810 Invoice

Version: BISG 1.0 Final

Company: Book Industry Study Group

Publication: 9/23/2008

Trading Partner: Manufacturing Executive Interest Group

Notes:

Development Platform Software provided by

EDIFECS

"The Quality and Compliance Company®"

Edifecs' SpecBuilder 6.5
selected as the Development Platform
for the MEIG ASN Sub-Committee

For Information Contact:

info@edifecs.com

(425) 452-0650

www.edifecs.com

Table of Contents

810

Invoice

Functional Group=IN

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0400	CUR	Currency	O	1			Used
0500	REF	Reference Information	O	12			Used
LOOP ID - N1					**200**		
0700	N1	Party Identification	O	1			Used
0800	N2	Additional Name Information	O	2			Used
0900	N3	Party Location	O	2			Used
1000	N4	Geographic Location	O	1			Used
1200	PER	Administrative Communications Contact	O	3			Used
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
1400	DTM	Date/Time Reference	O	10			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					**200000**		
0100	IT1	Baseline Item Data (Invoice)	O	1			Used
0300	IT3	Additional Item Data	O	5			Used
0400	TXI	Tax Information	O	>1			Used
0500	CTP	Pricing Information	O	25			Used
LOOP ID - PID					**1000**		
0600	PID	Product/Item Description	O	1			Used
0700	MEA	Measurements	O	10			Used
1100	ITD	Terms of Sale/Deferred Terms of Sale	O	2			Used
1200	REF	Reference Information	O	>1			Used
1300	PER	Administrative Communications Contact	O	5			Used
1400	SDQ	Destination Quantity	O	500			Used
1500	DTM	Date/Time Reference	O	10			Used
1600	CAD	Carrier Details	O	>1			Used
LOOP ID - SAC					**>1**		
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - TXI					**>1**		
1900	TXI	Tax Information	O	1			Used
1950	DTM	Date/Time Reference	O	1			Used
LOOP ID - SLN					**1000**		
2000	SLN	Subline Item Detail	O	1			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
2050	DTM	Date/Time Reference	O	1			Used
2100	REF	Reference Information	O	>1			Used
2200	PID	Product/Item Description	O	1000			Used
2300	SAC	Service, Promotion, Allowance, or Charge Information	O	>1			Used
2350	TC2	Commodity	O	2			Used
2370	TXI	Tax Information	O	>1			Used

LOOP ID - N1					**200**		
2400	N1	Party Identification	O	1			Used
2500	N2	Additional Name Information	O	2			Used
2600	N3	Party Location	O	2			Used
2700	N4	Geographic Location	O	1			Used
2800	REF	Reference Information	O	12			Used
2900	PER	Administrative Communications Contact	O	3			Used
2950	DMG	Demographic Information	O	1			Used

LOOP ID - LM					**10**		
3000	LM	Code Source Information	O	1			Used
3100	LQ	Industry Code Identification	M	100			Must use

LOOP ID - V1					**>1**		
3200	V1	Vessel Identification	O	1			Used
3300	R4	Port or Terminal	O	>1			Used
3400	DTM	Date/Time Reference	O	>1			Used

LOOP ID - FA1					**>1**		
3500	FA1	Type of Financial Accounting Data	O	1			Used
3600	FA2	Accounting Data	M	>1			Must use

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	TDS	Total Monetary Value Summary	M	1			Must use
0200	TXI	Tax Information	O	>1			Used
0300	CAD	Carrier Details	O	1			Used
0350	AMT	Monetary Amount Information	O	>1			Used

LOOP ID - SAC					**>1**		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
0450	DTM	Date/Time Reference	O	>1			Used

LOOP ID - TXI					**>1**		
0500	TXI	Tax Information	O	1			Used
0550	DTM	Date/Time Reference	O	1			Used

LOOP ID - ISS					**>1**		
0600	ISS	Invoice Shipment Summary	O	1			Used
0650	PID	Product/Item Description	O	1			Used
0700	CTT	Transaction Totals	O	1		N3/0700	Used
0800	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/0700   Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the

hash total of the quantities invoiced (IT102) for each IT1 segment.

ST   Transaction Set Header

<table>
<tr><td>Pos: 0100</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 3</td></tr>
</table>

User Option (Usage): Must use
Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code	Name
810	Invoice

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

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST03	1705	**Implementation Convention Reference**	O	AN	1/35	Used

Description: Reference assigned to identify Implementation Convention

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.   When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BIG   Beginning Segment for Invoice

Pos: 0200   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 9

User Option (Usage): Must use
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year
User Note 1: BISAC indicates that this field is generally used to indicate the date the invoice was created.   Houghton-Mifflin (Supplier Invoice Date)

BIG02	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer

BIG03	373	**Date**	O	DT	8/8	Used

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year
User Note 1: BISAC indicates that this date field is for the purchase order date

BIG04	324	**Purchase Order Number**	O	AN	1/22	Used

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

BIG05	328	**Release Number**	O	AN	1/30	Used

Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

BIG06	327	**Change Order Sequence Number**	O	AN	1/8	Used

Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set

BIG07	640	**Transaction Type Code**	O	ID	2/2	Used

Description: Code specifying the type of transaction

Code	Name
27	Warehouse Services Invoice

User Note 1:
 BISAC

Code	Name
CI	Consolidated Invoice

User Note 1:
 BISAC

Code	Name
CR	Credit Memo

User Note 1:
 BISAC

Code	Name
DI	Debit Invoice

User Note 1:
 Walden Books, Simon and Schuster

Code	Name
DR	Debit Memo

User Note 1:
 BISAC

BIG08	353	**Transaction Set Purpose Code**	O	ID	2/2	Used

Description: Code identifying purpose of transaction set

Code	Name
00	Original

User Note 1:
BISAC

CO	Corrected

User Note 1:
BISAC

BIG11	1005	**Hierarchical Structure Code**	O	ID	4/4	Used

Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

Code	Name
0001	Shipment, Order, Packaging, Item

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 is the consolidated invoice number associated with the invoice identified in BIG02.   When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

Comments:

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

CUR **Currency**

<table>
<tr><td>Pos: 0400</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

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

Element Summary:

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

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

Code	Name
BY	Buying Party (Purchaser)

User Note 1:
  BISAC, Houghton Mifflin

Code	Name
SE	Selling Party

User Note 1:
  BISAC, Houghton Mifflin

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR02	100	**Currency Code**	M	ID	3/3	Must use

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

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 Information

<table>
<tr><td>Pos: 0500</td><td>Max: 12</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
BM	Bill of Lading Number

User Note 1:
BISAC, Simon and Schuster

CT	Contract Number

User Note 1:
BISAC

GT	Goods and Service Tax Registration Number

User Note 1:
BISAC

GZ	General Ledger Account

User Note 1:
Scholastic

IA	Internal Vendor Number

User Note 1:
BISAC

IT	Internal Customer Number

User Note 1:
BISAC

JB	Job (Project) Number

User Note 1:
BISAC

PK	Packing List Number

User Note 1:
Random House

PL	Price List Number

User Note 1:
BISAC

Q1	Quote Number

User Note 1:
BISAC

R7	Accounts Receivable Open Item

User Note 1:
Scholastic

T7	Affected Subsystem Code

User Note 1:
Scholastic

TJ	Federal Taxpayer's Identification Number

User Note 1:
BISAC

TX	Tax Exempt Number

User Note 1:

		BISAC				
REF02	127	**Reference Identification**	X	AN	1/80	Used

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

Syntax Rules:

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

Semantics:

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

Loop Party Identification

Pos: 0700	**Repeat: 200**
Optional	
Loop: N1	**Elements: N/A**

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0700	N1	Party Identification	O	1		Used
0800	N2	Additional Name Information	O	2		Used
0900	N3	Party Location	O	2		Used
1000	N4	Geographic Location	O	1		Used
1200	PER	Administrative Communications Contact	O	3		Used

N1   Party Identification

<table>
<tr><td>Pos: 0700</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

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

Code	Name
BT	Bill-to-Party

User Note 1:
BISAC, Houghton Mifflin

Code	Name
FS	Final Scheduled Destination

User Note 1:
Random House

Code	Name
OB	Ordered By

User Note 1:
BISAC, Houghton Mifflin

Code	Name
RI	Remit To

User Note 1:
BISAC, Houghton Mifflin

Code	Name
SF	Ship From

User Note 1:
BISAC, Houghton Mifflin

Code	Name
ST	Ship To

User Note 1:
BISAC, Houghton Mifflin, Simon and Schuster,

Code	Name
VN	Vendor

User Note 1:
BISAC, Houghton Mifflin,

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

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

User Note 1:
BISAC

Code	Name
92	Assigned by Buyer or Buyer's Agent

User Note 1:
BISAC, Houghton Mifflin,

Code	Name
UL	Global Location Number (GLN)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Syntax Rules:

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

Comments:

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

N2   Additional Name Information

Pos: 0800	**Max: 2**
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used
Purpose: To specify additional names

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	**Name**	O	AN	1/60	Used
		Description: Free-form name				

