

# *Millbrook Distribution Services*

## **810 - Invoice Vendor**

**Version: 4010**

# 810 Invoice

## Functional Group=IN

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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
050	REF	Reference Identification	M	12			Used
<b>LOOP ID - N1</b>					<b><u>5</u></b>		
070	N1	Name	M	1			Used
090	N3	Address Information	M	2			Used
100	N4	Geographic Location	M	1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	M	5			Used
140	DTM	Date/Time Reference	M	10			Used
150	FOB	F.O.B. Related Instructions	M	1			Used

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - IT1</b>					<b><u>200000</u></b>		
010	IT1	Baseline Item Data (Invoice)	M	1			Used
<b>LOOP ID - PID</b>					<b><u>1000</u></b>		
060	PID	Product/Item Description	M	1			Used
<b>LOOP ID - SAC</b>					<b><u>8</u></b>		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

### Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use
030	CAD	Carrier Detail	O	1			Used
<b>LOOP ID - SAC</b>					<b><u>25</u></b>		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
<b>LOOP ID - ISS</b>					<b><u>1</u></b>		
060	ISS	Invoice Shipment Summary	M	1			Used
070	CTT	Transaction Totals	M	1		N3/070	Used
080	SE	Transaction Set Trailer	M	1			Must use

**Notes:**

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

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u>				
		810   Invoice				
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

## Semantics:

- 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: 4

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	<b>Invoice Number</b> <b>Description:</b> Identifying number assigned by issuer	M	AN	1/10	Must use
BIG03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Used
BIG04	324	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/7	Used

## 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.
2. BIG04 is used to match invoice with Millbrook Purchase Order. Purchase Order is a mandatory 7 digit numeric number.

## Definitions:

BIG04 Purchase Order Number is the Purchase Order number sent to you on the Purchase Order. If you are not in production for Purchase Orders, you need to capture this from the hard copy you received and return on the Invoice.

# REF Reference Identification

Pos: 050	Max: 12
Heading - Mandatory	
Loop: N/A	Elements: 2

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u>				
		AP   Accounts Receivable Number				
		VR   Vendor ID Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Used

## Syntax:

- REF02 R0203 -- At least one of REF02 or REF03 is required.
- Must be VR in REF01 and Millbrook assigned Vendor Number in REF02. Millbrook vendor number is a 5 digit numeric element.

## Semantics:

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

## Definitions:

The REF02 is the number assigned to you in Millbrook system. As noted above this is a mandatory field. This is sent to you in the EDI Purchase Order in the BEG06 and should be returned in this element on the invoice. If you are not production for EDI Purchase Orders you will need to capture this from the hard copy Purchase Order and return on the invoice in this element.

# N1 Name

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

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

## Element Summary:

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

## Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are 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.
3. Millbrook requires the RE N101.

## Definitions:

Millbrook requires the N1.ST, the N1.RE and the N1.BT. Confirm the N1.ST 04 element is the Duns number associated with the Millbrook DC you are shipping to and the N1.BT is the Duns number associated with the billing. You should have ALL the Millbrook shipping addresses in your system.

# N3 Address Information

Pos: 090	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 1

To specify the location of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		<b>Description:</b> Address information				



