# 810 Invoice

**X12/V5010/810: 810 Invoice**

| | |
|---|---|
| **Company:** | **WoodCraft Supply** |
| **Created:** | **11/26/2012** |
| **Modified:** | **1/11/2013** |
| **Notes:** | |

# 810  Invoice

## Functional Group= IN

**Purpose:** This X12 Transaction Set contains the format and establishes the data contents of the Invoice Transaction Set (810) 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 billing for goods and services provided.

## Heading:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|------|-----|---------|--------|-------|-------|
| 0100 | ST | Transaction Set Header | M | 1 | | | Must use |
| 0200 | BIG | Beginning Segment for Invoice | M | 1 | | | Must use |
| 0500 | REF | Reference Information | M | 3 | | | Must use |
| **LOOP ID - N1** | | | | | **3** | | |
| 0700 | N1 | Party Identification | M | 1 | | | Must use |
| 0900 | N3 | Party Location | C | 1 | | | Used |
| 1000 | N4 | Geographic Location | C | 1 | | | Used |
| 1300 | ITD | Terms of Sale/Deferred Terms of Sale | O | 1 | | | Used |
| 1400 | DTM | Date/Time Reference | M | 1 | | | Must use |

## Detail:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|------|-----|---------|--------|-------|-------|
| **LOOP ID - IT1** | | | | | **20000** | | |
| 0100 | IT1 | Baseline Item Data (Invoice) | M | 1 | | | Must use |
| **LOOP ID - PID** | | | | | **1** | | |
| 0600 | PID | Product/Item Description | M | 1 | | | Must use |

## Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|------|-----|---------|--------|-------|-------|
| 0100 | TDS | Total Monetary Value Summary | M | 1 | | | Must use |
| 0300 | CAD | Carrier Details | O | 1 | | | Used |
| **LOOP ID - SAC** | | | | | **999999** | | |
| 0400 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | Used |
| **LOOP ID - ISS** | | | | | **1** | | |
| 0600 | ISS | Invoice Shipment Summary | O | 1 | | | Used |
| 0700 | CTT | Transaction Totals | M | 1 | | N3/0700 | Must use |
| 0800 | SE | Transaction Set Trailer | M | 1 | | | Must use |

## Notes:

3/0700    Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the hash total of the quantities invoiced (IT102) for each IT1 segment.

# ST  Transaction Set Header

<table>
<tr><td>Pos: 0100</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

**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 |
|------|------|
| 810 | Invoice |

| 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) 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.

# BIG Beginning Segment for Invoice

**Pos: 0200          Max: 1**
**Heading - Mandatory**
**Loop: N/A          Elements: 4**

**User Option (Usage):** Must use
**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| BIG01 | 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:** *Invoice Date*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| BIG02 | 76 | **Invoice Number** | M | AN | 1/22 | Must use |

**Description:** Identifying number assigned by issuer

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| BIG03 | 373 | **Date** | M | DT | 8/8 | Must use |

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| BIG04 | 324 | **Purchase Order Number** | M | AN | 1/22 | Must use |

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

## Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 is the consolidated invoice number associated with the invoice identified in BIG02.  When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

## Comments:

1. BIG07 is used only to further define the type of invoice when needed.

# REF   Reference Information

<table>
<tr><td>Pos: 0500</td><td>Max: 3</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

**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 |
|------|------|
| BM | Bill of Lading Number |
| CO | Customer Order Number |
| IA | Internal Vendor Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| REF02 | 127 | **Reference Identification** | M | AN | 1/50 | Must use |

**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.

### User Note 1:

*Internal Vendor Number is Mandatory*
*Customer Order Number is required for Drop Ship shipments*

# Loop Party Identification

| Pos: 0700 | Repeat: 3 |
|---|---|
| Mandatory | |
| Loop: N1 | Elements: N/A |

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

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 0700 | N1 | Party Identification | M | 1 | | Must use |
| 0900 | N3 | Party Location | C | 1 | | Used |
| 1000 | N4 | Geographic Location | C | 1 | | Used |

# N1  Party Identification

<table>
<tr><td>Pos: 0700</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

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

**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: 1500, Included: 3)

| Code | Name |
|------|------|
| BT | Bill-to-Party |
| RI | Remit To |
| ST | Ship To |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------|-----|------|---------|-------|
| N102 | 93 | **Name** | M | AN | 1/60 | Must use |

