

Sprouts Farmers Market - Stores 855 Purchase Order Acknowledgment

Author:	SPS Commerce
Company:	Sprouts Farmers Market - Stores
Created:	3/8/2013
Modified:	3/12/2024
Notes:	

855 Purchase Order Acknowledgment

Functional Group=PR

Purpose: This X12 Transaction Set 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.

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>
0100	ST	Transaction Set Header	M	1			Must use
0200	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Must use
0500	REF	Reference Information	M	3			Must use
0600	PER	Administrative Communications Contact	O	3			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	5			Used
1500	DTM	Date/Time Reference	O	10			Used
2400	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Used
<u>LOOP ID - N9</u>					<u>1000</u>		
2800	N9	Extended Reference Information	O	1			Used
2900	MTX	Text	M	>1			Must use

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>N2/0100L</u>	
0100	PO1	Baseline Item Data	M	1		N2/0100	Must use
<u>LOOP ID - PID</u>					<u>1000</u>		
0500	PID	Product/Item Description	M	1			Must use
0900	PO4	Item Physical Details	M	>1			Must use
<u>LOOP ID - ACK</u>					<u>5</u>		
2700	ACK	Line Item Acknowledgment	M	1			Must use
<u>LOOP ID - N9</u>					<u>1000</u>		
3500	N9	Extended Reference Information	O	1			Used
3600	MTX	Text	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>N3/0100L</u>	
0100	CTT	Transaction Totals	M	1		N3/0100	Must use
0300	SE	Transaction Set Trailer	M	1			Must use

Notes:

- 2/0100L PO102 is required.
- 2/0100 PO102 is required.
- 3/0100L 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.
- 3/0100 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.

General Usage:

Sprouts Farmers Market - Stores expects all Purchase Orders to be acknowledged with a Purchase Order Acknowledgment as soon as possible, and at minimum within 24 hours of receipt of the PO.

Sprouts will accept multiple iterations of the Purchase Order Acknowledgment. Additional acknowledgments should be sent if your ability to fulfil the order changes.

Change History:

10/18/2018:

- Added Item Status Code (ACK01) of IP.

01/09/2019

- Added PO4 segment as optional. See segment for additional details.

10/01/2020

- Added user note to PO401 and PO402: Must be greater than 0

12/16/2021

- Add in sourcing for ACK07/08 and ACK09/10 for Item Substitutions
- Add in validation logic and a vendor User Note.

7/29/2022

- Added PD as valid REF01 code, allowing for 3 repetitions

8/12/2022

- Updated PO4 segment and PO401 element to be mandatory

3/12/2024

- Updated conditional requirement for Item Substitutions (ACK01=IS)

ST Transaction Set Header

Pos: 0100	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:

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

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 318, Included: 1)

Code Name

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

Semantics:

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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BAK Beginning Segment for Purchase Order Acknowledgment

Pos: 0200 Max: 1
 Heading - Mandatory
 Loop: N/A Elements: 5

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

CodeList Summary (Total Codes: 66, Included: 1)

<u>Code</u>	<u>Name</u>
00	Original

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

CodeList Summary (Total Codes: 15, Included: 5)

<u>Code</u>	<u>Name</u>
AC	Acknowledge - With Detail and Change
AD	Acknowledge - With Detail, No Change
AK	Acknowledge - No Detail or Change
RD	Reject with Detail
RJ	Rejected - No Detail

User Note 1:

PO1 and ACK segments are required

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PO1 and ACK segments are required

User Note 1:

Only mandatory header level information is required.

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PO1 and ACK segments are required

User Note 1:

Only mandatory header level information is required

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

User Note 1: *Purchase Order Number*

BAK04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
User Note 1: <i>Purchase Order Date</i>						
BAK09	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
User Note 1: <i>PO Acknowledgement Date</i>						

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.

