



Customer 810 Invoice

Implementation Guideline

Version: 4010 Final

Created: 7/23/2013
Modified: 2/19/2014

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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
040	CUR	Currency	O	1		
050	REF	Reference Identification	O	12		
LOOP ID - N1					200	
070	N1	Name	O	1		
090	N3	Address Information	O	2		
100	N4	Geographic Location	O	1		
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
140	DTM	Date/Time Reference	O	10		

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
LOOP ID - IT1					200000	
010	IT1	Baseline Item Data (Invoice)	O	1		
LOOP ID - PID					1000	
060	PID	Product/Item Description	O	1		
120	REF	Reference Identification	O	>1		
140	SDQ	Destination Quantity	O	500		
160	CAD	Carrier Detail	O	>1		

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	TDS	Total Monetary Value Summary	M	1		
020	TXI	Tax Information	O	10		
LOOP ID - SAC					25	
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
LOOP ID - ISS					≥1	
060	ISS	Invoice Shipment Summary	O	1		
070	CTT	Transaction Totals	M	1		N3/070
080	SE	Transaction Set Trailer	M	1		

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

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

Element Summary:

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

Semantics:

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

BIG

Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

Purpose: 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>Rep</u>								
BIG01	373	Date Description: Date expressed as CCYYMMDD User: Invoice Date - Invoice issue date	M	DT	8/8	1								
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	M	AN	1/22	1								
BIG03	373	Date Description: Date expressed as CCYYMMDD User: Purchase Order Date - date assigned by the purchaser to purchase order.	O	DT	8/8	1								
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	1								
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction CodeList Summary (Total Codes: 445, Included: 3) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CR</td> <td>Credit Memo</td> </tr> <tr> <td>DI</td> <td>Debit Invoice</td> </tr> <tr> <td>IN</td> <td>Invoice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CR	Credit Memo	DI	Debit Invoice	IN	Invoice	O	ID	2/2	1
<u>Code</u>	<u>Name</u>													
CR	Credit Memo													
DI	Debit Invoice													
IN	Invoice													
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set CodeList Summary (Total Codes: 65, Included: 2) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>22</td> <td>Information Copy</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	22	Information Copy	O	ID	2/2	1		
<u>Code</u>	<u>Name</u>													
00	Original													
22	Information Copy													

Semantics:

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

Comments:

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

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>
CUR01	98	Entity Identifier Code	M	ID	2/3	1
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		CodeList Summary (Total Codes: 1312, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		SE		Selling Party		
CUR02	100	Currency Code	M	ID	3/3	1
		Description: Code (Standard ISO) for country in whose currency the charges are specified				
		User: USD - US Dollars				

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: 2

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 5)

<u>Code</u>	<u>Name</u>
AY	Floor Plan Approval Number User: Tech Data floor planner ID number. Populated when BIG08 = 22 indicating an informational copy only
DJ	Delivery Ticket Number User: Tech Data - Delivery Note number.
EU	End User's Purchase Order Number
OI	Original Invoice Number User: Only included data is a credit memo. BIG07 = CR
VN	Vendor Order Number User: Tech Data sales order number

REF02	127	Reference Identification	C	AN	1/30	1
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.

N1

Name

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>										
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual CodeList Summary (Total Codes: 1312, Included: 4) <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>BY</td> <td>Buying Party (Purchaser)</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	BY	Buying Party (Purchaser)	RE	Party to receive commercial invoice remittance	ST	Ship To	M	ID	2/3	1
<u>Code</u>	<u>Name</u>															
BT	Bill-to-Party															
BY	Buying Party (Purchaser)															
RE	Party to receive commercial invoice remittance															
ST	Ship To															
N102	93	Name Description: Free-form name User: Tech Data application system will only provide up to 35 characters.	C	AN	1/60	1										
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) CodeList Summary (Total Codes: 215, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>93</td> <td>Code assigned by the organization originating the transaction set</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	93	Code assigned by the organization originating the transaction set	C	ID	1/2	1						
<u>Code</u>	<u>Name</u>															
93	Code assigned by the organization originating the transaction set															
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	1										

Syntax Rules:

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

Comments:

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

N3

Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

Purpose: 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>Rep</u>
N301	166	Address Information Description: Address information User: Tech Data application system will provide up to 35 characters.	M	AN	1/55	1
N302	166	Address Information Description: Address information User: Tech Data application system will provide up to 35 characters.	O	AN	1/55	1

N4

Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	1
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	1
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	1
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	1

Syntax Rules:

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

Comments:

