

Learning Resources EDI Implementation Guide 855 ANSI 4010  
 Updated February 2011

Purchase Order Acknowledgment  
 Version 4010  
 Revised: March 2009

**855 Purchase Order Acknowledgment**  
**Functional Group ID=PR**

**Introduction:**

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.

**Notes:**

**Heading:**

Pos.	Seg. No.	ID	Name Des.	Req.	Loop Max.Use	Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1		
M	050	REF	Reference Identification	M	>1		
	150	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			200	
M	295	N1	Name	M	1		
	320	N3	Address Information	O	2		
	330	N4	Geographic Location	O	1		

**Detail:**

Pos.	Seg. No.	ID	Name Des.	Req.	Loop Max.Use	Repeat	Notes and Comments
			LOOP ID - PO1			100000	
M	010	PO1	Baseline Item Data	M	1		n1
	050	PID	Product/Item Description	O	1	2	
M	270	ACK	Line Item Acknowledgment	M	1		

**Summary:**

Pos.	Seg. No.	ID	Name Des.	Req.	Loop Max.Use	Repeat	Notes and Comments
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		LOOP ID - CTT				1
M	010	CTT	Transaction Totals	M	1	n2
M	030	SE	Transaction Set Trailer	M	1	

**Transaction Set Notes**

1. PO102 is required.
2. 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.

**Segment: ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

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

**Comments:**

**Notes:**

\*\*\*\*\*  
*Sample ST Segment*  


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 ST\*855\*0001  
 \*\*\*\*\*

**Data Element Summary**

	Des.		Ref. Data Element Name		Attributes
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			855 Purchase Order Acknowledgment		
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			<i>The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within</i>		

*the group.*

**Segment: BAK Beginning Segment for Purchase Order Acknowledgment**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes: 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.

**Comments:**

**Notes:**

\*\*\*\*\*

*Sample BAK Segment*

*BAK\*00\*AC\*1507271\*20110218~*

\*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>M</b>	<b>BAK01</b>	<b>353</b>	<b>Transaction Set Purpose Code</b>	<b>M</b>	<b>ID 2/2</b>
			Code identifying purpose of transaction set		
			00 Original		
<b>M</b>	<b>BAK02</b>	<b>587</b>	<b>Acknowledgment Type</b>	<b>M</b>	<b>ID 2/2</b>
			Code specifying the type of acknowledgment		
			AC Acknowledge - with Detail and Change		
			AD Acknowledge - with Detail, No Change		
<b>M</b>	<b>BAK03</b>	<b>324</b>	<b>Purchase Order Number</b>	<b>M</b>	<b>AN 1/22</b>
			Identifying number for Purchase Order assigned by the orderer/purchaser		
<b>M</b>	<b>BAK04</b>	<b>373</b>	<b>Date</b>	<b>M</b>	<b>DT 8/8</b>
			Date expressed as CCYYMMDD		
			<i>Purchase Order date</i>		

**Segment: REF Reference Identification**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

**Notes:**

\*\*\*\*\*

*Sample REF Segment*

REF\*IA\*1234567

REF\*DP\*057

\*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>M</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>M</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
			IA Internal Vendor Number		
			VR Vendor ID Number		
			DP Department Number		
<b>M</b>	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>M</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			<i>If REF01 = "IA", this will be the Vendor Number from the PO.</i>		
			<i>If REF01 = "DP", this will be the department number.</i>		

**Segment: DTM Date/Time Reference**

**Position:** 150

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

\*\*\*\*\*

*Sample DTM Segment*

```
DTM*010*20100101
DTM*068*20100112
*****
```

**Data Element Summary**

Des.		Ref. Data Element Name Attributes	
<b>M</b>	<b>DTM01 374</b>	<b>Date/Time Qualifier</b>	<b>M ID 3/3</b>
Code specifying type of date or time, or both date and time			
<i>Both qualifiers may be sent.</i>			
		010 Requested Ship Date	
		068 Current Schedule Ship	
	<b>DTM02 373</b>	<b>Date</b>	<b>X DT 8/8</b>
Date expressed as CCYYMMDD			

**Segment: N1 Name**

**Position:** 295

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes: 1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**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.

**Notes:**

```
*****
Sample N1 Segments - Basic Format
-----
N1*ST*Location1*92*0551 (Ship To)
N3*1234 SHOPPING PLACE
N4* MINNEAPOLIS*MN*55402*US
*****
```

**Data Element Summary**

Des.	Ref. Data Element Name	Attributes
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M	N101	98	Entity Identifier Code	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			BY Buying Party (Purchaser)		
			ST Ship To		
	<b>N102</b>	<b>93</b>	<b>Name</b>	<b>X</b>	<b>AN 1/60</b>
			Free-form name		
	<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b>	<b>X</b>	<b>ID 1/2</b>
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
	<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>AN 2/80</b>
			Code identifying a party or other code		
			<i>Location Code Used if N101 = "BY" or "ST".</i>		

**Segment: N3 Address Information**

**Position:** 320  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Notes:** \*\*\*\*\*  
*Sample N3 Segment*  


---

*N3\*1234 SHOPPING LANE*  
*Optional*  
 \*\*\*\*\*

**Data Element Summary**

Des.	Ref. Data Element Name Attributes
------	--------------------------------------

<b>M</b>	<b>N301</b>	<b>166</b>	<b>Address Information</b>	<b>M</b>	<b>AN 1/55</b>
			Address information		
	<b>N302</b>	<b>166</b>	<b>Address Information</b>	<b>O</b>	<b>AN 1/55</b>
			Address information		

