

810 Invoice

X12/V4010/810: 810 Invoice Inbound
Version: 1.3

Author: EFS Network
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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.

Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Mandatory
	GS	Functional Group Header	M	1			Mandatory

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			Mandatory
020	BIG	Beginning Segment for Invoice	M	1			Mandatory
030	NTE	Note/Special Instruction	O	30			Recommended
050	REF	Reference Identification	O	12			Recommended

<u>LOOP ID - N1</u>					<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1	<u>9</u>	Mandatory
090	N3	Address Information	O	2		Recommended
100	N4	Geographic Location	O	1		Recommended
120	PER	Administrative Communications Contact	O	3		Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	1		Mandatory
140	DTM	Date/Time Reference	O	10		Mandatory
150	FOB	F.O.B. Related Instructions	O	1		Recommended

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>
<u>LOOP ID - IT1</u>					<u>200000</u>		
010	IT1	Baseline Item Data (Invoice)	O	1			Mandatory
030	IT3	Additional Item Data	O	5			Recommended
059	MEA	Measurements	O	40			Recommended
<u>LOOP ID - PID</u>					<u>1000</u>		
060	PID	Product/Item Description	O	1			Recommended
110	ITD	Terms of Sale/Deferred Terms of Sale	O	2			Recommended
120	REF	Reference Identification	O	30			Recommended
<u>LOOP ID - SAC</u>					<u>25</u>		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended

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			Mandatory
030	CAD	Carrier Detail	O	1			Recommended
<u>LOOP ID - SAC</u>					<u>25</u>		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended
<u>LOOP ID - ISS</u>					<u>>1</u>		

060	ISS	Invoice Shipment Summary	O	1		Recommended
070	CTT	Transaction Totals	O	1	N3/070	Mandatory
080	SE	Transaction Set Trailer	M	1		Mandatory

Not Defined:

<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>
	GE	Functional Group Trailer	M	1			Mandatory
	IEA	Interchange Control Trailer	M	1			Mandatory

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.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 14

User Option (Usage): Mandatory

To start and identify an interchange of zero or more functional groups and interchange-related control 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>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information Code Name 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Mandatory
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information Code Name 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Mandatory
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Mandatory
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Mandatory
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name 01 Duns (Dun & Bradstreet)	M	ID	2/2	Mandatory
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them User Note 1: EFS's Production ID - 4225200000 EFS's Test ID - 422520TEST	M	AN	15/15	Mandatory
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Mandatory
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Mandatory
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	M	ID	1/1	Mandatory
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments Code Name	M	ID	5/5	Mandatory

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ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Mandatory
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1	Mandatory
		Code Name				
		0 No Acknowledgment Requested				
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Mandatory
		Code Name				
		P Production Data				
		T Test Data				
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M	AN	1/1	Mandatory
		User Note 1: EFS uses the '@' symbol on its outbound transactions.				

User Note 1:

Element Separators are preferably '*':

Segment separators are preferably '~':

Composite delimiter are preferably '@':

Any deviation from the above must be approved by EFS Network before commencing of testing.

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

To indicate the beginning of a functional group and to provide control 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>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Mandatory
		Code Name IN Invoice Information (810,819)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Mandatory
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners User Note 1: EFS Production and test ID - 4225200000	M	AN	2/15	Mandatory
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Mandatory
GS05	337	Time 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)	M	TM	4/8	Mandatory
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Mandatory
		Code Name X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	M	AN	1/12	Mandatory
		Code Name 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

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

User Option (Usage): Mandatory

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	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Mandatory
		Code Name 810 Invoice				
ST02	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 User Note 1: <i>The Transaction Set Control Number (ST-02) is assigned by the Supplier.</i>	M	AN	4/9	Mandatory

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: 5

User Option (Usage): Mandatory

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	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Mandatory
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	M	AN	1/22	Mandatory
BIG03	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Recommended
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	Recommended
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set User Note 1: EFS supports Replacement and Supplemental invoices. Use code "02" for BIG-08 to indicate a supplemental invoice. Use code "05" for BIG-08 to indicate a replacement invoice.	O	ID	2/2	Recommended
		Code		Name		
		00		Original		
		02		Add		
		05		Replace		

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.

