

# **810 Invoice - mpXML**

**UCS / mpXML Guideline**

**Version: 005050UCS**

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# Table of Contents

<b>810</b>	<b>Invoice - mpXML</b>	<b>1</b>
ST	Transaction Set Header	5
BIG	Beginning Segment for Invoice	6
CUR	Currency	7
REF	Reference Information	9
PER	Administrative Communications Contact	10
N1	Loop Party Identification	12
N1	Party Identification	13
N2	Additional Name Information	15
N3	Party Location	16
N4	Geographic Location	17
ITD	Terms of Sale/Deferred Terms of Sale	18
DTM	Date/Time Reference	20
IT1	Loop Baseline Item Data (Invoice)	21
IT1	Baseline Item Data (Invoice)	22
TXI	Tax Information	29
PID	Loop Product/Item Description	31
PID	Product/Item Description	32
PO4	Item Physical Details	35
SAC	Loop Service, Promotion, Allowance, or Charge Information	37
SAC	Service, Promotion, Allowance, or Charge Information	38
TDS	Total Monetary Value Summary	41
TXI	Tax Information	42
CAD	Carrier Details	44
SAC	Loop Service, Promotion, Allowance, or Charge Information	46
SAC	Service, Promotion, Allowance, or Charge Information	47
ISS	Loop Invoice Shipment Summary	50
ISS	Invoice Shipment Summary	51
CTT	Transaction Totals	53
SE	Transaction Set Trailer	54

# 810

## Invoice - mpXML

### 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.

**Note 1:**

*The 810 Invoice - mpXML transaction set guideline. This guideline has been developed and endorsed by the mpXML organization.*

**Note 2:**

*This guideline may be implemented in earlier UCS / X12 versions, as required by trading partners. However, only segments and codes listed in this guideline may be used.*

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
0100	ST	Transaction Set Header	M	1			Must use	5
0200	BIG	Beginning Segment for Invoice	M	1			Must use	6
* 0300	NTE	Note/Special Instruction	O	100				N/A
0400	CUR	Currency	O	1			Used	7
0500	REF	Reference Information	O	12			Used	9
* 0550	YNQ	Yes/No Question	O	10				N/A
0600	PER	Administrative Communications Contact	O	3			Used	10
<b>LOOP ID - N1</b>						<b>200</b>		
0700	N1	Party Identification	O	1			Must use	12
0800	N2	Additional Name Information	O	2			Used	13
0900	N3	Party Location	O	2			Used	15
1000	N4	Geographic Location	O	1			Used	16
* 1100	REF	Reference Information	O	12				17
* 1200	PER	Administrative Communications Contact	O	3				N/A
* 1250	DMG	Demographic Information	O	1				N/A
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used	18
1400	DTM	Date/Time Reference	O	10			Used	20
* 1500	FOB	F.O.B. Related Instructions	O	1				N/A
* 1600	PID	Product/Item Description	O	200				N/A
* 1700	MEA	Measurements	O	40				N/A
* 1800	PWK	Paperwork	O	25				N/A
* 1900	PKG	Marking, Packaging, Loading	O	25				N/A
* 2000	L7	Tariff Reference	O	1				N/A
* 2120	BAL	Balance Detail	O	>1				N/A
* 2130	INC	Installment Information	O	1				N/A
* 2140	PAM	Period Amount	O	>1				N/A
* 2145	CRC	Conditions Indicator	O	1				N/A
<b>* LOOP ID - LM</b>						<b>10</b>		N/A

* 2200	LM	Code Source Information	O	1		N/A
* 2300	LQ	Industry Code Identification	M	100		N/A
<b>* LOOP ID - N9</b>					<b>1</b>	N/A
* 2400	N9	Extended Reference Information	O	1		N/A
* 2500	MSG	Message Text	M	10		N/A
<b>* LOOP ID - V1</b>					<b>≥1</b>	N/A
* 2600	V1	Vessel Identification	O	1		N/A
* 2700	R4	Port or Terminal	O	>1		N/A
* 2800	DTM	Date/Time Reference	O	>1		N/A
<b>* LOOP ID - FA1</b>					<b>≥1</b>	N/A
* 2900	FA1	Type of Financial Accounting Data	O	1		N/A
* 3000	FA2	Accounting Data	M	>1		N/A

**Detail:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Page
<b>LOOP ID - IT1</b>					<b>200000</b>			21
0100	IT1	Baseline Item Data (Invoice)	O	1			Used	22
* 0120	CRC	Conditions Indicator	O	1				N/A
* 0150	QTY	Quantity Information	O	5		N2/0150		N/A
* 0200	CUR	Currency	O	1				N/A
* 0300	IT3	Additional Item Data	O	5				N/A
0400	TXI	Tax Information	O	>1			Used	29
* 0500	CTP	Pricing Information	O	25				N/A
* 0550	PAM	Period Amount	O	10				N/A
* 0590	MEA	Measurements	O	40				N/A
<b>LOOP ID - PID</b>					<b>1000</b>			31
0600	PID	Product/Item Description	O	1			Used	32
* 0700	MEA	Measurements	O	10				N/A
* 0800	PWK	Paperwork	O	25				N/A
* 0900	PKG	Marking, Packaging, Loading	O	25				N/A
1000	PO4	Item Physical Details	O	1			Used	35
* 1100	ITD	Terms of Sale/Deferred Terms of Sale	O	>1				N/A
* 1200	REF	Reference Information	O	>1				N/A
* 1250	YNQ	Yes/No Question	O	10				N/A
* 1300	PER	Administrative Communications Contact	O	5				N/A
* 1400	SDQ	Destination Quantity	O	500				N/A
* 1500	DTM	Date/Time Reference	O	10				N/A
* 1600	CAD	Carrier Details	O	>1				N/A
* 1700	L7	Tariff Reference	O	>1				N/A
* 1750	SR	Requested Service Schedule	O	1				N/A
<b>LOOP ID - SAC</b>					<b>≥1</b>			37
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used	38
<b>* LOOP ID - TXI</b>					<b>≥1</b>			N/A