**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: 241, Included: 1)

| Code | Name |
|------|------|
| 92 | Assigned by Buyer or Buyer's Agent |

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

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

## 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.

### User Note 1:

*Bill To and Ship To are required.*

*If N101 is equal to Bill To (BT), then N103 (92) and N104 are required.*

*When N104 is populated, the value must match what was sent on the 850 Purchase Order.*

*The retailer will populate N104 on the 850 Purchase Order with the store number or "CORP".  Only corporate orders ("CORP") can be processed via EDI. All other locations' orders will be processed manually, and if sent via*

*EDI will fail.*

# N3   Party Location

| | |
|---|---|
| **Pos: 0900** | **Max: 1** |
| **Heading - Conditional** | |
| **Loop: N1** | **Elements: 2** |

**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 | | | | |

### User Note 1:

*N3 segment is required for Remit To (RI).*

# N4   Geographic Location

| | |
|---|---|
| **Pos: 1000** | **Max: 1** |
| **Heading - Conditional** | |
| **Loop: N1** | **Elements: 4** |

**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** | C | AN | 2/30 | Used |
| | | **Description:** Free-form text for city name | | | | |
| N402 | 156 | **State or Province Code** | C | ID | 2/2 | Used |
| | | **Description:** Code (Standard State/Province) as defined by appropriate government agency | | | | |
| N403 | 116 | **Postal Code** | C | 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. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 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.

## User Note 1:

*N401, N402 and N403 are required for Remit To (RI).*

*If any of [N401, N402, N403, N404] are present, then [N401] is required.*

# ITD  Terms of Sale/Deferred Terms of Sale

| Pos: 1300 | Max: 1 |
|---|---|
| **Heading - Optional** | |
| Loop: N/A | Elements: 5 |

**User Option (Usage):** Used

**Purpose:** To specify terms of sale

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD01 | 336 | **Terms Type Code** | O | ID | 2/2 | Used |

**Description:** Code identifying type of payment terms

**CodeList Summary** (Total Codes: 77, Included: 2)

| Code | Name |
|---|---|
| 05 | Discount Not Applicable |
| 08 | Basic Discount Offered |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD03 | 338 | **Terms Discount Percent** | O | R | 1/6 | Used |

**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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD05 | 351 | **Terms Discount Days Due** | C | N0 | 1/3 | Used |

**Description:** Number of days in the terms discount period by which payment is due if terms discount is earned

**User Note 1:** *If data send in terms discount percent field this field is required*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD07 | 386 | **Terms Net Days** | O | N0 | 1/3 | Used |

**Description:** Number of days until total invoice amount is due (discount not applicable)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD12 | 352 | **Description** | M | AN | 1/80 | Must use |

**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.

# DTM  Date/Time Reference

| Pos: 1400 | Max: 1 |
|---|---|
| **Heading - Mandatory** | |
| Loop: N/A | Elements: 2 |

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

**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: 1)

| Code | Name |
|---|---|
| 011 | Shipped |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| DTM02 | 373 | **Date** | M | DT | 8/8 | Must use |

**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.

# Loop Baseline Item Data (Invoice)

**Pos: 0100    Repeat: 20000**
**Mandatory**
**Loop: IT1    Elements: N/A**

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

**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|------|------|----------------------------|------|---------|--------|----------|
| 0100 | IT1 | Baseline Item Data (Invoice) | M | 1 | | Must use |
| 0600 | | Loop PID | M | | 1 | Must use |

# IT1 Baseline Item Data (Invoice)

| Pos: 0100 | Max: 1 |
|-----------|--------|
| **Detail - Mandatory** | |
| **Loop: IT1** | **Elements: 10** |

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

**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT101 | 350 | **Assigned Identification** | O | AN | 1/20 | Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT102 | 358 | **Quantity Invoiced** | M | R | 1/15 | Must use |

**Description:** Number of units invoiced (supplier units)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT103 | 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: 2)

| Code | Name |
|------|------|
| CA | Case |
| EA | Each |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT104 | 212 | **Unit Price** | M | R | 1/17 | Must use |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT106 | 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)

**CodeList Summary** (Total Codes: 519, Included: 1)

| Code | Name |
|------|------|
| CB | Buyer's Catalog Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT107 | 234 | **Product/Service ID** | M | AN | 1/48 | Must use |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT108 | 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)

