



855 Purchase Order Acknowledgment

X12/V4010/855: 855 Purchase Order Acknowledgment

Version: 1.5 PO Revision

Company:	iTradeNetwork
Publication:	7/18/2018

Notes

This version includes updated notes on ISA/GS ID's, additional REF qualifier, additional code for TD5, PO103 / PO105 change to mandatory, notes added to PO1 segment for item cancellations and substitutions, notes added to the ACK segment, additional N1 in the detail area.

855 Purchase Order Acknowledgment

Functional Group=PR

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Acknowledgment Transaction Set (855) 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 a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

Not Defined:

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Must use
050	REF	Reference Identification	O	>1			Must use
080	FOB	F.O.B. Related Instructions	O	1			Must use

LOOP ID - SAC

25

120	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
150	DTM	Date/Time Reference	O	10			Must use
240	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Must use

LOOP ID - N9

1

280	N9	Reference Identification	O	1			Used
290	MSG	Message Text	O	30			Used

LOOP ID - N1

8

300	N1	Name	O	1			Used
320	N3	Address Information	O	2			Used
330	N4	Geographic Location	O	1			Used
350	PER	Administrative Communications Contact	O	>1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - PO1</u>					<u>200</u>		
010	PO1	Baseline Item Data	M	1			Must use
030	PO3	Additional Item Detail	O	25			Used
049	MEA	Measurements	O	1			Used
<u>LOOP ID - PID</u>					<u>1</u>		
050	PID	Product/Item Description	O	1			Used

<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>
100	REF	Reference Identification	O	>1			Used
LOOP ID - SAC					25		
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - ACK					104		
270	ACK	Line Item Acknowledgment	O	1			Used
LOOP ID - N9					1		
350	N9	Reference Identification	O	1			Used
360	MSG	Message Text	O	30			Must use
LOOP ID - N1					200		
370	N1	Name	O	1			Used
390	N3	Address Information	O	2			Used
400	N4	Geographic Location	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>
LOOP ID - CTT					1		
010	CTT	Transaction Totals	O	1		N3/010	Used
030	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

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

Notes:

3/010 The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

Change History:

Change history of Inbound 855 from version 1.4 (December 5, 2008) to version 1.5 (July 18, 2018).

- . Notes added for ISA/GS ID's, production ISA and GS ID updated..
- . P8 qualifier added to header REF for pickup number. Used when pickup number differs from sales order number.
- . Code added for TD5.
- . PO103 Quantity UOM / PO105 Price UOM changed from optional to mandatory.
- . Notes added to PO1 segment for item cancellations and substitutions.
- . Notes added to ACK segment.
- . N1 segment added to detail area for line item ship from locations. Used for multiple ship from locations.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 14

User Option (Usage): Must use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information

Code Name

00 No Authorization Information Present (No Meaningful Information in I02)

ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
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Description: Code to identify the type of information in the Security Information

Code Name

00 No Security Information Present (No Meaningful Information in I04)

ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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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.

ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
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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: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

User Note 1: ISA07 Qualifier = '08' for testing, '01' for production.

ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
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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

User Note 1: iTN's Production ID - 109563165

iTN's Test ID - 109563165

ISA09	I08	Interchange Date	M	DT	6/6	Must use
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Description: Date of the interchange

ISA10	I09	Interchange Time	M	TM	4/4	Must use
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Description: Time of the interchange

ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
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<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 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.				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments Code Name 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1) Code Name 0 No Acknowledgment Requested				
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information Code Name 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 User Note 1: <i>iTradeNetwork uses the '@' symbol on its outbound transactions.</i>				

User Note 1:

Element separator is ''. Segment separators are '~'. Composite delimiter is '^'. Any deviation from these settings must be pre-approved by iTradeNetwork before commencing testing.*

User Note 2:

iTradenetwork's ISA Qualifier and ID may be dependent on the Communication profile used.

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						
Code Name						
PR Purchase Order Acknowledgement (855)						
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						
User Note 1: iTN's Production ID - 109563165						
iTN's Test ID - 109563165						
GS04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
GS05	337	Time	M	TM	4/8	Must use
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
GS06	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
Code Name						
X Accredited Standards Committee X12						
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed						

<u>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>				
		004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

Semantics:

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

Comments:

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

User Note 1:

iTradenetwork's GS ID may be dependent on the Communication profile used.

