party Pay WC Weight Condition		
FOBo6	Location Qualifier - Code identifying type of location Example: "ZZ" = Mutually Defined" (Must be a valid code, but has no impact on processing within HubBroker iPaaS!)	1/2	Yes, if FOBo7 is provided.
FOBo7	Description – Can be used for Transport description	1/80	No

Example: FOB*DF*ZZ**01*FCA*ZZ*TermsOfDeliveryDescription free text
note**TransportDescription free text note~

4.9 ITD - Terms of Sale/Deferred Terms of Sale

To specify terms of sale/pament.

Element	Meaning	Length (min/max)	Required?
ITDo1	Terms Type Code - Code identifying type of payment terms Example: "02" = "End of Month"	2/2	No
ITDo2	Terms Basis Date Code Code identifying the beginning of the terms period	1/2	No
ITDo3	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	1/6	No
ITDo4	Terms Discount Due Date Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	8/8	No
ITDo5	Terms Discount Days Due Number of days in the terms discount period by	1/3	No

	which payment is due if terms discount is earned		
ITD06	Terms Net Due Date Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	8/8	No
ITD07	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	1/3	No
ITD12	Description - A free-form description to clarify the related data elements and their content (Payment terms note)	1/80	No
ITD14	Payment Method Type Code Example: "AA" = "Bank Draft"	1/2	No

Example: ITD*02*****Payment terms note**AA~

4.10 CTB - Restrictions/Conditions

The CTB segment specifies restrictions or conditions regarding the ordering as free text with max 60 characters.

Element	Meaning	Length (min/max)	Required?
CTB01	Restrictions/Conditions Qualifier Only supported value: "OR" = "Ordering"	2/3	Yes
CTB02	Description	1/60	Yes

Example: CTB*OR*This is the Order Response Header Note~

4.11 N1 - Name Information

This segment is used to specify information about the buyer party, seller party, ship to party, bill to party, remit to party or ship from party. Used alone, it provides the most efficient method of providing organizational identification. The segment identifies a party by type of organization, name, and code.

Element	Meaning	Length (min/max)	Required?
N101	Entity Identifier Code. Supported codes: "BY" = "Buying Party" "SE" = "Seller" "ST" = "Ship to" "BT" = "Bill to"	2/3	Yes
N102	Name of Entity	1/60	No
N103	Identification Code Qualifier. Code designating the system/method of code structure used for Identification Code Example: "92" = "Assigned by Buyer or Buyer's Agent"	1/2	No
N104	Identification Code. Code identifying a party or other code. Usually an internal ID of the party in the buyer's system.	2/80	No

Example: N1*SE*SellerName1*92*VendorID~

4.12 N2 - Additional Name Information

This segment is be used only to specify additional name information. It is used if the information contained in N1 regarding the name of the entity is not enough.

Element	Meaning	Length (min/max)	Required?
N201	Free-form name	1/60	Yes

Example: N2*SellerName2~

N2*SellerName3~

4.13 N3 - Address Information

This segment is used to specify the location of the named party in N1.

Element	Meaning	Length (min/max)	Required?
N301	Address Information	1/55	Yes

Example: N3*SellerStreet 12~

4.14 N4 - Geographic Location

This segment is used to specify the location of the named party from N1.

Element	Meaning	Length (min/max)	Required?
N401	City Name	2/30	No
N402	State or Province Code	2/2	No
N403	Postal Code	3/15	No
N404	Country Code	2/3	No

Example: N4*SellerCity*CA*12345*US~

4.15 NX2 - Location ID Component

This segment is used to define types and values of a geographic location.

Element	Meaning	Length (min/max)	Required?
NX201	Address Component Qualifier Supported Codes: "05" = "P.O. Box Number" "12" = "Building Name" "20" = "County" "32" = "Floor" "35" = "Room" "53" = "Postal District"	2/2	Yes

NX202	Address Information	1/55	Yes
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Example: NX2*12*First Building 11~
NX2*32*1th Floor~
NX2*35*1st Room~

4.16 PER - Administration Communication Contact

This segment is used to identify a person or office to which administrative communications should be directed.