1900	TXI	Tax Information	O	1		N/A
1950	DTM	Date/Time Reference	O	1		N/A
<b>* LOOP ID - SLN</b>						<b>1000</b>
2000	SLN	Subline Item Detail	O	1		N/A
* 2050	DTM	Date/Time Reference	O	1		N/A
* 2100	REF	Reference Information	O	>1		N/A
* 2200	PID	Product/Item Description	O	1000		N/A
* 2300	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		N/A
* 2350	TC2	Commodity	O	2		N/A
* 2370	TXI	Tax Information	O	>1		N/A
<b>* LOOP ID - N1</b>						<b>200</b>
* 2400	N1	Party Identification	O	1		N/A
* 2500	N2	Additional Name Information	O	2		N/A
* 2600	N3	Party Location	O	2		N/A
* 2700	N4	Geographic Location	O	1		N/A
* 2800	REF	Reference Information	O	12		N/A
* 2900	PER	Administrative Communications Contact	O	3		N/A
* 2950	DMG	Demographic Information	O	1		N/A
<b>* LOOP ID - LM</b>						<b>10</b>
* 3000	LM	Code Source Information	O	1		N/A
* 3100	LQ	Industry Code Identification	M	100		N/A
<b>* LOOP ID - V1</b>						<b>&gt;1</b>
* 3200	V1	Vessel Identification	O	1		N/A
* 3300	R4	Port or Terminal	O	>1		N/A
* 3400	DTM	Date/Time Reference	O	>1		N/A
<b>* LOOP ID - FA1</b>						<b>&gt;1</b>
* 3500	FA1	Type of Financial Accounting Data	O	1		N/A
* 3600	FA2	Accounting Data	M	>1		N/A

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
0100	TDS	Total Monetary Value Summary	M	1			Must use	41
0200	TXI	Tax Information	O	>1			Used	42
0300	CAD	Carrier Details	O	1			Used	44
* 0350	AMT	Monetary Amount Information	O	>1				N/A
<b>LOOP ID - SAC</b>						<b>&gt;1</b>		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used	47
* 0450	DTM	Date/Time Reference	O	>1				N/A
<b>* LOOP ID - TXI</b>						<b>&gt;1</b>		
0500	TXI	Tax Information	O	1				N/A
* 0550	DTM	Date/Time Reference	O	1				N/A
<b>LOOP ID - ISS</b>						<b>&gt;1</b>		50

0600	ISS	Invoice Shipment Summary	O	1		Used	51
* 0650	PID	Product/Item Description	O	1			N/A
0700	CTT	Transaction Totals	O	1	N3/0700	Used	53
0800	SE	Transaction Set Trailer	M	1		Must use	54

**Notes:**

- 2/0150 The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.
- 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

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Must use
<b>Description:</b> Code uniquely identifying a Transaction Set						
<b>CodeList Summary</b> (Total Codes: 319, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		810		Invoice		
ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

## Semantics:

1. The transaction set identifier (ST01) 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: 5

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	<b>Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
BIG02	76	<b>Invoice Number</b>	M	AN	1/22	Must use
		<b>Description:</b> Identifying number assigned by issuer				
BIG03	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
		<b>Note 1:</b> <i>Purchase order date.</i>				
BIG04	324	<b>Purchase Order Number</b>	O	AN	1/22	Used
		<b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser				
		<b>Note 1:</b> <i>Buyer's purchase order number.</i>				
BIG05	328	<b>Release Number</b>	O	AN	1/30	Used
		<b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction				

## 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

<b>Pos: 0400</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N/A</b>	<b>Elements: 7</b>

**User Option (Usage):** Used

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

## Note 1:

*Use the CUR segment only if pricing is not in United States currency.*

*If used, the information relayed in this header level CUR segment applies to the entire transaction.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
<b>CodeList Summary</b> (Total Codes: 1506, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		BY		Buying Party (Purchaser)		
CUR02	100	<b>Currency Code</b>	M	ID	3/3	Must use
<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified						
CUR03	280	<b>Exchange Rate</b>	O	R	4/10	Used
<b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another						
CUR04	98	<b>Entity Identifier Code</b>	O	ID	2/3	Used
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
<b>CodeList Summary</b> (Total Codes: 1506, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		SE		Selling Party		
CUR05	100	<b>Currency Code</b>	O	ID	3/3	Used
<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified						
CUR07	374	<b>Date/Time Qualifier</b>	X	ID	3/3	Used
<b>Description:</b> Code specifying type of date or time, or both date and time						
<b>CodeList Summary</b> (Total Codes: 1289, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		007		Effective		
CUR08	373	<b>Date</b>	O	DT	8/8	Used
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						

