# 855 Purchase Order Acknowledgment - Traditional Business

## Status: Final

| | |
|---|---|
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| **Publication:** | 06/27/2013 |
| **Notes:** | |

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# 855 Purchase Order Acknowledgment

**Functional Group=PR**

**Purpose:** 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.

## Heading:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|--------------|-----|---------|--------|-------|-------|
| 010 | ST | Transaction Set Header | M | 1 | | | Must use |
| 020 | BAK | Beginning Segment for Purchase Order Acknowledgment | M | 1 | | | Must use |
| **LOOP ID - N1** | | | | | **200** | | |
| 300 | N1 | Name | O | 1 | | | Used |
| 310 | N2 | Additional Name Information | O | 2 | | | Used |
| 320 | N3 | Address Information | O | 2 | | | Used |
| 330 | N4 | Geographic Location | O | 1 | | | Used |

## Detail:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|--------------|-----|---------|--------|-------|-------|
| **LOOP ID - PO1** | | | | | **100000** | **N2/010L** | |
| 010 | PO1 | Baseline Item Data | O | 1 | | N2/010 | Used |
| **LOOP ID - PID** | | | | | **1000** | | |
| 050 | PID | Product/Item Description | O | 1 | | | Used |
| **LOOP ID - ACK** | | | | | **104** | | |
| 270 | ACK | Line Item Acknowledgment | O | 1 | | | Used |

## Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|--------------|-----|---------|--------|-------|-------|
| **LOOP ID - CTT** | | | | | **1** | **N3/010L** | |
| 010 | CTT | Transaction Totals | O | 1 | | N3/010 | Used |
| 030 | SE | Transaction Set Trailer | M | 1 | | | Must use |

## Notes:

2/010L   PO102 is required.

2/010    PO102 is required.

3/010L   The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

3/010    The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

# ST Transaction Set Header

| Pos: 010 | 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
> **All valid standard codes are used. (Total Codes: 298)**

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ST02 | 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

## 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).

## User Note 1:

*The 855 Purchase Order Acknowledgement is created only for orders received via EDI. Manually keyed line items will not be included in this status information.*

# BAK  Beginning Segment for Purchase Order Acknowledgment

**Pos: 020**  **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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BAK01 | 353 | **Transaction Set Purpose Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying purpose of transaction set

**CodeList Summary** (Total Codes: 65, Included: 1)

| Code | Name |
|---|---|
| 00 | Original |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BAK02 | 587 | **Acknowledgment Type** | M | ID | 2/2 | Must use |

**Description:** Code specifying the type of acknowledgment

**CodeList Summary** (Total Codes: 15, Included: 1)

| Code | Name |
|---|---|
| AE | Acknowledge - With Exception Detail Only |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BAK03 | 324 | **Purchase Order Number** | M | AN | 1/22 | Must use |

**Description:** Identifying number for Purchase Order assigned by the orderer/purchaser

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BAK04 | 373 | **Date** | M | DT | 8/8 | Must use |

**Description:** Date expressed as CCYYMMDD

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BAK05 | 328 | **Release Number** | O | AN | 1/30 | Used |

**Description:** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

## 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.

# Loop Name

<table>
<tr><td>Pos: 300</td><td>Repeat: 200</td></tr>
<tr><td colspan="2">Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: N/A</td></tr>
</table>

**User Option (Usage):** Used
**Purpose:** To identify a party by type of organization, name, and code

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|-----|-----|-----|-----|-----|-----|
| 300 | N1 | Name | O | 1 | | Used |
| 310 | N2 | Additional Name Information | O | 2 | | Used |
| 320 | N3 | Address Information | O | 2 | | Used |
| 330 | N4 | Geographic Location | O | 1 | | Used |

# N1 Name

<table>
<tr><td>Pos: 300</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N101 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Must use |

**Description:** Code identifying an organizational entity, a physical location, property or an individual

**CodeList Summary** (Total Codes: 1312, Included: 1)

| Code | Name |
|------|------|
| ST | Ship To |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N102 | 93 | **Name** | X | AN | 1/60 | Used |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N103 | 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: 215, Included: 3)

| Code | Name |
|------|------|
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| 91 | Assigned by Seller or Seller's Agent |
| 92 | Assigned by Buyer or Buyer's Agent |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N104 | 67 | **Identification Code** | X | AN | 2/80 | Used |

**Description:** Code identifying a party or other code

**User Note 1:** *May contain the customer store number or customer account number, if requested.*

## 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.

# N2 Additional Name Information

| Pos: 310 | Max: 2 |
|---|---|
| **Heading - Optional** | |
| **Loop: N1** | **Elements: 2** |