Element	Meaning	Length (min/max)	Required?
PER01	Contact Function Code Only supported code currently: “OC” = “Order Contact”	2/2	Yes
PER02	Name	1/60	No
PER03	Communication Number Qualifier – Can be specified as ‘EM’ for email, ‘TE’ for telephone or ‘FX’ for Fax	2/2	No
PER04	Communication Number – Value according to the qualifier above	1/256	No
PER05	Communication Number Qualifier – Can be specified as ‘EM’ for email, ‘TE’ for telephone or ‘FX’ for Fax	2/2	No
PER06	Communication Number – Value according to the qualifier above	1/256	No
PER07	Communication Number Qualifier – Can be specified as ‘EM’ for email, ‘TE’ for telephone or ‘FX’ for Fax	2/2	No
PER08	Communication Number – Value according to the qualifier above	1/256	No

Example:

PER*OC*SellerOrderContactName*TE*+4681234567*EM*SellerOrderContact@seller.com*FX*+4681234567

4.17 PO1 - Baseline Item Data (Purchase Order Item Data)

This segment is mandatory and is used to specify basic and most frequently used line item data.

Element	Meaning	Length (min/max)	Required?
PO101	Alphanumeric characters assigned for differentiation within a transaction set Example: "0000000001" or "1" identifying first line item	1/20	No
PO102	Quantity ordered	1/15	No
PO103	Unit of measurement Example: "EA" = "Each"	2/2	No
PO104	Unit Price per 1 item	1/17	No
PO106	Product/Service ID Qualifier Example: "VN" = "Vendor's / Seller's Item Number" "VP" = "Vendor's / Seller's Part Number"	2/2	No
PO107	Product/Service ID (Seller's Part Number)	1/48	No
PO108	Product / Service ID Qualifier Example: "BP" = "Buyer's Part Number"	2/2	No
PO109	Product / Service ID (Buyer's Part Number)	1/48	No
PO110	Product/Service ID Qualifier Example: "MG" = "Manufacturer's Part Number"	2/2	No
PO111	Product / Service ID (Manufacturer's Part Number)	1/48	No

Example:

PO1*0000000001*1.000*EA*59.250000**VP*ALI0767000100*BP*G0248768*MG*0767
000 100~

4.18 CUR - Currency

This segment is used to specify the currency that applies to the whole order.

Element	Meaning	Length (min/max)	Required?
CUR01	Code identifying an organizational entity, a physical location, property or an individual. Default: "BY" = "Buyer"	2/3	Yes
CUR02	Standard ISO currency code Examples: "USD", "EUR"	3/3	Yes

Example: CUR*BY*USD

4.19 CTP - Pricing Information

This segment is used to specify information about the price and quantity of the products or services in the order if the PO1 segment is not sufficient due to the complexity of price and quantity information.

Element	Meaning	Length (min/max)	Required?
CTPo3	Unit Price. Price per unit of product, service, commodity, etc.	1/17	No
CTPo4	Quantity: Numeric value of quantity which the Unit Price applies to.	1/15	No
CTPo5	Composite Unit of Measure. UoM Code which the Quantity in CTPo4 refers to. Example: "EA" = "Each"	2/2	No
CTPo8	Monetary Amount. The total price amount of the line item.	1/18	No
CTP11	Multiple Price Quantity. Quantity of units for a given price, e.g., 3 for \$10.00.	1/2	No

Example: CTP***59.250000*1.000*EA***59.250000~

4.20 PID - Product/Item Description

The PID segment is used to describe a product or process in coded or free-form format.

Element	Meaning	Length (min/max)	Required?
PID01	Item Description Type (Must be a valid code but has no impact on processing within HubBroker iPaaS!)	1/1	Yes
PID05	Item Description	1/80	No

Example: PID*F****ITEM DESCRIPTION 1~
 PID*F****ITEM DESCRIPTION 2~

4.21 REF - Reference Information

To specify identifying information.

Element	Meaning	Length (min/max)	Required?
REF01	Reference Identification Qualifier Examples: "PO" = "Purchase Order Number" "LI" = "Line Item Identifier (Seller's)"	2/3	Yes
REF02	Reference Identification	1/80	Yes

Example: REF*PO*987987~

4.22 FOB - F.O.B. Related Instructions

This segment is used to specify transportation instructions relating to shipment per line item.