## 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

Pos: 0500	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

**User Option (Usage):** Used

**Purpose:** To specify identifying information

**Note 1:**

*REF02 is used with the codes specified in REF01. If additional clarification is required, REF03 may be used.*

**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

**CodeList Summary** (Total Codes: 1777, Included: 14)

Code	Name
AH	Agreement Number
AN	Associated Purchase Orders
BD	Bid Number
CO	Customer Order Number
CR	Customer Reference Number
CT	Contract Number
DP	Department Number
F8	Original Reference Number
GT	Goods and Service Tax Registration Number
IA	Internal Vendor Number
IL	Internal Order Number
NB	Letter of Credit Number
OP	Original Purchase Order
VR	Vendor ID Number

**Note 1:**

*Used for cross reference to other purchase orders to be associated with the purchase order.*

**Note 1:**

*A number assigned by the receiving company to uniquely identify a vendor, typically for direct store delivery*

REF02	127	Reference Identification	X	AN	1/80	Used
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	AN	1/80	Used
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**Description:** A free-form description to clarify the related data elements and their content

**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: 0600	Max: 3
Heading - Optional	
Loop: N/A	Elements: 8

**User Option (Usage):** Used

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

**Note 1:**

*This segment is used only when contacts have not been previously established or a unique situation exists.*

**Element Summary:**

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

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

**CodeList Summary** (Total Codes: 241, Included: 8)

<u>Code</u>	<u>Name</u>
AD	Accounting Department
AP	Accounts Payable Department
AR	Accounts Receivable Department
BD	Buyer Name or Department
IC	Information Contact
OD	Order Department
PF	Price Administration
SR	Sales Representative or Department

PER02	93	Name	O	AN	1/60	Used
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**Description:** Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
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**Description:** Code identifying the type of communication number

**CodeList Summary** (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER04	364	Communication Number	X	AN	1/256	Used
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**Description:** Complete communications number including country or area code when applicable

PER05	365	Communication Number Qualifier	X	ID	2/2	Used
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**Description:** Code identifying the type of communication number

**CodeList Summary** (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER06	364	Communication Number	X	AN	1/256	Used
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**Description:** Complete communications number including country or area code when applicable

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
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**Description:** Code identifying the type of communication number

**CodeList Summary** (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER08	364	<b>Communication Number</b>	X	AN	1/256	Used
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**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.

# 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

## Note 1:

*Use of the N1 loop is mandatory.*

## Note 2:

*The N3 and N4 segments would typically be used if the address being used for the N1 party is not what resides in the party master database.*

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0700	N1	Party Identification	O	1		Must use
0800	N2	Additional Name Information	O	2		Used
0900	N3	Party Location	O	2		Used
1000	N4	Geographic Location	O	1		Used

# N1 Party Identification

<b>Pos: 0700</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

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

**Note 1:**  
*Identification of the Buying, Ship To and Selling parties is mandatory.*

**Note 2:**  
*Use this segment with a code in N104 whenever possible. This will eliminate the need to send complete name and address information in the N2 - N4 segments.*

**Element Summary:**

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

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

**Note 1:** *Note: Code 'RE - Party to Receive Commercial Invoice Remittance' existed in earlier X12 versions. ??????????????????????*

**CodeList Summary** (Total Codes: 1506, Included: 9)

<u>Code</u>	<u>Name</u>
BO	Broker or Sales Office
BS	Bill and Ship To
BT	Bill-to-Party
BY	Buying Party (Purchaser)
RI	Remit To
SF	Ship From
SN	Store
ST	Ship To
VN	Vendor

**Note 1:**  
*Used to specify the supplier or the supplier's division in a multi-divisional organization.*

N102	93	<b>Name</b>	X	AN	1/60	Used
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**Description:** Free-form name

N103	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Used
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**Description:** Code designating the system/method of code structure used for Identification Code (67)

**CodeList Summary** (Total Codes: 249, Included: 6)

<u>Code</u>	<u>Name</u>
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
10	Department of Defense Activity Address Code (DODAAC)
20	Standard Point Location Code (SPLC)
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
UL	Global Location Number (GLN)

**Description:** *A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system*

N104	67	<b>Identification Code</b>	X	AN	2/80	Used
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**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**Note 1:**

*This segment identifies the name of the organization referenced in N101 using free-form text.*

*Use only if address information for the referenced organization or company in the N1 segment cannot be derived from the code in N104.*

**Element Summary:**

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

## Note 1:

*Use only if address information for the referenced organization or company in the N1 segment cannot be derived from the code in N104.*

## Element Summary:

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

## Note 1:

*Use only if address information for the referenced organization or company in the N1 segment cannot be derived from the code in N104.*

## Element Summary:

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

# ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: >1
Heading - Optional	
Loop: N/A	Elements: 10

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	<b>Terms Type Code</b>	O	ID	2/2	Used

**Description:** Code identifying type of payment terms

**CodeList Summary** (Total Codes: 77, Included: 9)

<u>Code</u>	<u>Name</u>
01	Basic
02	End of Month (EOM)
03	Fixed Date
04	Deferred or Installment
05	Discount Not Applicable
06	Mixed
07	Extended
11	Elective
23	Payment Due Upon Receipt of Invoice

ITD02	333	<b>Terms Basis Date Code</b>	O	ID	1/2	Used
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**Description:** Code identifying the beginning of the terms period