**CodeList Summary** (Total Codes: 519, Included: 1)

| Code | Name |
|------|------|
| VN | Vendor's (Seller's) Item Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT109 | 234 | **Product/Service ID** | C | AN | 1/48 | Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| IT110 | 235 | **Product/Service ID Qualifier** | C | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in

| **Ref** | **Id** | **Element Name** | **Req** | **Type** | **Min/Max** | **Usage** |
|---------|--------|------------------|---------|----------|-------------|-----------|
| | | Product/Service ID (234) | | | | |

**CodeList Summary** (Total Codes: 519, Included: 1)

| **Code** | **Name** |
|----------|----------|
| UP | UCC - 12 |

> **User Note 1:**
>
> *The UP qualifier is used to represent any of the family of GTIN (Global Trade Item Number) data structures:*
> *GTIN-12 (UPC-12)*
> *GTIN-13 (EAN/UCC-13)*
> *GTIN-14 (ITF14)*
> *GTIN-8 (EAN/UCC-8)*

| | | | | | | |
|---------|--------|------------------|---------|----------|-------------|-----------|
| IT111 | 234 | **Product/Service ID** | C | AN | 1/48 | Used |

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

## Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104  are present, then the others are required.
2. P0607 - If either IT106 or IT107  is present, then the other is required.
3. P0809 - If either IT108 or IT109  is present, then the other is required.
4. P1011 - If either IT110 or IT111  is present, then the other is required.
5. P1213 - If either IT112 or IT113  is present, then the other is required.
6. P1415 - If either IT114 or IT115  is present, then the other is required.
7. P1617 - If either IT116 or IT117  is present, then the other is required.
8. P1819 - If either IT118 or IT119  is present, then the other is required.
9. P2021 - If either IT120 or IT121  is present, then the other is required.
10. P2223 - If either IT122 or IT123  is present, then the other is required.
11. P2425 - If either IT124 or IT125  is present, then the other is required.

## Semantics:

1. IT101 is the line item identification.

## Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# Loop Product/Item Description

| Pos: 0600 | Repeat: 1 |
|---|---|
| **Mandatory** | |
| **Loop: PID** | **Elements: N/A** |

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

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 0600 | PID | Product/Item Description | M | 1 | | Must use |

# PID    Product/Item Description

| Pos: 0600              Max: 1 |
| Detail - Mandatory |
| Loop: PID         Elements: 3 |

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

**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 |
|------|-----|--------------|------|------|---------|-------|
| PID02 | 750 | **Product/Process Characteristic Code** | O | ID | 2/3 | Used |

**Description:** Code identifying the general class of a product or process characteristic

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

**Code  Name**
08       Product

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|--------------|------|------|---------|-------|
| PID05 | 352 | **Description** | M | AN | 1/80 | Must use |

**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.

# TDS  Total Monetary Value Summary

| Pos: 0100 | Max: 1 |
|---|---|
| **Summary - Mandatory** | |
| **Loop: N/A** | **Elements: 4** |

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

**Purpose:** To specify the total invoice discounts and amounts

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| TDS01 | 610 | **Amount** | M | N2 | 1/15 | Must use |
| | | **Description:** Monetary amount | | | | |
| | | **User Note 1:** *Total Amount of Invoice (Total +/- Charges and Allowances)* | | | | |
| TDS02 | 610 | **Amount** | O | N2 | 1/15 | Used |
| | | **Description:** Monetary amount | | | | |
| | | **User Note 1:** *Merchandise Amount (item price X item quantity)* | | | | |
| TDS03 | 610 | **Amount** | O | N2 | 1/15 | Used |
| | | **Description:** Monetary amount | | | | |
| | | **User Note 1:** *Net Amount (Invoice Total - Cash Discount)* | | | | |
| TDS04 | 610 | **Amount** | O | N2 | 1/15 | Used |
| | | **Description:** Monetary amount | | | | |
| | | **User Note 1:** *Total Terms Discount* | | | | |

## Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

## Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

# CAD  Carrier Details

<table>
<tr><td>Pos: 0300</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 4</td></tr>
</table>

**User Option (Usage):** Used

**Purpose:** To specify transportation details for the transaction

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CAD01 | 91 | **Transportation Method/Type Code** | M | ID | 1/2 | Must use |

