# 810 Invoice

## Version: X12-4010

# Table of Contents

# 810 Invoice

## Functional Group=IN

**Purpose:** This Draft Standard for Trial Use 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 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 010 | ST | Transaction Set Header | M | 1 | | | Required |
| 020 | BIG | Beginning Segment for Invoice | M | 1 | | | Required |
| 040 | CUR | Currency | O | 1 | | | Used |
| 050 | REF | Reference Identification | O | 12 | | | Used |
| **LOOP ID - N1** | | | | | **200** | | |
| 070 | N1 | Name | O | 1 | | | Required |
| 080 | N2 | Additional Name Information | O | 2 | | | Used |
| 090 | N3 | Address Information | O | 2 | | | Used |
| 100 | N4 | Geographic Location | O | 1 | | | Used |
| 120 | PER | Administrative Communications Contact | O | 3 | | | Used |
| 130 | ITD | Terms of Sale/Deferred Terms of Sale | O | >1 | | | Used |
| 140 | DTM | Date/Time Reference | O | 10 | | | Used |

## Detail:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| **LOOP ID - IT1** | | | | | **200000** | | |
| 010 | IT1 | Baseline Item Data (Invoice) | O | 1 | | | Used |
| 015 | QTY | Quantity | O | 5 | | N2/015 | Used |
| 050 | CTP | Pricing Information | O | 25 | | | Used |
| **LOOP ID - PID** | | | | | **1000** | | |
| 060 | PID | Product/Item Description | O | 1 | | | Used |
| **LOOP ID - SAC** | | | | | **25** | | |
| 180 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | Used |

## Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 010 | TDS | Total Monetary Value Summary | M | 1 | | | Required |
| 020 | TXI | Tax Information | O | 10 | | | Used |
| **LOOP ID - SAC** | | | | | **25** | | |
| 040 | SAC | Service, Promotion, Allowance, or Charge | O | 1 | | | Used |

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-------------|-----|---------|--------|-------|-------|
|     |    | Information  |     |         |        |       |       |
| 070 | CTT | Transaction Totals | O | 1 | | N3/070 | Required |
| 080 | SE | Transaction Set Trailer | M | 1 | | | Required |

## Notes:

2/015   The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.

3/070   Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

# ST  Transaction Set Header

| Pos: 010 | Max: 1 |
|---|---|
| **Heading - Mandatory** | |
| **Loop: N/A** | **Elements: 2** |

**User Option (Usage):** Required

**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 | Required |

**Description:** Code uniquely identifying a Transaction Set

| Code | Name |
|---|---|
| 810 | Invoice |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ST02 | 329 | **Transaction Set Control Number** | M | AN | 4/9 | Required |

**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).

# BIG  Beginning Segment for Invoice

| Pos: 020 | Max: 1 |
|---|---|
| Heading - Mandatory | |
| Loop: N/A | Elements: 10 |

**User Option (Usage):** Required

**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 | Required |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| BIG02 | 76 | **Invoice Number** | M | AN | 1/22 | Required |
| | | **Description:** Identifying number assigned by issuer | | | | |
| BIG03 | 373 | **Date** | O | DT | 8/8 | Used |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| BIG04 | 324 | **Purchase Order Number** | O | AN | 1/22 | Used |
| | | **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser | | | | |
| BIG05 | 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 | | | | |
| BIG06 | 327 | **Change Order Sequence Number** | O | AN | 1/8 | Used |
| | | **Description:** Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set | | | | |
| | | **User:** *This element is used by the publisher/manufacturer group.* | | | | |
| BIG07 | 640 | **Transaction Type Code** | O | ID | 2/2 | Used |
| | | **Description:** Code specifying the type of transaction | | | | |

**Code  Name**

CI      Consolidated Invoice
CR      Credit Memo
DR      Debit Memo

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| BIG08 | 353 | **Transaction Set Purpose Code** | O | ID | 2/2 | Used |
| | | **Description:** Code identifying purpose of transaction set | | | | |

|  |  | **Code** | **Name** |  |  |  |  |
|---|---|---|---|---|---|---|---|
|  |  | 00 | Original |  |  |  |  |
| * | BIG09 | 306 | **Action Code** | O | ID | 1/2 | Not Used |

**Description:** Code indicating type of action

| * | BIG10 | 76 | **Invoice Number** | O | AN | 1/22 | Not Used |

**Description:** Identifying number assigned by issuer

## Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

## Comments:

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

# CUR Currency

<table>
<tr><td>Pos: 040</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 21</td></tr>
</table>

**User Option (Usage):** Used

**Purpose:** To specify the currency (dollars, pounds, francs, etc.) used in a transaction

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CUR01 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Required |

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

| Code | Name |
|------|------|
| BY | Buying Party (Purchaser) |
| SE | Selling Party |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CUR02 | 100 | **Currency Code** | M | ID | 3/3 | Required |

**Description:** Code (Standard ISO) for country in whose currency the charges are specified

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR03 | 280 | **Exchange Rate** | O | R | 4/10 | Not Used |

**Description:** Value to be used as a multiplier conversion factor to convert monetary value from one currency to another

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR04 | 98 | **Entity Identifier Code** | O | ID | 2/3 | Not Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR05 | 100 | **Currency Code** | O | ID | 3/3 | Not Used |