ST Transaction Set Header

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

User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BAK Beginning Segment for Purchase Order Acknowledgment

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

Purpose: To indicate the beginning of the Purchase Order Acknowledgment 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>
BAK01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code Name

00 Original
01 Cancellation

User Note 1:

Code '01' will cause the order to be cancelled and where applicable the buyer notified.

05 Replace

User Note 1:

Based upon the setup agreement, iTradeNetwork may support multiple PO confirmations. PO confirmation replacements need to be agreed upon and pre-configured. PO confirmations after the original PO confirmation are considered replacements.

BAK02	587	Acknowledgment Type	M	ID	2/2	Must use
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Description: Code specifying the type of acknowledgment

Code Name

AC Acknowledge - With Detail and Change
AD Acknowledge - With Detail, No Change
AT Accepted

User Note 1:

iTN treats an 'AT' code the same as an 'AC' code.

RD Reject with Detail

BAK03	324	Purchase Order Number	M	AN	1/22	Must use
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Description: Identifying number for Purchase Order assigned by the orderer/purchaser

BAK04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

BAK05	328	Release Number	O	AN	1/30	Used
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Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

User Note 1: *Can be used for Sales order number if sales order number is not sent in an*

REF segment with the 'VN' qualifier. REF with a 'VN' qualifier takes precedence.

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAK08	127	Reference Identification	O	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
		User Note 1: <i>Can be used for Sales order number if sales order number is not sent in an REF segment with the 'VN' qualifier. REF with a 'VN' qualifier takes precedence.</i>				
BAK09	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				

Semantics:

1. BAK04 is the date assigned by the purchaser to purchase order.
2. BAK09 is the date assigned by the sender to the acknowledgment.

REF Reference Identification

Pos: 050	Max: >1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

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

Description: Code qualifying the Reference Identification

Code Name

CB Combined Shipment

User Note 1:

PO Link number used for combined shipments.

CR Customer Reference Number

User Note 1:

Customer Reference Number is an additional Order Control Number that is assigned at the Buyer's Corporate level.

FI File Identifier

User Note 1:

File Identifier is an additional Order Control number that is assigned for a specific product category by the Buyer.

IL Internal Order Number

User Note 1:

The iTradeNetwork order number is required. The supplier must send a REF segment with an 'IL' qualifier and the value provided on the purchase order.

L7 Customer's Release Number

Description: A number which uniquely identifies a release against the customer's purchase order

OP Original Purchase Order

User Note 1:

Original customer order number.

P8 Pickup Reference Number

User Note 1:

To be used when header pickup number differs from sales order number. If not sent then sales order number is used for pickup number.

PL Price List Number

User Note 1:

Price Bracket ID.

VN Vendor Order Number

User Note 1:

MANDATORY: The vendor sales order number must be provided.

YB Revision Number

User Note 1:

MANDATORY: The vendor's order revision must be supplied. This must be a numeric value. It must be incremented for each new transaction for an order. It

Code Name

need not be contiguous from transaction to transaction, but must be monotonically increasing.

ZI Reference Version Number

User Note 1:

The buyer's order revision number.

REF02 127 **Reference Identification** X AN 1/30 Must use

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

FOB F.O.B. Related Instructions

Pos: 080	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: To specify transportation instructions relating to shipment

Element Summary:

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

Description: Code identifying payment terms for transportation charges

Code Name

BP Paid by Buyer

User Note 1:

The buyer agrees to the transportation payment term requiring the buyer to pay transportation charges to a specified location (origin or destination location).

CC Collect

PB Customer Pick-up/Backhaul

PC Prepaid but Charged to Customer

PE Prepaid and Summary Bill

PP Prepaid (by Seller)

PU Pickup

TP Third Party Pay

Semantics:

1. FOB01 indicates which party will pay the carrier.

SAC Service, Promotion, Allowance, or Charge Information

Pos: 120	Max: 1
Heading - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
Description: Code which indicates an allowance or charge for the service specified						
User Note 1: Only allowances are charges are allowed. Informational only SAC are not allowed.						
Code Name						
A Allowance						
C Charge						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
Description: Code identifying the service, promotion, allowance, or charge						
User Note 1: Accepted codes are dependant upon the trading relationship. Please confirm code acceptance with trading partner.						
All valid standard codes are used.						
SAC03	559	Agency Qualifier Code	X	ID	2/2	Used
Description: Code identifying the agency assigning the code values						
Code Name						
AB Assigned by Buyer						
AS Assigned by Seller						
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	Recommended
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.						
SAC07	332	Percent	X	R	1/6	Used
Description: Percent expressed as a percent						
User Note 1: Informational only. Total amount or rate x quantity are used to determine the amount of the allowance or charge.						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC08	118	Rate	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u> <u>Name</u>				
		CA Case				
		DO Dollars, U.S.				
		EA Each				
		KG Kilogram				
		LB Pound				
SAC10	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SAC11	380	Quantity	O	R	1/15	Used
		Description: Numeric value of quantity				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge				
		<u>Code</u> <u>Name</u>				
		01 Bill Back				
		02 Off Invoice				
		06 Charge to be Paid by Customer				
SAC13	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				
SAC14	770	Option Number	O	AN	1/20	Used
		Description: A unique number identifying available promotion or allowance options when more than one is offered				
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. P0304 - If either SAC03 or SAC04 is present, then the other is required.
2. P0910 - If either SAC09 or SAC10 is present, then the other is required.
3. C1110 - If SAC11 is present, then SAC10 is required.
4. C1413 - If SAC14 is present, then SAC13 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05 or SAC08 is required.

2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with 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.

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.

User Note 1:

Trading Partners must send this information if it affects pricing and completeness of the transaction.

User Note 2:

Only allowances and charges are supported. Informational only SAC are not allowed.

User Note 3:

SAC total amount OR rate x quantity must be included to determine the total amount of the allowance or charge.

DTM Date/Time Reference

Pos: 150	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

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

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

User Note 1: Suppliers are required to send a date to indicate a confirmed delivery/ship/pickup date.

Code Name

- 017 Estimated Delivery
- 067 Current Schedule Delivery
- 068 Current Schedule Ship
- 118 Requested Pick-up

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

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: To specify the carrier and sequence of routing and provide transit time 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>
TD504	91	Transportation Method/Type Code	X	ID	1/2	Must use

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

Code Name

- H Customer Pickup
- M Motor (Common Carrier)
- T Best Way (Shippers Option)

Comments:

- 1.

N9 Reference Identification

Pos: 280	Max: 1
Heading - Optional	
Loop: N9	Elements: 2

User Option (Usage): Used

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	Must use

Description: Code qualifying the Reference Identification

Code Name

L1 Letters or Notes

N902	127	Reference Identification	X	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1: *The Reference Identification (N902) must be 'GEN' to identify that notes exist in the following MSG segments.*

Semantics:

1.

MSG Message Text

Pos: 290	Max: 30
Heading - Optional	
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	Must use

Description: Free-form message text

N1 Name

Pos: 300	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

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

Code Name

- BO Broker or Sales Office
- BT Bill-to-Party

Description: Suppliers must send the 'BT' qualifier to indicate the Bill To Address. N103 and N104 are required.

User Note 1:

Suppliers must send the 'BT' qualifier to indicate the Bill To Address. N103 and N104 are required unless accurate location information is registered on iTradeNetwork and uniquely identified with the N104 identifier.

- BY Buying Party (Purchaser)
- CA Carrier

User Note 1:

The carrier phone number is entered in the PER segment.

- OB Ordered By

User Note 1:

Original ordering party.

- PW Pick Up Address
- SF Ship From

User Note 1:

Suppliers must send the 'SF' qualifier to indicate the Ship From Address. N103 and N104 are required unless accurate location information is registered on iTradeNetwork and uniquely identified with the N104 identifier.

- ST Ship To

Description: Suppliers must send the 'ST' qualifier to indicate the Ship To Address. N103 and N104 are required.

User Note 1:

Suppliers must send the 'ST' qualifier to indicate the Ship To Address. N103 and N104 are required unless accurate location information is registered on iTradeNetwork and uniquely identified with the N104 identifier.

- VN Vendor

Description: The supplier must send the 'VN' qualifier to identify themselves. N103 and N104 are required.

User Note 1:

It is mandatory that suppliers send the 'VN' qualifier with the assigned network identifier for the supplier.