# N4 Geographic Location

Pos: 100	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 3

To specify the geographic place of the named party

## Element Summary:

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

## Syntax:

1. N406 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.

**ITD****Terms of Sale/Deferred Terms of Sale**

Pos: 130	Max: 5
Heading - Mandatory	
Loop: N/A	Elements: 9

To specify terms of sale

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	<b>Terms Type Code</b> <b>Description:</b> Code identifying type of payment terms	O	ID	2/2	Used
		<u>Code</u> <u>Name</u> 01      Basic				
ITD02	333	<b>Terms Basis Date Code</b> <b>Description:</b> Code identifying the beginning of the terms period	O	ID	1/2	Used
		<u>Code</u> <u>Name</u> 3      Invoice Date				
ITD03	338	<b>Terms Discount Percent</b> <b>Description:</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used
ITD04	370	<b>Terms Discount Due Date</b> <b>Description:</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD	M	DT	8/8	Used
ITD05	351	<b>Terms Discount Days Due</b> <b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used
ITD06	446	<b>Terms Net Due Date</b> <b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	<b>Terms Net Days</b> <b>Description:</b> Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD08	362	<b>Terms Discount Amount</b> <b>Description:</b> Total amount of terms discount	O	N2	1/10	Used
ITD12	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	M	AN	1/80	Used

**Syntax:**

1. ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. ITD09 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: 140	Max: 10
Heading - Mandatory	
Loop: N/A	Elements: 2

To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u>				
		011    Shipped				
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Used

## Syntax:

1. DTM02 R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
2. DTM04 C0403 -- If DTM04 is present, then DTM03 is required
3. DTM05 P0506 -- If either DTM05 or DTM06 are present, then the others are required.

## Definitions:

Millbrook requires the DTM01 as the shipped date qualifier and the DTM02 as the actual date the product is shipped.

# FOB F.O.B. Related Instructions

Pos: 150	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

To specify transportation instructions relating to shipment

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		CC   Collect				
		PB   Customer Pick-up/Backhaul				
		PP   Prepaid (by Seller)				
FOB02	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location	C	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		OR   Origin (Shipping Point)				
FOB03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

## Syntax:

1. FOB03 C0302 -- If FOB03 is present, then FOB02 is required
2. FOB04 C0405 -- If FOB04 is present, then FOB05 is required
3. FOB07 C0706 -- If FOB07 is present, then FOB06 is required
4. FOB08 C0809 -- If FOB08 is present, then FOB09 is required

## Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

# IT1 Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 7

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
IT102	358	<b>Quantity Invoiced</b> <b>Description:</b> Number of units invoiced (supplier units)	M	R	1/10	Used										
IT103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>Case</td> </tr> <tr> <td>DZ</td> <td>Dozen</td> </tr> <tr> <td>EA</td> <td>Each</td> </tr> <tr> <td>GS</td> <td>Gross</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CA	Case	DZ	Dozen	EA	Each	GS	Gross	M	ID	2/2	Used
<u>Code</u>	<u>Name</u>															
CA	Case															
DZ	Dozen															
EA	Each															
GS	Gross															
IT104	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	M	R	1/17	Used										
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UA</td> <td>U.P.C./EAN Case Code (2-5-5)</td> </tr> <tr> <td>UI</td> <td>U.P.C. Consumer Package Code (1-5-5)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	UA	U.P.C./EAN Case Code (2-5-5)	UI	U.P.C. Consumer Package Code (1-5-5)	M	ID	2/2	Used				
<u>Code</u>	<u>Name</u>															
UA	U.P.C./EAN Case Code (2-5-5)															
UI	U.P.C. Consumer Package Code (1-5-5)															
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	M	AN	1/48	Used										
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UA</td> <td>U.P.C./EAN Case Code (2-5-5)</td> </tr> <tr> <td>UI</td> <td>U.P.C. Consumer Package Code (1-5-5)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	UA	U.P.C./EAN Case Code (2-5-5)	UI	U.P.C. Consumer Package Code (1-5-5)	C	ID	2/2	Used				
<u>Code</u>	<u>Name</u>															
UA	U.P.C./EAN Case Code (2-5-5)															
UI	U.P.C. Consumer Package Code (1-5-5)															
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used										

## Syntax:

- IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
- IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
- IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.
- IT112 P1213 -- If either IT112 or IT113 are present, then the others are required.
- IT114 P1415 -- If either IT114 or IT115 are present, then the others are required.
- IT116 P1617 -- If either IT116 or IT117 are present, then the others are required.