N3　Party Location

		Pos: 0900　　　　Max: 2
		Heading - Optional
		Loop: N1　　　Elements: 2

User Option (Usage): Used
Purpose: To specify the location of the named party

Element Summary:

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

N4   Geographic Location

Pos: 1000	Max: 1
Heading - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Used
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N402	156	**State or Province Code**	X	ID	2/2	Used

Description: Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N403	116	**Postal Code**	O	ID	3/15	Used

Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N404	26	**Country Code**	X	ID	2/3	Used

Description: Code identifying the country

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

PER Administrative Communications Contact

Pos: 1200	Max: 3
Heading - Optional	
Loop: N1	Elements: 8

User Option (Usage): Used
Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Must use

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

Code	Name
AP	Accounts Payable Department

User Note 1:
  BISAC, Houghton Mifflin,

AR	Accounts Receivable Department

User Note 1:
  BISAC, Houghton Mifflin,

BD	Buyer Name or Department

User Note 1:
  BISAC, Houghton Mifflin,

OC	Order Contact

User Note 1:
  BISAC, Houghton Mifflin,

RE	Receiving Contact

User Note 1:
  BISAC, Houghton Mifflin,

SR	Sales Representative or Department

User Note 1:
  BISAC, Houghton Mifflin,

SU	Supplier Contact

User Note 1:
  BISAC, Houghton Mifflin,

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

Description: Free-form name

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

Description: Code identifying the type of communication number

Code	Name
BN	Beeper Number

User Note 1:
  Houghton Mifflin,

CP	Cellular Phone

User Note 1:
  BISAC, Houghton Mifflin,

EM	Electronic Mail
EX	Telephone Extension
FX	Facsimile
TE	Telephone
TM	Telemail

User Note 1:

BISAC, Houghton Mifflin

PER04	364	**Communication Number**	X	AN	1/256	Used

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

PER05	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number

Code	**Name**
BN	Beeper Number

User Note 1:
Houghton Mifflin,

CP	Cellular Phone

User Note 1:
BISAC, Houghton Mifflin,

EM	Electronic Mail
EX	Telephone Extension
FX	Facsimile
TE	Telephone
TM	Telemail

User Note 1:
BISAC, Houghton Mifflin

PER06	364	**Communication Number**	X	AN	1/256	Used

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

PER07	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number

Code	**Name**
BN	Beeper Number

User Note 1:
Houghton Mifflin,

CP	Cellular Phone

User Note 1:
BISAC, Houghton Mifflin,

EM	Electronic Mail
EX	Telephone Extension
FX	Facsimile
TE	Telephone
TM	Telemail

User Note 1:
BISAC, Houghton Mifflin

PER08	364	**Communication Number**	X	AN	1/256	Used

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

Syntax Rules:

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

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300　　Max: >1
Heading - Optional
Loop: N/A　　Elements: 11

User Option (Usage): Used
Purpose: To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code**	O	ID	2/2	Used

Description: Code identifying type of payment terms

Code	Name
01	Basic

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
02	End of Month (EOM)

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
03	Fixed Date

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
07	Extended

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
08	Basic Discount Offered

> **User Note 1:**
> *Wal-Mart*

Code	Name
12	10 Days After End of Month (10 EOM)

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
14	Previously agreed upon

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
18	Fixed Date, Late Payment Penalty Applies

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
ZZ	Mutually Defined

> **User Note 1:**
> *Simon and Schuster*

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

Description: Code identifying the beginning of the terms period

Code	Name
1	Ship Date

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

Code	Name
2	Delivery Date

> **User Note 1:**
> *BISAC*

Code	Name
3	Invoice Date

> **User Note 1:**
> *BISAC, Houghton Mifflin,*

			4	Specified Date

User Note 1:
  BISAC, Houghton Mifflin,

	8	Invoice Transmission Date

User Note 1:
  BISAC, Houghton Mifflin,

	ZZ	Mutually Defined

User Note 1:
  Simon and Schuster

ITD03	338	**Terms Discount Percent**	O	R	1/6	Used

Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

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

Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

ITD05	351	**Terms Discount Days Due**	X	N0	1/3	Used

Description: Number of days in the terms discount period by which payment is due if terms discount is earned

ITD06	446	**Terms Net Due Date**	O	DT	8/8	Used

Description: Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

ITD07	386	**Terms Net Days**	O	N0	1/3	Used

Description: Number of days until total invoice amount is due (discount not applicable)

ITD08	362	**Terms Discount Amount**	O	N2	1/10	Used

Description: Total amount of terms discount

ITD12	352	**Description**	O	AN	1/80	Used

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

ITD13	765	**Day of Month**	X	N0	1/2	Used

Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced

ITD14	107	**Payment Method Type Code**	O	ID	1/2	Used

Description: Code identifying type of payment procedures

Code	**Name**
C	Pay By Check

User Note 1:
  BISAC, Houghton Mifflin,

E	Electronic Payment System

User Note 1:
  BISAC, Houghton Mifflin,

L	Letter of Credit

User Note 1:
  BISAC, Houghton Mifflin,

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**

<table>
<tr><td>Pos: 1400</td><td>Max: 10</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 3</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

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

Code	Name
003	Invoice

> **User Note 1:**
> *BISAC*

Code	Name
011	Shipped

> **User Note 1:**
> *BISAC, Houghton Mifflin*

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

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM05	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
User Note 1: *Under review by committee may be covered under DTM 373 02*

Code	Name
D8	Date Expressed in Format CCYYMMDD

Syntax Rules:

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

Loop Baseline Item Data (Invoice)

Pos: 0100	**Repeat: 200000**
Optional	
Loop: IT1	**Elements: N/A**

User Option (Usage): Used
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0100	IT1	Baseline Item Data (Invoice)	O	1		Used
0300	IT3	Additional Item Data	O	5		Used
0400	TXI	Tax Information	O	>1		Used
0500	CTP	Pricing Information	O	25		Used
0600		Loop PID	O		1000	Used
1100	ITD	Terms of Sale/Deferred Terms of Sale	O	2		Used
1200	REF	Reference Information	O	>1		Used
1300	PER	Administrative Communications Contact	O	5		Used
1400	SDQ	Destination Quantity	O	500		Used
1500	DTM	Date/Time Reference	O	10		Used
1600	CAD	Carrier Details	O	>1		Used
1800		Loop SAC	O		>1	Used
2000		Loop SLN	O		1000	Used
2400		Loop N1	O		200	Used
3000		Loop LM	O		10	Used
3200		Loop V1	O		>1	Used
3500		Loop FA1	O		>1	Used

IT1   Baseline Item Data (Invoice)

Pos: 0100	**Max: 1**
Detail - Optional	
Loop: IT1	**Elements: 15**

User Option (Usage): Used
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT102	358	**Quantity Invoiced**	X	R	1/15	Used

Description: Number of units invoiced (supplier units)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT103	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

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

Code	Name
BK	Book
CA	Case
CT	Carton
CW	Hundred Pounds (CWT)
EA	Each

> **User Note 1:**
> *Simon and Schuster*

Code	Name
HU	Hundred
HW	Hundred Weight (Long)
LB	Pound
LH	Labor Hours
MO	Months

> **User Note 1:**
> *Houghton Mifflin*

Code	Name
NL	Load

> **User Note 1:**
> *Houghton Mifflin - Load per Month Storage (pallet)*

Code	Name
OT	Overtime Hours

> **User Note 1:**
> *BISAC, Houghton Mifflin*

Code	Name
ST	Set
TH	Thousand

> **User Note 1:**
> *Quebecor*

Code	Name
UN	Unit

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT104	212	**Unit Price**	X	R	1/17	Used

Description: Price per unit of product, service, commodity, etc.

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

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

Code	Name
CA	Catalog
CT	Contract
NC	No Charge

PE	Price per Each
PR	Promotion
QT	Quoted
SR	Suggested Retail

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

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

Code	**Name**
AI	Alternate ISBN
B1	Volume Set

> **User Note 1:**
> *BISAC*

B2	Library of Congress Code

> **User Note 1:**
> *BISAC*

B3	Edition Code

> **User Note 1:**
> *BISAC*

B4	Binding Code

> **User Note 1:**
> *BISAC*

B5	Title Code

> **User Note 1:**
> *BISAC*

B6	Author Code

> **User Note 1:**
> *BISAC*

B7	Publisher Code

> **User Note 1:**
> *BISAC*

BN	Bar-Coded Serial Number

> **User Note 1:**
> *BISAC*

BP	Buyer's Part Number

> **User Note 1:**
> *Houghton Mifflin*

CB	Buyer's Catalog Number

> **User Note 1:**
> *BISAC*

EI	Expense Identifier

> **User Note 1:**
> *BISAC*

EN	GTIN EAN/UCC - 13 Digit Data Structure

> **User Note 1:**
> *BISAC, Random House*

GC	Grade Code

> **User Note 1:**
> *BISAC*

IB	International Standard Book Number (ISBN)

> **User Note 1:**
> *Simon and Schuster, Random House*

IN	Buyer's Item Number

> **User Note 1:**

Wal-Mart

IZ   Buyer's Size Code
User Note 1:
BISAC (roll size width)

JN   Job Number
User Note 1:
BISAC

LT   Lot Number
User Note 1:
Wal-Mart

PL   Purchaser's Order Line Number
User Note 1:
BISAC

PO   Purchase Order Number
User Note 1:
BISAC, Simon and Schuster

PR   Process Number
User Note 1:
BISAC

RP   Replaced Part Number
User Note 1:
BISAC

RU   Run Number
User Note 1:
BISAC

RY   Record Keeping or Model Year
User Note 1:
BISAC

SC   Seller's Date Code
User Note 1:
BISAC

SJ   Religious Retail Non-book Item
User Note 1:
BISAC

SK   Stock Keeping Unit (SKU)
User Note 1:
BISAC

SL   Seller's Lot Number
User Note 1:
BISAC

UK   GTIN 14-digit Data Structure
User Note 1:
Random House

UP   GTIN UCC - 12 Digit Data Structure
User Note 1:
BISAC

VE   Vendor Color
User Note 1:
BISAC

VN   Vendor's (Seller's) Item Number
User Note 1:
BISAC

VO   Vendor's Order Number
User Note 1:

BISAC

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

Description: Identifying number for a product or service
User Note 1: *BISAC PUB/MFG PUBLISHER COST CODES*

BISAC Usage:
Where IT1 06 Uses the 'EI' qualifier for Document Identification Code, use the 7 digit BISAC PUB/MFG PUBLISHER COST CODES in the IT1 07 to identify the source of the charge.

