



850 - Purchase Order

Version: 004010 X12

Company:

DOT FOODS, INC.

850

Purchase Order

Functional Group=PO

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) 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 the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

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> |
|------------|-----------|----------------------------|------------|----------------|---------------|--------------|
| | ISA | Interchange Control Header | M | 1 | | |
| | GS | Functional Group Header | M | 1 | | |

Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> |
|------------|-----------|---|------------|----------------|---------------|--------------|
| 010 | ST | Transaction Set Header | M | 1 | | |
| 020 | BEG | Beginning Segment for Purchase Order | M | 1 | | |
| 150 | DTM | Date/Time Reference | M | 10 | | |
| 240 | TD5 | Carrier Details (Routing Sequence/Transit Time) | M | 12 | | |

| <u>LOOP ID - N9</u> | | | | | | <u>1000</u> |
|---------------------|-----|--------------------------|---|------|--|-------------|
| 295 | N9 | Reference Identification | O | 1 | | |
| 300 | MSG | Message Text | O | 1000 | | |

| <u>LOOP ID - N1</u> | | | | | | <u>200</u> |
|---------------------|----|---------------------|---|----|--|------------|
| 310 | N1 | Name | M | 1 | | |
| 310 | N1 | Name | M | 1 | | |
| 340 | N4 | Geographic Location | M | >1 | | |

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>LOOP ID - PO1</u> | | | | | | <u>100000</u> |
| 010 | PO1 | Baseline Item Data | M | 1 | | N2/010 |
| <u>LOOP ID - PID</u> | | | | | | <u>1000</u> |
| 050 | PID | Product/Item Description | M | 1 | | |
| 090 | PO4 | Item Physical Details | O | >1 | | |
| 100 | REF | Reference Identification | O | >1 | | |

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>LOOP ID - CTT</u> | | | | | | <u>1</u> |
| 010 | CTT | Transaction Totals | O | 1 | | N3/010L |
| 030 | SE | Transaction Set Trailer | M | 1 | | N3/010 |

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> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|
| | GE | Functional Group Trailer | M | 1 | | |
| | IEA | Interchange Control Trailer | M | 1 | | |

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.

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|---|-----------|--|---|-------------|----------------|--------------|------------|
| ISA01 | I01 | Authorization Information Qualifier | M | ID | 2/2 | Must use | 1 |
| Description: Code to identify the type of information in the Authorization Information | | | | | | | |
| CodeList Summary (Total Codes: 7, Included: 1) | | | | | | | |
| | | <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 | 1 |
| 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 | 1 |
| Description: Code to identify the type of information in the Security Information | | | | | | | |
| CodeList Summary (Total Codes: 2, Included: 1) | | | | | | | |
| | | <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 | 1 |
| 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 | 1 |
| Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified | | | | | | | |
| ISA06 | I06 | Interchange Sender ID | M | AN | 15/15 | Must use | 1 |
| 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 | 1 |
| Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified | | | | | | | |
| CodeList Summary (Total Codes: 38, Included: 1) | | | | | | | |
| | | <u>Code</u> | <u>Name</u> | | | | |
| | | 08 | UCC EDI Communications ID (Comm ID) | | | | |
| ISA08 | I07 | Interchange Receiver ID | M | AN | 15/15 | Must use | 1 |
| 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 | | | | | | | |
| Dot Foods: 9288030000 | | | | | | | |

| ISA09 | I08 | Interchange Date Description: Date of the interchange | M | DT | 6/6 | Must use | 1 | | | | |
|-------------|--|---|-------------|-------------|-------|--|---|----|-----|----------|---|
| ISA10 | I09 | Interchange Time Description: Time of the interchange | M | TM | 4/4 | Must use | 1 | | | | |
| ISA11 | I10 | Interchange Control Standards Identifier 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. (Total Codes: 1) | M | ID | 1/1 | Must use | 1 | | | | |
| ISA12 | I11 | Interchange Control Version Number Description: Code specifying the version number of the interchange control segments CodeList Summary (Total Codes: 14, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00401</td> <td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 00401 | Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997 | M | ID | 5/5 | Must use | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| 00401 | Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997 | | | | | | | | | | |
| ISA13 | I12 | Interchange Control Number Description: A control number assigned by the interchange sender | M | N0 | 9/9 | Must use | 1 | | | | |
| ISA14 | I13 | Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) CodeList Summary (Total Codes: 2, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Acknowledgment Requested</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | No Acknowledgment Requested | M | ID | 1/1 | Must use | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| 0 | No Acknowledgment Requested | | | | | | | | | | |
| ISA15 | I14 | Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information CodeList Summary (Total Codes: 3, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production Data</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | P | Production Data | M | ID | 1/1 | Must use | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| P | Production Data | | | | | | | | | | |
| ISA16 | I15 | Component Element Separator 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 | M | | 1/1 | Must use | 1 | | | | |