8. IT118 P1819 -- If either IT118 or IT119 are present, then the others are required.
9. IT120 P2021 -- If either IT120 or IT121 are present, then the others are required.
10. IT122 P2223 -- If either IT122 or IT123 are present, then the others are required.
11. IT124 P2425 -- If either IT124 or IT125 are present, then the others are 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.
3. IT106 is required with either Case or Item UPC number and IT07 has to match the IT06.

**Definitions:**

The IT102 is the total number of (IT103) for the Purchase Order. This is either CA for cases, DZ for Dozen, EA for each, or GS for Gross.

The IT104 should reflect the cost per IT103, not the total cost. Example, if you ship 12 DZ, the IT104 should be cost of 1 DZ, etc.

UPC's are, as noted above mandatory. If you require case UPC, you must notify the Millbrook Purchasing department and provide them with the current list of case UPC numbers. We must be notified of this prior to start of testing.

# PID Product/Item Description

Pos: 060	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 2

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Free-form</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	F	Free-form				
<u>Code</u>	<u>Name</u>									
F	Free-form									
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	M	AN	1/80	Used				

## Syntax:

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



# SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Optional	
Loop: SAC	Elements: 7

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	<b>Allowance or Charge Indicator</b> <b>Description:</b> Code which indicates an allowance or charge for the service specified	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> A   Allowance				
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Code identifying the service, promotion, allowance, or charge	C	ID	4/4	Used
		<u>Code</u> <u>Name</u> A400 Allowance Non-performance				
SAC05	610	<b>Amount</b> <b>Description:</b> Monetary amount	M	N2	1/15	Used
SAC08	118	<b>Rate</b> <b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified	M	R	1/9	Used
SAC12	331	<b>Allowance or Charge Method of Handling Code</b> <b>Description:</b> Code indicating method of handling for an allowance or charge	O	ID	2/2	Used
		<u>Code</u> <u>Name</u> 02   Off Invoice				
SAC13	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
SAC15	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used

## Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required

8. SAC16 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.
3. If a summary allowance/charge is used, the SAC02 and the SAC05 are required elements.

**Definitions:**

There are two levels of SAC segments. IF the SAC allowance is at the ITEM level, this segment must follow the PID segment. The second level is covered at the total allowance for the invoice, which is defined after the CAD.

# TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount <b>Description:</b> Monetary amount	M	N2	1/15	Must use
TDS02	610	Amount <b>Description:</b> Monetary amount	M	N2	1/15	Used
TDS03	610	Amount <b>Description:</b> Monetary amount	O	N2	1/15	Used
TDS04	610	Amount <b>Description:</b> Monetary amount	O	N2	1/15	Used

## Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances except freight) 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.

## Definitions:

TDS01 is the Total Invoice Amount.

TDS02 is the Dollar Amount Subject to Discount.

# CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 6

To specify transportation details for the transaction

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment	O	ID	1/2	Used
		<u>Code</u> <u>Name</u> M   Motor (Common Carrier)				
CAD03	207	<b>Equipment Number</b> <b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O	AN	1/10	Used
CAD05	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used
CAD06	368	<b>Shipment/Order Status Code</b> <b>Description:</b> Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	O	ID	2/2	Used
		<u>Code</u> <u>Name</u> CC   Shipment Complete on (Date)				
CAD07	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	O	ID	2/3	Used
		<u>Code</u> <u>Name</u> BM   Bill of Lading Number				
CAD08	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