The BISAC PUB/MFG PUBLISHER COST CODES is a 7 digit code.

Where, The first two characters (PRODUCT Segment) mirrors the book industry standard for separating Book manufacturing into job elements that can be purchased and/or controlled as separate deliverable Products/sub-assemblies.

The next two characters (JOB Segment) indicates the major cost centers in book Manufacturing.

The last three characters (OPERATION Breakdown Segment) provides a greater level of detail cost reporting needed by most Publishers to separate Plant verse Edition costs. The elements in this segment of the BISAC COST CODE can be used by any of the PRODUCT and JOB segment codes. e.g. "010"- Make-Ready can be used with the leading segments "0030" Book Printing or "0630" Text Printing.

#	PRODUCT SEGMENT
00	*Book*
05	*Book Block*
06	*Text*
07	*Text Insert*
08	*End Paper*
09	*Cover Insert*
20	*Cover*
21	*Jacket*
22	*Slipcover/Sleeve*
23	*J-cards*
24	*Case Side*
30	*Label/Hologram/Sticker*
31	*Card*
32	*Poster*
33	*Acetate*
34	*Errata*
35	*Documentation*
40	*Display*
41	*Set*
42	*Package*
43	*Kit*
61	*Magazine*
62	*Brochure*
63	*Catalog*
71	*Cassette - Audio*
72	*Cassette - Video*
73	*CD - Audio/Video*
74	*CD-CR/ROM*
75	*Diskette*
76	*DVD*
77	*Laser disc*
80	*Promotion item*
81	*Merchandise*
95	*Customer Owned Material*
99	*Other/MISC*

##	*JOB SEGMENT*
00	*Summation of all Job Segments*
10	*Editorial/Art Development*
20	*Prep*
30	*Printing*
36	*Print & Bind*
40	*Bind*
50	*Assembly*
80	*Distribution*
85	*Fulfillment*
90	*Other- Manufacturing*
95	*Storage*
99	*Miscellaneous*
###	*OPERATION, BREAKDOWN*
000	*SUMMATION of all Operation codes*
010	*MAKE-READY*
011	*RUN*
012	*Make-ready & Run combined*
090	*Overs/Unders*
100	*Permission*
101	*Manuscript Purchase*
102	*Grants*
103	*Supplied Film(Purchased)*
130	*Art Creation*
131	*Design*
132	*Illustration*
133	*Photography*
134	*Recording*
135	*Translation*
136	*Art/Stats/Board*
140	*Sample Page*
141	*Dummy*
170	*Typesetting*
180	*Copy Editing*
181	*Proofreading*
182	*Indexing*
183	*Packager Fee*
184	*Remake*
200	*Prep*
201	*Prep & Blue*
202	*Prep & Proof*
210	*Film*
220	*Proof*
221	*Separation*
222	*Transparency*
230	*Mechanical*
231	*vendor Supplied Film*
240	*Composition*
241	*Display Composition*
250	*Electronic Composition*
251	*Electronic Composition Alteration*
252	*Electronic Services - Imaging Center*
263	*Electronic Film Work*
254	*Electronic Film Work Alteration*
258	*Mastering (CD, Diskette, DVD Etc.)*
290	*Author Alterations*
291	*Film or Plate Correction*
295	*Plates-Reusable*
296	*Plates-Disposable*
305	*Coating/Finishing **

310	*Run-on*
320	*Print & Bind **
321	*Plates, Paper, Print & Lam. **
322	*Whole Book**
404	*Fold & Gather **
405	*Stickers / Sticking **
406	*Dies (Binding, Foil, Embossing, etc.)*
410	*Foiling & Embossing*
411	*Foiling*
414	*Embossing*
417	*Engraving*
420	*Indexing*
426	*Labeling (Product)*
427	*Shrink Wrapping*
428	*Ribbon*
430	*Manual Operations*
435	*Gilding*
440	*Slipcase Wraps assembly*
445	*Headbands*
460	*Score & perforate*
498	*Binding - Separate*
505	*Set Making*
510	*Fitting*
615	*Display Filling*
520	*Cartons*
525	*Display, Dump, Rack, etc*
580	*Pallet*
700	*Vendor Supplied materials*
710	*Vendor Supplied Paper*
720	*Special Inks*
750	*Raw Materials - Text Stock*
754	*Raw Materials - Jacket Stock*
755	*Raw Materials - Cover Stock*
758	*Raw Materials - Insert Stock*
760	*Raw Materials - Endpaper Stock*
765	*Raw Materials - Illustration Stock*
770	*Raw Materials - Trays(Cassette,etc.)*
775	*Raw Materials - Cases(Jewel, Diskette*
780	*Raw Materials - Display*
790	*Raw Materials - Other*
810	*Freight*
811	*Freight - Ocean*
812	*Freight - Express/Air*
813	*Freight - Special Handling*
814	*Freight - Drop Ship Charge*
815	*Palletizing (labor, carton & pallet Charge)*
820	*Cartoning (Labor and carton*
830	*Labeling (Shipping)*
840	*Import Product*
849	*Other Distribution*
900	*Other Operation*
920	*Duplication (Diskette, CD, etc.)*
930	*Computer Cost*
940	*Repair/Rework/Convert*
950	*Archive cost*
991	*Overtime*
996	*Goods & Services Tax(GST)*
997	*Finance Charge*
998	*Credit/Rebate*
999	*Miscellaneous*

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

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

Code	**Name**
AI	Alternate ISBN
B1	Volume Set
B2	Library of Congress Code
B3	Edition Code
B4	Binding Code
B5	Title Code
B6	Author Code
B7	Publisher Code
BN	Bar-Coded Serial Number
BP	Buyer's Part Number
CB	Buyer's Catalog Number
EI	Expense Identifier
EN	GTIN EAN/UCC - 13 Digit Data Structure
GC	Grade Code
IB	International Standard Book Number (ISBN)
IN	Buyer's Item Number
IZ	Buyer's Size Code
JN	Job Number
LT	Lot Number
PL	Purchaser's Order Line Number
PO	Purchase Order Number
PR	Process Number
RP	Replaced Part Number
RU	Run Number
RY	Record Keeping or Model Year
SC	Seller's Date Code
SJ	Religious Retail Non-book Item
SK	Stock Keeping Unit (SKU)
SL	Seller's Lot Number
UK	GTIN 14-digit Data Structure
UP	GTIN UCC - 12 Digit Data Structure
VE	Vendor Color
VN	Vendor's (Seller's) Item Number
VO	Vendor's Order Number

IT109	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

IT110	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

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

Code	**Name**
AI	Alternate ISBN
B1	Volume Set
B2	Library of Congress Code
B3	Edition Code
B4	Binding Code
B5	Title Code
B6	Author Code
B7	Publisher Code

BN	Bar-Coded Serial Number	
BP	Buyer's Part Number	
CB	Buyer's Catalog Number	
EI	Expense Identifier	
EN	GTIN EAN/UCC - 13 Digit Data Structure	
GC	Grade Code	
IB	International Standard Book Number (ISBN)	
IN	Buyer's Item Number	
IZ	Buyer's Size Code	
JN	Job Number	
LT	Lot Number	
PL	Purchaser's Order Line Number	
PO	Purchase Order Number	
PR	Process Number	
RP	Replaced Part Number	
RU	Run Number	
RY	Record Keeping or Model Year	
SC	Seller's Date Code	
SJ	Religious Retail Non-book Item	
SK	Stock Keeping Unit (SKU)	
SL	Seller's Lot Number	
UK	GTIN 14-digit Data Structure	
UP	GTIN UCC - 12 Digit Data Structure	
VE	Vendor Color	
VN	Vendor's (Seller's) Item Number	
VO	Vendor's Order Number	