Element	Meaning	Length (min/max)	Required?
FOB01	Shipment Method of Payment Code - Code identifying payment terms for transportation charges Supported codes: 11 Rule 11 Shipment BP Paid by Buyer CA Advance Collect	2/2	Yes

	CC Collect CD Collect on Delivery CF Collect, Freight Credited Back to Customer CN Cost and Freight DE Per Contract DF Defined by Buyer and Seller FO FOB Port of Call HP Half Prepaid MX Mixed NC Service Freight, No Charge NR Non Revenue PA Advance Prepaid PB Customer Pickup/Backhaul PC Prepaid but Charged to Customer PD Prepaid by Processor PE Prepaid and Summary Bill PL Prepaid Local, Collect Outstate PO Prepaid Only PP Prepaid (by Seller) PS Paid by Seller PU Pickup RC Return Container Freight Paid by Customer RF Return Container Freight Free RS Return Container Freight Paid by Supplier TP Third Party Pay WC Weight Condition		
FOB06	Location Qualifier - Code identifying type of location Example: "ZZ" = Mutually Defined" (Must be a valid code, but has no impact on processing within HubBroker iPaaS!)	1/2	Yes, if FOB07 is provided.
FOB07	Description – Can be used for Transport	1/80	No

	description		
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Example: FOB*DF*ZZ**01*FCA*ZZ*TermsOfDeliveryDescription free text
note**TransportDescription free text note~

4.23 ACK - Line Item Acknowledgment

To acknowledge the ordered quantities and specify the ready date for a specific line item.

Element	Meaning	Length (min/max)	Required?
ACK01	Code specifying the action taken by the seller on a line item requested by the buyer Supported codes:	2/2	Yes
	AA Item Accepted		
	AC Item Accepted		
	AR Item Accepted		
	BP Item Accepted		
	DR Item Accepted		
	IA Item Accepted		
	IB Accepted With Ammendment		
	IC Accepted With Ammendment		
	ID Item Not Accepted By The Seller		
	IE Accepted With Ammendment		
	IF Item on Hold		
	IH Item on Hold		
	IP Accepted With Ammendment		
	IQ Accepted With Ammendment		
	IR Item Not Accepted By The Seller		
	IS Accepted With Ammendment		
	IW Item on Hold		
	R1 Item Not Accepted By The Seller		
	R2 Item Not Accepted By The Seller		
R3 Item Not Accepted By The Seller			
R4 Item Not Accepted By The Seller			

	R5 Item Not Accepted By The Seller R6 Item Not Accepted By The Seller R7 Item Not Accepted By The Seller R8 Item Not Accepted By The Seller SP Accepted With Ammendment Note! If there are multiple ACK segments for one line item then the ACK01 element in the first ACK segment is used to indicate whether the line item as such is accepted, not accepted etc. Multiple ACK segments per line item can be provided to express partial deliveries.		
ACK02	Quantity of the items that the date in ACK05 applies for.	1/15	No
ACK04	Date/Time Qualifier - Code specifying type of date or time, or both date and time. Supported codes: “002” = “Delivery requested” “070” = “Scheduled for Delivery” “072” = “Scheduled for Delivery”	3/3	No
ACK05	Date	8/8	No

Example: ACK*IA*1*EA*070*20130201~

4.24 N9 - Extended Reference Information

This segment is used to transmit additional information as specified by the Reference Identification Qualifier.

Element	Meaning	Length (min/max)	Required?
N901	Code identifying the Reference Identification.	2/3	Yes
N902	Reference Identification. Used to specify the type of reference that is provided in N903.	1/30	Yes

Example: N9*CT*ContractNumber~

4.25 N1 - Name Information

This segment is used to specify information about the buyer party, seller party, ship to party, bill to party, remit to party or ship from party. Used alone, it provides the most efficient method of providing organizational identification. The segment identifies a party by type of organization, name, and code.

Element	Meaning	Length (min/max)	Required?
N101	Entity Identifier Code. Supported codes: "DA" = "Delivery Address"	2/3	Yes
N102	Name of Entity	1/60	No
N103	Identification Code Qualifier. Code designating the system/method of code structure used for Identification Code Example: "92" = "Assigned by Buyer or Buyer's Agent"	1/2	No
N104	Identification Code. Code identifying a party or other code. Usually an internal ID of the party in the buyer's system.	2/80	No

Example: N1*DA*DeliveryAddress Name1*92*AddressID~

4.26 N4 - Geographic Location

This segment is used to specify the location of the named party from N1.

Element	Meaning	Length (min/max)	Required?
N401	City Name	2/30	No
N402	State or Province Code	2/2	No
N403	Postal Code	3/15	No
N404	Country Code	2/3	No

Example: N4****US~

4.27 CTT - Transaction Totals

To transmit a total for the number of line items for elements in the transaction set, we use this segment.