**Description:** Code (Standard ISO) for country in whose currency the charges are specified

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR06 | 669 | **Currency Market/Exchange Code** | O | ID | 3/3 | Not Used |

**Description:** Code identifying the market upon which the currency exchange rate is based

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR07 | 374 | **Date/Time Qualifier** | X | ID | 3/3 | Not Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR08 | 373 | **Date** | O | DT | 8/8 | Not Used |

**Description:** Date expressed as CCYYMMDD

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * CUR09 | 337 | **Time** | O | TM | 4/8 | Not Used |

**Description:** Time expressed in 24-hour

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|---|---|---|---|---|---|
| | | 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) | | | | |
| * CUR10 | 374 | **Date/Time Qualifier** | X | ID | 3/3 | Not Used |
| | | **Description:** Code specifying type of date or time, or both date and time | | | | |
| * CUR11 | 373 | **Date** | X | DT | 8/8 | Not Used |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| * CUR12 | 337 | **Time** | X | TM | 4/8 | Not Used |
| | | **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) | | | | |
| * CUR13 | 374 | **Date/Time Qualifier** | X | ID | 3/3 | Not Used |
| | | **Description:** Code specifying type of date or time, or both date and time | | | | |
| * CUR14 | 373 | **Date** | X | DT | 8/8 | Not Used |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| * CUR15 | 337 | **Time** | X | TM | 4/8 | Not Used |
| | | **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) | | | | |
| * CUR16 | 374 | **Date/Time Qualifier** | X | ID | 3/3 | Not Used |
| | | **Description:** Code specifying type of date or time, or both date and time | | | | |
| * CUR17 | 373 | **Date** | X | DT | 8/8 | Not Used |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| * CUR18 | 337 | **Time** | X | TM | 4/8 | Not Used |
| | | **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|---|---|---|---|---|---|
| | | 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) | | | | |
| * CUR19 | 374 | **Date/Time Qualifier** | X | ID | 3/3 | Not Used |
| | | **Description:** Code specifying type of date or time, or both date and time | | | | |
| * CUR20 | 373 | **Date** | X | DT | 8/8 | Not Used |
| | | **Description:** Date expressed as CCYYMMDD | | | | |
| * CUR21 | 337 | **Time** | X | TM | 4/8 | Not Used |
| | | **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) | | | | |

## Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

## Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

# REF   Reference Identification

| Pos: 050 | Max: 12 |
|---|---|
| **Heading - Optional** | |
| Loop: N/A | Elements: 4 |

**User Option (Usage):** Used

**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 | Required |

**Description:** Code qualifying the Reference Identification

| Code | Name |
|---|---|
| 2I | Tracking Number |
| BM | Bill of Lading Number |
| CT | Contract Number |
| FU | Fund Code |

**Description:** *Defense Fuel Supply Center to bill back fuel purchases to the appropriate service or agency account fund*

| | |
|---|---|
| GT | Goods and Service Tax Registration Number |
| IA | Internal Vendor Number |
| IT | Internal Customer Number |
| KK | Delivery Reference |
| OI | Original Invoice Number |
| PK | Packing List Number |
| PL | Price List Number |
| TJ | Federal Taxpayer's Identification Number |
| TX | Tax Exempt Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| REF02 | 127 | **Reference Identification** | X | AN | 1/30 | Used |

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

**User:** *This data element is required in Canada.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * REF03 | 352 | **Description** | X | AN | 1/80 | Not Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * REF04 | C040 | **Reference Identifier** | O | Comp | | Not Used |

**Description:** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * | 128 | **Reference Identification Qualifier** | M | ID | 2/3 | Not Used |

**Description:** Code qualifying the Reference Identification

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| * | 127 | **Reference Identification** | M | AN | 1/30 | Not Used |
| | | **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| * | 128 | **Reference Identification Qualifier** | X | ID | 2/3 | Not Used |
| | | **Description:** Code qualifying the Reference Identification | | | | |
| * | 127 | **Reference Identification** | X | AN | 1/30 | Not Used |
| | | **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| * | 128 | **Reference Identification Qualifier** | X | ID | 2/3 | Not Used |
| | | **Description:** Code qualifying the Reference Identification | | | | |
| * | 127 | **Reference Identification** | X | AN | 1/30 | Not Used |
| | | **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:**

*This segment is not recommended in the U.S.*

*This segment is REQUIRED in Canada.*

# Loop Name

| Pos: 070 | Repeat: 200 |
|---|---|
| **Optional** | |
| **Loop: N1** | **Elements: N/A** |

**User Option (Usage):** Required

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

## Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|---|---|---|---|---|---|---|
| 070 | N1 | Name | O | 1 | | Required |
| 080 | N2 | Additional Name Information | O | 2 | | Used |
| 090 | N3 | Address Information | O | 2 | | Used |
| 100 | N4 | Geographic Location | O | 1 | | Used |
| 120 | PER | Administrative Communications Contact | O | 3 | | Used |

# N1  Name

<table>
<tr><td>Pos: 070</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 6</td></tr>
</table>