**User Option (Usage):** Used

**Purpose:** To specify additional names or those longer than 35 characters in length

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N201 | 93 | **Name** | M | AN | 1/60 | Must use |
| | | **Description:** Free-form name | | | | |
| N202 | 93 | **Name** | O | AN | 1/60 | Used |
| | | **Description:** Free-form name | | | | |

# N3   Address Information

<table>
<tr><td>Pos: 320</td><td>Max: 2</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 2</td></tr>
</table>

**User Option (Usage):** Used

**Purpose:** To specify the location of the named party

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| N301 | 166 | **Address Information** | M | AN | 1/55 | Must use |
| | | **Description:** Address information | | | | |
| N302 | 166 | **Address Information** | O | AN | 1/55 | Used |
| | | **Description:** Address information | | | | |

# N4   Geographic Location

<div style="border:1px solid black;">

**Pos: 330**      **Max: 1**

**Heading - Optional**

**Loop: N1**      **Elements: 4**

</div>

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N401 | 19 | **City Name** | O | AN | 2/30 | Used |
| | | **Description:** Free-form text for city name | | | | |
| N402 | 156 | **State or Province Code** | O | ID | 2/2 | Used |
| | | **Description:** Code (Standard State/Province) as defined by appropriate government agency | | | | |
| N403 | 116 | **Postal Code** | O | ID | 3/15 | Used |
| | | **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | |
| N404 | 26 | **Country Code** | O | ID | 2/3 | Used |
| | | **Description:** Code identifying the country | | | | |

## 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.

# Loop Baseline Item Data

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

**User Option (Usage):** Used

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 010 | PO1 | Baseline Item Data | O | 1 | | Used |
| 050 | | Loop PID | O | | 1000 | Used |
| 270 | | Loop ACK | O | | 104 | Used |

# PO1   Baseline Item Data

| | |
|---|---|
| **Pos: 010** | **Max: 1** |
| **Detail - Optional** | |
| **Loop: PO1** | **Elements: 11** |

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO101 | 350 | **Assigned Identification** | O | AN | 1/20 | Used |

**Description:** Alphanumeric characters assigned for differentiation within a transaction set

**User Note 1:** *This can be a sequential number assigned by IEI, or it may contain the original PO line sequence number from the customer purchase order.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO102 | 330 | **Quantity Ordered** | X | R | 1/15 | Used |

**Description:** Quantity ordered

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO103 | 355 | **Unit or Basis for Measurement Code** | O | 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: 794, Included: 1)

| Code | Name |
|---|---|
| EA | Each |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO104 | 212 | **Unit Price** | X | R | 1/17 | Used |

**Description:** Price per unit of product, service, commodity, etc.

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO105 | 639 | **Basis of Unit Price Code** | O | ID | 2/2 | Used |

**Description:** Code identifying the type of unit price for an item

**CodeList Summary** (Total Codes: 91, Included: 1)

| Code | Name |
|---|---|
| PE | Price per Each |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO106 | 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)

**CodeList Summary** (Total Codes: 477, Included: 3)

| Code | Name |
|---|---|
| IB | International Standard Book Number (ISBN) |
| UK | U.P.C./EAN Shipping Container Code (1-2-5-5-1) |
| UP | U.P.C. Consumer Package Code (1-5-5-1) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PO107 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |

**Description:** Identifying number for a product or service

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| | | **CodeList Summary** (Total Codes: 477, Included: 1) | | | | |
| | | **Code  Name** | | | | |
| | | 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) | | | | |
| | | **CodeList Summary** (Total Codes: 477, Included: 1) | | | | |
| | | **Code  Name** | | | | |
| | | CB     Buyer's Catalog Number | | | | |
| PO111 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |
| | | **Description:** Identifying number for a product or service | | | | |

**User Note 1:** *This contains the customer's original internal SKU number received on the purchase order.  Please note any item lines manually entered in the IEI system will not have this information attached.*

## Syntax Rules:

1. C0302 - If PO103 is present, then PO102 is required.
2. C0504 - If PO105 is present, then PO104 is required.
3. P0607 - If either PO106 or PO107  is present, then the other is required.
4. P0809 - If either PO108 or PO109  is present, then the other is required.
5. P1011 - If either PO110 or PO111  is present, then the other is required.
6. P1213 - If either PO112 or PO113  is present, then the other is required.
7. P1415 - If either PO114 or PO115  is present, then the other is required.
8. P1617 - If either PO116 or PO117  is present, then the other is required.
9. P1819 - If either PO118 or PO119  is present, then the other is required.
10. P2021 - If either PO120 or PO121  is present, then the other is required.
11. P2223 - If either PO122 or PO123  is present, then the other is required.
12. P2425 - If either PO124 or PO125  is present, then the other is required.

## Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# Loop Product/Item Description

| Pos: 050 | Repeat: 1000 |
|---|---|
| | Optional |
| Loop: PID | Elements: N/A |

**User Option (Usage):** Used

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 050 | PID | Product/Item Description | O | 1 | | Used |

# PID  Product/Item Description

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| 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 |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| PID05 | 352 | **Description** | X | AN | 1/80 | Used |

**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.

# Loop Line Item Acknowledgment

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

**User Option (Usage):** Used

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 270 | ACK | Line Item Acknowledgment | O | 1 | | Used |

# ACK  Line Item Acknowledgment

| Pos: 270 | Max: 1 |
|---|---|
| **Detail - Optional** | |
| **Loop: ACK** | **Elements: 5** |

**User Option (Usage):** Used

**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

**User Note 1:** *The following status codes may be sent when changes occur to an order line, after the initial 855 POA transaction has been sent to the customer.  These additional statuses are available on request for our consumer-direct-fulfillment customers.*

*AC    Item has shipped*
*IB    Item has been backordered after originally being accepted*
        *as filled or prebook*
*ID    Item has been cancelled after it was originally accepted*

**CodeList Summary** (Total Codes: 26, Included: 12)

| Code | Name |
|---|---|
| AC | Item Accepted and Shipped |
| BP | Item Accepted - Partial Shipment, Balance Backordered |
| IA | Item Accepted |
| IB | Item Backordered |
| IC | Item Accepted - Changes Made |
| ID | Item Deleted |
| IH | Item on Hold |
| IP | Item Accepted - Price Changed |
| IR | Item Rejected |
| R1 | Item Rejected, Not a Contract Item |
| R2 | Item Rejected, Invalid Item Product Number |
| R4 | Item Rejected, Contract Item not Available |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ACK02 | 380 | **Quantity** | X | R | 1/15 | Used |

**Description:** Numeric value of quantity

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ACK03 | 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: 794, Included: 1)

| Code | Name |
|---|---|
| EA | Each |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ACK04 | 374 | **Date/Time Qualifier** | O | ID | 3/3 | Used |

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

**All valid standard codes are used. (Total Codes: 1112)**

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| ACK05 | 373 | **Date** | X | DT | 8/8 | Used |

**Description:** Date expressed as CCYYMMDD

## 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 Transaction Totals

<table>
<tr><td><strong>Pos: 010</strong></td><td><strong>Repeat: 1</strong></td></tr>
<tr><td colspan="2" align="center"><strong>Optional</strong></td></tr>
<tr><td colspan="2"><strong>Loop: CTT   Elements: N/A</strong></td></tr>
</table>

**User Option (Usage):** Used

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|-----|--------------|-----|---------|--------|-------|
| 010 | CTT | Transaction Totals | O | 1 | | Used |

# CTT  Transaction Totals

| | |
|---|---|
| **Pos: 010** | **Max: 1** |
| **Summary - Optional** | |
| **Loop: CTT** | **Elements: 7** |

**User Option (Usage):** Used

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT01 | 354 | **Number of Line Items** | M | N0 | 1/6 | Must use |

**Description:** Total number of line items in the transaction set

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT02 | 347 | **Hash Total** | O | R | 1/10 | Used |

**Description:** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example:  -.0018 First occurrence of value being hashed.   .18 Second occurrence of value being hashed.  1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed.  --------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT03 | 81 | **Weight** | X | R | 1/10 | Used |

**Description:** Numeric value of weight

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT04 | 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
**All valid standard codes are used. (Total Codes: 794)**

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT05 | 183 | **Volume** | X | R | 1/8 | Used |

**Description:** Value of volumetric measure

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT06 | 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
**All valid standard codes are used. (Total Codes: 794)**

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| CTT07 | 352 | **Description** | O | AN | 1/80 | Used |

**Description:** A free-form description to clarify the related data elements and their content

## Syntax Rules:

1. P0304 - If either CTT03 or CTT04  is present, then the other is required.
2. P0506 - If either CTT05 or CTT06  is present, then the other is required.

## Comments:

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

# SE  Transaction Set Trailer

| Pos: 030 | Max: 1 |
|---|---|
| **Summary - Mandatory** | |
| **Loop: N/A** | **Elements: 2** |

**User Option (Usage):** Must use

**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:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| 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.