NTE Note/Special Instruction

Pos: 030	Max: 30
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Recommended

To transmit information in a free-form format, if necessary, for comment or special instruction

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>
NTE01	363	Note Reference Code Description: Code identifying the functional area or purpose for which the note applies All valid standard codes are used.	O	ID	3/3	Recommended
NTE02	352	Description Description: A free-form description to clarify the related data elements and their content	M	AN	1/80	Mandatory

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

REF Reference Identification

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

User Option (Usage): Recommended

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	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory																		
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>21</td> <td>American Gas Association Equation Number</td> </tr> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CR</td> <td>Customer Reference Number</td> </tr> <tr> <td>FI</td> <td>File Identifier</td> </tr> <tr> <td>IL</td> <td>Internal Order Number</td> </tr> <tr> <td colspan="2">User Note 1: <i>Mandatory</i></td> </tr> <tr> <td>VN</td> <td>Vendor Order Number</td> </tr> <tr> <td colspan="2">User Note 1: <i>Mandatory</i></td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	21	American Gas Association Equation Number	BM	Bill of Lading Number	CR	Customer Reference Number	FI	File Identifier	IL	Internal Order Number	User Note 1: <i>Mandatory</i>		VN	Vendor Order Number	User Note 1: <i>Mandatory</i>					
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User Note 1: <i>Mandatory</i>																								
VN	Vendor Order Number																							
User Note 1: <i>Mandatory</i>																								
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Recommended																		

Syntax:

1. R0203 - At least one of REF02,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

User Option (Usage): Mandatory

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	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory
		Code Name				
		BO Broker or Sales Office				
		BT Bill-to-Party				
		BY Buying Party (Purchaser)				
		User Note 1: <i>Mandatory</i>				
		CA Carrier				
		User Note 1: <i>The Carrier Phone Number is entered in the PER segment.</i>				
		PW Pick Up Address				
		RE Party to receive commercial invoice remittance				
		User Note 1: <i>Mandatory</i>				
		SF Ship From				
		ST Ship To				
		VN Vendor				
		User Note 1: <i>Mandatory</i>				
N102	93	Name Description: Free-form name	X	AN	1/60	Recommended
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Recommended
		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				
		54 Warehouse				
		91 Assigned by Seller or Seller's Agent				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Recommended

Syntax:

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

N3

Address Information

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

User Option (Usage): Recommended

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 Description: Address information	M	AN	1/55	Mandatory
N302	166	Address Information Description: Address information	O	AN	1/55	Recommended

N4 Geographic Location

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

User Option (Usage): Recommended

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	City Name Description: Free-form text for city name	O	AN	2/30	Recommended
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Recommended
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Recommended
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Recommended

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: 4

User Option (Usage): Used

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

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>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Mandatory
		Code Name CN General Contact				
PER02	93	Name Description: Free-form name	O	AN	1/60	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number	X	ID	2/2	Used
		Code Name TE Telephone				
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used

Syntax:

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

ITD

Terms of Sale/Deferred Terms of Sale

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

User Option (Usage): Mandatory

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	Terms Type Code Description: Code identifying type of payment terms	O	ID	2/2	Recommended
		<u>Code</u> <u>Name</u> 01 Basic				
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period	O	ID	1/2	Recommended
		<u>Code</u> <u>Name</u> 3 Invoice Date				
ITD03	338	Terms Discount Percent 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	O	R	1/6	Recommended
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD	X	DT	8/8	Recommended
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	X	N0	1/3	Recommended
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Mandatory
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Recommended
ITD08	362	Terms Discount Amount Description: Total amount of terms discount	O	N2	1/10	Recommended
ITD12	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Recommended

Syntax:

1. L03040513 - If ITD03 is present, then at least one of ITD04,ITD05,ITD13 is required
2. L08040513 - If ITD08 is present, then at least one of ITD04,ITD05,ITD13 is required

Comments:

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

User Note 1:

To indicate a term discount, use either ITD03 for percent or ITD08 for amount.If ITD03 or ITD08 is used, send ITD05 to indicate the discount days due.