**User Option (Usage):** Required

**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 | Required |

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

| Code | Name |
|---|---|
| 91 | Action Party |

**Description:** *The organization responsible for investigation and resolution*

| | |
|---|---|
| 92 | Support Party |

**Description:** *The organization supporting the resolution of an investigation*

| | |
|---|---|
| BT | Bill-to-Party |
| RI | Remit To |
| SF | Ship From |
| ST | Ship To |
| VN | Vendor |

| | 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)

| Code | Name |
|---|---|
| 1 | D-U-N-S Number, Dun & Bradstreet |
| 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix |
| 12 | Telephone Number (Phone) |
| 15 | Standard Address Number (SAN) |
| 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

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | N105 | 706 | **Entity Relationship Code** | O | ID | 2/2 | Not Used |

**Description:** Code describing entity relationship

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | N106 | 98 | **Entity Identifier Code** | O | ID | 2/3 | Not Used |

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
|     |    | property or an individual |  |  |  |  |

## 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: 080**          **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 | Required |
| | | **Description:** Free-form name | | | | |
| N202 | 93 | **Name** | O | AN | 1/60 | Used |
| | | **Description:** Free-form name | | | | |

# N3  Address Information

| Pos: 090 | Max: 2 |
|---|---|
| **Heading - Optional** | |
| **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 | Required |
| | | **Description:** Address information | | | | |
| N302 | 166 | **Address Information** | O | AN | 1/55 | Used |
| | | **Description:** Address information | | | | |

# N4  Geographic Location

| | |
|---|---|
| **Pos: 100** | **Max: 1** |
| **Heading - Optional** | |
| **Loop: N1** | **Elements: 6** |

**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 | | | | |
| * N405 | 309 | **Location Qualifier** | X | ID | 1/2 | Not Used |
| | | **Description:** Code identifying type of location | | | | |
| * N406 | 310 | **Location Identifier** | O | AN | 1/30 | Not Used |
| | | **Description:** Code which identifies a specific location | | | | |

## 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.

# PER  Administrative Communications Contact

| Pos: 120 | Max: 3 |
|---|---|
| **Heading - Optional** | |
| **Loop: N1** | **Elements: 9** |

**User Option (Usage):** Used

**Purpose:** To identify a person or office to whom administrative communications should be directed

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER01 | 366 | **Contact Function Code** | M | ID | 2/2 | Required |

**Description:** Code identifying the major duty or responsibility of the person or group named

| Code | Name |
|---|---|
| AP | Accounts Payable Department |
| AR | Accounts Receivable Department |
| BD | Buyer Name or Department |
| SU | Supplier Contact |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER02 | 93 | **Name** | O | AN | 1/60 | Used |

**Description:** Free-form name

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER03 | 365 | **Communication Number Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type of communication number

| Code | Name |
|---|---|
| BN | Beeper Number |
| CP | Cellular Phone |
| EM | Electronic Mail |
| EX | Telephone Extension |
| FX | Facsimile |
| TE | Telephone |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER04 | 364 | **Communication Number** | X | AN | 1/80 | Used |

**Description:** Complete communications number including country or area code when applicable

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER05 | 365 | **Communication Number Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type of communication number

**User:** *Refer to code list specified in 'PER03' for usage.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER06 | 364 | **Communication Number** | X | AN | 1/80 | Used |

**Description:** Complete communications number including country or area code when applicable

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER07 | 365 | **Communication Number Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type of communication number

**User:** *Refer to code list specified in 'PER03' for usage.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PER08 | 364 | **Communication Number** | X | AN | 1/80 | Used |

**Description:** Complete communications number including country or area code when applicable

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * PER09 | 443 | **Contact Inquiry Reference** | O | AN | 1/20 | Not Used |

**Description:** Additional reference number or description to clarify a contact number

## Syntax Rules:

1. P0304 - If either PER03 or PER04  is present, then the other is required.
2. P0506 - If either PER05 or PER06  is present, then the other is required.
3. P0708 - If either PER07 or PER08  is present, then the other is required.

# ITD Terms of Sale/Deferred Terms of Sale

| Pos: 130 | Max: >1 |
|---|---|
| **Heading - Optional** | |
| **Loop: N/A** | **Elements: 15** |

**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

| Code | Name |
|---|---|
| 01 | Basic |
| 02 | End of Month (EOM) |
| 03 | Fixed Date |
| 05 | Discount Not Applicable |
| 07 | Extended |
| 12 | 10 Days After End of Month (10 EOM) |
| 14 | Previously agreed upon |
| 18 | Fixed Date, Late Payment Penalty Applies |

**Description:** *Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date*

| | |
|---|---|
| 22 | Cash Discount Terms Apply |

**Description:** *Contract terms specify that a cash discount is applicable*

| | |
|---|---|
| CO | Consignment |
| NC | No Charge |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ITD02 | 333 | **Terms Basis Date Code** | O | ID | 1/2 | Used |

**Description:** Code identifying the beginning of the terms period

| Code | Name |
|---|---|
| 1 | Ship Date |
| 3 | Invoice Date |
| 4 | Specified Date |
| 8 | Invoice Transmission Date |

| 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 |
|---|---|---|---|---|---|---|
| ITD04 | 370 | **Terms Discount Due Date** | X | DT | 8/8 | Used |

