

Bosco's

810 Invoice - v4010 VICS

X12/V4010VICS/810

Version: 1.1 Final

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Purpose

This document provides detailed guidelines and conventions for implementing electronic invoices with Boscov's Department Stores. Our 810 Invoice, as detailed in this document, will provide you with all of the information necessary to fill our requirements.

These guidelines comply with published VICS standards for EDI version 4010 for all data elements and segments.

Mandatory segments and elements are always required on every document. Optional segments and elements that are required by Boscov's Department Stores are marked as "Must Use". Segment usage is marked on each page just under the page heading under the label "UserOption(Usage)". Element usage is marked in the far-right column beside each element. Information in the Attributes column is from the VICS standards and is provided for reference only. Trading Partners must adhere to our requirements as indicated by "Must Use".

Business Rules

Contacts

Compliance Services: GXS 1-877-446-6847 Option 2.

Customer Support: GXS 1-877-446-6847 Option 1, then Option 6.

Boscov's Department Stores: Lori A. Reilly 1-610-370-3794

Communication IDs

Production

S/R ID: 01/014492501

VAN: Inovis

Delimiters

Element Separator - ""*

(HEX "2A" in ASCII)

(HEX "5C" in EBCDIC)

Component (Sub Element) Separator - ">"

(HEX "3E" in ASCII)

(HEX "6E" in EBCDIC)

Segment Terminator - "~"

(HEX "7E" in ASCII)

(HEX "A1" in EBCDIC)

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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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ISA	Interchange Control Header	M	1			Must use
0200	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Must use	Must use
0100	ST	Transaction Set Header	M	1					use
0200	BIG	Beginning Segment for Invoice	M	1					
0500	REF	Reference Identification (IA)	M	12		Must use	200		
LOOP ID - N1									
2600	N1	Name (BY)	M	1					Must use
2800	N3	Address Information	O	2					Used
2900	N4	Geographic Location	O	1					Used

LOOPID-N1

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
2600	N1	Name (ST)	M	1			Must use
2800	N3	Address Information	O	2			Used
2900	N4	Geographic Location	O	1			Used

LOOP ID -N1

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
2600	N1	Name (RI)	M	1			Must use
2800	N3	Address Information	M	2			Must use
2900	N4	Geographic Location	M	1			Must use
3000	ITD	Terms of Sale/Deferred Terms of Sale	M	>1			Must use
3100	DTM	Date/Time Reference	<input type="checkbox"/>	1			Used
3200	FOB	F.O.B. Related Instructions	<input type="checkbox"/>	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID -IT1							
0200	IT1	Baseline Item Data (Invoice)	M	1			Must use

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PID 0400							
		Product/Item Description	M	1	1000		

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	TDS	Total Monetary Value Summary	M	1			Must use
0300	CAD	Carrier Detail	M	1			Must use
LOOP ID - S AC					25		
0600	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID -ISS					10		
0900	ISS	Invoice Shipment Summary	O	1			Used
1100	CTT	Transaction Totals	M	1		N3/1 100	Must use
1200	SE	Transaction Set Traller	M	1			Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	GE	Functional Group Trailer	M	1			Used
0200	IEA	Interchange Control Trailer	M	1			Used

ISA Interchange Control Header

Pos: 0100 Max:1
 Not Defined - Mandatory
 Loop: N/A Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	M	ID	2/2	Must use
		Code Name 00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information	M	ID	2/2	Must use
		Code Name 00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
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	M	ID	2/2	Must use
		All valid standard codes are used.				
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	Must use
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	M	ID	2/2	Must use
		Code Name 01 Duns (Dun & Bradstreet) ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use

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: 014492501
CLBOS

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
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	Must use
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments Code Name 00400 Standard Issued as ANSI X12.5-1997 00401 Draft Standards for Trial Use Approved for Publication byASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	NO	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) Code Name 0 No Acknowledgment Requested	M	ID	1/1	Must use M
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information Code Name P Production Data T Test Data	M	ID	1/1	Must use
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		1/1	Must use