DTM Date/Time Reference

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

User Option (Usage): Mandatory

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	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory
		Code Name				
		011 Shipped				
		118 Requested Pick-up				
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Mandatory

FOB F.O.B. Related Instructions

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

User Option (Usage): Recommended

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	Shipment Method of Payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Mandatory
		Code Name				
		BP Paid by Buyer				
		CC Collect				
		PB Customer Pick-up/Backhaul				
		PC Prepaid but Charged to Customer				
		PE Prepaid and Summary Bill				
		PP Prepaid (by Seller)				
		PU Pickup				
		TP Third Party Pay				

Semantics:

1. FOB01 indicates which party will pay the carrier.

IT1

Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 11

User Option (Usage): Mandatory

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>
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Recommended
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	X	R	1/10	Mandatory
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	X	ID	2/2	Mandatory
		Code Name				
		BG Bag				
		BX Box				
		CA Case				
		CN Can				
		CS Cassette				
		DR Drum				
		EA Each				
		GA Gallon				
		LB Pound				
		OZ Ounce - Av				
		PA Pail				
		PC Piece				
		PK Package				
		TE Tote				
		UN Unit				
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Mandatory
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Dependent
		Code Name				
		PE Price per Each				
		PO Price per Ounce				
		PP Price per Pound				
		TE Contract Price per Each				
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Recommended
		Code Name				
		MG Manufacturer's Part Number				
		PI Purchaser's Item Code				
		UA U.P.C./EAN Case Code (2-5-5)				
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)				

		UP	U.P.C. Consumer Package Code (1-5-5-1)				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
IT107	234	Product/Service ID		X	AN	1/48	Recommended
		Description:	Identifying number for a product or service				
IT108	235	Product/Service ID Qualifier		X	ID	2/2	Recommended
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code	Name				
		MG	Manufacturer's Part Number				
		PI	Purchaser's Item Code				
		UA	U.P.C./EAN Case Code (2-5-5)				
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
IT109	234	Product/Service ID		X	AN	1/48	Recommended
		Description:	Identifying number for a product or service				
IT110	235	Product/Service ID Qualifier		X	ID	2/2	Recommended
		Description:	Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code	Name				
		MG	Manufacturer's Part Number				
		PI	Purchaser's Item Code				
		UA	U.P.C./EAN Case Code (2-5-5)				
		UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
IT111	234	Product/Service ID		X	AN	1/48	Recommended
		Description:	Identifying number for a product or service				

Syntax:

1. P020304 - If either IT102,IT103,IT104 is present, then all are required
2. P0607 - If either IT106,IT107 is present, then all are required
3. P0809 - If either IT108,IT109 is present, then all are required
4. P1011 - If either IT110,IT111 is present, then all 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 IT111 provide for three different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

User Note 1:

The element order shown below (Buyer Item Number, Suppliers Item Number, or UPC) are recommended positions for IT106-IT111.

Item codes can be placed in any sequence as long as they are qualified correctly.

At least one matching pair within IT106-IT111 is required to represent Supplier Item Number (qualifiers MG, VN, or VP).