IT111	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

IT112	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

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

Code	**Name**
AI	Alternate ISBN
B1	Volume Set
B2	Library of Congress Code
B3	Edition Code
B4	Binding Code
B5	Title Code
B6	Author Code
B7	Publisher Code
BN	Bar-Coded Serial Number
BP	Buyer's Part Number
CB	Buyer's Catalog Number
EI	Expense Identifier
EN	GTIN EAN/UCC - 13 Digit Data Structure
GC	Grade Code
IB	International Standard Book Number (ISBN)
IN	Buyer's Item Number
IZ	Buyer's Size Code
JN	Job Number
LT	Lot Number
PL	Purchaser's Order Line Number

		PO	Purchase Order Number
		PR	Process Number
		RP	Replaced Part Number
		RU	Run Number
		RY	Record Keeping or Model Year
		SC	Seller's Date Code
		SJ	Religious Retail Non-book Item
		SK	Stock Keeping Unit (SKU)
		SL	Seller's Lot Number
		UK	GTIN 14-digit Data Structure
		UP	GTIN UCC - 12 Digit Data Structure
		VE	Vendor Color
		VN	Vendor's (Seller's) Item Number
		VO	Vendor's Order Number

IT113	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

IT114	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

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

Code	**Name**
AI	Alternate ISBN
B1	Volume Set
B2	Library of Congress Code
B3	Edition Code
B4	Binding Code
B5	Title Code
B6	Author Code
B7	Publisher Code
BN	Bar-Coded Serial Number
BP	Buyer's Part Number
CB	Buyer's Catalog Number
EI	Expense Identifier
EN	GTIN EAN/UCC - 13 Digit Data Structure
GC	Grade Code
IB	International Standard Book Number (ISBN)
IN	Buyer's Item Number
IZ	Buyer's Size Code
JN	Job Number
LT	Lot Number
PL	Purchaser's Order Line Number
PO	Purchase Order Number
PR	Process Number
RP	Replaced Part Number
RU	Run Number
RY	Record Keeping or Model Year
SC	Seller's Date Code
SJ	Religious Retail Non-book Item
SK	Stock Keeping Unit (SKU)
SL	Seller's Lot Number
UK	GTIN 14-digit Data Structure
UP	GTIN UCC - 12 Digit Data Structure
VE	Vendor Color

			VN	Vendor's (Seller's) Item Number			
			VO	Vendor's Order Number			
IT115	234	**Product/Service ID**			X	AN	1/48	Used

Description: Identifying number for a product or service

Syntax Rules:
1. P020304 - If 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 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., ISBN No., Model No., or SKU.

IT3 Additional Item Data

<div style="border:1px solid">
Pos: 0300   Max: 5
Detail - Optional
Loop: IT1   Elements: 5
</div>

User Option (Usage): Used
Purpose: To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT301	382	**Number of Units Shipped**	X	R	1/10	Used

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT302	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

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

Code	Name
BK	Book
CA	Case
CT	Carton
CW	Hundred Pounds (CWT)
EA	Each

User Note 1:
  Simon and Schuster

Code	Name
HU	Hundred
HW	Hundred Weight (Long)
LB	Pound
LH	Labor Hours
MO	Months

User Note 1:
  Houghton Mifflin

Code	Name
NL	Load

User Note 1:
  Houghton Mifflin - Load per Month Storage (pallet)

Code	Name
OT	Overtime Hours

User Note 1:
  BISAC, Houghton Mifflin

Code	Name
ST	Set
TH	Thousand

User Note 1:
  Quebecor

Code	Name
UN	Unit

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT303	368	**Shipment/Order Status Code**	X	ID	2/2	Used

Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

Code	Name
AN	Available Now - No Shipping Schedule
AS	Available Now - Scheduled to Ship (date)
AV	Available

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT304	383	**Quantity Difference**	X	R	1/9	Used

Description: Numeric value of variance between ordered and shipped quantities

IT305	371	**Change Reason Code**	X	ID	2/2	Used

Description: Code specifying the reason for price or quantity change
All valid standard codes are used.

Syntax Rules:

1. P0102 - If either IT301 or IT302 is present, then the other is required.
2. R01030405 - At least one of IT301, IT303, IT304 or IT305 is required.

TXI   Tax Information

Pos: 0400	Max: >1
Detail - Optional	
Loop: IT1	**Elements: 2**

User Option (Usage): Used
Purpose: To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax

Code	Name
MP	Municipal Tax
ST	State Sales Tax
SU	Sales and Use Tax

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

Description: Monetary amount

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.

CTP   Pricing Information

Pos: 0500	**Max: 25**
Detail - Optional	
Loop: IT1	**Elements: 4**

User Option (Usage): Used
Purpose: To specify pricing information

Element Summary:

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

Description: Code identifying pricing specification

Code	Name
SLP	Suggested List Price

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP03	212	**Unit Price**	X	R	1/17	Used

Description: Price per unit of product, service, commodity, etc.

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

Description: Code indicating the type of price multiplier

Code	Name
DIS	Discount Multiplier

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

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

Syntax Rules:

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

Semantics:

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

Comments:

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

Loop Product/Item Description

Pos: 0600	Repeat: 1000
Optional	
Loop: PID	Elements: N/A

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0600	PID	Product/Item Description	O	1		Used
0700	MEA	Measurements	O	10		Used

PID   Product/Item Description

Pos: 0600	Max: 1
Detail - Optional	
Loop: PID	**Elements: 9**

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Must use

Description: Code indicating the format of a description
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	Used

Description: Code identifying the general class of a product or process characteristic
All valid standard codes are used.

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

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID06	752	**Surface/Layer/Position Code**	O	ID	2/2	Used

Description: Code indicating the product surface, layer or position that is being described
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID07	822	**Source Subqualifier**	O	AN	1/15	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID08	1073	**Yes/No Condition or Response Code**	O	ID	1/1	Used

Description: Code indicating a Yes or No condition or response
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID09	819	**Language Code**	O	ID	2/3	Used

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

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.

MEA **Measurements**

Pos: 0700	**Max: 10**
Detail - Optional	
Loop: PID	**Elements: 12**

User Option (Usage): Used
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights
(See Figures Appendix for example of use of C001)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	**Measurement Reference ID Code**	O	ID	2/2	Used
		Description: Code identifying the broad category to which a measurement applies **All valid standard codes are used.**				
MEA02	738	**Measurement Qualifier**	O	ID	1/3	Used
		Description: Code identifying a specific product or process characteristic to which a measurement applies **All valid standard codes are used.**				
MEA03	739	**Measurement Value**	X	R	1/20	Used
		Description: The value of the measurement				
MEA04	C001	**Composite Unit of Measure**	X	Comp		Used
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
MEA04-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		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.**				
MEA04-02	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
MEA04-03	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-04	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
MEA04-05	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
MEA04-06	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-07	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
MEA04-08	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
MEA04-09	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				

MEA04-10	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

MEA04-11	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised

MEA04-12	649	**Multiplier**	O	R	1/10	Used

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

MEA04-13	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

MEA04-14	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised

MEA04-15	649	**Multiplier**	O	R	1/10	Used

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

MEA05	740	**Range Minimum**	X	R	1/20	Used

Description: The value specifying the minimum of the measurement range

MEA06	741	**Range Maximum**	X	R	1/20	Used

Description: The value specifying the maximum of the measurement range

MEA07	935	**Measurement Significance Code**	O	ID	2/2	Used

Description: Code used to benchmark, qualify or further define a measurement value
All valid standard codes are used.

MEA08	936	**Measurement Attribute Code**	X	ID	2/2	Used

Description: Code used to express an attribute response when a numeric measurement value cannot be determined
All valid standard codes are used.

MEA09	752	**Surface/Layer/Position Code**	O	ID	2/2	Used

Description: Code indicating the product surface, layer or position that is being described
All valid standard codes are used.

MEA10	1373	**Measurement Method or Device**	O	ID	2/4	Used

Description: The method or device used to record the measurement
All valid standard codes are used.

MEA11	1270	**Code List Qualifier Code**	X	ID	1/3	Used

Description: Code identifying a specific industry code list
All valid standard codes are used.

MEA12	1271	**Industry Code**	X	AN	1/30	Used

Description: Code indicating a code from a specific industry code list

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0412 - Only one of MEA04 or MEA12 may be present.
3. L050412 - If MEA05 is present, then at least one of MEA04 or MEA12 is required.
4. L060412 - If MEA06 is present, then at least one of MEA04 or MEA12 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

6. E0803 - Only one of MEA08 or MEA03 may be present.
7. P1112 - If either MEA11 or MEA12 is present, then the other is required.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
2. MEA11 is the external code list for the unit of measure.
3. MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1100	**Max: 2**
Detail - Optional	
Loop: IT1	**Elements: 15**

User Option (Usage): Used
Purpose: To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code**	O	ID	2/2	Used

Description: Code identifying type of payment terms
All valid standard codes are used.