**Description:** Date payment is due if discount is to be earned expressed in format CCYYMMDD

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

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| | | **Description:** Number of days in the terms discount period by which payment is due if terms discount is earned | | | | |
| ITD06 | 446 | **Terms Net Due Date** | O | DT | 8/8 | Used |
| | | **Description:** Date when total invoice amount becomes due expressed in format CCYYMMDD | | | | |
| ITD07 | 386 | **Terms Net Days** | O | N0 | 1/3 | Used |
| | | **Description:** Number of days until total invoice amount is due (discount not applicable) | | | | |
| ITD08 | 362 | **Terms Discount Amount** | O | N2 | 1/10 | Used |
| | | **Description:** Total amount of terms discount | | | | |
| * ITD09 | 388 | **Terms Deferred Due Date** | O | DT | 8/8 | Not Used |
| | | **Description:** Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD | | | | |
| * ITD10 | 389 | **Deferred Amount Due** | X | N2 | 1/10 | Not Used |
| | | **Description:** Deferred amount due for payment | | | | |
| * ITD11 | 342 | **Percent of Invoice Payable** | X | R | 1/5 | Not Used |
| | | **Description:** Amount of invoice payable expressed in percent | | | | |
| * ITD12 | 352 | **Description** | O | AN | 1/80 | Not Used |
| | | **Description:** A free-form description to clarify the related data elements and their content | | | | |
| * ITD13 | 765 | **Day of Month** | X | N0 | 1/2 | Not Used |
| | | **Description:** The numeric value of the day of the month between 1 and the maximum day of the month being referenced | | | | |
| ITD14 | 107 | **Payment Method Code** | O | ID | 1/2 | Used |
| | | **Description:** Code identifying type of payment procedures | | | | |

**Code** **Name**
C     Pay By Check
E     Electronic Payment System
L     Letter of Credit

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * ITD15 | 954 | **Percent** | O | R | 1/10 | Not Used |
| | | **Description:** Percentage expressed as a decimal | | | | |

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

## Syntax Rules:

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

## Semantics:

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

## Comments:

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

### User:

*This segment is not recommended in the U.S.*

# DTM Date/Time Reference

| Pos: 140 | Max: 10 |
| --- | --- |
| Heading - Optional | |
| Loop: N/A | Elements: 7 |

**User Option (Usage):** Used

**Purpose:** To specify pertinent dates and times

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| DTM01 | 374 | **Date/Time Qualifier** | M | ID | 3/3 | Required |

> **Description:** Code specifying type of date or time, or both date and time
>
> **Code  Name**
> 011    Shipped

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| DTM02 | 373 | **Date** | X | DT | 8/8 | Required |

> **Description:** Date expressed as CCYYMMDD

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| * DTM03 | 337 | **Time** | X | TM | 4/8 | Not Used |

> **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)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| * DTM04 | 623 | **Time Code** | O | ID | 2/2 | Not Used |

> **Description:** Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| * DTM05 | 624 | **Century** | O | N0 | 2/2 | Not Used |

> **Description:** The first two characters in the designation of the year (CCYY)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| * DTM06 | 1250 | **Date Time Period Format Qualifier** | X | ID | 2/3 | Not Used |

> **Description:** Code indicating the date format, time format, or date and time format

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
| --- | --- | --- | --- | --- | --- | --- |
| * DTM07 | 1251 | **Date Time Period** | X | AN | 1/35 | Not Used |

> **Description:** Expression of a date, a time, or range of dates, times or dates and times

## 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: 010** | **Repeat: 200000** |
| **Optional** | |
| **Loop: IT1** | **Elements: N/A** |

**User Option (Usage):** Used

**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 |
|---|---|---|---|---|---|---|
| 010 | IT1 | Baseline Item Data (Invoice) | O | 1 | | Used |
| 015 | QTY | Quantity | O | 5 | | Used |
| 050 | CTP | Pricing Information | O | 25 | | Used |
| 060 | | Loop PID | O | | 1000 | Used |
| 180 | | Loop SAC | O | | 25 | Used |

# IT1 Baseline Item Data (Invoice)

| | |
|---|---|
| **Pos: 010** | **Max: 1** |
| **Detail - Optional** | |
| **Loop: IT1** | **Elements: 25** |

**User Option (Usage):** Used

**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** | X | R | 1/10 | Used |

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

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

| Code | Name |
|---|---|
| CA | Case |
| CT | Carton |
| EA | Each |
| ST | Set |
| UN | Unit |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| IT104 | 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 |
|---|---|---|---|---|---|---|
| IT105 | 639 | **Basis of Unit Price Code** | O | ID | 2/2 | Used |

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

**User:** *Standard Book Industry definitions should be applied to this element.*

| Code | Name |
|---|---|
| CA | Catalog |
| CT | Contract |
| NC | No Charge |

   **User:**
   *The book industry uses this code to specify free goods*

| Code | Name |
|---|---|
| NT | Net |

   **Description:** *Indicates a net unit price*

| Code | Name |
|---|---|
| PE | Price per Each |
| PR | Promotion |
| SR | Suggested Retail |

| IT106 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**User:** *When using both an RP and IB code value, the RP code value must be used first.*