Element	Meaning	Length (min/max)	Required?
CTT01	Number of Line Items -Total number of Line Items in the transaction set	1/6	Yes
CTT07	Description - A free-form description to clarify the related data elements and their content (OrderResponse Summary Note)	1/80	No

Example: CTT*1*****OrderResponse Summary Freetxt Note~

4.28 AMT - Monetary Amount

This segment contains information regarding the total monetary amount for the invoice.

Element	Meaning	Length (min/max)	Required?
AMT01	Amount Qualifier Code Supported codes: “TT” = “Total Transaction Amount”	1/3	Yes
AMT02	Monetary Amount according to the qualifier code supplied above.	1/18	Yes

Example: AMT*TT*59.250000~

4.29 SE - Transaction Set Trailer

This segment is used 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	Meaning	Length (min/max)	Required?
SE01	Number of Included Segments	3/3	Yes
SE02	Transaction Set Control Number	4/9	Yes

Example: SE*54*0001~

4.30 GE - Functional Group Trailer

This segment indicates the end of a functional group and provides control information. It ends the Functional Envelope.

Element	Meaning	Length (min/max)	Required?
GE01	Number of included Transaction Sets - This is used for message integrity	1/6	Yes
GE02	Group Control Number - Must match the group control number of the GS segment	1/9	Yes

Example: GE*1*1403~

4.31 IEA - Interchange Control Trailer

This segment defines the end of an interchange of one or more functional groups and interchange-related control segments.

Element	Meaning	Length (min/max)	Required?
IEA01	Number of Included Functional Groups - This is used for message integrity	1/5	Yes
IEA02	Interchange Control Number - Must match the control number in the IEA	9/9	Yes

Example: IEA*1*000001403~

5. Example

ISA*00*0123456789*00*0123456789*08*SELLER678912345*08*BUYER5678912345*030627*1304*U*00401*00001403*0*P*>~

GS*PO*8019721193*1234567890*20030627*1304*1403*X*004010~

ST*855*0001~

BAK*07*AT*987987*20130101*****1234*20130102~

CUR*SE*USD~

REF*11*14779413~

REF*Q1*24779413~

FOB*DF*ZZ**01*FCA*ZZ*TermsOfDeliveryDescription free text note**TransportDescription free text note~

ITD*02*****Payment terms note**AA~

CTB*OR*This is the Order Response Header Note~

N1*SE*SellerName1*92*VendorID~

N2*SellerName2~

N2*SellerName3~

N3*SellerStreet 12~

N3*House number 1~

N4*SellerCity*CA*12345*US~

NX2*05*900.001~

NX2*12*First Building 11~

NX2*32*1th Floor~

NX2*35*1st Room~

PER*OC*SellerOrderContactName*TE*+4681234567*EM*SellerOrderContact@seller.com*FX*+4681234567~

N1*BY*BuyerName1*92*1619~

N2*BuyerName2~

N2*BuyerName3~

N3*BuyerStreet 12~

N4*BuyerCity*CA*12345*US~

PER*OC*RequisitionerName*EM*Requisitioner@buyer.com*TE*+46081234567*FX*+46081234111*Requisitioner ID~

N1*ST*ShipToName1*92*8628~

N2*ShipToName2~

N2*ShipToName3~

N3*ShipToStreet 12~

N4*ShipToCity*CA*12345*US~

NX2*12*First Building 11~

NX2*32*1th Floor~

NX2*35*1st Room~

PER*OC*GoodsReceiverName*EM*GoodsReceiver@buyer.com*TE*+46081234567*FX*+46081234111*GoodsReceiverID~

N1*BT*BillToName1*92*1619~

N2*BillToName2~

N2*BillToName3~

N3*BillToStreet 12~

N4*BillToCity*CA*12345*US~

PER*OC*BillingContactName*EM*BillingContact@buyer.com*TE*+46081234567*FX*+46081234111~

PO1*0000000001*1.000*EA*59.250000**VP*ALI0767000100*BP*G0248768*MG*0767 000 100~

CUR*BY*USD~

PID*F****ITEM DESCRIPTION 1~

PID*F****ITEM DESCRIPTION 2~

REF*PO*987987~

FOB*DF*ZZ*TermsOfDeliveryDescription free text note***ZZ*TransportDescription free text note~

ACK*IA*1*EA*070*20130201~

N9*CT*ContractNumber~

N1*DA*DeliveryAddress Name1*92*AddressID~

N4****US~

CTT*1*****OrderResponse Summary Freetxt Note~

AMT*TT*59.250000~

SE*53*0001~

GE*1*1403~

IEA*1*000001403~