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

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 9

Purpose: 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>Rep</u>				
ITD01	336	Terms Type Code Description: Code identifying type of payment terms CodeList Summary (Total Codes: 65, Included: 1) <table border="1"> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> <tr> <td>01</td> <td>Basic</td> </tr> </table>	<u>Code</u>	<u>Name</u>	01	Basic	O	ID	2/2	1
<u>Code</u>	<u>Name</u>									
01	Basic									
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period CodeList Summary (Total Codes: 17, Included: 1) <table border="1"> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> <tr> <td>3</td> <td>Invoice Date</td> </tr> </table>	<u>Code</u>	<u>Name</u>	3	Invoice Date	O	ID	1/2	1
<u>Code</u>	<u>Name</u>									
3	Invoice Date									
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD	C	DT	8/8	1				
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	1				
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	1				
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	1				
ITD10	389	Deferred Amount Due Description: Deferred amount due for payment	C	N2	1/10	1				
ITD12	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	1				
ITD14	107	Payment Method Code Description: Code identifying type of payment procedures CodeList Summary (Total Codes: 37, Included: 1) <table border="1"> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> <tr> <td>C</td> <td>Pay By Check</td> </tr> </table>	<u>Code</u>	<u>Name</u>	C	Pay By Check	O	ID	1/2	1
<u>Code</u>	<u>Name</u>									
C	Pay By Check									

Syntax Rules:

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

Semantics:

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

Comments:

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

DTM Date/Time Reference

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>				
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time CodeList Summary (Total Codes: 1112, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped	M	ID	3/3	1
<u>Code</u>	<u>Name</u>									
011	Shipped									
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	1				

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.

IT1

Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 15

Purpose: 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>Rep</u>										
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set User: Original line number from customer purchase order	O	AN	1/20	1										
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	C	R	1/10	1										
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CodeList Summary (Total Codes: 794, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	C	ID	2/2	1						
<u>Code</u>	<u>Name</u>															
EA	Each															
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc. User: Rate charged per unit of measure less discount percent, but to include order level discounts or allowances. The price is expressed in dollars. The decimal point is required if the price is not in whole dollars. The price would be sent with a decimal point only when needed, e.g., \$15.95 is sent as "15.95" and \$29.00 is sent as "29".	C	R	1/17	1										
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item User: The data element is used to clarify or alter the basis of unit price. The unit price expressed in IT104 is always in the same terms as the unit of measure in IT103, unless otherwise specified in IT105. CodeList Summary (Total Codes: 91, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>Current Price (Subject to Change)</td> </tr> </tbody> </table> User: The data element is used to clarify or alter the basis of unit price. The unit price expressed in IT104 is always in the same terms as the unit of measure in IT103.	<u>Code</u>	<u>Name</u>	CP	Current Price (Subject to Change)	O	ID	2/2	1						
<u>Code</u>	<u>Name</u>															
CP	Current Price (Subject to Change)															
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: For qualifiers EN, EO, UK, or UP only one will included in the IT1 segment per item. CodeList Summary (Total Codes: 478, Included: 5) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BP</td> <td>Buyer's Part Number</td> </tr> <tr> <td>MG</td> <td>Manufacturer's Part Number</td> </tr> <tr> <td>MN</td> <td>Vendor Name</td> </tr> </tbody> </table> User: Qualifier indicates the manufacturer name. <table border="1"> <tbody> <tr> <td>UP</td> <td>U.P.C. Consumer Package Code (1-5-5-1)</td> </tr> </tbody> </table> User:	<u>Code</u>	<u>Name</u>	BP	Buyer's Part Number	MG	Manufacturer's Part Number	MN	Vendor Name	UP	U.P.C. Consumer Package Code (1-5-5-1)	C	ID	2/2	1
<u>Code</u>	<u>Name</u>															
BP	Buyer's Part Number															
MG	Manufacturer's Part Number															
MN	Vendor Name															
UP	U.P.C. Consumer Package Code (1-5-5-1)															

Only one product ID type per item. If a product ID is assigned to the item, valid qualifiers are UP, EN, EO, or UK.

		VP	Vendor's (Seller's) Part Number				
IT107	234	Product/Service ID		C	AN	1/48	1
		Description:	Identifying number for a product or service				
IT108	235	Product/Service ID Qualifier		C	ID	2/2	1
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT109	234	Product/Service ID		C	AN	1/48	1
		Description:	Identifying number for a product or service				
IT110	235	Product/Service ID Qualifier		C	ID	2/2	1
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT111	234	Product/Service ID		C	AN	1/48	1
		Description:	Identifying number for a product or service				
IT112	235	Product/Service ID Qualifier		C	ID	2/2	1
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT113	234	Product/Service ID		C	AN	1/48	1
		Description:	Identifying number for a product or service				
IT116	235	Product/Service ID Qualifier		C	ID	2/2	1
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT117	234	Product/Service ID		C	AN	1/48	1
		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.