REF Reference Information

Pos: 0500	Max: 3
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

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

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 3)

Code Name

11 Account Number

User Note 1:

Vendor assigned account number - the account number should be included if provided on the Purchase Order

IA Internal Vendor Number

User Note 1:

Sprouts assigned vendor number - Mandatory

PD Promotion/Deal Number

User Note 1:

The promotional/deal number should be included if provided on the Purchase Order

REF02	127	Reference Identification	M	AN	1/50	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

PER Administrative Communications Contact

Pos: 0600	Max: 3
Heading - Optional	
Loop: N/A	Elements: 6

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						
CodeList Summary (Total Codes: 238, Included: 1)						
<u>Code</u> <u>Name</u> IC Information 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						
CodeList Summary (Total Codes: 42, Included: 2)						
<u>Code</u> <u>Name</u> EM Electronic Mail TE Telephone						
PER04	364	Communication Number	X	AN	1/256	Used
Description: Complete communications number including country or area code when applicable						
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
Description: Code identifying the type of communication number						
CodeList Summary (Total Codes: 42, Included: 2)						
<u>Code</u> <u>Name</u> EM Electronic Mail TE Telephone						
PER06	364	Communication Number	X	AN	1/256	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.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: 5
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

Purpose: To specify terms of sale

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>
ITD02	333	Terms Basis Date Code	O	ID	1/2	Used

Description: Code identifying the beginning of the terms period

CodeList Summary (Total Codes: 17, Included: 3)

Code Name

1	Ship Date
3	Invoice Date
15	Receipt of Goods

ITD03	338	Terms Discount Percent	O	R	1/6	Used
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Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

ITD05	351	Terms Discount Days Due	X	N0	1/3	Used
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Description: Number of days in the terms discount period by which payment is due if terms discount is earned

ITD07	386	Terms Net Days	O	N0	1/3	Used
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Description: Number of days until total invoice amount is due (discount not applicable)

ITD12	352	Description	M	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

User Note 1:

Only send this segment if the ITD information is changing from what was sent on the PO. Else, do not send.

DTM Date/Time Reference

Pos: 1500	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

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

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

CodeList Summary (Total Codes: 1280, Included: 3)

Code Name

067 Current Schedule Delivery

068 Current Schedule Ship

118 Requested Pickup

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

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.

User Note 1:

Only send this segment if changing for the entire order. Else, if only the date for certain items is changing, use the ACK segment to indicate this.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 2400 Max: 1
 Heading - Optional
 Loop: N/A Elements: 3

User Option (Usage): Used

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>
TD502	66	Identification Code Qualifier	X	ID	1/2	Used
Description: Code designating the system/method of code structure used for Identification Code (67) CodeList Summary (Total Codes: 241, Included: 1) <u>Code</u> <u>Name</u> 2 Standard Carrier Alpha Code (SCAC)						
TD503	67	Identification Code	O	AN	2/80	Used
Description: Code identifying a party or other code User Note 1: SCAC						
TD505	387	Routing	O	AN	1/35	Used
Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity User Note 1: Carrier/Routing Information						

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

1. TD515 is the country where the service is to be performed.

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

User Note 1:

Only send if information is changing from the Purchase Order. Else do not send.

Loop Extended Reference Information

Pos: 2800	Repeat: 1000
Conditional	
Loop: N9	Elements: N/A

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
2800	N9	Extended Reference Information	O	1		Used
2900	MTX	Text	M	>1		Must use

User Note 1:

If the Purchase Order (EDI 850) is being rejected in full (BAK02=RD or RJ) you must include a note as to why.

N9 Extended Reference Information

Pos: 2800	Max: 1
Heading - Optional	
Loop: N9	Elements: 2

Loop Path: N9

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 1)

Code Name

L1 Letters or Notes

N902	127	Reference Identification	X	AN	1/50	Used
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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: N902 should contain the following 3 character code to identify the type of note to follow in MTX02.
. GEN:General Note

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

MTX Text

Pos: 2900	Max: >1
Heading - Mandatory	
Loop: N9	Elements: 1

Loop Path: N9

User Option (Usage): Must use

Purpose: To specify textual 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>
MTX02	1551	Textual Data	X	AN	1/4096	Used

Description: To transmit large volumes of message text

User Note 1: If N902 =
. GEN - MTX02 is a General Note

Syntax Rules:

1. C0102 - If MTX01 is present, then MTX02 is required.
2. C0302 - If MTX03 is present, then MTX02 is required.
3. C0504 - If MTX05 is present, then MTX04 is required.