**CodeList Summary** (Total Codes: 17, Included: 4)

<u>Code</u>	<u>Name</u>
1	Ship Date
2	Delivery Date
3	Invoice Date
7	Effective Date

ITD03	338	<b>Terms Discount Percent</b>	O	R	1/6	Used
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**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	<b>Terms Discount Due Date</b>	X	DT	8/8	Used
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**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	<b>Terms Discount Days Due</b>	X	N0	1/3	Used
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**Description:** Number of days in the terms discount period by which payment is due if terms discount is earned

ITD06	446	<b>Terms Net Due Date</b>	O	DT	8/8	Used
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**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	<b>Terms Net Days</b>	O	N0	1/3	Used
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**Description:** Number of days until total invoice amount is due (discount not applicable)

ITD08	362	<b>Terms Discount Amount</b>	O	N2	1/10	Used
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**Description:** Total amount of terms discount

ITD11	342	<b>Percent of Invoice Payable</b>	X	R	1/5	Used
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**Description:** Amount of invoice payable expressed in percent

**Note 1:** *ITD11 is used only at the header level in this transaction.*

ITD12	352	<b>Description</b>	O	AN	1/80	Used
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**Description:** A free-form description to clarify the related data elements and their content

### Syntax Rules:

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

### Semantics:

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

### Comments:

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

# DTM Date/Time Reference

Pos: 1400	Max: 10
Heading - Optional	
Loop: N/A	Elements: 4

**User Option (Usage):** Used

**Purpose:** To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Must use
<b>Description:</b> Code specifying type of date or time, or both date and time						
<b>CodeList Summary</b> (Total Codes: 1289, Included: 3)						
		<u>Code</u>		<u>Name</u>		
		011		Shipped		
		035		Delivered		
		044		Settlement Date as Specified by the Originator		
DTM02	373	<b>Date</b>	X	DT	8/8	Used
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
DTM03	337	<b>Time</b>	X	TM	4/8	Used
<b>Description:</b> 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	<b>Time Code</b>	O	ID	2/2	Used
<b>Description:</b> 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						
<b>CodeList Summary</b> (Total Codes: 51, Included: 8)						
		<u>Code</u>		<u>Name</u>		
		AT		Alaska Time		
		CT		Central Time		
		ET		Eastern Time		
		HT		Hawaii-Aleutian Time		
		LT		Local Time		
		MT		Mountain Time		
		NT		Newfoundland Time		
		PT		Pacific Time		

## 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	IT1	Baseline Item Data (Invoice)	O	1		Used
0400	TXI	Tax Information	O	>1		Used
0600		Loop PID	O		1000	Used
1000	PO4	Item Physical Details	O	1		Used
1800		Loop SAC	O		>1	Used

# IT1

## Baseline Item Data (Invoice)

Pos: 0100	Max: 1
Detail - Optional	
Loop: IT1	Elements: 21

**User Option (Usage):** Used

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

### Note 1:

GTIN codes are CA, EN, EO, UP and UK.

Codes UK and CA are mutually exclusive; only one of these codes may be used in the IT1 segment.

### Note 2:

When code CH - Country of Origin is used, use of ISO 3166-1 alpha-2 codes is preferred.

### Note 3:

To meet USDA Country of Origin Labeling (COOL) legislation requirements, the ISO Country Code(s) may be presented in the IT1 segment, using the data element 235/234 pair.

Example: Product of USA and Canada with a GTIN of 061414000010, quantity of 20 cartons:  
IT1\*\*20\*CT\*\*\*UP\*061414000010\*CH\*US CA~

### Note 4:

If the sending party wishes to send USDA Country of Origin Labeling (COOL) information in a text format, use the PID segment at Detail position 0600.

### 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

**Note 1:** Invoice line item number.

**Note 2:** Added in; requires UCS approval.

IT102	358	Quantity Invoiced	X	R	1/15	Used
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**Description:** Number of units invoiced (supplier units)

IT103	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**CodeList Summary** (Total Codes: 888, Included: 12)

Code	Name
01	Actual Pounds
26	Actual Tons
50	Actual Kilograms
CA	Case
EA	Each
KG	Kilogram
LB	Pound
MP	Metric Ton
PG	Pounds Gross
PH	Pack (PAK)
PL	Pallet/Unit Load

**Note 1:**

Also includes boxes.

PN	Pounds Net
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**Note 1:**

Includes Display Units.



IT104	212	<b>Unit Price</b>	X	R	1/17	Used
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**Description:** Price per unit of product, service, commodity, etc.