N102	93	Name	X	AN	1/60	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		1 D-U-N-S Number, Dun & Bradstreet				
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
		54 Warehouse				
		91 Assigned by Seller or Seller's Agent				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	X	AN	2/80	Must use
		Description: Code identifying a party or other code				
		User Note 1: Configurable proprietary ID or corporate DUNS number may be transmitted.				

Syntax Rules:

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

Comments:

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

N3 Address Information

Pos: 320	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	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				
		User Note 1: /Transaction/EntityInfo/Entity/StreetAddress2				

N4 Geographic Location

Pos: 330	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	O	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Must use
		Description: Code identifying the country				

PER Administrative Communications Contact

Pos: 350	Max: >1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code Name				
		CN		General Contact		
PER02	93	Name	O	AN	1/60	Used
		Description: Free-form name				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number				
		All valid standard codes are used.				
PER04	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.

User Note 1:

This segment is used in the N1 Loop for a specific purpose declared in the N1-01 element.

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 21

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item data

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>
PO101	350	Assigned Identification	M	N	1/9	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1: *This is the buyer line item identifier assigned on the purchase order and must be maintained and returned on all transmissions.*

PO102	330	Quantity Ordered	X	R	1/15	Must use
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Description: Quantity ordered

PO103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
-------	-----	---	---	----	-----	----------

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

User Note 1: *Code usage dependent upon trading partner acceptance.*

Code Name

- BG Bag
- BX Box
- CA Case
- CN Can
- CS Cassette
- DR Drum
- EA Each
- GA Gallon
- KG Kilogram
- LB Pound
- OZ Ounce - Av
- PA Pail
- PC Piece
- PK Package
- TE Tote
- UN Unit

PO104	212	Unit Price	X	R	1/17	Must use
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Description: Price per unit of product, service, commodity, etc.

PO105	639	Basis of Unit Price Code	M	ID	2/2	Must use
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Description: Code identifying the type of unit price for an item

User Note 1: *Price UOM and quantity UOM must be consistent.*

Code Name

- PE Price per Each
- PK Price per Kilogram

		<u>Code</u>	<u>Name</u>				
		PP	Price per Pound				
PO106	235	Product/Service ID Qualifier		X	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		UA	U.P.C./EAN Case Code (2-5-5)				
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit							
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
PO107	234	Product/Service ID		X	AN	1/48	Used
Description: Identifying number for a product or service							
PO108	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)							
User Note 1: Supplier must send Supplier Product Code with one of the following qualifiers: VN, VP or MG.							
		<u>Code</u>	<u>Name</u>				
		MG	Manufacturer's Part Number				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
PO109	234	Product/Service ID		X	AN	1/48	Used
Description: Identifying number for a product or service							
PO110	235	Product/Service ID Qualifier		X	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		PI	Purchaser's Item Code				
PO111	234	Product/Service ID		X	AN	1/48	Used
Description: Identifying number for a product or service							
PO116	235	Product/Service ID Qualifier		X	ID	2/2	Used
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		<u>Code</u>	<u>Name</u>				
		CH	Country of Origin Code				
PO117	234	Product/Service ID		X	AN	1/48	Used
Description: Identifying number for a product or service							

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO118	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)				
		Code Name				
		CH Country of Origin Code				
PO119	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO120	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)				
		Code Name				
		CH Country of Origin Code				
PO121	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO122	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)				
		Code Name				
		CH Country of Origin Code				
PO123	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO124	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)				
		Code Name				
		CH Country of Origin Code				
PO125	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				

Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107 is present, then the other is required.
4. P0809 - If either PO108 or PO109 is present, then the other is required.
5. P1011 - If either PO110 or PO111 is present, then the other is required.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.

User Note 1:

The PO106-PO111 segments are the only elements that can be used to designate item numbers. At least one matching pair within PO106-PO111 is required to represent supplier item number (qualifiers VP, VN or MG). Only one identifier qualified with UK, UA or UP should be provided. Only one identifier qualified with VP, VN or MG should be provided.

User Note 2:

To cancel a line item the PO1 segment can be omitted for the item. Alternatively, the ACK segment can be used with an IR qualifier to cancel a line.

User Note 3:

Item substitutions can be made by returning the PO1 segment with the new Vendor Item Number. Buyer line item identifier and either Purchaser's item code or unique line item identifier are required. Substitutions and partial substitutions require additional configuration.