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> | | | | |
|--|------------------------------------|---|------------|-------------|----------------|--------------|------------|-------------|-------------|----|------------------------------------|
| GS01 | 479 | Functional Identifier Code | M | ID | 2/2 | Must use | 1 | | | | |
| <p>Description: Code identifying a group of application related transaction sets</p> <p>CodeList Summary (Total Codes: 240, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PO</td> <td>Purchase Order (850)</td> </tr> </tbody> </table> | | | | | | | | <u>Code</u> | <u>Name</u> | PO | Purchase Order (850) |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| PO | Purchase Order (850) | | | | | | | | | | |
| GS02 | 142 | Application Sender's Code | M | AN | 2/15 | Must use | 1 | | | | |
| <p>Description: Code identifying party sending transmission; codes agreed to by trading partners</p> | | | | | | | | | | | |
| GS03 | 124 | Application Receiver's Code | M | AN | 2/15 | Must use | 1 | | | | |
| <p>Description: Code identifying party receiving transmission; codes agreed to by trading partners</p> <p>Dot Foods: 9288030000</p> | | | | | | | | | | | |
| GS04 | 373 | Date | M | DT | 8/8 | Must use | 1 | | | | |
| <p>Description: Date expressed as CCYYMMDD</p> | | | | | | | | | | | |
| GS05 | 337 | Time | M | TM | 4/8 | Must use | 1 | | | | |
| <p>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)</p> | | | | | | | | | | | |
| GS06 | 28 | Group Control Number | M | N0 | 1/9 | Must use | 1 | | | | |
| <p>Description: Assigned number originated and maintained by the sender</p> | | | | | | | | | | | |
| GS07 | 455 | Responsible Agency Code | M | ID | 1/2 | Must use | 1 | | | | |
| <p>Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480</p> <p>CodeList Summary (Total Codes: 2, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table> | | | | | | | | <u>Code</u> | <u>Name</u> | X | Accredited Standards Committee X12 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| X | Accredited Standards Committee X12 | | | | | | | | | | |
| GS08 | 480 | Version / Release / Industry Identifier Code | M | AN | 1/12 | Must use | 1 | | | | |
| <p>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</p> <p>CodeList Summary (Total Codes: 39, Included: 1)</p> | | | | | | | | | | | |

Code
004010

Name
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 |

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|---|-----------|--|------------|----------------|----------------|--------------|------------|
| ST01 | 143 | Transaction Set Identifier Code | M | ID | 3/3 | Must use | 1 |
| Description: Code uniquely identifying a Transaction Set | | | | | | | |
| CodeList Summary (Total Codes: 298, Included: 1) | | | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | | |
| | | 850 | | Purchase Order | | | |
| ST02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use | 1 |
| Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | | | | |

Semantics:

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

BEG

Beginning Segment for Purchase Order

| | |
|---------------------|-------------|
| Pos: 020 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 4 |

Purpose: To indicate the beginning of the Purchase Order 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> | <u>Rep</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|------------|
| BEG01 | 353 | Transaction Set Purpose Code | M | ID | 2/2 | Must use | 1 |
| | | Description: Code identifying purpose of transaction set | | | | | |
| | | CodeList Summary (Total Codes: 65, Included: 1) | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | | |
| | | 00 | | Original | | | |
| BEG02 | 92 | Purchase Order Type Code | M | ID | 2/2 | Must use | 1 |
| | | Description: Code specifying the type of Purchase Order | | | | | |
| | | CodeList Summary (Total Codes: 69, Included: 2) | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | | |
| | | DS | | Dropship | | | |
| | | NE | | New Order | | | |
| BEG03 | 324 | Purchase Order Number | M | AN | 1/22 | Must use | 1 |
| | | Description: Identifying number for Purchase Order assigned by the orderer/purchaser | | | | | |
| BEG05 | 373 | Date | M | DT | 8/8 | Must use | 1 |
| | | Description: Date expressed as CCYYMMDD | | | | | |