**Segment: N4 Geographic Location**

**Position:** 330

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

**Syntax Notes:**

**Semantic Notes:**

**Comments: 1** A combination of N401 through N404 will be adequate to specify a location.

**2** N402 is required only if city name (N401) is in the U.S. or Canada.

**Notes:** \*\*\*\*\*  
*Sample N4 Segment*  


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*N4\*MINNEAPOLIS\*MN\*55402\*US*  
*Used only if N3 segment sent.*  
 \*\*\*\*\*

**Data Element Summary**

<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>N401</b>	<b>19</b>	<b>City Name</b>	<b>O</b>	<b>AN 2/30</b>
		Free-form text for city name		
<b>N402</b>	<b>156</b>	<b>State or Province Code</b>	<b>O</b>	<b>ID 2/2</b>
		Code (Standard State/Province) as defined by appropriate government agency		
<b>N403</b>	<b>116</b>	<b>Postal Code</b>	<b>O</b>	<b>ID 3/15</b>
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
<b>N404</b>	<b>26</b>	<b>Country Code</b>	<b>O</b>	<b>ID 2/3</b>
		Code identifying the country		

**Segment: PO1 Baseline Item Data**

**Position:** 010

**Loop:** PO1 Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** **1** If PO103 is present, then PO102 is required.

**2** If PO105 is present, then PO104 is required.

**3** If either PO106 or PO107 is present, then the other is required.

**4** If either PO108 or PO109 is present, then the other is required.

**5** If either PO110 or PO111 is present, then the other is required.

**Semantic Notes:**

**Comments:** **1** See the Data Element Dictionary for a complete list of IDs.

**2** PO101 is the line item identification.

**3** PO106 through PO111 provide for three different product/service IDs per each item. For example: U.P.C. No., ISBN No., Buyer's No., or SKU.

**Notes:** \*\*\*\*\*  
*Sample PO1 Segment*  


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*PO1\*1\*12\*EA\*\*\*BP\*123456*  
 \*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>M</b>	<b>PO101</b>	<b>350</b>	<b>Assigned Identification</b>	<b>M</b>	<b>AN 1/20</b>
			Customer's line number from originating PO.		
<b>M</b>	<b>PO102</b>	<b>330</b>	<b>Quantity Ordered</b>	<b>M</b>	<b>R 1/15</b>
			Original quantity ordered.		
<b>M</b>	<b>PO103</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>M</b>	<b>ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.		
			EA            Each		
	<b>PO104</b>	<b>212</b>	<b>Unit Price</b>	<b>X</b>	<b>R 1/17</b>
			Original Price per unit of product, service, commodity, etc.		
	<b>PO105</b>	<b>639</b>	<b>Basis of Unit Price Code</b>	<b>O</b>	<b>ID 2/2</b>



Code identifying the type of unit price for an item

**PO106 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

- BP Buyer's Part Number
- VP Vendor's (Seller's) Part Number
- SK Stock Keeping Unit (SKU)
- UP U.P.C. Consumer Package Code (1-5-5-1)

**PO107 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

*When the qualifier=UP, this field will contain the full 12-digit UPC Code.*

**PO108 – PO111 may also be sent if requested.**

**Segment: ACK LINE Item Acknowledgment**

**Position:** 270

**Loop:** ACK Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** **1** If either ACK02 or ACK03 is present, then the other is required.

**2** If ACK04 is present, then ACK05 is required.

**Semantic Notes:**

**Comments:**

**Notes:**

\*\*\*\*\*

*Sample ACK Segment*

ACK\*DR\*8\*EA\*068\*20101210~

\*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>M</b>	<b>ACK01 668</b>		<b>Line Item Status Code</b>	<b>M</b>	<b>ID 2/2</b>

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

- IA Item Accepted  
No other ACK elements are provided
- IQ Item Accepted – Quantity Changed  
ACK02 and ACK03 are provided
- IP Item Accepted – Price changed  
No other ACK elements are provided, price is in PO104
- ID Item Deleted  
No other ACK elements are provided
- IR Item Rejected  
No other ACK elements are provided
- DR Item Accepted – Date Rescheduled  
ACK02,ACK03,ACK04 and ACK05 are provided
- R2 Item Rejected – Invalid Product Number  
No other ACK elements are provided

**ACK02 380 Quantity X R 1/15**

Numeric value of quantity

*Current order quantity.*

**ACK03 355 Unit or Basis for Measurement Code X ID 2/2**

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

EA Each.

**ACK04 374 Date/Time Qualifier O ID 3/3**

Code specifying type of date or time, or both date and time.

068 Current Schedule Ship

**ACK05 373 Date X DT 8/8**

Date expressed as CCYYMMDD.

**Segment: CTT Transaction Totals**

**Position:** 010

**Loop:** CTT Mandatory

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes: Semantic Notes:**

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

**Notes:** \*\*\*\*\*  
*Sample CTT Segment*  
 \_\_\_\_\_  
*CTT\*98*  
 \*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>		<b>Attributes</b>
<b>M</b>	<b>CTT01</b>	<b>354</b>	<b>Number of Line Items</b>	<b>M</b>	<b>NO 1/6</b>
			Total number of line items in the transaction set		

**Segment: SE Transaction Set Trailer**  
**Position:** 030  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**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)  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments: 1** SE is the last segment of each transaction set.

**Notes:** \*\*\*\*\*  
*Sample SE Segment*  
 \_\_\_\_\_  
*SE\* 123\*0001*  
 \*\*\*\*\*

**Data Element Summary**

	<b>Des.</b>		<b>Ref. Data Element Name</b>	<b>Attributes</b>
<b>M</b>	<b>SE01</b>	<b>96</b>	<b>Number of Included Segments</b>	<b>M NO 1/10</b>
			Total number of segments included in a transaction set including ST and SE segments	
<b>M</b>	<b>SE02</b>	<b>329</b>	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			Control number that must equal the number in the ST02	