**Note 1:** IT104 is used to identify the buyers cost before discounts and allowances.

IT105	639	<b>Basis of Unit Price Code</b>	O	ID	2/2	Used
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**Description:** Code identifying the type of unit price for an item

**CodeList Summary** (Total Codes: 101, Included: 3)

Code	Name
ES	Estimated
PK	Price per Kilogram
PP	Price per Pound

IT106	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
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**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 513, Included: 6)

Code	Name
CA	Case

**Note 1:**

*GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.*

EN	GTIN EAN/UCC - 13 Digit Data Structure <b>Description:</b> Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
EO	GTIN EAN/UCC - 8 Digit Data Structure <b>Description:</b> Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UK	GTIN 14-digit Data Structure <b>Description:</b> Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UP	GTIN UCC - 12 Digit Data Structure <b>Description:</b> Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)

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

*Used as the primary product identifier when the product does not have a GTIN*

IT107	234	<b>Product/Service ID</b>	X	AN	1/48	Used
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**Description:** Identifying number for a product or service

IT108	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
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**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 513, Included: 8)

Code	Name
CA	Case

**Note 1:**

*GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging*

						<i>indicator and check digit.</i>
CH		Country of Origin Code				
		<b>Note 1:</b>				
		<i>ISO Country Code</i>				
EN		GTIN EAN/UCC - 13 Digit Data Structure				
		<b>Description:</b> <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>				
EO		GTIN EAN/UCC - 8 Digit Data Structure				
		<b>Description:</b> <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>				
PL		Purchaser's Order Line Number				
UK		GTIN 14-digit Data Structure				
		<b>Description:</b> <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>				
UP		GTIN UCC - 12 Digit Data Structure				
		<b>Description:</b> <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>				
VN		Vendor's (Seller's) Item Number				
		<b>Note 1:</b>				
		<i>Used only when the product does not have a U.P.C. number</i>				

IT109	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
IT110	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

**CodeList Summary** (Total Codes: 513, Included: 8)

<u>Code</u>	<u>Name</u>
CA	Case
	<b>Note 1:</b>
	<i>GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
CH	Country of Origin Code
	<b>Note 1:</b>
	<i>ISO Country Code</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
EO	GTIN EAN/UCC - 8 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
PL	Purchaser's Order Line Number
UK	GTIN 14-digit Data Structure
	<b>Description:</b> <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
UP	GTIN UCC - 12 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>
VN	Vendor's (Seller's) Item Number
	<b>Note 1:</b>

*Used only when the product does not have a U.P.C. 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)

**CodeList Summary** (Total Codes: 513, Included: 8)

<u>Code</u>	<u>Name</u>
CA	Case
	<b>Note 1:</b>
	<i>GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
CH	Country of Origin Code
	<b>Note 1:</b>
	<i>ISO Country Code</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
EO	GTIN EAN/UCC - 8 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
PL	Purchaser's Order Line Number
UK	GTIN 14-digit Data Structure
	<b>Description:</b> <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
UP	GTIN UCC - 12 Digit Data Structure
	<b>Description:</b> <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>
VN	Vendor's (Seller's) Item Number
	<b>Note 1:</b>
	<i>Used only when the product does not have a U.P.C. number</i>

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)

**CodeList Summary** (Total Codes: 513, Included: 8)

<u>Code</u>	<u>Name</u>
CA	Case
	<b>Note 1:</b>
	<i>GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
CH	Country of Origin Code
	<b>Note 1:</b>
	<i>ISO Country Code</i>

- EN GTIN EAN/UCC - 13 Digit Data Structure  
**Description:** Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- EO GTIN EAN/UCC - 8 Digit Data Structure  
**Description:** Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- PL Purchaser's Order Line Number
- UK GTIN 14-digit Data Structure  
**Description:** Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
- UP GTIN UCC - 12 Digit Data Structure  
**Description:** Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)
- VN Vendor's (Seller's) Item Number

**Note 1:**  
Used only when the product does not have a U.P.C. number

IT115 234 **Product/Service ID** X AN 1/48 Used

**Description:** Identifying number for a product or service

IT116 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)

**CodeList Summary** (Total Codes: 513, Included: 8)

Code	Name
CA	Case

**Note 1:**  
GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.

CH Country of Origin Code

**Note 1:**  
ISO Country Code

EN GTIN EAN/UCC - 13 Digit Data Structure  
**Description:** Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

EO GTIN EAN/UCC - 8 Digit Data Structure  
**Description:** Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

PL Purchaser's Order Line Number

UK GTIN 14-digit Data Structure  
**Description:** Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

UP GTIN UCC - 12 Digit Data Structure  
**Description:** Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

**Note 1:**  
Used only when the product does not have a U.P.C. number

IT117 234 **Product/Service ID** X AN 1/48 Used

**Description:** Identifying number for a product or service

IT118	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
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**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 513, Included: 8)

<u>Code</u>	<u>Name</u>
CA	Case <b>Note 1:</b> <i>GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
CH	Country of Origin Code <b>Note 1:</b> <i>ISO Country Code</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure <b>Description:</b> <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
EO	GTIN EAN/UCC - 8 Digit Data Structure <b>Description:</b> <i>Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
PL	Purchaser's Order Line Number
UK	GTIN 14-digit Data Structure <b>Description:</b> <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
UP	GTIN UCC - 12 Digit Data Structure <b>Description:</b> <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>
VN	Vendor's (Seller's) Item Number <b>Note 1:</b> <i>Used only when the product does not have a U.P.C. number</i>

IT119	234	<b>Product/Service ID</b>	X	AN	1/48	Used
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**Description:** Identifying number for a product or service

IT120	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
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**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**CodeList Summary** (Total Codes: 513, Included: 8)

<u>Code</u>	<u>Name</u>
CA	Case <b>Note 1:</b> <i>GTIN EAN/UCC-14 digit Shipping Unit - the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer's shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
CH	Country of Origin Code <b>Note 1:</b> <i>ISO Country Code</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure <b>Description:</b> <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
EO	GTIN EAN/UCC - 8 Digit Data Structure <b>Description:</b> <i>Data structure for the 8 digit EAN.UCC (EAN</i>