IT3

Additional Item Data

Pos: 030	Max: 5
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Recommended

To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities

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>
IT301	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	X	R	1/10	Recommended
IT302	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	X	ID	2/2	Recommended
		<u>Code</u>		<u>Name</u>		
		BG		Bag		
		BX		Box		
		CA		Case		
		CN		Can		
		CS		Cassette		
		DR		Drum		
		EA		Each		
		GA		Gallon		
		LB		Pound		
		OZ		Ounce - Av		
		PA		Pail		
		PC		Piece		
		PK		Package		
		TE		Tote		
		UN		Unit		

Syntax:

1. P0102 - If either IT301,IT302 is present, then all are required

MEA Measurements

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 4

User Option (Usage): Recommended

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

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>
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies	O	ID	2/2	Recommended
		<u>Code</u> <u>Name</u> WT Weights				
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Mandatory
		<u>Code</u> <u>Name</u> B Billed Weight G Gross Weight T Tare Weight WT Weight				
MEA03	739	Measurement Value Description: The value of the measurement	X	R	1/20	Mandatory
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Mandatory
	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	M	ID	2/2	Mandatory
		<u>Code</u> <u>Name</u> LB Pound				

Semantics:

1. MEA04 defines the unit of measure for MEA03

Comments:

- 1.

PID Product/Item Description

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

User Option (Usage): Recommended

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	Item Description Type Description: Code indicating the format of a description	M	ID	1/1	Mandatory
		Code Name				
		F Free-form				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Recommended

Syntax:

1. C0403 - If PID04 is present, then all of PID03 are required
2. R0405 - At least one of PID04,PID05 is required
3. C0703 - If PID07 is present, then all of PID03 are required
4. C0804 - If PID08 is present, then all of PID04 are required
5. C0905 - If PID09 is present, then all of PID05 are required

Comments:

1. If PID01 equals "F", then PID05 is used.

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 110	Max: 2
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Recommended

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>
ITD03	338	Terms Discount Percent 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	O	R	1/6	Mandatory
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	X	N0	1/3	Mandatory

REF Reference Identification

Pos: 120	Max: 30
Detail - Optional	
Loop: IT1	Elements: 2

User Option (Usage): Recommended

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	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>2I</td> <td>Tracking Number</td> </tr> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CR</td> <td>Customer Reference Number</td> </tr> <tr> <td>FI</td> <td>File Identifier</td> </tr> <tr> <td>L1</td> <td>Letters or Notes</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	2I	Tracking Number	BM	Bill of Lading Number	CR	Customer Reference Number	FI	File Identifier	L1	Letters or Notes				
<u>Code</u>	<u>Name</u>																	
2I	Tracking Number																	
BM	Bill of Lading Number																	
CR	Customer Reference Number																	
FI	File Identifier																	
L1	Letters or Notes																	
		User Note 1: <i>The Notes (maximum 80 characters) are sent in REF03. 30 occurrences of REF L1 are supported.</i>																
REF03	352	VN Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Dependent												
		User Note 1: only for REF01 = L1 (Notes)																

Syntax:

- R0203 - At least one of REF02,REF03 is required

Semantics:

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

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Recommended

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	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		Code Name				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	X	ID	4/4	Mandatory
		Code Name				
		A320 Air Transportation Charge				
		B510 Consolidation				
		C000 Defective Allowance				
		C040 Delivery				
		C420 Drayage				
		C610 Enclosure				
		D170 Free Goods				
		D240 Freight				
		D250 Freshness/Leaker Allowance				
		D350 Goods and Services Credit Allowance				
		D500 Handling				
		D750 Inbound Freight Charges				
		E410 Loading				
		E550 Market Development Funds				
		F170 Pallet Exchange Charge				
		F180 Pallet				
		F280 Performance Allowance				
		F340 Pick/Up				
		F670 Price and Marketing Allowance				
		F800 Promotional Allowance				
		F910 Quantity Discount				
		G470 Restocking Charge				
		G870 Shrink-Wrap Charge				
		G950 Slip Sheet, Truck				
		H010 Special Buy				
		H040 Special Delivery				
		H400 Stopcharge				
		H430 Storage				
		H640 Tax - Excise Tax - Destination				
		H750 Tax - Sales Tax (State and Local)				
		H910 Temperature Protection				
		I170 Trade Discount				