PO3 Additional Item Detail

Pos: 030	Max: 25
Detail - Optional	
Loop: PO1	Elements: 4

User Option (Usage): Used

Purpose: To specify additional item-related data involving variations in normal price/quantity structure

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>
PO301	371	Change Reason Code	M	ID	2/2	Must use

Description: Code specifying the reason for price or quantity change

Code Name

AQ Alternate Quantity and Unit of Measure
PS Product/Services ID Change

User Note 1:

Select trading partners use 'PS' code. Use ACK segment for substitutions.

PO306	380	Quantity	M	R	1/15	Must use
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Description: Numeric value of quantity

PO307	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name

CA Case

PO308	352	Description	O	AN	1/80	Used
-------	-----	-------------	---	----	------	------

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. L040305 - If PO304 is present, then at least one of PO303 or PO305 is required.

Comments:

1. Some examples of price/quantity variations are: price in different units from the PO1 segment, price changes by date, or price changes by quantity (break and level).
2. PO307 defines the unit of measure for PO306.

User Note 1:

PO3 segment is for future use only.

MEA Measurements

Pos: 049	Max: 1
Detail - Optional	
Loop: PO1	Elements: 3

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

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>
MEA02	738	Measurement Qualifier	O	ID	1/3	Must use

Description: Code identifying a specific product or process characteristic to which a measurement applies

Code Name

G Gross Weight
T Tare Weight
WT Weight

MEA03	739	Measurement Value	X	R	1/20	Must use
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Description: The value of the measurement

MEA04	C001	Composite Unit of Measure	X	Comp		Must use
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Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name

KG Kilogram
LB Pound

Semantics:

1. MEA04 defines the unit of measure for MEA03.

PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code Name

F Free-form

PID05	352	Description	X	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

REF Reference Identification

Pos: 100	Max: >1
Detail - Optional	
Loop: PO1	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	Must use

Description: Code qualifying the Reference Identification

Code Name

BD Bid Number

User Note 1:

If REF01 is 'BD', then REF02 will be the Bid Number.

WM Weight Agreement Number

User Note 1:

If REF01 is 'WM', then REF02 will be the Price Bracket.

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

User Note 1: *If REF01 is 'WM', then REF02 is the Price Bracket. If REF01 is 'BD', then REF02 is the Bid Number.*

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130	Max: 1
Detail - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
Description: Code which indicates an allowance or charge for the service specified						
Code Name						
A Allowance						
C Charge						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	Must use
Description: Code identifying the service, promotion, allowance, or charge						
User Note 1: Accepted codes are dependant upon the trading relationship. Please confirm code acceptance with trading partner.						
All valid standard codes are used.						
SAC03	559	Agency Qualifier Code	X	ID	2/2	Used
Description: Code identifying the agency assigning the code values						
Code Name						
AB Assigned by Buyer						
AS Assigned by Seller						
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	Recommended
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						
Code Name						
1 Item List Cost						
2 Item Net Cost						
3 Discount/Gross						
4 Discount/Net						
5 Base Price per Unit						
6 Base Price Amount						

		<u>Code</u>	<u>Name</u>				
		7	Base Price Amount Less Previous Discount				
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					
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		<u>Code</u>	<u>Name</u>				
		CA	Case				
		DO	Dollars, U.S.				
		EA	Each				
		KG	Kilogram				
		LB	Pound				
SAC10	380	Quantity		X	R	1/15	Used
		Description: Numeric value of quantity					
SAC11	380	Quantity		O	R	1/15	Used
		Description: Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge					
		<u>Code</u>	<u>Name</u>				
		01	Bill Back				
		02	Off Invoice				
		06	Charge to be Paid by Customer				
SAC13	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					
SAC14	770	Option Number		O	AN	1/20	Used
		Description: A unique number identifying available promotion or allowance options when more than one is offered					
SAC15	352	Description		X	AN	1/80	Recommended
		Description: A free-form description to clarify the related data elements and their content					

Syntax Rules:

1. P0304 - If either SAC03 or SAC04 is present, then the other is required.
2. P0910 - If either SAC09 or SAC10 is present, then the other is required.
3. C1110 - If SAC11 is present, then SAC10 is required.
4. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.

5. C1413 - If SAC14 is present, then SAC13 is required.

Semantics:

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

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.

User Note 1:

Trading Partners must send this information if it affects pricing and completeness of the transaction.