GS Functional Group Header

Pos: 0200 Max: 1
 Not Defined - Mandatory
 Loop: N/A Elements: 8

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		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	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
		User Note: 014492501 CLBOS				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
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	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with	M	ID	1/2	Must use

Data Element 480 to identify the issuer of the standard

Code	Name				
X	Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12
		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			Must use
Code	Name				
004010	VICS VICS 4010				

ST

Transaction Set Header

Pos: 0100 Max:1
 Heading - Mandatory
 Loop: N/A
 Element

User Option (Usage): Must use

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

S e m a n t i c s :

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).

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	Must use
		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	M	AN	4/9	Must use

BIG Beginning Segment for Invoice

Pos: 0200 Max: 1
 Heading - Mandatory
 Loop: N/A
 Element

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	373	Date M Description: Date expressed as	Date	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	M	AN	1/15	Must use
BIG03	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Used
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser User Note: 6-Digit Boscov's PO Number (leading zeroes, if necessary)	M	AN	6/6	Must use

Pos: 0500

Max: 12

REF Reference Identification (IA)

User Option (Usage): Must use

To specify identifying information

Syntax Rules:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/2	Must use
		Code Name				
		DP Department Number				
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note: <i>Valid 5-digit Boscov's Department Number</i>	M	AN	5/5	Must use

N1

Name (BY)

Pos: 2600	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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 Code Name BY Buying Party (Purchaser)	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	O	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Code Name 92 Assigned by Buyer or Buyer's Agent	M	ID	1/2	Must use
N104	67	Identification Code Description: Code identifying a party or other code	M	AN	5/5	Must use

User Note: 5-digit Boscov's Store Number

N3 Address Information

Pos: 2800 Max:2
 Heading - Optional
 Loop: N1
 Element

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information Description: Address information	O	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

Pos: 2900 Max: 1
 Heading - Optional
 Loop: N1
 Element

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

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

N1

Name (ST)

Pos: 2600	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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	Must use
		Code Name				
N102	93	ST Ship To Name Description: Free-form name	O	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	M	ID	1/2	Must use
		Code Name				
N104	67	92 Assigned by Buyer or Buyer's Agent Identification Code Description: Code identifying a party or other code	M	AN	5/5	Must use
User Note: 5-digitBoscov'sDCorStore Number						

N3 Address Information

Pos: 2800 Max:2
 Heading - Optional
 Loop: N1
 Element

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req Type	Min/Max	Usage
N301	166	Address Information Description: Address information	O AN	1/55	Must use
N302	166	Address Information Description: Address information	O AN	1/55	Used

N4 Geographic Location

Pos: 2900 Max: 1
 Heading - Optional
 Loop: N1
 Element

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

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

N1 Name (RI)

Pos: 2600	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		Code Name RI Remit To				
N102	93	Name Description: Free-form name	M	AN	1/60	Must use
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	O	ID	1/2	Used
		Code Name 92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	O	AN	1/40	Used

N3 Address Information

Pos: 2800 Max:2
 Heading - Mandatory
 Loop: N1
 Element

User Option (Usage): Must use

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req Type	Min/Max	Usage
N301	166	Address Information Description: Address information	M AN	1/55	Must use
N302	166	Address Information Description: Address information	O AN	1/55	Used

N4 Geographic Location

Pos: 2900 Max: 1
 Heading - Mandatory
 Loop: N1
 Element

User Option (Usage): Must use

To specify the geographic place of the named party

Element Summary:

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

ITD Terms of Sale/Deferred Terms of Sale

Pos: 3000 Max: >1
 Heading - Mandatory
 Loop: N/A
 Elements : 11

User Option (Usage): Must use

To specify terms of sale

Comments:

1. Only accepted Terms Type Code = 02, 05, 08 or 12, all Terms Type Code must include ITD07
2. If either ITD03, ITD04 or ITD05 are present, then the others are required.
3. If the code in ITD01 is 05, then only ITD02, ITD06 and ITD07 must be present (ITD03, ITD04 not be used) and ITD05 can
4. If the code in ITD01 is 08, then ITD03, ITD04 and ITD05 must be present
5. ITD03, ITD05 & ITD07 must be greater than zero (0)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	Terms Type Code Description: Code identifying type of payment terms	M	ID	2/2	Must use
		Code Name				
		02 End of Month (EOM)				
		05 Discount Not Applicable				
		08 Basic Discount Offered				
		12 10 Days After EOM				
ITD02	333	Terms Basis Date Code Description: Code identifying the beginning of the terms period	M	ID	1/2	Must use
		Code Name				
		3 Invoice Date				
		User Note: Same as BIG01				
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	C	R	1/6	Used
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	Used
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	Used
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD	M	DT	8/8	Must use
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (greater than zero(0))	M	N0	1/3	Must use

DTM Date/Time Reference

Pos: 3100 Max:1
 Heading - Optional
 Loop: N/A
 Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	2/2	Must Use
		Code Name				
		011 Shipped				
DTM02	373	Date Date expressed as CCYYMMDD	C	DT	8/8	Used

FOB F.O.B. Related Instructions

Heading - Optional
Pos: 3200 Max: 1

Loop: N/A

User Option (Usage): Used

To specify transportation instructions relating to shipment

Syntax Rules:

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

Semantics:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Must use
		Code Name				
		CC Collect				
		PP Prepaid (by Seller)				
FOB02	309	Location Qualifier Description: Code identifying type of location	C	ID	1/2	Used
		Code Name				
		DE Destination (Shipping)				
		FA Factory				

N9 Reference Identification

Pos: 2810 Max:1
 Heading - Optional
 Loop: N/A
 Elements: 2

User Option (Usage): Used

To transmit identifying numbers and descriptive information as specified by the reference number qualifier.
 Used as a header record for the MSG segments.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	Reference Identification Qualifier	M	ID	2/3	Must Use
N902	127	Reference Identification	X	AN	1/30	Used
N902	369	Free-form Description	X	AN	1/45	Used

N9 Reference Identification

Pos: 2810 Max:1
 Heading - Optional
 Loop: N/A
 Elements: 2

User Option (Usage): Used

To transmit identifying numbers and descriptive information as specified by the reference number qualifier.
 Used as a header record for the MSG segments.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	Reference Identification Qualifier	M	ID	2/3	Must Use
N902	127	Reference Identification	X	AN	1/30	Used
N902	369	Free-form Description	X	AN	1/45	Used

Syntax Notes: At least one of 02 and 03 is required.
 If 06 is present, then 05 is required.

MSG Message Text

Pos: 2910 Max:10
 Heading – Mandatory
 Loop: N/A
 Elements: 1

User Option (Usage): Must Used

To provide a free-form format that would allow the transmission of text information.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MSG01	933	Free-Form Message Text	M	AN	1/264	Must Use

User Notes: MSG is mandatory if N9 is present.

IT1 Baseline Item Data (Invoice)

Pos: 0200

Max: 1

User Option (Usage): Must use

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

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
IT102	358	QuantityInvoiced Description: Number of units invoiced (supplier units)	M	R	1/10	Must use
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	M	ID	2/2	Must use
		Code Name				
		EA Each				
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	M	R	1/17	Must use
IT105	639	BasisofUnitPriceCode Description: Code identifying the type of unit price for an item	O	ID	2/2	Used
		Code Name				
		NC No Charge				
		WE Wholesale 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)	C	ID	2/2	Must use
		Code Name				
		EN European Article Number (EAN) (2-5-5-1)				
		UP U.P.C. Consumer Package Code (1-5-5-1)				
IT107	234	Product/Service ID Description: Identifying number for a product or service	C	AN	12/13	Must use
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used
		Code Name				
		EN European Article Number (EAN) (2-5-5-1)				