		I310	Truckload Discount					
		I390	Unloading					
		I410	Unsaleable Merchandise Allowance					
		OTHR	Other Miscellaneous Earning or Additive					
SAC03	559	Agency Qualifier Code		X	ID	2/2	Recommended	
		Description:	Code identifying the agency assigning the code values					
			All valid standard codes are used.					
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		X	AN	1/10	Recommended	
		Description:	Agency maintained code identifying the service, promotion, allowance, or charge					
SAC05	610	Amount		O	N2	1/15	Recommended	
		Description:	Monetary amount					
SAC06	378	Allowance/Charge Percent Qualifier		X	ID	1/1	Recommended	
		Description:	Code indicating on what basis allowance or charge percent is calculated					
			All valid standard codes are used.					
SAC07	332	Percent		X	R	1/6	Recommended	
		Description:	Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	Recommended	
		Description:	Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Recommended	
		Description:	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
			All valid standard codes are used.					
SAC10	380	Quantity		X	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC11	380	Quantity		O	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Recommended	
		Description:	Code indicating method of handling for an allowance or charge					
			All valid standard codes are used.					
SAC13	127	Reference Identification		X	AN	1/30	Recommended	
		Description:	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
SAC14	770	Option Number		O	AN	1/20	Recommended	
		Description:	A unique number identifying available promotion or allowance options when more than one is offered					
SAC15	352	Description		X	AN	1/80	Recommended	
		Description:	A free-form description to clarify the related data elements and their content					

Syntax:

1. R0203 - At least one of SAC02,SAC03 is required
2. P0304 - If either SAC03,SAC04 is present, then all are required
3. P0607 - If either SAC06,SAC07 is present, then all are required
4. P0910 - If either SAC09,SAC10 is present, then all are required
5. C1110 - If SAC11 is present, then all of SAC10 are required
6. L130204 - If SAC13 is present, then at least one of SAC02,SAC04 is required
7. C1413 - If SAC14 is present, then all of SAC13 are required
8. C1615 - If SAC16 is present, then all of SAC15 are 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.

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.

User Note 1:

Suppliers must send this information if it affects pricing and the completeness of the transaction

TDS Total Monetary Value Summary

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

User Option (Usage): Mandatory

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 Description: Monetary amount	M	N2	1/15	Mandatory
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS04	610	Amount Description: Monetary amount	O	N2	1/15	Used

Semantics:

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

Comments:

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

CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Recommended

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	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used.	M	ID	1/2	Recommended
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	X	ID	2/4	Recommended
CAD05	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Recommended
CAD07	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	O	ID	2/3	Recommended
CAD08	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Recommended

Syntax:

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

SAC Service, Promotion, Allowance, or Charge Information

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

User Option (Usage): Recommended

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	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		Code Name				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	X	ID	4/4	Recommended
		Code Name				
		A320 Air Transportation Charge				
		B510 Consolidation				
		C000 Defective Allowance				
		C040 Delivery				
		C420 Drayage				
		C610 Enclosure				
		D170 Free Goods				
		D240 Freight				
		D250 Freshness/Leaker Allowance				
		D260 Fuel Charge				
		D270 Fuel Surcharge				
		D350 Goods and Services Credit Allowance				
		D500 Handling				
		D750 Inbound Freight Charges				
		E410 Loading				
		E550 Market Development Funds				
		F170 Pallet Exchange Charge				
		F180 Pallet				
		F280 Performance Allowance				
		F340 Pick/Up				
		F670 Price and Marketing Allowance				
		F800 Promotional Allowance				
		F910 Quantity Discount				
		G470 Restocking Charge				
		G870 Shrink-Wrap Charge				
		G950 Slip Sheet, Truck				
		H010 Special Buy				
		H040 Special Delivery				
		H400 Stopcharge				
		H430 Storage				
		H640 Tax - Excise Tax - Destination				
		H750 Tax - Sales Tax (State and Local)				

