

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:

The National Instruments implementation of the inbound 855 PO Acknowledgement utilizes the following 8 segments within the confines of the basic EDI X12 structure.

Excluding the ISA, GS, GE, and IEA, use of segments outside of this structure, although would NOT cause an error, also would NOT cause any data outside of this structure to be input into the National Instruments application process.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - PO1			100000	
	010	PO1	Baseline Item Data	O	1		n1
			LOOP ID - ACK			104	
	270	ACK	Line Item Acknowledgment	O	1		
	280	DTM	Date/Time Reference	O	1		
			LOOP ID - SCH			200	
	310	SCH	Line Item Schedule	O	1		n2

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - CTT			1	
	010	CTT	Transaction Totals	O	1		n3
M	030	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of

measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.

3. 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BAK01	353	Transaction Set Purpose Code Code identifying purpose of transaction set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	BAK02	587	Acknowledgment Type Note: Only 1 of the following 4 codes values will be accepted AC Acknowledge - With Detail and Change AD Acknowledge - With Detail, No Change AK Acknowledge - No Detail or Change AT Accepted Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	BAK03	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
M	BAK04	373	Date Date expressed as CCYYMMDD	M DT 8/8
	BAK05	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
	BAK06	326	Request Reference Number 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)	O AN 1/45
	BAK07	367	Contract Number Contract number	O AN 1/30
	BAK08	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30
	BAK09	373	Date Date expressed as CCYYMMDD	O DT 8/8
	BAK10	640	Transaction Type Code Code specifying the type of transaction Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

- Segment:** **PO1** **Baseline Item Data**
- Position:** 010
- Loop:** PO1 Optional
- Level:** Detail
- Usage:** Optional
- 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.
 - 6 If either PO112 or PO113 is present, then the other is required.
 - 7 If either PO114 or PO115 is present, then the other is required.
 - 8 If either PO116 or PO117 is present, then the other is required.
 - 9 If either PO118 or PO119 is present, then the other is required.
 - 10 If either PO120 or PO121 is present, then the other is required.
 - 11 If either PO122 or PO123 is present, then the other is required.
 - 12 If either PO124 or PO125 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 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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set Should contain the National Instruments PO Line Item Number.	O AN 1/20
PO102	330	Quantity Ordered Quantity ordered	X R 1/15
PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
PO104	212	Unit Price Price per unit of product, service, commodity, etc.	X R 1/17
PO105	639	Basis of Unit Price Code Code identifying the type of unit price for an item Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
PO106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Note: If the Buyer's Part Number is available, National Instruments expects to receive it on the Acknowledgement in the PO1_07, PO1_09, or PO1_11 with a "BP" Qualifier BP Buyer's Part Number	X ID 2/2
PO107	234	Product/Service ID Identifying number for a product or service	X AN 1/48
PO108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2

Note: If the Buyer's Part Number is available, National Instruments expects to receive it on the Acknowledgement in the PO1_07, PO1_09, or PO1_11 with a "BP" Qualifier
BP Buyer's Part Number

Refer to 004010 Data Element Dictionary for acceptable code values.

PO109 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO110 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Note: If the Buyer's Part Number is available, National Instruments expects to receive it on the Acknowledgement in the PO1_07, PO1_09, or PO1_11 with a "BP" Qualifier
BP Buyer's Part Number

Refer to 004010 Data Element Dictionary for acceptable code values.

PO111 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO112 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO113 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO114 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO115 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO116 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO117 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO118 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO119 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO120 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO121 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO122 235 Product/Service ID Qualifier X ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Refer to 004010 Data Element Dictionary for acceptable code values.

PO123 234 Product/Service ID X AN 1/48
Identifying number for a product or service

PO124 235 Product/Service ID Qualifier X ID 2/2

Code identifying the type/source of the descriptive number used in
Product/Service ID (234)
Refer to 004010 Data Element Dictionary for acceptable code values.