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

Description: Code identifying the beginning of the terms period
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD03	338	**Terms Discount Percent**	O	R	1/6	Used

Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD04	370	**Terms Discount Due Date**	X	DT	8/8	Used

Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

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

Description: Number of days in the terms discount period by which payment is due if terms discount is earned

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD06	446	**Terms Net Due Date**	O	DT	8/8	Used

Description: Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD07	386	**Terms Net Days**	O	N0	1/3	Used

Description: Number of days until total invoice amount is due (discount not applicable)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD08	362	**Terms Discount Amount**	O	N2	1/10	Used

Description: Total amount of terms discount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD09	388	**Terms Deferred Due Date**	O	DT	8/8	Used

Description: Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD10	389	**Deferred Amount Due**	X	N2	1/10	Used

Description: Deferred amount due for payment

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD11	342	**Percent of Invoice Payable**	X	R	1/5	Used

Description: Amount of invoice payable expressed in percent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD12	352	**Description**	O	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD13	765	**Day of Month**	X	N0	1/2	Used

Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD14	107	**Payment Method Type Code**	O	ID	1/2	Used

Description: Code identifying type of payment procedures
All valid standard codes are used.

ITD15	954	**Percentage as Decimal**	O	R	1/10	Used

Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

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.

REF   Reference Information

<table>
<tr><td>Pos: 1200</td><td>Max: >1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04	C040	**Reference Identifier**	O	Comp		Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-02	127	**Reference Identification**	M	AN	1/80	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-03	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-04	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-05	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-06	127	**Reference Identification**	X	AN	1/80	Used

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

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

Pos: 1300	**Max: 5**
Detail - Optional	
Loop: IT1	**Elements: 9**

User Option (Usage): Used
Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Must use

Description: Code identifying the major duty or responsibility of the person or group named
All valid standard codes are used.

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

Description: Free-form name

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

Description: Code identifying the type of communication number
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	X	AN	1/256	Used

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

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

Description: Code identifying the type of communication number
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER06	364	**Communication Number**	X	AN	1/256	Used

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

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

Description: Code identifying the type of communication number
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER08	364	**Communication Number**	X	AN	1/256	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER09	443	**Contact Inquiry Reference**	O	AN	1/20	Used

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

Syntax Rules:

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

SDQ   Destination Quantity

Pos: 1400	**Max: 500**
Detail - Optional	
Loop: IT1	**Elements: 23**

User Option (Usage): Used
Purpose: To specify destination and quantity detail

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SDQ01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use

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.

SDQ02	66	**Identification Code Qualifier**	O	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)
All valid standard codes are used.

SDQ03	67	**Identification Code**	M	AN	2/80	Must use

Description: Code identifying a party or other code

SDQ04	380	**Quantity**	M	R	1/15	Must use

Description: Numeric value of quantity

SDQ05	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ06	380	**Quantity**	X	R	1/15	Used

Description: Numeric value of quantity

SDQ07	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ08	380	**Quantity**	X	R	1/15	Used

Description: Numeric value of quantity

SDQ09	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ10	380	**Quantity**	X	R	1/15	Used

Description: Numeric value of quantity

SDQ11	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ12	380	**Quantity**	X	R	1/15	Used

Description: Numeric value of quantity

SDQ13	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ14	380	**Quantity**	X	R	1/15	Used

Description: Numeric value of quantity

SDQ15	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

SDQ16	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ17	67	**Identification Code**	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ18	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ19	67	**Identification Code**	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ20	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ21	67	**Identification Code**	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ22	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ23	310	**Location Identifier**	O	AN	1/30	Used
		Description: Code which identifies a specific location				

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.

DTM **Date/Time Reference**

<table>
<tr><td>Pos: 1500</td><td>Max: 10</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 6</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

| DTM02 | 373 | **Date** | X | DT | 8/8 | Used |

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| DTM03 | 337 | **Time** | X | TM | 4/8 | Used |

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

| DTM04 | 623 | **Time Code** | O | ID | 2/2 | Used |

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

| DTM05 | 1250 | **Date Time Period Format Qualifier** | X | ID | 2/3 | Used |

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

| DTM06 | 1251 | **Date Time Period** | X | AN | 1/35 | Used |

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

Syntax Rules:

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

CAD   **Carrier Details**

<table>
<tr><td>**Pos: 1600**</td><td>**Max: >1**</td></tr>
<tr><td colspan="2">**Detail - Optional**</td></tr>
<tr><td>**Loop: IT1**</td><td>**Elements: 9**</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transportation Method/Type Code**	M	ID	1/2	Must use

Description: Code specifying the method or type of transportation for the shipment
All valid standard codes are used.

| CAD02 | 206 | **Equipment Initial** | O | AN | 1/4 | Used |

Description: Prefix or alphabetic part of an equipment unit's identifying number

| CAD03 | 207 | **Equipment Number** | O | AN | 1/15 | Used |

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

| CAD04 | 140 | **Standard Carrier Alpha Code** | X | ID | 2/4 | Used |

Description: Standard Carrier Alpha Code

| CAD05 | 387 | **Routing** | X | AN | 1/35 | Used |

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

| CAD06 | 368 | **Shipment/Order Status Code** | O | ID | 2/2 | Used |

Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction
All valid standard codes are used.

| CAD07 | 128 | **Reference Identification Qualifier** | O | ID | 2/3 | Used |

Description: Code qualifying the Reference Identification
All valid standard codes are used.

| CAD08 | 127 | **Reference Identification** | X | AN | 1/80 | Used |

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

| CAD09 | 284 | **Service Level Code** | O | ID | 2/2 | Used |

Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier
All valid standard codes are used.

Syntax Rules:

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

Loop Service, Promotion, Allowance, or Charge Information

Pos: 1800	**Repeat: >1**
Optional	
Loop: SAC	**Elements: N/A**

User Option (Usage): Used

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
1900		Loop TXI	O		>1	Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800   Max: 1
Detail - Optional
Loop: SAC   Elements: 16

User Option (Usage): Used
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified **All valid standard codes are used.**				
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge **All valid standard codes are used.**				
SAC03	559	**Agency Qualifier Code**	X	ID	2/2	Used
		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	Used
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	**Amount**	O	N2	1/15	Used
		Description: Monetary amount				
SAC06	378	**Allowance/Charge Percent Qualifier**	X	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is calculated **All valid standard codes are used.**				
SAC07	332	**Percent, Decimal Format**	X	R	1/6	Used
		Description: Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%)				
SAC08	118	**Rate**	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SAC10	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SAC11	380	**Quantity**	O	R	1/15	Used
		Description: Numeric value of quantity				
SAC12	331	**Allowance or Charge Method of**	O	ID	2/2	Used

Handling Code

Description: Code indicating method of handling for an allowance or charge
All valid standard codes are used.

SAC13	127	**Reference Identification**	X	AN	1/80	Used

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	Used

Description: A unique number identifying available promotion or allowance options when more than one is offered

SAC15	352	**Description**	X	AN	1/80	Used

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

SAC16	819	**Language Code**	O	ID	2/3	Used

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

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. C1413 - If SAC14 is present, then SAC13 is required.
7. 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 with SAC03 to further define 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.

Loop Tax Information

Pos: 1900	**Repeat: >1**
Optional	
Loop: TXI	**Elements: N/A**

User Option (Usage): Used
Purpose: To specify tax information

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
1900	TXI	Tax Information	O	1		Used
1950	DTM	Date/Time Reference	O	1		Used

TXI   Tax Information

<table>
<tr><td>Pos: 1900</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: TXI</td><td>Elements: 10</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax
All valid standard codes are used.

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

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percentage as Decimal**	X	R	1/10	Used

Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Used

Description: Code identifying the source of the data used in tax jurisdiction code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Used

Description: Code identifying the taxing jurisdiction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI07	662	**Relationship Code**	O	ID	1/1	Used

Description: Code indicating the relationship between entities
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI08	828	**Dollar Basis For Percent**	O	R	1/9	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI09	325	**Tax Identification Number**	O	AN	1/20	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI10	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Syntax Rules:

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

Semantics:

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

DTM   **Date/Time Reference**

Pos: 1950	**Max: 1**
Detail - Optional	
Loop: TXI	**Elements: 6**

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

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

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM03	337	**Time**	X	TM	4/8	Used

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM04	623	**Time Code**	O	ID	2/2	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM05	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM06	1251	**Date Time Period**	X	AN	1/35	Used

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

Syntax Rules:

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

Loop Subline Item Detail

Pos: 2000	Repeat: 1000
Optional	
Loop: SLN	Elements: N/A

User Option (Usage): Used
Purpose: To specify product subline detail item data

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
2000	SLN	Subline Item Detail	O	1		Used
2050	DTM	Date/Time Reference	O	1		Used
2100	REF	Reference Information	O	>1		Used
2200	PID	Product/Item Description	O	1000		Used
2300	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		Used
2350	TC2	Commodity	O	2		Used
2370	TXI	Tax Information	O	>1		Used

SLN   Subline Item Detail

User Option (Usage): Used
Purpose: To specify product subline detail item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	350	**Assigned Identification**	M	AN	1/20	Must use
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SLN02	350	**Assigned Identification**	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SLN03	662	**Relationship Code**	M	ID	1/1	Must use
		Description: Code indicating the relationship between entities **All valid standard codes are used.**				
SLN04	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SLN05	C001	**Composite Unit of Measure**	X	Comp		Used
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
SLN05-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		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.**				
SLN05-02	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
SLN05-03	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
SLN05-04	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SLN05-05	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
SLN05-06	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
SLN05-07	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SLN05-08	1018	**Exponent**	O	R	1/15	Used
		Description: Power to which a unit is raised				
SLN05-09	649	**Multiplier**	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				

SLN05-10	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

SLN05-11	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised

SLN05-12	649	**Multiplier**	O	R	1/10	Used

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

SLN05-13	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

SLN05-14	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised

SLN05-15	649	**Multiplier**	O	R	1/10	Used

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

SLN06	212	**Unit Price**	X	R	1/17	Used

Description: Price per unit of product, service, commodity, etc.

