

EDI x12 855 PO Acknowledgement

EDI x12 855 PO Acknowledgement File Specification

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855

Purchase Order Acknowledgment

Functional Group=PR

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
150	DTM	Date/Time Reference	O	10			Used
			O	1	1000		Used
	LOOP N9						
250	N9	Reference Number	O	1	1		Used
260	MSG	Message Text	O	1000	1000		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>100000</u>	<u>N2/010L</u>
010	PO1	Baseline Item Data	O	1		N2/010	Used
<u>LOOP ID - ACK</u>						<u>104</u>	
270	ACK	Line Item Acknowledgment	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>
<u>LOOP ID - CTT</u>						<u>1</u>	<u>N3/010L</u>
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:

2/010L PO102 is required.

2/010 PO102 is required.

3/010L 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.

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.

ISA Interchange Control Header

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

User Option (Usage): Must use

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						
		<u>Code</u>	<u>Name</u>			
		00	No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	Authorization Information	M	AN	10/10	Must use
Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information						
		<u>Code</u>	<u>Name</u>			
		00	No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
		<u>Code</u>	<u>Name</u>			
		01	Duns (Dun & Bradstreet)			
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
		<u>Code</u>	<u>Name</u>			
		01	Duns (Dun & Bradstreet)			
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them						

ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.				
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments				
		<u>Code</u>		<u>Name</u>		
		00400		Standard Issued as ANSI X12.5-1997		
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)				
		<u>Code</u>		<u>Name</u>		
		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				
		<u>Code</u>		<u>Name</u>		
		P		Production Data		
ISA16	I15	Component Element Separator	M		1/1	Must use
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Semantics:

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

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

User Note 1: Transaction Set Identifier Code, Purchase Order Acknowledgement (855)

<u>Code</u>	<u>Name</u>
855	Purchase Order Acknowledgment

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

User Note 1: Unique Transaction Set Control Number

User Note 2: Please Note: This is a value unique to each customer which is used to identify transactions being sent from SYNEX.

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: 8

User Option (Usage): Must use

To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
BAK01	353	Transaction Set Purpose Code	M	ID	2/2	Must use								
<p>Description: Code identifying purpose of transaction set User Note 1: <i>Transaction Set Purpose Code, Purchase Order (00) Original</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> </tbody> </table>							Code	Name	00	Original				
Code	Name													
00	Original													
BAK02	587	Acknowledgment Type	M	ID	2/2	Must use								
<p>Description: Code specifying the type of acknowledgment User Note 1: <i>Acknowledgement Type Code; (AC) Acknowledgement with Details and Changes, (AD) Acknowledgement with Details and No Changes, (RD) Rejected with Details</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>AC</td> <td>Acknowledge - With Detail and Change</td> </tr> <tr> <td>AD</td> <td>Acknowledge - With Detail, No Change</td> </tr> <tr> <td>RD</td> <td>Reject with Detail</td> </tr> </tbody> </table>							Code	Name	AC	Acknowledge - With Detail and Change	AD	Acknowledge - With Detail, No Change	RD	Reject with Detail
Code	Name													
AC	Acknowledge - With Detail and Change													
AD	Acknowledge - With Detail, No Change													
RD	Reject with Detail													
BAK03	324	Purchase Order Number	M	AN	1/22	Must use								
<p>Description: Identifying number for Purchase Order assigned by the orderer/purchaser User Note 1: <i>Customer's Purchase Order Number</i></p>														
BAK04	373	Date	M	DT	8/8	Must use								
<p>Description: Date expressed as CCYYMMDD User Note 1: <i>Customer PURchase Order Submission Date</i></p>														
BAK06	326	Request Reference Number	O	AN	1/45	Used								
<p>Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)</p>														
BAK07	367	Contract Number	O	AN	1/30	Used								
<p>Description: Contract number User Note 1: <i>BAK-07 element is used to identify End-User Customer #, when needed.</i> User Note 2: <i>Please Note: This field is utilized upon mutual agreement between SYNnex and customer.</i></p>														
BAK08	127	Reference Identification	O	AN	1/30	Used								
<p>Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p>														

User Note 1: SYNEX Sales Order Number

User Note 2: Please Note: SYNEX Sales Order Number will only appear if orders are accepted; rejected orders do not have a sales order assigned to them.