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

DTM

Date/Time Reference

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

Purpose: To specify pertinent dates and times

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|---|-----------|----------------------------|------------|--------------------|----------------|--------------|------------|
| DTM01 | 374 | Date/Time Qualifier | M | ID | 3/3 | Must use | 1 |
| Description: Code specifying type of date or time, or both date and time | | | | | | | |
| CodeList Summary (Total Codes: 1112, Included: 1) | | | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | | |
| | | 002 | | Delivery Requested | | | |
| DTM02 | 373 | Date | M | DT | 8/8 | Used | 1 |
| Description: 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.

TD5

Carrier Details (Routing Sequence/Transit Time)

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

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> | <u>Rep</u> |
|------------|-----------|---------------------------------|------------|-------------|----------------|--------------|------------|
| TD504 | 91 | Transportation Method/Type Code | M | ID | 1/2 | Used | 1 |

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

CodeList Summary (Total Codes: 71, Included: 2)

| <u>Code</u> | <u>Name</u> |
|-------------|------------------------|
| H | Customer Pickup |
| M | Motor (Common Carrier) |

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.

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|------------|
| N901 | 128 | Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used. (Total Codes: 1503) | M | ID | 2/3 | Must use | 1 |
| N902 | 127 | Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | O | AN | 1/30 | Used | 1 |
| N903 | 369 | Free-form Description Description: Free-form descriptive text Dot Foods: <i>Please include phone number of buyer or other contact on all drop ship orders.</i> | O | AN | 1/45 | Used | 1 |

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.

MSG

Message Text

| | |
|--------------------|-------------|
| Pos: 300 | Max: 1000 |
| Heading - Optional | |
| Loop: N9 | Elements: 1 |

Purpose: To provide a free-form format that allows the transmission of text information

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|------------|-----------|------------------------|------------|-------------|----------------|--------------|------------|
| MSG01 | 933 | Free-Form Message Text | M | AN | 1/264 | Must use | 1 |

Description: Free-form message text

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

N1

Name

| | |
|---------------------|-------------|
| Pos: 310 | Max: 1 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 4 |

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> | | | | |
|-------------|--|---|-------------|-------------|----------------|--|------------|----|-----|----------|---|
| N101 | 98 | Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual CodeList Summary (Total Codes: 1312, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BT | Bill-to-Party | M | ID | 2/3 | Must use | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| BT | Bill-to-Party | | | | | | | | | | |
| N102 | 93 | Name Description: Free-form name | M | AN | 1/60 | Used | 1 | | | | |
| N103 | 66 | Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) CodeList Summary (Total Codes: 215, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>9</td> <td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | M | ID | 1/2 | Used | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | | | | | | | | |
| N104 | 67 | Identification Code Description: Code identifying a party or other code | M | AN | 2/80 | Used | 1 | | | | |

Syntax Rules:

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

Comments:

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

N1

Name

| | |
|---------------------|-------------|
| Pos: 310 | Max: 1 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 4 |