User Note 2:

Only allowances and charges are supported. Informational only SAC are not allowed.

User Note 3:

SAC total amount OR rate x quantity must be included to determine the total amount of the allowance or charge.

ACK Line Item Acknowledgment

Pos: 270	Max: 1
Detail - Optional	
Loop: ACK	Elements: 20

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ACK01	668	Line Item Status Code	M	ID	2/2	Must use

Description: Code specifying the action taken by the seller on a line item requested by the buyer

Code Name

- IA Item Accepted
- IC Item Accepted - Changes Made
- ID Item Deleted
- IR Item Rejected
- IS Item Accepted - Substitution Made

ACK02	380	Quantity	X	R	1/15	Must use
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Description: Numeric value of quantity

ACK03	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code Name

- CA Case
- KG Kilogram
- LB Pound

ACK07	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)

Code Name

- MG Manufacturer's Part Number
- VN Vendor's (Seller's) Item Number
- VP Vendor's (Seller's) Part Number

ACK08	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

User Note 1: This is the supplier's product code for the item being referenced by this ACK segment.

ACK09	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)

User Note 1: /Transaction/TransactionDetail/LinItem/LinItemAcknowledgement/UPCType

<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 Name</u>				
		UA U.P.C./EAN Case Code (2-5-5)				
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit				
		UP U.P.C. Consumer Package Code (1-5-5-1)				
ACK10	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: This is the supplier's GTIN/UPC for the item being referenced by this ACK segment.				
ACK11	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code Name</u>				
		PI Purchaser's Item Code				
ACK12	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: This is the buyer's product code for the item being referenced by this ACK segment.				
ACK13	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code Name</u>				
		PL Purchaser's Order Line Number				
ACK14	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: This is the buyer's line number as transmitted on the purchase order (PO101 of the 850) that is being referenced by this ACK segment. This is a unique value that remains consistent for an item throughout the lifecycle of the order. This is mandatory to facilitate the move, sub, split logic. If this value is not available, a best effort is made to uniquely identify the line based upon other parameters. Some scenarios may exist where the move, sub or split operation cannot be completed correctly without the buyer line number.				
ACK15	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code Name</u>				
		VS Vendor's Supplemental Item Number				
ACK16	234	Product/Service ID	X	AN	1/48	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: Identifying number for a product or service				
		User Note 1: <i>This is the supplier's line number for the item being referenced by this ACK segment. This is a unique value that remains constant for a line item throughout the lifecycle of the order.</i>				
ACK17	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)				
		Code Name				
		PO Purchase Order Number				
ACK18	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: <i>This is the buyer's purchase order number that this ACK segment is referencing. This is mandatory to facilitate the move, sub, split logic when the ACK segment is referring to an order other than the one this 855 transaction belongs to. An exception to this rule exists for a split-to operation when the purchase order number is not available.</i>				
ACK19	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)				
		Code Name				
		VO Vendor's Order Number				
ACK20	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: <i>This is the supplier's sales order number that this ACK segment is referencing. This is mandatory to facilitate the move, sub, split logic when the ACK segment is referring to an order other than the one this 855 transaction belongs to.</i>				
ACK27	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values				
		Code Name				
		ZZ Mutually Defined				
ACK28	822	Source Subqualifier	X	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier				
		User Note 1: <i>This field must contain the value 'ITN' to indicate the iTradeNetwork extended logic is being used in the ACK segment.</i>				
ACK29	1271	Industry Code	X	AN	1/30	Used
		Description: Code indicating a code from a specific industry code list				
		User Note 1: <i>The following codes describe the action being performed relative to the item identified in the parent PO1 segment.</i>				
		Code 'SPT':				
		<i>Some or all of the quantity of the item specified in the PO1 segment is being split to another order. The difference between a split and a move is that the split operation results in the supplier request/creation of a new purchase order. The 'VO' qualifier is required to</i>				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>identify the new order. If all quantity is being split to a new order, the supplier must delete this item from the source order by specifying the 'ID' qualifier in ACK01. Multiple ACK segments with this code may be used if the item is being split into multiple new orders. This transaction does not request/create the new orders, separate transactions are required to do this.</i>				
		<i>Code 'MVT':</i>				
		<i>Some or all of the quantity of the item specified in the PO1 segment is being moved to another order. The 'PO' and 'VO' qualifiers are required to identify the destination order. If all quantity is being moved, the supplier must delete this item from the source order by specifying the 'ID' qualifier in ACK01. Multiple ACK segments with this code may be used if the item is being moved to multiple orders.</i>				
		<i>Code 'MVF':</i>				
		<i>Some or all of the quantity of the item specified in the PO1 segment is being moved from another order. The 'PO' and 'VO' qualifiers are required to identify the source order. Multiple ACK segments with this code may be used if the item is being moved from multiple orders.</i>				
		<i>Code 'SBW':</i>				
		<i>The item identified in the parent PO1 segment is being substituted with the item identified in this ACK segment. The 'PO' and 'VO' qualifiers are required only if the item that is identified in this ACK segment is from a different order. If all quantity is being substituted, the supplier must delete this item from the source order by specifying the 'ID' qualifier in ACK01. Most sub workflows require the buyer to assign valid subs in the catalog.</i>				
		<i>Code 'SBF':</i>				
		<i>The item identified in the parent PO1 segment is a substitute for the item identified in this ACK segment. The 'PO' and 'VO' qualifiers are required only if the item that is identified in this ACK segment is from a different order. Most sub workflows require the buyer to assign valid subs in the catalog.</i>				