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

**CodeList Summary** (Total Codes: 80, Included: 1)

| Code | Name |
|------|------|
| ZZ | Mutually defined |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CAD05 | 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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CAD07 | 128 | **Reference Identification Qualifier** | O | ID | 2/3 | Used |

**Description:** Code qualifying the Reference Identification

**CodeList Summary** (Total Codes: 1731, Included: 2)

| Code | Name |
|------|------|
| 2I | Tracking Number |
| CN | Carrier's Reference Number (PRO/Invoice) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CAD08 | 127 | **Reference Identification** | O | AN | 1/50 | Used |

**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

## Syntax Rules:

1. R0504 - At least one of CAD05 or CAD04 is required.
2. C0708 - If CAD07 is present, then CAD08 is required.

# Loop Service, Promotion, Allowance, or Charge Information

| Pos: 0400 | Repeat: 999999 |
|---|---|
| **Optional** | |
| **Loop: SAC** | **Elements: N/A** |

**User Option (Usage):** Used

**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 0400 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | Used |

# SAC  Service, Promotion, Allowance, or Charge Information

<table>
<tr><td>Pos: 0400</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: SAC</td><td>Elements: 4</td></tr>
</table>

**User Option (Usage):** Used

**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| SAC01 | 248 | **Allowance or Charge Indicator** | M | ID | 1/1 | Must use |

**Description:** Code which indicates an allowance or charge for the service specified

**CodeList Summary** (Total Codes: 7, Included: 2)

| Code | Name |
|------|------|
| A | Allowance |
| C | Charge |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| SAC02 | 1300 | **Service, Promotion, Allowance, or Charge Code** | M | ID | 4/4 | Must use |

**Description:** Code identifying the service, promotion, allowance, or charge

**CodeList Summary** (Total Codes: 1090, Included: 7)

| Code | Name |
|------|------|
| B720 | Cooperative Advertising/Merchandising Allowance (Performance) |
| C000 | Defective Allowance |
| C310 | Discount |
| D240 | Freight |
| D500 | Handling |

> **User Note 1:**
>
> *Used for Drop Ship charges*

| Code | Name |
|------|------|
| F800 | Promotional Allowance |
| G830 | Shipping and Handling |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| SAC05 | 610 | **Amount** | M | N2 | 1/15 | Must use |

**Description:** Monetary amount

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| SAC15 | 352 | **Description** | M | AN | 1/80 | Must use |

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

## Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04  is present, then the other is required.
3. P0607 - If either SAC06 or SAC07  is present, then the other is required.
4. P0910 - If either SAC09 or SAC10  is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. C1413 - If SAC14 is present, then SAC13 is required.

7. C1615 - If SAC16 is present, then SAC15 is required.

## Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.

2. SAC05 is the total amount for the service, promotion, allowance, or charge.

3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

4. SAC08 is the allowance or charge rate per unit.

5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

9. SAC16 is used to identify the language being used in SAC15.

## Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.

2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

# Loop Invoice Shipment Summary

| Pos: 0600 | Repeat: 1 |
|---|---|
| | **Optional** |
| **Loop: ISS** | **Elements: N/A** |

**User Option (Usage):** Used

**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 0600 | ISS | Invoice Shipment Summary | O | 1 | | Used |

# ISS Invoice Shipment Summary

| Pos: 0600 | Max: 1 |
| --- | --- |
| Summary - Optional | |
| Loop: ISS | Elements: 2 |

**User Option (Usage):** Used

**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| ISS01 | 382 | **Number of Units Shipped** | M | R | 1/10 | Must use |

**Description:** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| ISS02 | 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: 2)

| Code | Name |
| --- | --- |
| CA | Case |
| EA | Each |

## Syntax Rules:

1. R010305 - At least one of ISS01, ISS03 or ISS05 is required.
2. P0102 - If either ISS01 or ISS02  is present, then the other is required.
3. P0304 - If either ISS03 or ISS04  is present, then the other is required.
4. P0506 - If either ISS05 or ISS06  is present, then the other is required.

## Semantics:

1. ISS07 is the quantity of third party pallets.
2. ISS08 is the gross weight of third party pallets in pounds.

# CTT  Transaction Totals

<table>
<tr><td>Pos: 0700</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 1</td></tr>
</table>

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

**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

## 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: 0800          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

| | | | | | | |
|-----|-----|--------------|-----|------|---------|-------|
| 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.