PID Product/Item Description

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>				
PID01	349	Item Description Type Description: Code indicating the format of a description CodeList Summary (Total Codes: 3, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Free-form</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	F	Free-form	M	ID	1/1	1
<u>Code</u>	<u>Name</u>									
F	Free-form									
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	1				

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.

REF

Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>								
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification CodeList Summary (Total Codes: 1503, Included: 3) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>JH</td> <td>Tag User: Represents the asset tag number of a configured item.</td> </tr> <tr> <td>OI</td> <td>Original Invoice Number</td> </tr> <tr> <td>SE</td> <td>Serial Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	JH	Tag User: Represents the asset tag number of a configured item.	OI	Original Invoice Number	SE	Serial Number	M	ID	2/3	1
<u>Code</u>	<u>Name</u>													
JH	Tag User: Represents the asset tag number of a configured item.													
OI	Original Invoice Number													
SE	Serial Number													
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	1								
REF03	352	Description Description: A free-form description to clarify the related data elements and their content User: The asset tag number for the item.	C	AN	1/80	1								

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

SDQ

Destination Quantity

Pos: 140	Max: 500
Detail - Optional	
Loop: IT1	Elements: 4

Purpose: To specify destination and quantity detail

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>				
SDQ01	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CodeList Summary (Total Codes: 794, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	M	ID	2/2	1
<u>Code</u>	<u>Name</u>									
EA	Each									
SDQ02	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) CodeList Summary (Total Codes: 215, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>93</td> <td>Code assigned by the organization originating the transaction set</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	93	Code assigned by the organization originating the transaction set	O	ID	1/2	1
<u>Code</u>	<u>Name</u>									
93	Code assigned by the organization originating the transaction set									
SDQ03	67	Identification Code Description: Code identifying a party or other code User: Tech Data's warehouse number	M	AN	2/80	1				
SDQ04	380	Quantity Description: Numeric value of quantity	M	R	1/15	1				

Syntax Rules:

1. P0506 - If either SDQ05 or SDQ06 is present, then the other is required.
2. P0708 - If either SDQ07 or SDQ08 is present, then the other is required.
3. P0910 - If either SDQ09 or SDQ10 is present, then the other is required.
4. P1112 - If either SDQ11 or SDQ12 is present, then the other is required.
5. P1314 - If either SDQ13 or SDQ14 is present, then the other is required.
6. P1516 - If either SDQ15 or SDQ16 is present, then the other is required.
7. P1718 - If either SDQ17 or SDQ18 is present, then the other is required.
8. P1920 - If either SDQ19 or SDQ20 is present, then the other is required.
9. P2122 - If either SDQ21 or SDQ22 is present, then the other is required.

Semantics:

1. SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

Comments:

1. SDQ02 is used only if different than previously defined in the transaction set.
2. SDQ03 is the store number.
3. SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

CAD

Carrier Detail

Pos: 160	Max: >1
Detail - Optional	
Loop: IT1	Elements: 5

Purpose: 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>Rep</u>						
CAD01	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment CodeList Summary (Total Codes: 71, Included: 2) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Air</td> </tr> <tr> <td>M</td> <td>Motor (Common Carrier)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Air	M	Motor (Common Carrier)	O	ID	1/2	1
<u>Code</u>	<u>Name</u>											
A	Air											
M	Motor (Common Carrier)											
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	C	ID	2/4	1						
CAD05	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	1						
CAD07	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification CodeList Summary (Total Codes: 1503, Included: 2) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>SI</td> <td>Shipper's Identifying Number for Shipment (SID)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CN	Carrier's Reference Number (PRO/Invoice)	SI	Shipper's Identifying Number for Shipment (SID)	O	ID	2/3	1
<u>Code</u>	<u>Name</u>											
CN	Carrier's Reference Number (PRO/Invoice)											
SI	Shipper's Identifying Number for Shipment (SID)											
CAD08	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	1						

Syntax Rules:

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

TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

Purpose: 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>Rep</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	1
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	1

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

Pos: 020	Max: 10
Summary - Optional	
Loop: N/A	Elements: 3

Purpose: To specify tax information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>				
TXI01	963	Tax Type Code Description: Code specifying the type of tax CodeList Summary (Total Codes: 74, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	ST	State Sales Tax	M	ID	2/2	1
<u>Code</u>	<u>Name</u>									
ST	State Sales Tax									
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	1				
TXI03	954	Percent Description: Percentage expressed as a decimal	C	R	1/10	1				

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.