Syntax Rules:

1. P0203 - If either ACK02 or ACK03 is present, then the other is required.
2. P0708 - If either ACK07 or ACK08 is present, then the other is required.
3. P0910 - If either ACK09 or ACK10 is present, then the other is required.
4. P1112 - If either ACK11 or ACK12 is present, then the other is required.
5. P1314 - If either ACK13 or ACK14 is present, then the other is required.
6. P1516 - If either ACK15 or ACK16 is present, then the other is required.
7. P1718 - If either ACK17 or ACK18 is present, then the other is required.
8. P1920 - If either ACK19 or ACK20 is present, then the other is required.
9. P2122 - If either ACK21 or ACK22 is present, then the other is required.
10. P2324 - If either ACK23 or ACK24 is present, then the other is required.
11. P2526 - If either ACK25 or ACK26 is present, then the other is required.
12. P2728 - If either ACK27 or ACK28 is present, then the other is required.
13. C282729 - If ACK28 is present, then ACK27 and ACK29 are required.

Semantics:

1. ACK29 Industry Reason Code may be used to identify the item status. In addition, it may be used in conjunction with ACK01 to further clarify the status.

User Note 1:

*The ACK segment is primarily used for Move, Sub, Split workflow but can be used to cancel a line by using the IR qualifier.
Any other info sent within the ACK will not be processed.*

Move, Sub, Split workflow dependent upon trading partner agreement and configuration.

User Note 2:

For Move, Sub, Split workflow:

The ACK segment is used to link related items and actions being performed on or with the item identified in the PO1 segment. All items involved in a move, substitution or split operation must have the ACK segment(s) necessary to fully describe their part in the operation.

N9 Reference Identification

Pos: 350	Max: 1
Detail - Optional	
Loop: N9	Elements: 2

User Option (Usage): Used

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	Must use

Description: Code qualifying the Reference Identification

Code Name

L1 Letters or Notes

N902	127	Reference Identification	X	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1: *The Reference Identification (N902) must be 'GEN' to identify that notes exist in the following MSG segments.*

MSG Message Text

Pos: 360	Max: 30
Detail - Optional	
Loop: N9	Elements: 1

User Option (Usage): Must use

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	Must use

Description: Free-form message text

N1 Name

Pos: 370	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		Code Name				
		SF Ship From				
N102	93	Name	X	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		All valid standard codes are used.				
N104	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				

Syntax Rules:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N3 Address Information

Pos: 390	Max: 2
Detail - 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	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 400	Max: 1
Detail - 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	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

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.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 6

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	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	O	R	1/10	Recommended
		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 being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.				
CTT03	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code	Name			
		GA	Gallon			
		KG	Kilogram			
		LB	Pound			
		OZ	Ounce - Av			
CTT05	183	Volume	X	R	1/8	Used
		Description: Value of volumetric measure				
CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code	Name			
		CF	Cubic Feet			
		CI	Cubic Inches			
		CR	Cubic Meter			
		CY	Cubic Yard			

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

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

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

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

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

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

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

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

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

User Option (Usage): Must use

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

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