## Syntax:

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

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 16

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																				
SAC01	248	<b>Allowance or Charge Indicator</b> <b>Description:</b> Code which indicates an allowance or charge for the service specified	M	ID	1/1	Must use																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Allowance	C	Charge																		
<u>Code</u>	<u>Name</u>																									
A	Allowance																									
C	Charge																									
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Code identifying the service, promotion, allowance, or charge All valid standard codes are used.	C	ID	4/4	Used																				
SAC03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values	C	ID	2/2	Used																				
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge	C	AN	1/10	Used																				
SAC05	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Used																				
SAC06	378	<b>Allowance/Charge Percent Qualifier</b> <b>Description:</b> Code indicating on what basis allowance or charge percent is calculated	C	ID	1/1	Used																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Item List Cost</td> </tr> <tr> <td>2</td> <td>Item Net Cost</td> </tr> <tr> <td>3</td> <td>Discount/Gross</td> </tr> <tr> <td>4</td> <td>Discount/Net</td> </tr> <tr> <td>5</td> <td>Base Price per Unit</td> </tr> <tr> <td>6</td> <td>Base Price Amount</td> </tr> <tr> <td>7</td> <td>Base Price Amount Less Previous Discount</td> </tr> <tr> <td>A</td> <td>Fuel Rate</td> </tr> <tr> <td>Z</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	Item List Cost	2	Item Net Cost	3	Discount/Gross	4	Discount/Net	5	Base Price per Unit	6	Base Price Amount	7	Base Price Amount Less Previous Discount	A	Fuel Rate	Z	Mutually Defined				
<u>Code</u>	<u>Name</u>																									
1	Item List Cost																									
2	Item Net Cost																									
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4	Discount/Net																									
5	Base Price per Unit																									
6	Base Price Amount																									
7	Base Price Amount Less Previous Discount																									
A	Fuel Rate																									
Z	Mutually Defined																									
SAC07	332	<b>Percent</b> <b>Description:</b> Percent expressed as a percent	C	N2	1/6	Used																				
SAC08	118	<b>Rate</b> <b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified	O	N5	1/9	Used																				
SAC09	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		CA   Case				
		DZ   Dozen				
		EA   Each				
SAC10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	C	N0	1/15	Used
SAC11	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	O	N0	1/15	Used
SAC12	331	<b>Allowance or Charge Method of Handling Code</b> <b>Description:</b> Code indicating method of handling for an allowance or charge	O	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		01   Bill Back				
		02   Off Invoice				
SAC13	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
SAC14	770	<b>Option Number</b> <b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Used
SAC15	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used
SAC16	819	<b>Language Code</b> <b>Description:</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O	ID	2/3	Used

### Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 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.

**Definitions:**

There are two levels of SAC segments. IF the SAC allowance is at the INVOICE level, this segment must follow the CAD segment. The second level is covered at the item level for the invoice, which is defined after the PID.

# ISS Invoice Shipment Summary

Pos: 060	Max: 1
Summary - Mandatory	
Loop: ISS	Elements: 6

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
ISS01	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Used										
ISS02	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>Case</td> </tr> <tr> <td>DZ</td> <td>Dozen</td> </tr> <tr> <td>EA</td> <td>Each</td> </tr> <tr> <td>GS</td> <td>Gross</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CA	Case	DZ	Dozen	EA	Each	GS	Gross	M	ID	2/2	Used
<u>Code</u>	<u>Name</u>															
CA	Case															
DZ	Dozen															
EA	Each															
GS	Gross															
ISS03	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Used										
ISS04	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>LB</td> <td>Pound</td> </tr> <tr> <td>PG</td> <td>Pounds Gross</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	LB	Pound	PG	Pounds Gross	C	ID	2/2	Used				
<u>Code</u>	<u>Name</u>															
LB	Pound															
PG	Pounds Gross															
ISS05	183	<b>Volume</b> <b>Description:</b> Value of volumetric measure	C	R	1/8	Used										
ISS06	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CF</td> <td>Cubic Feet</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CF	Cubic Feet	C	ID	2/2	Used						
<u>Code</u>	<u>Name</u>															
CF	Cubic Feet															

## Syntax:

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

Pos: 070	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b> <b>Description:</b> 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.	O	R	1/10	Used

## Syntax:

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

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

## Comments:

- SE is the last segment of each transaction set.