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 11

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	Rep												
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified CodeList Summary (Total Codes: 7, Included: 2) <table border="1"> <tr> <th>Code</th> <th>Name</th> </tr> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> </table>	Code	Name	A	Allowance	C	Charge	M	ID	1/1	1						
Code	Name																	
A	Allowance																	
C	Charge																	
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge CodeList Summary (Total Codes: 1053, Included: 2) <table border="1"> <tr> <th>Code</th> <th>Name</th> </tr> <tr> <td>D240</td> <td>Freight</td> </tr> <tr> <td>D500</td> <td>Handling</td> </tr> </table>	Code	Name	D240	Freight	D500	Handling	C	ID	4/4	1						
Code	Name																	
D240	Freight																	
D500	Handling																	
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values CodeList Summary (Total Codes: 176, Included: 3) <table border="1"> <tr> <th>Code</th> <th>Name</th> <th>User:</th> </tr> <tr> <td>57</td> <td>Washington</td> <td>Sent only on invoices for goods shipped into the State of Washington for the purpose of identifying their state surcharge.</td> </tr> <tr> <td>AS</td> <td>Assigned by Seller</td> <td>Sent only on invoices for goods shipped into a State or Province where a Levy has been imposed.</td> </tr> <tr> <td>AX</td> <td>ANSI Accredited Standards Committee,X12</td> <td></td> </tr> </table>	Code	Name	User:	57	Washington	Sent only on invoices for goods shipped into the State of Washington for the purpose of identifying their state surcharge.	AS	Assigned by Seller	Sent only on invoices for goods shipped into a State or Province where a Levy has been imposed.	AX	ANSI Accredited Standards Committee,X12		C	ID	2/2	1
Code	Name	User:																
57	Washington	Sent only on invoices for goods shipped into the State of Washington for the purpose of identifying their state surcharge.																
AS	Assigned by Seller	Sent only on invoices for goods shipped into a State or Province where a Levy has been imposed.																
AX	ANSI Accredited Standards Committee,X12																	
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge User: FCD = Freight Charges to Destination HHB = Handling LVY = Levy Surcharge (Canada only) STC = State Surcharge (US only)	C	AN	1/10	1												
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	1												
SAC06	378	Allowance/Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated CodeList Summary (Total Codes: 11, Included: 1)	C	ID	1/1	1												

		<u>Code</u>	<u>Name</u>				
		2	Item Net Cost				
SAC07	332	Percent		C	R	1/6	1
		Description: Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	1
		Description: Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	Unit or Basis for Measurement Code		C	ID	2/2	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		CodeList Summary (Total Codes: 794, Included: 1)					
		<u>Code</u>	<u>Name</u>				
		EA	Each				
SAC10	380	Quantity		C	R	1/15	1
		Description: Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	1
		Description: Code indicating method of handling for an allowance or charge					
		CodeList Summary (Total Codes: 22, Included: 1)					
		<u>Code</u>	<u>Name</u>				
		06	Charge to be Paid by Customer				

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.

ISS

Invoice Shipment Summary

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

Purpose: 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>Rep</u>				
ISS01	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	C	R	1/10	1				
ISS02	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CodeList Summary (Total Codes: 794, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EA	Each	C	ID	2/2	1
<u>Code</u>	<u>Name</u>									
EA	Each									
ISS03	81	Weight Description: Numeric value of weight	C	R	1/10	1				
ISS04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CodeList Summary (Total Codes: 794, Included: 1) <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> </tbody> </table>	<u>Code</u>	<u>Name</u>	LB	Pound	C	ID	2/2	1
<u>Code</u>	<u>Name</u>									
LB	Pound									
ISS05	183	Volume Description: Value of volumetric measure	C	R	1/8	1				
ISS06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CodeList Summary (Total Codes: 794, Included: 1) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CT</td> <td>Carton</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CT	Carton	C	ID	2/2	1
<u>Code</u>	<u>Name</u>									
CT	Carton									

Syntax Rules:

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

Semantics:

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

CTT**Transaction Totals**

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Rep</u>
CTT01	354	Number of Line Items	M	N0	1/6	1

Description: Total number of line items in the transaction set

Syntax Rules:

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

Comments:

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

SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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

Element Summary:

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

Comments:

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