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> | | | | | | | | | | | | | | |
|---|--|--------------------------------------|------------|-------------|----------------|--------------|------------|-------------|-------------|----|--|-------------------|--|--|--|----|------------------------------------|-------------------|--|---|--|
| N101 | 98 | Entity Identifier Code | M | ID | 2/3 | Must use | 1 | | | | | | | | | | | | | | |
| <p>Description: Code identifying an organizational entity, a physical location, property or an individual</p> <p>CodeList Summary (Total Codes: 1312, Included: 1)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ST</td> <td>Ship To</td> </tr> </tbody> </table> | | | | | | | | <u>Code</u> | <u>Name</u> | ST | Ship To | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | |
| ST | Ship To | | | | | | | | | | | | | | | | | | | | |
| N102 | 93 | Name | M | AN | 1/60 | Used | 1 | | | | | | | | | | | | | | |
| <p>Description: Free-form name</p> | | | | | | | | | | | | | | | | | | | | | |
| N103 | 66 | Identification Code Qualifier | M | ID | 1/2 | Used | 1 | | | | | | | | | | | | | | |
| <p>Description: Code designating the system/method of code structure used for Identification Code (67)</p> <p>CodeList Summary (Total Codes: 215, Included: 2)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>9</td> <td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td colspan="2">Dot Foods:</td> </tr> <tr> <td colspan="2"><i>DUNS+4 number for regular orders.</i></td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> <tr> <td colspan="2">Dot Foods:</td> </tr> <tr> <td colspan="2"><i>Store code for drop ship orders.</i></td> </tr> </tbody> </table> | | | | | | | | <u>Code</u> | <u>Name</u> | 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | Dot Foods: | | <i>DUNS+4 number for regular orders.</i> | | 92 | Assigned by Buyer or Buyer's Agent | Dot Foods: | | <i>Store code for drop ship orders.</i> | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | |
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | | | | | | | | | | | | | | | | | | |
| Dot Foods: | | | | | | | | | | | | | | | | | | | | | |
| <i>DUNS+4 number for regular orders.</i> | | | | | | | | | | | | | | | | | | | | | |
| 92 | Assigned by Buyer or Buyer's Agent | | | | | | | | | | | | | | | | | | | | |
| Dot Foods: | | | | | | | | | | | | | | | | | | | | | |
| <i>Store code for drop ship orders.</i> | | | | | | | | | | | | | | | | | | | | | |
| N104 | 67 | Identification Code | M | AN | 2/80 | Used | 1 | | | | | | | | | | | | | | |
| <p>Description: Code identifying a party or other code</p> | | | | | | | | | | | | | | | | | | | | | |

Syntax Rules:

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

Comments:

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

N4

Geographic Location

| | |
|---------------------|-------------|
| Pos: 340 | Max: >1 |
| Heading - Mandatory | |
| Loop: N1 | Elements: 3 |

Purpose: To specify the geographic place of the named party

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|------------|
| N401 | 19 | City Name Description: Free-form text for city name | M | AN | 2/30 | Used | 1 |
| N402 | 156 | State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency | M | ID | 2/2 | Used | 1 |
| N403 | 116 | Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | M | ID | 3/15 | Used | 1 |

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

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> | <u>Rep</u> | | | | | | |
|-------------|--|---|-------------|-------------|----------------|------------------------------|------------|--|-----|------|-----|------|---|
| PO102 | 330 | Quantity Ordered Description: Quantity ordered | M | R | 1/15 | Used | 1 | | | | | | |
| PO103 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 794) | M | ID | 2/2 | Used | 1 | | | | | | |
| PO104 | 212 | Unit Price Description: Price per unit of product, service, commodity, etc. | O | R | 1/17 | Used | 1 | | | | | | |
| PO106 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 2) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UA</td> <td>U.P.C./EAN Case Code (2-5-5)</td> </tr> <tr> <td>UK</td> <td>U.P.C./EAN Shipping Container Code (1-2-5-5-1)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | UA | U.P.C./EAN Case Code (2-5-5) | UK | U.P.C./EAN Shipping Container Code (1-2-5-5-1) | O | ID | 2/2 | Used | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | |
| UA | U.P.C./EAN Case Code (2-5-5) | | | | | | | | | | | | |
| UK | U.P.C./EAN Shipping Container Code (1-2-5-5-1) | | | | | | | | | | | | |
| PO107 | 234 | Product/Service ID Description: Identifying number for a product or service Dot Foods: <i>UPC Case Code - can accept 12 or 14 digits</i> | O | AN | 1/48 | Used | 1 | | | | | | |
| PO108 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | PI | Purchaser's Item Code | O | ID | 2/2 | Used | 1 | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | |
| PI | Purchaser's Item Code | | | | | | | | | | | | |
| PO109 | 234 | Product/Service ID Description: Identifying number for a product or service | O | AN | 1/48 | Used | 1 | | | | | | |
| PO110 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) CodeList Summary (Total Codes: 477, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MG</td> <td>Manufacturer's Part Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | MG | Manufacturer's Part Number | O | ID | 2/2 | Used | 1 | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | |
| MG | Manufacturer's Part Number | | | | | | | | | | | | |
| PO111 | 234 | Product/Service ID Description: Identifying number for a product or service | O | AN | 1/48 | Used | 1 | | | | | | |
| PO112 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID | 2/2 | Used | 1 | | | | | | |