		UP	U.P.C. Consumer Package Code (1-5-5-1)					
IT109	234	Product/ServiceID		C	AN	12/13	Used	
		Description: Identifying number for a product or service						
IT110	235	Product/Service ID Qualifier		C	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
		Code	Name					
		SZ	Vendor Alphanumeric Size Code (NRMA)					
		VA	Vendor's Style Number					
		VE	Vendor Color					
IT111	234	Product/Service ID		C	AN	1/48	Used	
		Description: Identifying number for a product or service						
IT112	235	Product/Service ID Qualifier		C	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
		Code	Name					
		SZ	Vendor Alphanumeric Size Code (NRMA)					
		VA	Vendor's Style Number					
		VE	Vendor Color					
IT113	234	Product/Service ID		C	AN	1/48	Used	
		Description: Identifying number for a product or service						
IT114	235	Product/Service ID Qualifier		C	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
		Code	Name					
		SZ	Vendor Alphanumeric Size Code (NRMA)					
		VA	Vendor's Style Number					
		VE	Vendor Color					
IT115	234	Product/ServiceID		C	AN	1/48	Used	
		Description: Identifying number for a product or service						

PID Product/Item Description

Pos: 0400 Max: 1
 Not Defined - Mandatory
 Loop: PID Elements: 3

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Description Type Description: Code indicating the format of a description	Item M	ID	1/1	Must use
	F	Free-form				
PID02	750	Product/Process Characteristic Code Description: Code identifying the general class of a product or process characteristic Code Name	M	ID	2/3	Must use
	08	Product				
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	M	AN	1/80	Must use

TDS Total Monetary Value Summary

Pos: 0100 Max:1
 Summary - Mandatory
 Loop: N/A Element

User Option (Usage): Must use

To specify the total invoice discounts and amounts

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.

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	610	Amount Description: Monetary amount User Note: Total amount of the invoice plus al charges minus all allowances.	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount User Note: Total amount of invoice eligible for terms discount.	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

C A D Carrier Detail

Pos: 0300 Max: 1
 Summary - Mandatory
 Loop: N/A
 Element

User Option (Usage): Must use

To specify transportation details for the transaction

Syntax Rules:

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

Element Summary:

Ref	Id	Element Name	Req	Min/Max	Type
					Usage
CAD01	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment Code Name M Motor (Common Carrier)	M	ID 1/2	Must use
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code Routing	M	ID 2/4	Must use
CAD05	387	Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN 1/35	Used
CAD07	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Code Name BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice)	O	ID 2/3	Used
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	Used

S A C Service, Promotion, Allowance, or Charge Information

Pos: 0600 Max: 1
 Summary - Optional
 Loop: SAC Element
 s: 8

User Option (Usage): Used

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

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Must use
		Code Name A Allowance CCharge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	C	ID	4/4	Must use
		CodeName A260 Advertising Allowance B720 Cooperative Advertising/Merchandising Allowance (Performance) C000 Defective Allowance C260 Discount - Incentive C300 Discount - Special C310 Discount C540 Early Buy Allowance D240 Freight D500 Handling D920 Insurance Fee D980 Insurance E560 Marking or Tagging Charge E750 New Store Discount E800 No Return Credit Allowance E950 One-Time License Fee F180 Pallet F460 Postage F670 Price and Marketing Allowance				
		User Note: Vendor funding OFF Invoice				

F800 Promotional Allowance
User Note:
Bridal Registry
 G740 Service Charge
 G830 Shipping and Handling
 H090 Special Handling
 H730 Tax - Local Sales Tax
Description:All applicable sales taxes by taxing authorities below the State level
 H750 Tax - Sales Tax (State and Local)
 H770 Tax - State Tax
 I170 Trade Discount
 I240 Transportation And Setup
 I250 Transportation Charge (Minimum Rate)
 I260 Transportation Direct Billing
 I280 Transportation Vendor Provided
 I310 Truckload Discount
 I410 Unsaleable Merchandise Allowance
 I530 Volume Discount
 I570 Warehouse

SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Used
		Code Name				
		VI Voluntary Inter-Industry Commerce Standard (VICS) EDI				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge User Note: TC= Ticketing Service	C	AN	1/10	Used
SAC05	610	Amount Description: Monetary amount User Note: Total dollar amount of charge.	O	N2	1/15	Must use
SAC06	378	Allowance/Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated	C	ID	1/1	Used
		Code Name				
		3 Discount/Gross				
SAC07	332	Percent Description: Percent expressed as a percent	C	R	1/6	Used
SAC12	331	Allowance or Charge Method of Handling Code Description: Code indicating method of handling for an allowance or charge	O	ID	2/2	Used
		Code Name				
		02 Off Invoice				

ISS Invoice Shipment Summary

Pos: 0900 Max: 1
 Summary - Optional
 Loop: ISS
 Element

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS01	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	O	R	1/10	Used
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 Code <u>Name</u> EA Each	O	ID	2/2	Used

CTT Transaction Totals

Pos: 1100 Max:1
 Summary - Mandatory
 Loop: N/A
 Element

User Option (Usage): Must use

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

Comments :

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

Element Summary:

Ref	Id	Element Name	Req Type	Min/Max	M	Usage	Must
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set User Note: <i>The number of IT1 segments present in the transaction set</i>	NO	1/6			use

SE

Transaction Set Trailer

Pos: 1200 Max: 1
 Summary - Mandatory
 Loop: N/A
 Element

User Option (Usage): Must use

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

Comments :

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Must use
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	Must use

GE Functional Group Trailer

Pos: 0100 Max:1
 Not Defined - Mandatory
 Loop: N/A Elements: 2

User Option (Usage): Used

To indicate the end of a functional group and to provide control information

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

IEA Interchange Control Trailer

Pos: 0200 Max: 1
 Not Defined - Mandatory
 Loop: N/A Elements: 2

User Option (Usage): Used

To define the end of an interchange of zero or more functional groups and interchange -related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use

Example

Sample Invoice Transaction

ISA*00* *00* *01*123456798 *01*014492501 *09061 0*2030*U*00401 *000003089*0*P*~>~
 GS*IN*002358463*014492501*2009061 0*2030*3089*X*00401 0VICS~
 ST*810*30890001~
 BIG*2009061 0*7125902245*20090602*393422~
 N1*BY*BOSCOV'S*92*00003~
 N1*ST**92*00015~
 N1*RI*Sample Vendor~
 N3*PO BOX 933884~
 N4*Sample*PA*19606-3884~
 ITD*05*3***2009071 0*30~
 DTM*01 1*20090610~
 N9*LI*DISCLAIMER
 MSG*Seller confirms~
 FOB*CC*DE~
 IT1**4*EA*6.3**UP*999999228834~
 PID*F*08***TRNCUFPLUS~
 TDS*2520~
 CAD*M***ABFS*ABF FREIGHT SYSTEM**BM*07868880000867514~
 ISS*4*EA~
 CTT*1~
 SE*18*30890001~ ST*810*30890002~
 BIG*2009061 0*7125902246*20090602*393422~
 N1*BY*BOSCOV'S*92*00004~
 N1*ST**92*0001 5~
 N1*RI*Sample Vendor~
 N3*PO BOX 933884~
 N4*Sample*PA*19606-3884~
 ITD*05*3***20090710*30~
 DTM*011*20090610~
 FOB*CC*DE~
 N9*LI*DISCLAIMER
 MSG*Seller confirms~
 IT1**4*EA*6.3**UP*999999256776~
 PID*F*08**6PR LINER~
 IT1**4*EA*6.3**UP*999999228858~
 PID*F*08***LINERPLUS~
 IT1**4*EA*6.3**UP*999999253508~
 PID*F*08***JERSYLNRL~
 TDS*7560~
 CAD*M***ABFS*ABF FREIGHT SYSTEM**BM*07868880000867514~
 ISS*12*EA~
 CTT*3~
 SE*22*30890002~
 ST*810*30890003~
 GE*2*3089~
 IEA*1*000003089~