BAK09	373	Date	O	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

User Note 1: SYNEX Sales Order creation date, expressed as CCYYMMDD.

Semantics:

1. BAK04 is the date assigned by the purchaser to purchase order.
2. BAK08 is the seller's order number.
3. BAK09 is the date assigned by the sender to the acknowledgment.

DTM Date/Time Reference

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

User Option (Usage): Used

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: Date / Time Qualifier (08) indicating Date Purchase Order was Received.

<u>Code</u>	<u>Name</u>
008	Purchase Order Received

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

User Note 1: Purchase Order Receipt Date, expressed as CCYYMMDD

Syntax Rules:

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

Loop PO1

Pos: 010	Repeat: 100000
Optional	
Loop: PO1	Elements: N/A

User Option (Usage): Used

To specify basic and most frequently used line item data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	PO1	Baseline Item Data	O	1		Used
270		Loop ACK	O		104	Used

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Optional	
Loop: PO1	Elements: 8

User Option (Usage): Used

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	O	AN	1/20	Used
<p>Description: Alphanumeric characters assigned for differentiation within a transaction set User Note 1: User defined Line Identification, usually identified as Customer PO Line Number or PO Line Number User Note 2: Please Note: This element is optional, but if customer requires SYNEX to return their Customer or PO Line Number(s), then this element becomes REQUIRED, so that SYNEX can return these specific values in other EDI documents back to customer.</p>						
PO102	330	Quantity Ordered	X	R	1/15	Used
<p>Description: Quantity ordered User Note 1: Item Quantity ordered from SYNEX.</p>						
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
<p>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken User Note 1: Unit of Measurement (EA) is an optional field, and will only be sent if required from customer. User Note 2: Please Note: Due to the nature of the distribution business from SYNEX, each sku is treated as an individual item (EA), therefore it is not necessary to identify this unit of measurement unless required by customer.</p>						
		<u>Code</u>	<u>Name</u>			
		EA	Each			
PO104	212	Unit Price	X	R	1/17	Used
<p>Description: Price per unit of product, service, commodity, etc. User Note 1: Confirmed Customer Unit (Contract) Price from SYNEX. User Note 2: Please Note: This field represents the Unit (Contract) Price to customer from SYNEX. SYNEX allows some variance in price to occur to allow entire order to process automatically through it's systems, if the price exceeds this variance it will be re-routed to your SYNEX Sales Rep for order review and manual release. Please contact your SYNEX Sales Rep for information regarding this price if cost is different that cost sent on Original Purchase Order submission. User Note 3: Please Note: When order requires SYNEX Sales review, the EDI 855 (PO Acknowledgment) will be delayed until your SYNEX Sales Rep releases order manually, at which time the EDI 855 document will then be generated and sent out.</p>						
PO106	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User Note 1: This element represents the Vendor Part Number (VP) and is used to identify the PO1-07 element as the SYNEX Sku Number. User Note 2: Please Note: Other possible Identifiers are available for element PO1-09 upon request, such as Manufacturer Part Number, but SYNEX discourages the utilization of the</p>						

Manufacturer Part Number for ordering, unless pre-arranged through the customer's SYNEX B2B / eCommerce Representative developing this service for them.

<u>Code</u>	<u>Name</u>				
VP	Vendor's (Seller's) Part Number				
PO107	234	Product/Service ID	X	AN	1/48 Used
Description: Identifying number for a product or service					
User Note 1: <i>This represents the Vendor's Part number (SYNEX Sku Number), represented by the 6 or 7-digit code used for ordering the product.</i>					
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: <i>This element represents the Buyer's Part Number (BP) and is used to identify the PO1-09 element as the Buyer's Part Number.</i>					
User Note 2: <i>Please Note: Although this element is optional, if customer requires SYNEX to return the Buyer's Part Number in other EDI documents, then this element and the PO1-09 element become required elements from the customer within the EDI 850 data provided to SYNEX.</i>					
<u>Code</u>	<u>Name</u>				
BP	Buyer's Part Number				
PO109	234	Product/Service ID	X	AN	1/48 Used
Description: Identifying number for a product or service					
User Note 1: <i>This represents the Buyer's Part number, represented by the part number provided by the buyer of this product.</i>					
User Note 2: <i>Please Note: Although this element is optional, if customer requires SYNEX to return the Buyer's Part Number in other EDI documents, then this element and the PO1-08 element become required elements from the customer within the EDI 850 data provided to SYNEX.</i>					