**Code** **Name**

AI    Alternate ISBN
B1    Volume Set
B2    Library of Congress Code
B3    Edition Code
B4    Binding Code
B5    Title Code
B6    Author Code
B7    Publisher Code
BN    Bar-Coded Serial Number
CB    Buyer's Catalog Number
EI    Expense Identifier
EN    European Article Number (EAN) (2-5-5-1)

**User:**
*ISBN-13*

GC    Grade Code
IB    International Standard Book Number (ISBN)
JN    Job Number
PO    Purchase Order Number
RP    Replaced Part Number
RU    Run Number
RY    Record Keeping or Model Year
SK    Stock Keeping Unit (SKU)
SL    Seller's Lot Number
UK    U.P.C./EAN Shipping Container Code (1-2-5-5-1)

**Description:** *A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit*

**User:**
*UCC/EAN-14*

UP    U.P.C. Consumer Package Code (1-5-5-1)
VE    Vendor Color
VN    Vendor's (Seller's) Item Number
VO    Vendor's Order Number

| IT107 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |

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

| IT108 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| | | **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | **User:** *Refer to code list specified in 'IT106' for usage.* | | | | |
| IT109 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |
| | | **Description:** Identifying number for a product or service | | | | |
| IT110 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |
| | | **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | **User:** *Refer to code list specified in 'IT106' for usage.* | | | | |
| IT111 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |
| | | **Description:** Identifying number for a product or service | | | | |
| IT112 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |
| | | **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | **User:** *Refer to code list specified in 'IT106' for usage.* | | | | |
| IT113 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |
| | | **Description:** Identifying number for a product or service | | | | |
| IT114 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |
| | | **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | **User:** *Refer to code list specified in 'IT106' for usage.* | | | | |
| IT115 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |
| | | **Description:** Identifying number for a product or service | | | | |
| IT116 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |
| | | **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | |
| | | **User:** *Refer to code list specified in 'IT106' for usage.* | | | | |
| IT117 | 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 |
|-----|-----|-------------|-----|------|---------|-------|
| IT118 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**User:** *Refer to code list specified in 'IT106' for usage.*

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT119 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |

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

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT120 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**User:** *Refer to code list specified in 'IT106' for usage.*

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT121 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |

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

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT122 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**User:** *Refer to code list specified in 'IT106' for usage.*

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT123 | 234 | **Product/Service ID** | X | AN | 1/48 | Used |

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

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT124 | 235 | **Product/Service ID Qualifier** | X | ID | 2/2 | Used |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**User:** *Refer to code list specified in 'IT106' for usage.*

| | | | | | | |
|-----|-----|-------------|-----|------|---------|-------|
| IT125 | 234 | **Product/Service ID** | X | 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 purchase order 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.

# QTY   Quantity

| | |
|---|---|
| **Pos: 015** | **Max: 5** |
| **Detail - Optional** | |
| **Loop: IT1** | **Elements: 4** |

**User Option (Usage):** Used

**Purpose:** To specify quantity information

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| QTY01 | 673 | **Quantity Qualifier** | M | ID | 2/2 | Required |

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

| Code | Name |
|---|---|
| 01 | Discrete Quantity |
| 02 | Cumulative Quantity |
| 38 | Original Quantity |
| 39 | Shipped Quantity |
| 40 | Remaining Quantity |
| 90 | Acknowledged Quantity |

**Description:** *Network Recognition for message receipt*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| QTY02 | 380 | **Quantity** | X | R | 1/15 | Required |

**Description:** Numeric value of quantity

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| QTY03 | C001 | **Composite Unit of Measure** | O | Comp | | Used |

**Description:** To identify a composite unit of measure(See Figures Appendix for examples of use)

| | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Required |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Code | Name |
|---|---|
| CT | Carton |
| EA | Each |
| PK | Package |
| ST | Set |
| UN | Unit |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |

**Description:** Code specifying the units in

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|---|---|---|---|---|---|
| | | which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |
| | | **Description:** Power to which a unit is raised | | | | |
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |
| | | **Description:** Value to be used as a multiplier to obtain a new value | | | | |
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |
| | | **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |
| | | **Description:** Power to which a unit is raised | | | | |
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |
| | | **Description:** Value to be used as a multiplier to obtain a new value | | | | |
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |
| | | **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |
| | | **Description:** Power to which a unit is raised | | | | |
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |
| | | **Description:** Value to be used as a multiplier to obtain a new value | | | | |
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |
| | | **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |
| | | **Description:** Power to which a unit is raised | | | | |
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |
| | | **Description:** Value to be used as a multiplier to obtain a new value | | | | |
| * QTY04 | 61 | **Free-Form Message** | X | AN | 1/30 | Used |
| | | **Description:** Free-form information | | | | |

## Syntax Rules:

1. R0204 - At least one of QTY02 or QTY04 is required.
2. E0204 - Only one of QTY02 or QTY04 may be present.

# CTP  Pricing Information

<table>
<tr><td>Pos: 050</td><td>Max: 25</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 11</td></tr>
</table>

**User Option (Usage):** Used

**Purpose:** To specify pricing information

## Element Summary:

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | CTP01 | 687 | **Class of Trade Code** | O | ID | 2/2 | Not Used |