SLN07	639	**Basis of Unit Price Code**	O	ID	2/2	Used

Description: Code identifying the type of unit price for an item
All valid standard codes are used.

SLN08	662	**Relationship Code**	O	ID	1/1	Used

Description: Code indicating the relationship between entities
All valid standard codes are used.

SLN09	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN10	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN11	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN12	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN13	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN14	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN15	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN16	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN17	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN18	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN19	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN20	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN21	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN22	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN23	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN24	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN25	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN26	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

SLN27	235	**Product/Service ID Qualifier**	X	ID	2/2	Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
All valid standard codes are used.

SLN28	234	**Product/Service ID**	X	AN	1/48	Used

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either SLN04 or SLN05 is present, then the other is required.
2. C0706 - If SLN07 is present, then SLN06 is required.
3. C0806 - If SLN08 is present, then SLN06 is required.

4. P0910 - If either SLN09 or SLN10 is present, then the other is required.
5. P1112 - If either SLN11 or SLN12 is present, then the other is required.
6. P1314 - If either SLN13 or SLN14 is present, then the other is required.
7. P1516 - If either SLN15 or SLN16 is present, then the other is required.
8. P1718 - If either SLN17 or SLN18 is present, then the other is required.
9. P1920 - If either SLN19 or SLN20 is present, then the other is required.
10. P2122 - If either SLN21 or SLN22 is present, then the other is required.
11. P2324 - If either SLN23 or SLN24 is present, then the other is required.
12. P2526 - If either SLN25 or SLN26 is present, then the other is required.
13. P2728 - If either SLN27 or SLN28 is present, then the other is required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., ISBN No., Model No., or SKU.

DTM **Date/Time Reference**

Pos: 2050   Max: 1
Detail - Optional
Loop: SLN   Elements: 6

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

| DTM02 | 373 | **Date** | X | DT | 8/8 | Used |

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| DTM03 | 337 | **Time** | X | TM | 4/8 | Used |

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

| DTM04 | 623 | **Time Code** | O | ID | 2/2 | Used |

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

| DTM05 | 1250 | **Date Time Period Format Qualifier** | X | ID | 2/3 | Used |

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

| DTM06 | 1251 | **Date Time Period** | X | AN | 1/35 | Used |

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

Syntax Rules:

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

REF   Reference Information

Pos: 2100	**Max: >1**
Detail - Optional	
Loop: SLN	**Elements: 4**

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04	C040	**Reference Identifier**	O	Comp		Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-02	127	**Reference Identification**	M	AN	1/80	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-03	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-04	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-05	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-06	127	**Reference Identification**	X	AN	1/80	Used

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

Syntax Rules:

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

Semantics:

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

PID   Product/Item Description

Pos: 2200	**Max: 1000**
Detail - Optional	
Loop: SLN	**Elements: 9**

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Must use

Description: Code indicating the format of a description
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	Used

Description: Code identifying the general class of a product or process characteristic
All valid standard codes are used.

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

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID06	752	**Surface/Layer/Position Code**	O	ID	2/2	Used

Description: Code indicating the product surface, layer or position that is being described
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID07	822	**Source Subqualifier**	O	AN	1/15	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID08	1073	**Yes/No Condition or Response Code**	O	ID	1/1	Used

Description: Code indicating a Yes or No condition or response
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID09	819	**Language Code**	O	ID	2/3	Used

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

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.

SAC

Service, Promotion, Allowance, or Charge Information

Pos: 2300   **Max: >1**
Detail - Optional
Loop: SLN   **Elements: 16**

User Option (Usage): Used
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified **All valid standard codes are used.**				
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge **All valid standard codes are used.**				
SAC03	559	**Agency Qualifier Code**	X	ID	2/2	Used
		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	Used
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	**Amount**	O	N2	1/15	Used
		Description: Monetary amount				
SAC06	378	**Allowance/Charge Percent Qualifier**	X	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is calculated **All valid standard codes are used.**				
SAC07	332	**Percent, Decimal Format**	X	R	1/6	Used
		Description: Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%)				
SAC08	118	**Rate**	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SAC10	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SAC11	380	**Quantity**	O	R	1/15	Used
		Description: Numeric value of quantity				
SAC12	331	**Allowance or Charge Method of**	O	ID	2/2	Used

Handling Code

Description: Code indicating method of handling for an allowance or charge
All valid standard codes are used.

SAC13	127	**Reference Identification**	X	AN	1/80	Used

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	Used

Description: A unique number identifying available promotion or allowance options when more than one is offered

SAC15	352	**Description**	X	AN	1/80	Used

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

SAC16	819	**Language Code**	O	ID	2/3	Used

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

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. C1413 - If SAC14 is present, then SAC13 is required.
7. 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 with SAC03 to further define 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.

TC2   Commodity

<table>
<tr><td>Pos: 2350</td><td>Max: 2</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: SLN</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To identify a commodity or a group of commodities or a tariff page commodity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TC201	23	**Commodity Code Qualifier**	M	ID	1/1	Must use

Description: Code identifying the commodity coding system used for Commodity Code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TC202	22	**Commodity Code**	M	AN	1/30	Must use

Description: Code describing a commodity or group of commodities

TXI   Tax Information

Pos: 2370	**Max: >1**
Detail - Optional	
Loop: SLN	**Elements: 10**

User Option (Usage): Used
Purpose: To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax
All valid standard codes are used.

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

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percentage as Decimal**	X	R	1/10	Used

Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Used

Description: Code identifying the source of the data used in tax jurisdiction code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Used

Description: Code identifying the taxing jurisdiction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI07	662	**Relationship Code**	O	ID	1/1	Used

Description: Code indicating the relationship between entities
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI08	828	**Dollar Basis For Percent**	O	R	1/9	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI09	325	**Tax Identification Number**	O	AN	1/20	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI10	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Syntax Rules:

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

Semantics:

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

Loop Party Identification

Pos: 2400   Repeat: 200
Optional
Loop: N1   Elements: N/A

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
2400	N1	Party Identification	O	1		Used
2500	N2	Additional Name Information	O	2		Used
2600	N3	Party Location	O	2		Used
2700	N4	Geographic Location	O	1		Used
2800	REF	Reference Information	O	12		Used
2900	PER	Administrative Communications Contact	O	3		Used
2950	DMG	Demographic Information	O	1		Used

N1   **Party Identification**

<table>
<tr><td>Pos: 2400   Max: 1
Detail - Optional
Loop: N1   Elements: 6</td></tr>
</table>

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N105	706	**Entity Relationship Code**	O	ID	2/2	Used

Description: Code describing entity relationship
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N106	98	**Entity Identifier Code**	O	ID	2/3	Used

Description: Code identifying an organizational entity, a physical location, property or an individual
All valid standard codes are used.

Syntax Rules:

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

Comments:

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

N2   Additional Name Information

Pos: 2500	**Max: 2**
Detail - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used
Purpose: To specify additional names

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	**Name**	O	AN	1/60	Used
		Description: Free-form name				

N3   Party Location

Pos: 2600	**Max: 2**
Detail - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used
Purpose: To specify the location of the named party

Element Summary:

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

N4   Geographic Location

Pos: 2700		**Max: 1**
	Detail - Optional	
Loop: N1		**Elements: 7**

User Option (Usage): Used
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	X	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	X	ID	2/3	Used
		Description: Code identifying the country				
N405	309	**Location Qualifier**	X	ID	1/2	Used
		Description: Code identifying type of location **All valid standard codes are used.**				
N406	310	**Location Identifier**	O	AN	1/30	Used
		Description: Code which identifies a specific location				
N407	1715	**Country Subdivision Code**	X	ID	1/3	Used
		Description: Code identifying the country subdivision				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

REF Reference Information

		Pos: 2800	Max: 12
		Detail - Optional	
		Loop: N1	Elements: 4

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04	C040	**Reference Identifier**	O	Comp		Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-02	127	**Reference Identification**	M	AN	1/80	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-03	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-04	127	**Reference Identification**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-05	128	**Reference Identification Qualifier**	X	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF04-06	127	**Reference Identification**	X	AN	1/80	Used

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

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

Pos: 2900   Max: 3
Detail - Optional
Loop: N1   Elements: 9

User Option (Usage): Used
Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Must use

Description: Code identifying the major duty or responsibility of the person or group named
All valid standard codes are used.

PER02	93	**Name**	O	AN	1/60	Used

Description: Free-form name

PER03	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number
All valid standard codes are used.