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.
6. P1213 - If either PO112 or PO113 is present, then the other is required.
7. P1415 - If either PO114 or PO115 is present, then the other is required.
8. P1617 - If either PO116 or PO117 is present, then the other is required.
9. P1819 - If either PO118 or PO119 is present, then the other is required.
10. P2021 - If either PO120 or PO121 is present, then the other is required.
11. P2223 - If either PO122 or PO123 is present, then the other is required.
12. P2425 - If either PO124 or PO125 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.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Loop ACK

Pos: 270	Repeat: 104
Optional	
Loop: ACK	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
270	ACK	Line Item Acknowledgment	O	1		Used

ACK Line Item Acknowledgment

Pos: 270	Max: 1
Detail - Optional	
Loop: ACK	Elements: 6

User Option (Usage): Used

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

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>
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

User Note 1: Line Item Status Code, representing line item acceptance or rejection status

<u>Code</u>	<u>Name</u>
IA	Item Accepted
IB	Item Backordered
IP	Item Accepted - Price Changed
IR	Item Rejected
R2	Item Rejected, Invalid Item Product Number

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

User Note 1: Line Item Quantity, representing Quantity Accepted, Placed on Backorder, or Rejected

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

User Note 1: Unit of Measurement (EA) is an optional field, and not required from customer.

User Note 2: Please Note: Due to the nature of the distribution business from SYNEX, each sku is treated as an individual item (EA), therefore it is not necessary to identify this unit of measurement unless required by customer.

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

ACK04	374	Date/Time Qualifier	O	ID	3/3	Used
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Description: Code specifying type of date or time, or both date and time

User Note 1: Date / Time Qualifier, representing the Confirmed (055) status of the Line Item being reported.

User Note 2: Please Note: Date / Time Qualifier, representing the Promised "ETA" Ship Date (079) status of the Line Item being reported is available upon mutual agreement between SYNEX and customer.

<u>Code</u>	<u>Name</u>
055	Confirmed
079	Promised for Shipment

ACK05	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

User Note 1: *Line Item Status Date, expressed as CCYYMMDD*

ACK06	326	Request Reference Number	O	AN	1/45	Used
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Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)

User Note 1: *ACK-06 field used to report additional notes used to indicate "Reason for Rejection" or other information related to PO Line which has failed processing*

Syntax Rules:

1. P0203 - If either ACK02 or ACK03 is present, then the other is required.
2. C0405 - If ACK04 is present, then ACK05 is required.
3. P0708 - If either ACK07 or ACK08 is present, then the other is required.
4. P0910 - If either ACK09 or ACK10 is present, then the other is required.
5. P1112 - If either ACK11 or ACK12 is present, then the other is required.
6. P1314 - If either ACK13 or ACK14 is present, then the other is required.
7. P1516 - If either ACK15 or ACK16 is present, then the other is required.
8. P1718 - If either ACK17 or ACK18 is present, then the other is required.
9. P1920 - If either ACK19 or ACK20 is present, then the other is required.
10. P2122 - If either ACK21 or ACK22 is present, then the other is required.
11. P2324 - If either ACK23 or ACK24 is present, then the other is required.
12. P2526 - If either ACK25 or ACK26 is present, then the other is required.
13. P2728 - If either ACK27 or ACK28 is present, then the other is required.
14. 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.

Loop CTT

Pos: 010	Repeat: 1
Optional	
Loop: CTT	Elements: N/A

User Option (Usage): Used

To transmit a hash total for a specific element in the transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		Used

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 2

User Option (Usage): Used

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	NO	1/6	Must use

Description: Total number of line items in the transaction set

CTT02	347	Hash Total	O	R	1/10	Used
-------	-----	------------	---	---	------	------

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.

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	NO	1/10	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:

- 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

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	NO	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	NO	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

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	NO	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	Interchange Control Number	M	NO	9/9	Must use
		Description: A control number assigned by the interchange sender				