**Description:** Code indicating class of trade

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | CTP02 | 236 | **Price Identifier Code** | X | ID | 3/3 | Used |

**Description:** Code identifying pricing specification

| Code | Name |
|---|---|
| NET | Net Item Price |
| PRP | Promotional price |
| SLP | Suggested List Price |

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | CTP03 | 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 |
|---|---|---|---|---|---|---|---|
| * | CTP04 | 380 | **Quantity** | X | R | 1/15 | Not Used |

**Description:** Numeric value of quantity

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | CTP05 | C001 | **Composite Unit of Measure** | X | Comp | | Not Used |

**Description:** To identify a composite unit of measure(See Figures Appendix for examples of use)

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Not Used |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 355 | **Unit or Basis for Measurement Code** | O | ID | 2/2 | Not Used |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 1018 | **Exponent** | O | R | 1/15 | Not Used |

**Description:** Power to which a unit is raised

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| * | 649 | **Multiplier** | O | R | 1/10 | Not Used |

**Description:** Value to be used as a multiplier to obtain a new value

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CTP06 | 648 | **Price Multiplier Qualifier** | O | ID | 3/3 | Used |

**Description:** Code indicating the type of price multiplier

**User:** *The multiplier is used to compute the price after the discount is applied (e.g. A multiplier of '.8' reflects a 20% discount.)*

*DIS Discount Multiplier*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CTP07 | 649 | **Multiplier** | X | R | 1/10 | Used |

**Description:** Value to be used as a multiplier to obtain a new value

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| | | **User:** *This value is a REAL number. The value is represented in decimal form.  A discount of 20% would have a value in this element of .8* | | | | |
| * CTP08 | 782 | **Monetary Amount** | O | R | 1/18 | Not Used |
| | | **Description:** Monetary amount | | | | |
| * CTP09 | 639 | **Basis of Unit Price Code** | O | ID | 2/2 | Not Used |
| | | **Description:** Code identifying the type of unit price for an item | | | | |
| * CTP10 | 499 | **Condition Value** | O | AN | 1/10 | Not Used |
| | | **Description:** Identifies rate restrictions or provisions | | | | |
| * CTP11 | 289 | **Multiple Price Quantity** | O | N0 | 1/2 | Not Used |
| | | **Description:** Quantity of units for a given price, e.g., 3 for $10.00 | | | | |

## Syntax Rules:

1. P0405 - If either CTP04 or CTP05  is present, then the other is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 is required.
4. C1002 - If CTP10 is present, then CTP02 is required.
5. C1103 - If CTP11 is present, then CTP03 is required.

## Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

## Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

# Loop Product/Item Description

**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 |
|-----|-----|--------------|-----|---------|--------|-------|
| 060 | PID | Product/Item Description | O | 1 | | Used |

### User:

*This segment is used by the Publisher/Manufacturer Group and the library community.*

# PID  Product/Item Description

| Pos: 060 | Max: 1 |
|---|---|
| **Detail - Optional** | |
| Loop: PID | Elements: 9 |

**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 | Required |

**Description:** Code indicating the format of a description

| Code | Name |
|---|---|
| F | Free-form |
| S | Structured (From Industry Code List) |

| 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

| Code | Name |
|---|---|
| 08 | Product |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PID03 | 559 | **Agency Qualifier Code** | X | ID | 2/2 | Used |

**Description:** Code identifying the agency assigning the code values

| Code | Name |
|---|---|
| BI | Book Industry Systems Advisory Committee |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| PID04 | 751 | **Product Description Code** | X | AN | 1/12 | Used |

**Description:** A code from an industry code list which provides specific data about a product characteristic

**User:** *PROD - BISAC Publisher/Manufacturer Group product and services code list.*

*-------------------------------------------------------------------*

*In the library community the following code values*

*values are used:*

*A1 Author (1st 80 characters)*

*A2 Author (81-160 characters)*

*B1 Volume Set*

*B3 Edition Set*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| | | *B4 Binding code (physical features)* | | | | |
| | | *B5 Title code* | | | | |
| | | *B6 Author code* | | | | |
| | | *B7 Publisher code* | | | | |
| | | *P1 Publisher (1st 80 characters)* | | | | |
| | | *P2 Publisher (81-160 characters)* | | | | |
| | | *T1 Title (1st 80 characters)* | | | | |
| | | *T2 Title (81-160 characters)* | | | | |
| | | *T3 Title (161-240 characters)* | | | | |
| PID05 | 352 | **Description** | X | AN | 1/80 | Used |

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

**User:** *Code and/or description as agreed upon by the Publisher/Manufacturer Group.*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| * PID06 | 752 | **Surface/Layer/Position Code** | O | ID | 2/2 | Not Used |

**Description:** Code indicating the product surface, layer or position that is being described

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| * PID07 | 822 | **Source Subqualifier** | O | AN | 1/15 | Not Used |

**Description:** A reference that indicates the table or text maintained by the Source Qualifier

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| * PID08 | 1073 | **Yes/No Condition or Response Code** | O | ID | 1/1 | Not Used |

**Description:** Code indicating a Yes or No condition or response

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| * PID09 | 819 | **Language Code** | O | ID | 2/3 | Not Used |