	<i>International Uniform Code Council) Global Trade Item Number (GTIN)</i>
PL	Purchaser's Order Line Number
UK	GTIN 14-digit Data Structure <b>Description:</b> <i>Data structure for the 14 digit EAN.UCC (EAN International Uniform Code Council) Global Trade Item Number (GTIN)</i>
UP	GTIN UCC - 12 Digit Data Structure <b>Description:</b> <i>Data structure for the 12 digit EAN.UCC (EAN International Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>
VN	Vendor's (Seller's) Item Number

**Note 1:**

*Used only when the product does not have a U.P.C. number*

IT121	234	<b>Product/Service ID</b>	X	AN	1/48	Used
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**Description:** Identifying number for a product or service

**Syntax Rules:**

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

**Semantics:**

1. IT101 is the 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.

# TXI Tax Information

Pos: 0400      Max: >1  
 Detail - Optional  
 Loop: IT1      Elements: 10

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	<b>Tax Type Code</b>	M	ID	2/2	Must use
<b>Description:</b> Code specifying the type of tax						
<b>CodeList Summary</b> (Total Codes: 102, Included: 2)						
		<u>Code</u>	<u>Name</u>			
		GS	Goods and Services Tax			
			<b>Description:</b> <i>Canadian value-added tax</i>			
		OH	Other Taxes			
TXI02	782	<b>Monetary Amount</b>	X	R	1/18	Used
<b>Description:</b> Monetary amount						
TXI03	954	<b>Percentage as Decimal</b>	X	R	1/10	Used
<b>Description:</b> Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)						
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b>	X	ID	2/2	Used
<b>Description:</b> Code identifying the source of the data used in tax jurisdiction code						
<b>CodeList Summary</b> (Total Codes: 6, Included: 6)						
		<u>Code</u>	<u>Name</u>			
		CD	Customer defined			
		MB	Taxing Authority Code			
		SP	State or Province			
		ST	State Defined			
		VD	Vendor defined			
		VE	Vertex			
TXI05	956	<b>Tax Jurisdiction Code</b>	X	AN	1/10	Used
<b>Description:</b> Code identifying the taxing jurisdiction						
TXI06	441	<b>Tax Exempt Code</b>	X	ID	1/1	Used
<b>Description:</b> Code identifying exemption status from sales and use tax						
<b>CodeList Summary</b> (Total Codes: 34, Included: 2)						
		<u>Code</u>	<u>Name</u>			
		1	Yes (Tax Exempt)			
			<b>Note 1:</b>			
			<i>Exempt from sales and use tax</i>			
		2	No (Not Tax Exempt)			
			<b>Note 1:</b>			
			<i>Not exempt from sales and use tax</i>			
TXI07	662	<b>Relationship Code</b>	O	ID	1/1	Used
<b>Description:</b> Code indicating the relationship between entities						
<b>CodeList Summary</b> (Total Codes: 6, Included: 2)						
		<u>Code</u>	<u>Name</u>			

		I	Included				
		S	Substituted				
TXI08	828	<b>Dollar Basis For Percent</b>		O	R	1/9	Used
		<b>Description:</b>	Dollar basis to be used in the percent calculation of the allowance, charge or tax				
TXI09	325	<b>Tax Identification Number</b>		O	AN	1/20	Used
		<b>Description:</b>	Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
TXI10	350	<b>Assigned Identification</b>		O	AN	1/20	Used
		<b>Description:</b>	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 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	O	1		Used

# PID Product/Item Description

Pos: 0600	Max: 1
Detail - Optional	
Loop: PID	Elements: 5

**User Option (Usage):** Used

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

## Note 1:

*If PID01 has a value of F, use PID05 for the free-form description.*

*If PID01 has a value of S, use PID03 to designate the industry code list and PID04 for the product description code.*

## Note 2:

*USDA Country of Origin Labeling Requirements (COOL) Guideline For Seafood - For Method of Catch, PID01=F, PID02=M1, and PID05='Farm Raised' or 'Wild Caught'.*

## Note 3:

*USDA Country of Origin Labeling Requirements (COOL) Guideline other than Seafood in a text format -*

*For all UCS versions from 4010 forward.*

*Detail PID segment (position 0600, or old position 060, dependent on version)*

*The following guidance has been developed to assist trade parties in the transmittal of Country of Origin Labeling information pursuant to the USDA requirements.*

*To convey the USDA Country of Origin Labeling (COOL) information, use the PID segment as follows:*

*PID01 - F*

*PID02 - MSG*

*PID03 - not used*

*PID04 - not used*

*PID05 - country of origin information, ordered as mandated by the USDA legislation.*

*Example: A product of USA and Canada would be shown as:*

*PID\*F\*MSG\*\*\*PRODUCT OF USA AND CANADA~. (The \* and ~ are delimiter values.)*

## Note 4:

*To identify the Trade Item Unit Indicator of a product:*

*PID01 = 'S'*

*PID02 = "12"*

*PID03 = "FD"*

*PID04 - Select from codes BU, CU, DU, IU, OU, and VU.*

## Element Summary:

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

**Description:** Code indicating the format of a description

**CodeList Summary** (Total Codes: 3, Included: 3)

<u>Code</u>	<u>Name</u>
F	Free-form

### Note 1:

*Use free-form text to report brand name and other characteristics associated with the product/item that cannot be captured using structured text from an industry code list.*