		H910	Temperature Protection					
		I170	Trade Discount					
		I310	Truckload Discount					
		I390	Unloading					
		I410	Unsaleable Merchandise Allowance					
		OTHR	Other Miscellaneous Earning or Additive					
SAC03	559	Agency Qualifier Code		X	ID	2/2	Recommended	
		Description:	Code identifying the agency assigning the code values					
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		X	AN	1/10	Recommended	
		Description:	Agency maintained code identifying the service, promotion, allowance, or charge					
SAC05	610	Amount		O	N2	1/15	Recommended	
		Description:	Monetary amount					
SAC06	378	Allowance/Charge Percent Qualifier		X	ID	1/1	Recommended	
		Description:	Code indicating on what basis allowance or charge percent is calculated					
			All valid standard codes are used.					
SAC07	332	Percent		X	R	1/6	Recommended	
		Description:	Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	Recommended	
		Description:	Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Recommended	
		Description:	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
			All valid standard codes are used.					
SAC10	380	Quantity		X	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC11	380	Quantity		O	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Recommended	
		Description:	Code indicating method of handling for an allowance or charge					
			All valid standard codes are used.					
SAC13	127	Reference Identification		X	AN	1/30	Recommended	
		Description:	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
SAC14	770	Option Number		O	AN	1/20	Recommended	
		Description:	A unique number identifying available promotion or allowance options when more than one is offered					
SAC15	352	Description		X	AN	1/80	Recommended	
		Description:	A free-form description to clarify the related data elements and their content					
SAC16	819	Language Code		O	ID	2/3	Recommended	
		Description:	Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)					

Syntax:

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

7. C1413 - If SAC14 is present, then all of SAC13 are required
8. C1615 - If SAC16 is present, then all of SAC15 are 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.

User Note 1:

Suppliers must send this information if it affects pricing and the completeness of the transaction

ISS**Invoice Shipment Summary**

Pos: 060	Max: 1
Summary - Optional	
Loop: ISS	Elements: 8

User Option (Usage): Recommended

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	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	X	R	1/10	Recommended
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 All valid standard codes are used.	X	ID	2/2	Recommended
ISS03	81	Weight Description: Numeric value of weight	X	R	1/10	Recommended
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 All valid standard codes are used.	X	ID	2/2	Recommended
ISS05	183	Volume Description: Value of volumetric measure	X	R	1/8	Recommended
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 All valid standard codes are used.	X	ID	2/2	Recommended
ISS07	380	Quantity Description: Numeric value of quantity	O	R	1/15	Recommended
ISS08	81	Weight Description: Numeric value of weight	O	R	1/10	Recommended

Syntax:

1. R010305 - At least one of ISS01,ISS03,ISS05 is required
2. P0102 - If either ISS01,ISS02 is present, then all are required
3. P0304 - If either ISS03,ISS04 is present, then all are required
4. P0506 - If either ISS05,ISS06 is present, then all 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 - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Mandatory

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	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Mandatory
CTT02	347	Hash Total 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.	O	R	1/10	Recommended
CTT03	81	Weight Description: Numeric value of weight	X	R	1/10	Recommended
CTT04	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 All valid standard codes are used.	X	ID	2/2	Recommended
CTT05	183	Volume Description: Value of volumetric measure	X	R	1/8	Recommended
CTT06	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 All valid standard codes are used.	X	ID	2/2	Recommended
CTT07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Recommended

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all 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

User Option (Usage): Mandatory

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	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Mandatory
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	Mandatory

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To indicate the end of a functional group and to provide control 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>
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Mandatory
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA

Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To define the end of an interchange of zero or more functional groups and interchange-related control 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>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Mandatory
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Mandatory