**Description:** Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

## 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.

## User:

*This segment is used by the Publisher/Manufacturer Group and the library community.*

# Loop Service, Promotion, Allowance, or Charge Information

| Pos: 180 | Repeat: 25 |
|---|---|
| **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** |
|---|---|---|---|---|---|---|
| 180 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | Used |

# SAC Service, Promotion, Allowance, or Charge Information

| Pos: 180 | Max: 1 |
|---|---|
| **Detail - Optional** | |
| Loop: SAC | Elements: 16 |

**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 | Required |

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

| Code | Name |
|---|---|
| A | Allowance |
| C | Charge |
| N | No Allowance or Charge |
| P | Promotion |

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

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

| Code | Name |
|---|---|
| A990 | Cataloging Services |
| B210 | Co-op Credit |
| D200 | Freight Charges to Destination |
| D220 | Freight Passthrough |
| E170 | Labeling |
| F800 | Promotional Allowance |
| H850 | Tax |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * SAC03 | 559 | **Agency Qualifier Code** | X | ID | 2/2 | Not Used |

**Description:** Code identifying the agency assigning the code values

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * SAC04 | 1301 | **Agency Service, Promotion, Allowance, or Charge Code** | X | AN | 1/10 | Not Used |

**Description:** Agency maintained code identifying the service, promotion, allowance, or charge

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| SAC05 | 610 | **Amount** | O | N2 | 1/15 | Used |

**Description:** Monetary amount

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| * SAC06 | 378 | **Allowance/ Charge Percent Qualifier** | X | ID | 1/1 | Not Used |

**Description:** Code indicating on what basis

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | | | allowance or charge percent is calculated | | | | |
| * | SAC07 | 332 | **Percent** | X | R | 1/6 | Not Used |
| | | | **Description:** Percent expressed as a percent | | | | |
| | SAC08 | 118 | **Rate** | O | R | 1/9 | Used |
| | | | **Description:** Rate expressed in the standard monetary denomination for the currency specified | | | | |
| | SAC09 | 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 | | | | |

**Code** **Name**
EA    Each
UN    Unit

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | SAC10 | 380 | **Quantity** | X | R | 1/15 | Used |
| | | | **Description:** Numeric value of quantity | | | | |
| * | SAC11 | 380 | **Quantity** | O | R | 1/15 | Not Used |
| | | | **Description:** Numeric value of quantity | | | | |
| * | SAC12 | 331 | **Allowance or Charge Method of Handling Code** | O | ID | 2/2 | Not Used |
| | | | **Description:** Code indicating method of handling for an allowance or charge | | | | |
| * | SAC13 | 127 | **Reference Identification** | X | AN | 1/30 | Not Used |
| | | | **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| | | | **User:** *This element is used by the publisher/manufacturer group.* | | | | |
| * | SAC14 | 770 | **Option Number** | O | AN | 1/20 | Not Used |
| | | | **Description:** A unique number identifying available promotion or allowance options when more than one is offered | | | | |
| * | SAC15 | 352 | **Description** | X | AN | 1/80 | Not Used |
| | | | **Description:** A free-form description to clarify the related data elements and their content | | | | |
| * | SAC16 | 819 | **Language Code** | O | ID | 2/3 | Used |
| | | | **Description:** Code designating the language used in text, from a standard code list maintained by the International | | | | |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| | | Standards Organization (ISO 639) | | | | |

## 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. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. 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 to further the code in 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.

# TDS  Total Monetary Value Summary

| | |
|---|---|
| **Pos: 010** | **Max: 1** |
| **Summary - Mandatory** | |
| **Loop: N/A** | **Elements: 4** |

**User Option (Usage):** Required

**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 | Required |
| | | **Description:** Monetary amount | | | | |
| TDS02 | 610 | **Amount** | O | N2 | 1/15 | Used |
| | | **Description:** Monetary amount | | | | |
| TDS03 | 610 | **Amount** | O | N2 | 1/15 | Used |
| | | **Description:** Monetary amount | | | | |
| * TDS04 | 610 | **Amount** | O | N2 | 1/15 | Not Used |
| | | **Description:** Monetary amount | | | | |

## 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.

# TXI  Tax Information

**User Option (Usage):** Used

**Purpose:** To specify tax information

## Element Summary:

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | TXI01 | 963 | **Tax Type Code** | M | ID | 2/2 | Required |

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

| Code | Name |
|---|---|
| GS | Goods and Services Tax |

**Description:** *Canadian value-added tax*

| | |
|---|---|
| LS | State and Local Sales Tax |
| TX | All Taxes |

**Description:** *Total of all applicable taxes*

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | TXI02 | 782 | **Monetary Amount** | X | R | 1/18 | Used |

**Description:** Monetary amount

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | TXI03 | 954 | **Percent** | X | R | 1/10 | Used |

**Description:** Percentage expressed as a decimal

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI04 | 955 | **Tax Jurisdiction Code Qualifier** | X | ID | 2/2 | Not Used |

**Description:** Code identifying the source of the data used in tax jurisdiction code

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI05 | 956 | **Tax Jurisdiction Code** | X | AN | 1/10 | Not Used |

**Description:** Code identifying the taxing jurisdiction

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI06 | 441 | **Tax Exempt Code** | X | ID | 1/1 | Not Used |