PO125	234	Product/Service ID	X AN 1/48
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Identifying number for a product or service

Segment: **ACK** Line Item Acknowledgment

Position: 270

Loop: ACK Optional

Level: Detail

Usage: Optional

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.
- 3 If either ACK07 or ACK08 is present, then the other is required.
- 4 If either ACK09 or ACK10 is present, then the other is required.
- 5 If either ACK11 or ACK12 is present, then the other is required.
- 6 If either ACK13 or ACK14 is present, then the other is required.
- 7 If either ACK15 or ACK16 is present, then the other is required.
- 8 If either ACK17 or ACK18 is present, then the other is required.
- 9 If either ACK19 or ACK20 is present, then the other is required.
- 10 If either ACK21 or ACK22 is present, then the other is required.
- 11 If either ACK23 or ACK24 is present, then the other is required.
- 12 If either ACK25 or ACK26 is present, then the other is required.
- 13 If either ACK27 or ACK28 is present, then the other is required.
- 14 If ACK28 is present, then both ACK27 and ACK29 are required.

Semantic Notes:

- 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.

Comments:

Note: National Instruments only accepts date and quantity changes on the acknowledgement and does not accept price changes, item rejections, etc

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ACK01	668 Line Item Status Code	M ID 2/2
		Code specifying the action taken by the seller on a line item requested by the buyer Refer to 004010 Data Element Dictionary for acceptable code values.	
	ACK02	380 Quantity	X R 1/15
		Numeric value of 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 Refer to 004010 Data Element Dictionary for acceptable code values.	
	ACK04	374 Date/Time Qualifier	O ID 3/3
		Code specifying type of date or time, or both date and time Estimated Delivery Date qualifier (017) is expected here. Refer to 004010 Data Element Dictionary for acceptable code values.	
	ACK05	373 Date	X DT 8/8
		Date expressed as CCYYMMDD Estimated Delivery Date is expected here.	
	ACK06	326 Request Reference Number	O AN 1/45
		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)	
	ACK07	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	

ACK08	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK09	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK10	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK11	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK12	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK13	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK14	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK15	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK16	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK17	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK18	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK19	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK20	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK22	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK24	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2

ACK26	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
ACK27	559	Agency Qualifier Code Code identifying the agency assigning the code values Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
ACK28	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	X	AN 1/15
ACK29	1271	Industry Code Code indicating a code from a specific industry code list	X	AN 1/30

Segment: **DTM** Date/Time Reference
Position: 280
Loop: ACK Optional
Level: Detail
Usage: Optional
Max Use: 1
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time "017" - Estimated Delivery Date qualifier is expected here if the Estimated Delivery Date can not be sent on the ACK segment. "002" - Delivery Requested Date qualifier is expected here if the Delivery Requested Date can not be sent on the SCH segment. Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD If qualifier = "017" - Estimated Delivery Date is expected here if the Estimated Delivery Date can not be sent on the ACK segment. If qualifier = "002" - Delivery Requested Date qualifier is expected here if the Delivery Requested Date can not be sent on the SCH segment.	X DT 8/8
	DTM03	337	Time 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)	X TM 4/8
	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: SCH Line Item Schedule

Position: 310

Loop: SCH Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the data for scheduling a specific line-item

- Syntax Notes:**
- 1 If SCH03 is present, then SCH04 is required.
 - 2 If SCH08 is present, then at least one of SCH09 or SCH10 is required.
 - 3 If SCH09 is present, then SCH08 is required.
 - 4 If SCH10 is present, then SCH08 is required.

Semantic Notes: 1 SCH12 is the schedule identification.

Comments: 1 SCH05 specifies the interpretation to be used for SCH06 and SCH07.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SCH01	380	Quantity Numeric value of quantity	M R 1/15
M	SCH02	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
	SCH03	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3
	SCH04	93	Name Free-form name	X AN 1/60
M	SCH05	374	Date/Time Qualifier Code specifying type of date or time, or both date and time Delivery Requested Date qualifier (002) is expected here. Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	SCH06	373	Date Date expressed as CCYYMMDD Delivery Requested Date is expected here.	M DT 8/8
	SCH07	337	Time 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)	O TM 4/8
	SCH08	374	Date/Time Qualifier Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 3/3
	SCH09	373	Date Date expressed as CCYYMMDD	X DT 8/8
	SCH10	337	Time 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)	X TM 4/8
	SCH11	326	Request Reference Number 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)	O AN 1/45

Alphanumeric characters assigned for differentiation within a transaction set

Segment: **CTT Transaction Totals**
Position: 010
Loop: CTT Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
	CTT02	347	Hash Total 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.	O R 1/10
	CTT03	81	Weight Numeric value of weight	X R 1/10
	CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
	CTT05	183	Volume Value of volumetric measure	X R 1/8
	CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
	CTT07	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80

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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9