S	Structured (From Industry Code List)
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### Note 1:

*Structured item description characteristics are needed at the lowest level of detail only.*

X Semi-structured (Code and Text)  
 PID02 750 **Product/Process Characteristic Code** O ID 2/3 Used

**Description:** Code identifying the general class of a product or process characteristic  
**Note 1:** *If PID02 = M1 Method of Catch, PID05 values are "Farm Raised" or "Wild Caught".*

**CodeList Summary** (Total Codes: 270, Included: 3)

<u>Code</u>	<u>Name</u>
05	Category
12	Type and/or Process
M1	Method of Catch

PID03 559 **Agency Qualifier Code** X ID 2/2 Used

**Description:** Code identifying the agency assigning the code values

**CodeList Summary** (Total Codes: 195, Included: 3)

<u>Code</u>	<u>Name</u>
AB	Assigned by Buyer
AS	Assigned by Seller
FD	GS1 US, Inc.

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

**CodeList Summary** (Total Codes: 30, Included: 15)

<u>Code</u>	<u>Name</u>
A	COOL Legislation, Category A using ISO Country Code(s)
B	COOL Legislation, Category B using ISO Country Code(s)
C	COOL Legislation, Category C using ISO Country Code(s)
D	COOL Legislation, Category D using ISO Country Code(s)
N	COOL Legislation, Not Applicable to product
A1	COOL Legislation, Category A using a text statement
B1	COOL Legislation, Category B using a text statement
BU	Base Unit

**Note 1:**  
*The lowest level packaged unit for a given product, which may or may not be the consumer unit.*

C1	COOL Legislation, Category C using a text statement
CU	Consumer Unit

**Note 1:**  
*Identifies whether the current hierarchy level of a trade item is intended for ultimate consumption.*

D1	COOL Legislation, Category D using a text statement
DU	Despatch Unit

**Note 1:**  
*An indicator identifying that the information provider considers the trade item as a despatch (shipping) unit.*

IU	Invoice Unit
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**Note 1:**  
*An indicator identifying that the information provider will include this trade item on their billing or invoice.*

OU	Orderable Unit
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**Note 1:**  
*An indicator identifying that the information provider considers this trade*

VU	<p><i>item to be at a hierarchy level where they will accept orders from customers.</i></p> <p>Variable Unit</p> <p><b>Note 1:</b> <i>Indicates that an article is not a fixed quantity, but that the quantity is variable.</i></p>
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PID05	352	<b>Description</b>	X	AN	1/80	Used
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**Description:** A free-form description to clarify the related data elements and their content

**Note 1:** For COOL Legislation, either one or more ISO Country Codes or a text statement is placed in PID05.

### 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.

# PO4 Item Physical Details

Pos: 1000	Max: 1
Detail - Optional	
Loop: IT1	Elements: 6

**User Option (Usage):** Used

**Purpose:** To specify the physical qualities, packaging, weights, and dimensions relating to the item

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	<b>Pack</b>	O	N0	1/6	Used
		<b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container				
PO406	384	<b>Gross Weight per Pack</b>	X	R	1/9	Used
		<b>Description:</b> Numeric value of gross weight per pack				
PO407	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>CodeList Summary</b> (Total Codes: 888, Included: 3)				
		<u>Code</u>		<u>Name</u>		
		KG		Kilogram		
		LB		Pound		
		OZ		Ounce - Av		
PO408	385	<b>Gross Volume per Pack</b>	X	R	1/9	Used
		<b>Description:</b> Numeric value of gross volume per pack				
PO409	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>CodeList Summary</b> (Total Codes: 888, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		CF		Cubic Feet		
PO414	810	<b>Inner Pack</b>	O	N0	1/6	Used
		<b>Description:</b> The number of eaches per inner container				

## Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

## Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.

3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

**Comments:**

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

# 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

**Note 1:**

*As a best practice, the GS1 US XRG recommends use of the TXI segment for conveying tax information. The SAC segment should be limited to use for service, promotion, allowance and charge information.*

**Loop Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800 Max: 1  
 Detail - Optional  
 Loop: SAC Elements: 12

**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

**Note 1:**

*SAC09 and SAC10 are required when SAC08 is used and, SAC09 and SAC10 are different than item detail in IT102 and IT103.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

**Description:** Code which indicates an allowance or charge for the service specified

**Note 1:** SAC01 is not used to determine the positive or negative value of SAC05 or SAC08. All negative values must be signed.

**CodeList Summary** (Total Codes: 7, Included: 2)

<u>Code</u>	<u>Name</u>
A	Allowance
C	Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
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**Description:** Code identifying the service, promotion, allowance, or charge

**CodeList Summary** (Total Codes: 1089, Included: 9)

<u>Code</u>	<u>Name</u>
B280	Combination Performance and Non-performance
D170	Free Goods
D240	Freight
D360	Goods and Services Tax Charge
F340	Pick/Up
F800	Promotional Allowance
G880	Shrinkage Allowance
H910	Temperature Protection
I170	Trade Discount

SAC05	610	Amount	O	N2	1/15	Used
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**Description:** Monetary amount

SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Used
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**Description:** Code indicating on what basis allowance or charge percent is calculated

**CodeList Summary** (Total Codes: 16, Included: 2)

<u>Code</u>	<u>Name</u>
0	Gross
4	Discount/Net

SAC07	332	Percent, Decimal Format	X	R	1/6	Used
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**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