**Description:** Code identifying exemption status from sales and use tax

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI07 | 662 | **Relationship Code** | O | ID | 1/1 | Not Used |

**Description:** Code indicating the relationship between entities

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI08 | 828 | **Dollar Basis For Percent** | O | R | 1/9 | Not Used |

**Description:** Dollar basis to be used in the percent calculation of the allowance, charge or tax

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | TXI09 | 325 | **Tax Identification Number** | O | AN | 1/20 | Not Used |

**Description:** Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| | | number | | | | |
| * TXI10 | 350 | **Assigned Identification** | O | AN | 1/20 | Not Used |

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

## Syntax Rules:

1. R020306 - At least one of TXI02, TXI03 or TXI06 is required.
2. P0405 - If either TXI04 or TXI05  is present, then the other is required.
3. C0803 - If TXI08 is present, then TXI03 is required.

## Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

# Loop Service, Promotion, Allowance, or Charge Information

| Pos: 040 | Repeat: 25 |
| --- | --- |
| 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 |
| --- | --- | --- | --- | --- | --- | --- |
| 040 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | Used |

# SAC  Service, Promotion, Allowance, or Charge Information

<table>
<tr><td>Pos: 040</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: SAC</td><td>Elements: 16</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 | Required |

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

| Code | Name |
|------|------|
| A | Allowance |
| C | Charge |
| N | No Allowance or Charge |
| P | Promotion |

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

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

| Code | Name |
|------|------|
| A990 | Cataloging Services |
| B210 | Co-op Credit |
| D200 | Freight Charges to Destination |
| D220 | Freight Passthrough |
| E170 | Labeling |
| G830 | Shipping and Handling |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| * SAC03 | 559 | **Agency Qualifier Code** | X | ID | 2/2 | Not Used |

**Description:** Code identifying the agency assigning the code values

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| * SAC04 | 1301 | **Agency Service, Promotion, Allowance, or Charge Code** | X | AN | 1/10 | Not Used |

**Description:** Agency maintained code identifying the service, promotion, allowance, or charge

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| SAC05 | 610 | **Amount** | O | N2 | 1/15 | Used |

**Description:** Monetary amount

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|------------|-----|------|---------|-------|
| * SAC06 | 378 | **Allowance/ Charge Percent Qualifier** | X | ID | 1/1 | Not Used |

**Description:** Code indicating on what basis allowance or charge percent is calculated

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| * | SAC07 | 332 | **Percent** | X | R | 1/6 | Not Used |
| | | | **Description:** Percent expressed as a percent | | | | |
| | SAC08 | 118 | **Rate** | O | R | 1/9 | Used |
| | | | **Description:** Rate expressed in the standard monetary denomination for the currency specified | | | | |
| | SAC09 | 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 | | | | |

**Code** **Name**
EA    Each
UN    Unit

| | Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|---|
| | SAC10 | 380 | **Quantity** | X | R | 1/15 | Used |
| | | | **Description:** Numeric value of quantity | | | | |
| * | SAC11 | 380 | **Quantity** | O | R | 1/15 | Not Used |
| | | | **Description:** Numeric value of quantity | | | | |
| * | SAC12 | 331 | **Allowance or Charge Method of Handling Code** | O | ID | 2/2 | Not Used |
| | | | **Description:** Code indicating method of handling for an allowance or charge | | | | |
| * | SAC13 | 127 | **Reference Identification** | X | AN | 1/30 | Not Used |
| | | | **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| | | | **User:** *This element is used by the publisher/manufacturer group.* | | | | |
| * | SAC14 | 770 | **Option Number** | O | AN | 1/20 | Not Used |
| | | | **Description:** A unique number identifying available promotion or allowance options when more than one is offered | | | | |
| * | SAC15 | 352 | **Description** | X | AN | 1/80 | Not Used |
| | | | **Description:** A free-form description to clarify the related data elements and their content | | | | |
| * | SAC16 | 819 | **Language Code** | O | ID | 2/3 | Used |
| | | | **Description:** Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) | | | | |

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

## 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. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. 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 to further the code in 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.

# CTT  Transaction Totals

<table>
<tr><td>Pos: 070</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 7</td></tr>
</table>

**User Option (Usage):** Required

**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 | Required |
| | | | **Description:** Total number of line items in the transaction set | | | | |
| | 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. | | | | |
| * | CTT03 | 81 | **Weight** | X | R | 1/10 | Not Used |
| | | | **Description:** Numeric value of weight | | | | |
| * | CTT04 | 355 | **Unit or Basis for Measurement Code** | X | ID | 2/2 | Not Used |
| | | | **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | CTT05 | 183 | **Volume** | X | R | 1/8 | Not Used |
| | | | **Description:** Value of volumetric measure | | | | |
| * | CTT06 | 355 | **Unit or Basis for Measurement Code** | X | ID | 2/2 | Not Used |
| | | | **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | |
| * | CTT07 | 352 | **Description** | O | AN | 1/80 | Not 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: 080 | Max: 1 |
|---|---|
| Summary - Mandatory | |
| Loop: N/A | Elements: 2 |

**User Option (Usage):** Required

**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 | Required |
| | | **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 | Required |
| | | **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.