CodeList Summary (Total Codes: 477, Included: 1)

| <u>Code</u> | <u>Name</u> | | | | | | |
|-------------|-------------|---|---|----|------|------|---|
| PO113 | 234 | Product/Service ID | O | AN | 1/48 | Used | 1 |
| | | Description: Identifying number for a product or service | | | | | |
| | | Dot Foods: <i>Dot's item number</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.

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> | <u>Rep</u> |
|--|-----------|------------------------------|------------|-------------|----------------|--------------|------------|
| PID01 | 349 | Item Description Type | M | ID | 1/1 | Must use | 1 |
| Description: Code indicating the format of a description | | | | | | | |
| CodeList Summary (Total Codes: 3, Included: 1) | | | | | | | |
| | | <u>Code</u> | | <u>Name</u> | | | |
| | | F | | Free-form | | | |
| PID05 | 352 | Description | M | AN | 1/80 | Used | 1 |
| 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.

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the 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> | <u>Rep</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|------------|
| PO401 | 356 | Pack Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container | O | N0 | 1/6 | Used | 1 |
| PO402 | 357 | Size Description: Size of supplier units in pack | O | R | 1/8 | Used | 1 |
| PO403 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used. (Total Codes: 794) | O | ID | 2/2 | Used | 1 |

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 pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. 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.

REF

Reference Identification

| | |
|-------------------|-------------|
| Pos: 100 | Max: >1 |
| Detail - Optional | |
| Loop: PO1 | Elements: 2 |

Purpose: To specify identifying information

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | <u>Rep</u> | | | | |
|-------------|-----------------------|--|-------------|-------------|----------------|-----------------------|------------|----|-----|----------|---|
| REF01 | 128 | Reference Identification Qualifier Description: Code qualifying the Reference Identification Dot Foods: <i>Optional (used for cross-dock)</i> CodeList Summary (Total Codes: 1503, Included: 1) <table><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>CO</td><td>Customer Order Number</td></tr></tbody></table> | <u>Code</u> | <u>Name</u> | CO | Customer Order Number | M | ID | 2/3 | Must use | 1 |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | |
| CO | Customer Order Number | | | | | | | | | | |
| REF02 | 127 | Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Dot Foods: <i>Optional (used for cross-dock)</i> | O | AN | 1/30 | Used | 1 | | | | |

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.

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> | <u>Rep</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|------------|
| CTT01 | 354 | Number of Line Items | M | N0 | 1/6 | Must use | 1 |
| | | Description: Total number of line items in the transaction set | | | | | |
| CTT02 | 347 | Hash Total | O | R | 1/10 | Used | 1 |
| | | 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 |

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> | <u>Rep</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|------------|
| SE01 | 96 | Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments | M | NO | 1/10 | Must use | 1 |
| SE02 | 329 | Transaction Set Control Number Description: 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 | Must use | 1 |

Comments:

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

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

Element Summary:

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

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.

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

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

Element Summary:

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

ST*850*381800~
BEG*00*NE*381800*20191018~
DTM*002*20191020~
TD5***M~
N9*L1*PURCHASE ORDER COMMENTS FOLLOW~
MSG*Label(s): Nugget/Nutri-Gold~
N1*BT*COMPANY NAME*9*9876543210987~
N3*STREET RD~
N4*CITY*ST*111110000~
N1*ST*COMPANY NAME*9*1234567890123~
N3*STREET RD~
N4*CITY*ST*222220000~
PO1*1*4*CA*10.00**UK*5555555555555555*PI*19145*VN*444444~
PID*F***DESCRIPTION~
PO1*1*4*CA*20.00**UK*6666666666666666*PI*19146*VN*555555~
PID*F***DESCRIPTION~
CTT*2~
SE*22*381800~
GE*1*1~
IEA*1*000000002~