PER04	364	**Communication Number**	X	AN	1/256	Used

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

PER05	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number
All valid standard codes are used.

PER06	364	**Communication Number**	X	AN	1/256	Used

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

PER07	365	**Communication Number Qualifier**	X	ID	2/2	Used

Description: Code identifying the type of communication number
All valid standard codes are used.

PER08	364	**Communication Number**	X	AN	1/256	Used

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

PER09	443	**Contact Inquiry Reference**	O	AN	1/20	Used

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

Syntax Rules:

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

DMG Demographic Information

Pos: 2950	**Max: 1**
Detail - Optional	
Loop: N1	**Elements: 11**

User Option (Usage): Used
Purpose: To supply demographic information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG01	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG02	1251	**Date Time Period**	X	AN	1/35	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG03	1068	**Gender Code**	O	ID	1/1	Used

Description: Code indicating the sex of the individual
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG04	1067	**Marital Status Code**	O	ID	1/1	Used

Description: Code defining the marital status of a person
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG05	C056	**Composite Race or Ethnicity Information**	X	Comp		Used

Description: To send general and detailed information on race or ethnicity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG05-01	1109	**Race or Ethnicity Code**	O	ID	1/1	Used

Description: Code indicating the racial or ethnic background of a person; it is normally self-reported; Under certain circumstances this information is collected for United States Government statistical purposes
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG05-02	1270	**Code List Qualifier Code**	X	ID	1/3	Used

Description: Code identifying a specific industry code list
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG05-03	1271	**Industry Code**	X	AN	1/30	Used

Description: Code indicating a code from a specific industry code list

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG06	1066	**Citizenship Status Code**	O	ID	1/2	Used

Description: Code indicating citizenship status
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG07	26	**Country Code**	O	ID	2/3	Used

Description: Code identifying the country

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG08	659	**Basis of Verification Code**	O	ID	1/2	Used

Description: Code indicating the basis of verification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG09	380	**Quantity**	O	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DMG10	1270	**Code List Qualifier Code**	X	ID	1/3	Used

Description: Code identifying a specific industry code list
All valid standard codes are used.

| DMG11 | 1271 | **Industry Code** | X | AN | 1/30 | Used |

Description: Code indicating a code from a specific industry code list

Syntax Rules:

1. P0102 - If either DMG01 or DMG02 is present, then the other is required.
2. P1011 - If either DMG10 or DMG11 is present, then the other is required.
3. C1105 - If DMG11 is present, then DMG05 is required.

Semantics:

1. DMG02 is the date of birth.
2. DMG07 is the country of citizenship.
3. DMG09 is the age in years.
4. DMG11 is used to specify how the information in DMG05, including repeats of C056, was collected.

Loop Code Source Information

Pos: 3000	Repeat: 10
Optional	
Loop: LM	**Elements: N/A**

User Option (Usage): Used
Purpose: To transmit standard code list identification information

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
3000	LM	Code Source Information	O	1		Used
3100	LQ	Industry Code Identification	M	100		Must use

LM Code Source Information

User Option (Usage): Used
Purpose: To transmit standard code list identification information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LM01	559	**Agency Qualifier Code**	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LM02	822	**Source Subqualifier**	O	AN	1/15	Used

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

Comments:

1. LM02 identifies the applicable industry code list source information.

LQ   Industry Code Identification

Pos: 3100	**Max: 100**
Detail - Mandatory	
Loop: LM	**Elements: 2**

User Option (Usage): Must use
Purpose: To identify standard industry codes

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LQ01	1270	**Code List Qualifier Code**	O	ID	1/3	Used

Description: Code identifying a specific industry code list
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LQ02	1271	**Industry Code**	X	AN	1/30	Used

Description: Code indicating a code from a specific industry code list

Syntax Rules:

1. C0102 - If LQ01 is present, then LQ02 is required.

Loop Vessel Identification

Pos: 3200	Repeat: >1
Optional	
Loop: V1	Elements: N/A

User Option (Usage): Used
Purpose: To provide vessel details and voyage number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
3200	V1	Vessel Identification	O	1		Used
3300	R4	Port or Terminal	O	>1		Used
3400	DTM	Date/Time Reference	O	>1		Used

V1   **Vessel Identification**

<table>
<tr><td>Pos: 3200</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: V1</td><td>Elements: 9</td></tr>
</table>

User Option (Usage): Used
Purpose: To provide vessel details and voyage number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V101	597	**Vessel Code**	X	ID	1/8	Used
		Description: Code identifying vessel				
V102	182	**Vessel Name**	X	AN	2/28	Used
		Description: Name of ship as documented in "Lloyd's Register of Ships"				
V103	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				
V104	55	**Flight/Voyage Number**	O	AN	2/10	Used
		Description: Identifying designator for the particular flight or voyage on which the cargo travels				
V105	140	**Standard Carrier Alpha Code**	O	ID	2/4	Used
		Description: Standard Carrier Alpha Code				
V106	249	**Vessel Requirement Code**	O	ID	1/1	Used
		Description: Code specifying options for satisfying vessel requirements **All valid standard codes are used.**				
V107	854	**Vessel Type Code**	O	ID	2/2	Used
		Description: Code to determine type of vessel **All valid standard codes are used.**				
V108	897	**Vessel Code Qualifier**	O	ID	1/1	Used
		Description: Code specifying vessel code source **All valid standard codes are used.**				
V109	91	**Transportation Method/Type Code**	O	ID	1/2	Used
		Description: Code specifying the method or type of transportation for the shipment **All valid standard codes are used.**				

Syntax Rules:

1. R0102 - At least one of V101 or V102 is required.
2. C0801 - If V108 is present, then V101 is required.

Semantics:

1. V103 is the code identifying the country in which the ship (vessel) is registered.
2. V105 identifies the ocean carrier.

R4   **Port or Terminal**

<div style="border:1px solid">

Pos: 3300   **Max: >1**
Detail - Optional
Loop: V1   **Elements: 8**

</div>

User Option (Usage): Used
Purpose: Contractual or operational port or point relevant to the movement of the cargo

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R401	115	**Port or Terminal Function Code**	M	ID	1/1	Must use

Description: Code defining function performed at the port or terminal with respect to a shipment
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R402	309	**Location Qualifier**	X	ID	1/2	Used

Description: Code identifying type of location
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R403	310	**Location Identifier**	X	AN	1/30	Used

Description: Code which identifies a specific location

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R404	114	**Port Name**	O	AN	2/24	Used

Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R405	26	**Country Code**	O	ID	2/3	Used

Description: Code identifying the country

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R406	174	**Terminal Name**	O	AN	2/30	Used

Description: Free-form field for terminal name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R407	113	**Pier Number**	O	AN	1/4	Used

Description: Identifying number for the pier

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R408	156	**State or Province Code**	O	ID	2/2	Used

Description: Code (Standard State/Province) as defined by appropriate government agency

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. R4 is required for each port to be identified.

DTM   Date/Time Reference

<div style="border:1px solid">

Pos: 3400   Max: >1
Detail - Optional
Loop: V1   Elements: 6

</div>

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

DTM02	373	**Date**	X	DT	8/8	Used

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM03	337	**Time**	X	TM	4/8	Used

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

DTM04	623	**Time Code**	O	ID	2/2	Used

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

DTM05	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

DTM06	1251	**Date Time Period**	X	AN	1/35	Used

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

Syntax Rules:

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

Loop Type of Financial Accounting Data

Pos: 3500	**Repeat: >1**
	Optional
Loop: FA1	**Elements: N/A**

User Option (Usage): Used
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
3500	FA1	Type of Financial Accounting Data	O	1		Used
3600	FA2	Accounting Data	M	>1		Must use

FA1   Type of Financial Accounting Data

Pos: 3500   Max: 1
Detail - Optional
Loop: FA1   Elements: 3

User Option (Usage): Used
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FA101	559	**Agency Qualifier Code**	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FA102	1300	**Service, Promotion, Allowance, or Charge Code**	O	ID	4/4	Used

Description: Code identifying the service, promotion, allowance, or charge
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FA103	248	**Allowance or Charge Indicator**	O	ID	1/1	Used

Description: Code which indicates an allowance or charge for the service specified
All valid standard codes are used.

Semantics:

1. FA101 Identifies the organization controlling the assignment of financial accounting information.
2. FA102 Identifies the purpose of the accounting allowance or charge information.

FA2   Accounting Data

Pos: 3600	Max: >1
Detail - Mandatory	
Loop: FA1	**Elements: 2**

User Option (Usage): Must use
Purpose: To specify the detailed accounting data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FA201	1196	**Breakdown Structure Detail Code**	M	ID	2/2	Must use

Description: Codes identifying details relating to a reporting breakdown structure tree
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FA202	1195	**Financial Information Code**	M	AN	1/80	Must use

Description: Code representing financial accounting information

TDS   Total Monetary Value Summary

Pos: 0100	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 4**

User Option (Usage): Must use
Purpose: To specify the total invoice discounts and amounts

Element Summary:

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

Semantics:

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

Comments:

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

TXI   Tax Information

	Pos: 0200 Max: >1
	Summary - Optional
	Loop: N/A Elements: 10

User Option (Usage): Used
Purpose: To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax
All valid standard codes are used.