Semantics:

1. MTX05 is the number of lines to advance before printing.

Comments:

1. If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

Loop Baseline Item Data

Pos: 0100 Repeat:
100000
Conditional
Loop: PO1 Elements: N/A

User Option (Usage): Used

Purpose: 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>
0100	PO1	Baseline Item Data	M	1		Must use
0500		Loop PID	M		1000	Must use
0900	PO4	Item Physical Details	M	>1		Must use
2700		Loop ACK	M		5	Must use
3500		Loop N9	O		1000	Used

PO1 Baseline Item Data

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 10

Loop Path: PO1

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	O	AN	1/20	Used
Description: Alphanumeric characters assigned for differentiation within a transaction set						
PO102	380	Quantity	M	R	1/15	Must use
Description: Numeric value of quantity						
User Note 1: <i>Original ordered Qty</i>						
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						
CodeList Summary (Total Codes: 844, Included: 3)						
Code Name						
CA Case						
EA Each						
LB Pound						
PO104	212	Unit Price	M	R	1/17	Must use
Description: Price per unit of product, service, commodity, etc.						
User Note 1: <i>This is the NET purchase price of the item.</i>						
PO106	235	Product/Service ID Qualifier	M	ID	2/2	Must use
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
User Note 1: <i>Vendor must include all item identifiers that were present on the Purchase Order</i>						
CodeList Summary (Total Codes: 519, Included: 3)						
Code Name						
UK GTIN 14-digit Data Structure						
UP UCC - 12						
VN Vendor's (Seller's) Item Number						
PO107	234	Product/Service ID	M	AN	1/48	Must use
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: <i>Vendor must include all item identifiers that were present on the Purchase Order</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>Order</i>						
CodeList Summary (Total Codes: 519, Included: 3)						
<u>Code</u> <u>Name</u>						
UK GTIN 14-digit Data Structure						
UP UCC - 12						
VN Vendor's (Seller's) Item 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)						
User Note 1: <i>Vendor must include all item identifiers that were present on the Purchase Order</i>						
CodeList Summary (Total Codes: 519, Included: 3)						
<u>Code</u> <u>Name</u>						
UK GTIN 14-digit Data Structure						
UP UCC - 12						
VN Vendor's (Seller's) Item Number						
PO111	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.
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.

Semantics:

1. PO102 is quantity ordered.

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.

User Note 1:

PO1 loop is required when BAK02 = AD, AC or RD

Vendor must include all item identifiers that were present on the Purchase Order

Loop Product/Item Description

Pos: 0500	Repeat: 1000
Mandatory	
Loop: PID	Elements: N/A

Loop Path: PO1

User Option (Usage): Must use

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

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>
0500	PID	Product/Item Description	M	1		Must use

PID Product/Item Description

Pos: 0500	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 3

Loop Path: PO1-PID

User Option (Usage): Must use

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

CodeList Summary (Total Codes: 3, Included: 1)

Code Name

F Free-form

PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
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Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 238, Included: 1)

Code Name

08 Product

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

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

PO4 Item Physical Details

Pos: 0900	Max: >1
Detail - Mandatory	
Loop: PO1	Elements: 3

Loop Path: PO1

User Option (Usage): Must use

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	Pack	M	N0	1/6	Must use

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

User Note 1: *Must be greater than 0*

PO402	357	Size	X	R	1/8	Used
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Description: Size of supplier units in pack

User Note 1: *Must be greater than 0*

PO403	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

CodeList Summary (Total Codes: 844, Included: 4)

Code Name

GA Gallon

LB Pound

LT Liter

OZ Ounce - Av

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

Loop Line Item Acknowledgment

Pos: 2700	Repeat: 5
Mandatory	
Loop: ACK	Elements: N/A

Loop Path: PO1

User Option (Usage): Must use

Purpose: 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>
2700	ACK	Line Item Acknowledgment	M	1		Must use