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

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percentage as Decimal**	X	R	1/10	Used

Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Used

Description: Code identifying the source of the data used in tax jurisdiction code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Used

Description: Code identifying the taxing jurisdiction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI07	662	**Relationship Code**	O	ID	1/1	Used

Description: Code indicating the relationship between entities
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI08	828	**Dollar Basis For Percent**	O	R	1/9	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI09	325	**Tax Identification Number**	O	AN	1/20	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI10	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Syntax Rules:

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

Semantics:

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

CAD   **Carrier Details**

Pos: 0300	Max: 1
Summary - Optional	
Loop: N/A	**Elements: 9**

User Option (Usage): Used
Purpose: To specify transportation details for the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transportation Method/Type Code**	M	ID	1/2	Must use

Description: Code specifying the method or type of transportation for the shipment
All valid standard codes are used.

CAD02	206	**Equipment Initial**	O	AN	1/4	Used

Description: Prefix or alphabetic part of an equipment unit's identifying number

CAD03	207	**Equipment Number**	O	AN	1/15	Used

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

CAD04	140	**Standard Carrier Alpha Code**	X	ID	2/4	Used

Description: Standard Carrier Alpha Code

CAD05	387	**Routing**	X	AN	1/35	Used

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

CAD06	368	**Shipment/Order Status Code**	O	ID	2/2	Used

Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction
All valid standard codes are used.

CAD07	128	**Reference Identification Qualifier**	O	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

CAD08	127	**Reference Identification**	X	AN	1/80	Used

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

CAD09	284	**Service Level Code**	O	ID	2/2	Used

Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier
All valid standard codes are used.

Syntax Rules:

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

AMT Monetary Amount Information

Pos: 0350	Max: >1
Summary - Optional	
Loop: N/A	**Elements: 3**

User Option (Usage): Used
Purpose: To indicate the total monetary amount

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AMT01	522	**Amount Qualifier Code**	M	ID	1/3	Must use
		Description: Code to qualify amount **All valid standard codes are used.**				
AMT02	782	**Monetary Amount**	M	R	1/18	Must use
		Description: Monetary amount				
AMT03	478	**Credit/Debit Flag Code**	O	ID	1/1	Used
		Description: Code indicating whether amount is a credit or debit **All valid standard codes are used.**				

Loop Service, Promotion, Allowance, or Charge Information

<table>
<tr><td>Pos: 0400</td><td>Repeat: >1</td></tr>
<tr><td colspan="2">Optional</td></tr>
<tr><td>Loop: SAC</td><td>Elements: N/A</td></tr>
</table>

User Option (Usage): Used
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
0450	DTM	Date/Time Reference	O	>1		Used
0500		Loop TXI	O		>1	Used

SAC

Service, Promotion, Allowance, or Charge Information

User Option (Usage): Used
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified **All valid standard codes are used.**				
SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge **All valid standard codes are used.**				
SAC03	559	**Agency Qualifier Code**	X	ID	2/2	Used
		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	Used
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	**Amount**	O	N2	1/15	Used
		Description: Monetary amount				
SAC06	378	**Allowance/Charge Percent Qualifier**	X	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is calculated **All valid standard codes are used.**				
SAC07	332	**Percent, Decimal Format**	X	R	1/6	Used
		Description: Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%)				
SAC08	118	**Rate**	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**				
SAC10	380	**Quantity**	X	R	1/15	Used
		Description: Numeric value of quantity				
SAC11	380	**Quantity**	O	R	1/15	Used
		Description: Numeric value of quantity				
SAC12	331	**Allowance or Charge Method of**	O	ID	2/2	Used

Handling Code

Description: Code indicating method of handling for an allowance or charge
All valid standard codes are used.

SAC13	127	**Reference Identification**	X	AN	1/80	Used

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	Used

Description: A unique number identifying available promotion or allowance options when more than one is offered

SAC15	352	**Description**	X	AN	1/80	Used

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

SAC16	819	**Language Code**	O	ID	2/3	Used

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

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. C1413 - If SAC14 is present, then SAC13 is required.
7. 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 with SAC03 to further define 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.

DTM   **Date/Time Reference**

<table>
<tr><td>Pos: 0450</td><td>Max: >1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: SAC</td><td>Elements: 6</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

DTM02	373	**Date**	X	DT	8/8	Used

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM03	337	**Time**	X	TM	4/8	Used

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

DTM04	623	**Time Code**	O	ID	2/2	Used

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

DTM05	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

DTM06	1251	**Date Time Period**	X	AN	1/35	Used

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

Syntax Rules:

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

Loop Tax Information

Pos: 0500	**Repeat: >1**
Optional	
Loop: TXI	**Elements: N/A**

User Option (Usage): Used
Purpose: To specify tax information

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0500	TXI	Tax Information	O	1		Used
0550	DTM	Date/Time Reference	O	1		Used

TXI   Tax Information

<table>
<tr><td>Pos: 0500</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Optional</td></tr>
<tr><td>Loop: TXI</td><td>Elements: 10</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify tax information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	**Tax Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of tax
All valid standard codes are used.

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

Description: Monetary amount

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI03	954	**Percentage as Decimal**	X	R	1/10	Used

Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI04	955	**Tax Jurisdiction Code Qualifier**	X	ID	2/2	Used

Description: Code identifying the source of the data used in tax jurisdiction code
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI05	956	**Tax Jurisdiction Code**	X	AN	1/10	Used

Description: Code identifying the taxing jurisdiction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI06	441	**Tax Exempt Code**	X	ID	1/1	Used

Description: Code identifying exemption status from sales and use tax
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI07	662	**Relationship Code**	O	ID	1/1	Used

Description: Code indicating the relationship between entities
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI08	828	**Dollar Basis For Percent**	O	R	1/9	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI09	325	**Tax Identification Number**	O	AN	1/20	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI10	350	**Assigned Identification**	O	AN	1/20	Used

Description: Alphanumeric characters assigned for differentiation within a transaction set

Syntax Rules:

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

Semantics:

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

DTM   **Date/Time Reference**

Pos: 0550	**Max: 1**
Summary - Optional	
Loop: TXI	**Elements: 6**

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
All valid standard codes are used.

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

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM03	337	**Time**	X	TM	4/8	Used

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM04	623	**Time Code**	O	ID	2/2	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM05	1250	**Date Time Period Format Qualifier**	X	ID	2/3	Used

Description: Code indicating the date format, time format, or date and time format
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM06	1251	**Date Time Period**	X	AN	1/35	Used

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

Syntax Rules:

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

Loop Invoice Shipment Summary

Pos: 0600	**Repeat: >1**
Optional	
Loop: ISS	**Elements: N/A**

User Option (Usage): Used
Purpose: To specify summary details of total items shipped in terms of quantity, weight, and volume

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
0600	ISS	Invoice Shipment Summary	O	1		Used
0650	PID	Product/Item Description	O	1		Used

ISS   Invoice Shipment Summary

Pos: 0600	**Max: 1**
Summary - Optional	
Loop: ISS	**Elements: 8**

User Option (Usage): Used
Purpose: 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**	X	R	1/10	Used

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS02	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS03	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS04	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS05	183	**Volume**	X	R	1/8	Used

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS06	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS07	380	**Quantity**	O	R	1/15	Used

Description: Numeric value of quantity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISS08	81	**Weight**	O	R	1/10	Used

Description: Numeric value of weight

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.

PID Product/Item Description

Pos: 0650		**Max: 1**
	Summary - Optional	
Loop: ISS		**Elements: 9**

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type**	M	ID	1/1	Must use

Description: Code indicating the format of a description
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID02	750	**Product/Process Characteristic Code**	O	ID	2/3	Used

Description: Code identifying the general class of a product or process characteristic
All valid standard codes are used.

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

Description: Code identifying the agency assigning the code values
All valid standard codes are used.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	X	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID06	752	**Surface/Layer/Position Code**	O	ID	2/2	Used

Description: Code indicating the product surface, layer or position that is being described
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID07	822	**Source Subqualifier**	O	AN	1/15	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID08	1073	**Yes/No Condition or Response Code**	O	ID	1/1	Used

Description: Code indicating a Yes or No condition or response
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID09	819	**Language Code**	O	ID	2/3	Used

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

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.

CTT Transaction Totals

Pos: 0700	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

CTT02	347	**Hash Total**	O	R	1/10	Used

Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example:-.0018 First occurrence of value being hashed...18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.18E2   Fifth occurrence of value beinghashed.--------1873 Hash Total

CTT03	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

CTT04	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

CTT05	183	**Volume**	X	R	1/8	Used

Description: Value of volumetric measure

CTT06	355	**Unit or Basis for Measurement Code**	X	ID	2/2	Used

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used.

CTT07	352	**Description**	O	AN	1/80	Used

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

Syntax Rules:

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

Comments:

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

SE   Transaction Set Trailer

| Pos: 0800   Max: 1 |
| Summary - Mandatory |
| Loop: N/A   Elements: 2 |

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use

Description: Total number of segments included in a transaction set including ST and SE segments

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

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