ACK Line Item Acknowledgment

Pos: 2700	Max: 1
Detail - Mandatory	
Loop: ACK	Elements: 9

Loop Path: PO1-ACK

User Option (Usage): Must use

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

CodeList Summary (Total Codes: 26, Included: 6)

Code Name

DR	Item Accepted - Date Rescheduled
IA	Item Accepted
IP	Item Accepted - Price Changed
IQ	Item Accepted - Quantity Changed
IR	Item Rejected
IS	Item Accepted - Substitution Made

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

User Note 1: Required when ACK01 = DR or IQ

ACK03	355	Unit or Basis for Measurement Code	O	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: Required when ACK01 = DR or IQ

CodeList Summary (Total Codes: 844, Included: 3)

Code Name

CA	Case
EA	Each
LB	Pound

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: Required when ACK01 = DR

CodeList Summary (Total Codes: 1280, Included: 3)

Code Name

067	Current Schedule Delivery
068	Current Schedule Ship
118	Requested Pickup

ACK05	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		the calendar year				
		User Note 1: Required when ACK01 = DR				
ACK07	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		User Note 1: Required when ACK01 = IS - either a new part number, GTIN, or UPC Code must be sent.				
		CodeList Summary (Total Codes: 519, Included: 3)				
		<u>Code</u> <u>Name</u>				
		UK GTIN 14-digit Data Structure				
		UP UCC - 12				
		VN Vendor's (Seller's) Item Number				
ACK08	234	Product/Service ID	C	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: Vendor Note: If sending a substitute part number, please enter a new part number, GTIN, or UPC Code.				
		User Note 2: Vendor Note: The UPC format must be 1-5-5-1				
ACK09	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		User Note 1: Required when ACK01 = IS - either a new part number, GTIN, or UPC Code must be sent.				
		CodeList Summary (Total Codes: 519, Included: 3)				
		<u>Code</u> <u>Name</u>				
		UK GTIN 14-digit Data Structure				
		UP UCC - 12				
		VN Vendor's (Seller's) Item Number				
ACK10	234	Product/Service ID	C	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: Vendor Note: If sending a substitute part number, please enter a new part number, GTIN, or UPC Code.				
		User Note 2: Vendor Note: The UPC format must be 1-5-5-1				

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 Extended Reference Information

Pos: 3500 Repeat: 1000
Optional
Loop: N9 Elements: N/A

Loop Path: PO1

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
3500	N9	Extended Reference Information	O	1		Used
3600	MTX	Text	O	>1		Used

User Note 1:

If the line item is being rejected (ACK01 = IR), please include a note as to why.

N9 Extended Reference Information

Pos: 3500	Max: 1
Detail - Optional	
Loop: N9	Elements: 2

Loop Path: PO1-N9

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 1)

Code Name

L1 Letters or Notes

N902	127	Reference Identification	X	AN	1/50	Used
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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: N902 should contain the following 3 character code to identify the type of note to follow in MTX02.
. GEN:General Note

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

MTX Text

Pos: 3600	Max: >1
Detail - Optional	
Loop: N9	Elements: 1

Loop Path: PO1-N9

User Option (Usage): Used

Purpose: To specify textual 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>
MTX02	1551	Textual Data	X	AN	1/4096	Used

Description: To transmit large volumes of message text

User Note 1: If N902 =
. GEN - MTX02 is a General Note

Syntax Rules:

1. C0102 - If MTX01 is present, then MTX02 is required.
2. C0302 - If MTX03 is present, then MTX02 is required.
3. C0504 - If MTX05 is present, then MTX04 is required.

Semantics:

1. MTX05 is the number of lines to advance before printing.

Comments:

1. If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

Loop Transaction Totals

Pos: 0100	Repeat: 1
Optional	
Loop: CTT	Elements: N/A

User Option (Usage): Used

Purpose: 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>
0100	CTT	Transaction Totals	M	1		Must use

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Mandatory	
Loop: CTT	Elements: 1

Loop Path: CTT

User Option (Usage): Must use

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

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: 0300	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.