**CodeList Summary** (Total Codes: 888, Included: 6)

<u>Code</u>	<u>Name</u>
CA	Case
	<b>Note 1:</b> <i>Also includes boxes.</i>
D1	Dollars, Canadian
DO	Dollars, U.S.
	<b>Note 1:</b> <i>* For Lottery Process Use Only</i>
HW	Hundred Weight (Long)
	<b>Note 1:</b> <i>Denotes Hundred Weight - CWG</i>
	<b>Note 2:</b> <i>UCS Request to include</i>
KG	Kilogram
PN	Pounds Net

SAC10 380 **Quantity** X R 1/15 Used

**Description:** Numeric value of quantity

SAC12 331 **Allowance or Charge Method of Handling Code** O ID 2/2 Used

**Description:** Code indicating method of handling for an allowance or charge

**CodeList Summary** (Total Codes: 22, Included: 2)

<u>Code</u>	<u>Name</u>
02	Off Invoice
	<b>Note 1:</b> <i>Allowance included on invoice</i>
06	Charge to be Paid by Customer
	<b>Note 1:</b> <i>Charge included on invoice</i>

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

**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.

# 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	<b>Amount</b>	M	N2	1/15	Must use
<b>Description:</b> Monetary amount <b>Note 1:</b> TDS01 is used to specify the total invoice amount, including charges less allowances before terms discount.						
TDS02	610	<b>Amount</b>	O	N2	1/15	Used
<b>Description:</b> Monetary amount <b>Note 1:</b> TDS02 is used to specify the amount subject to terms discount.						
TDS03	610	<b>Amount</b>	O	N2	1/15	Used
<b>Description:</b> Monetary amount <b>Note 1:</b> TDS03 is used to specify the discounted amount due.						
TDS04	610	<b>Amount</b>	O	N2	1/15	Used
<b>Description:</b> 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	<b>Tax Type Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code specifying the type of tax				
		<b>CodeList Summary</b> (Total Codes: 102, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		GS		Goods and Services Tax		
				<b>Description:</b> <i>Canadian value-added tax</i>		
TXI02	782	<b>Monetary Amount</b>	X	R	1/18	Used
		<b>Description:</b> Monetary amount				
TXI03	954	<b>Percentage as Decimal</b>	X	R	1/10	Used
		<b>Description:</b> Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)				
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the source of the data used in tax jurisdiction code				
		<b>CodeList Summary</b> (Total Codes: 6, Included: 6)				
		<u>Code</u>		<u>Name</u>		
		CD		Customer defined		
		MB		Taxing Authority Code		
		SP		State or Province		
		ST		State Defined		
		VD		Vendor defined		
		VE		Vertex		
TXI05	956	<b>Tax Jurisdiction Code</b>	X	AN	1/10	Used
		<b>Description:</b> Code identifying the taxing jurisdiction				
TXI06	441	<b>Tax Exempt Code</b>	X	ID	1/1	Used
		<b>Description:</b> Code identifying exemption status from sales and use tax				
		<b>CodeList Summary</b> (Total Codes: 34, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		1		Yes (Tax Exempt)		
				<b>Note 1:</b>		
				<i>Exempt from sales and use tax</i>		
		2		No (Not Tax Exempt)		
				<b>Note 1:</b>		
				<i>Not exempt from sales and use tax</i>		
TXI07	662	<b>Relationship Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating the relationship between entities				
		<b>CodeList Summary</b> (Total Codes: 6, Included: 2)				
		<u>Code</u>		<u>Name</u>		
		I		Included		

		S	Substituted				
TXI08	828		<b>Dollar Basis For Percent</b>	O	R	1/9	Used
			<b>Description:</b> Dollar basis to be used in the percent calculation of the allowance, charge or tax				
TXI09	325		<b>Tax Identification Number</b>	O	AN	1/20	Used
			<b>Description:</b> Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
TXI10	350		<b>Assigned Identification</b>	O	AN	1/20	Used
			<b>Description:</b> 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: 6

**User Option (Usage):** Used

**Purpose:** To specify transportation details for the transaction

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CAD01	91	Transportation Method/Type Code	M	ID	1/2	Used

**Description:** Code specifying the method or type of transportation for the shipment

**CodeList Summary** (Total Codes: 81, Included: 23)

<u>Code</u>	<u>Name</u>
7	Mail <b>Description:</b> Type of transportation provided by the U.S. Postal Service
A	Air
B	Barge
C	Consolidation
D	Parcel Post
E	Expedited Truck
H	Customer Pickup <b>Note 1:</b> Use this code when the pick-up of products is responsibility of customer
I	Common Irregular Carrier
L	Contract Carrier <b>Note 1:</b> Shipments made with a carrier under contract with the shipping company
M	Motor (Common Carrier) <b>Note 1:</b> Shipments made under class or commodity rates
N	Private Vessel
O	Containerized Ocean
P	Private Carrier <b>Note 1:</b> Shipments made using the shipping company's fleet
Q	Conventional Ocean
R	Rail
T	Best Way (Shippers Option)
U	Private Parcel Service
X	Intermodal (Piggyback)
AE	Air Express
AF	Air Freight
LT	Less Than Trailer Load (LTL)
SD	Shipper Association <b>Description:</b> Non-profit cooperative consolidator or distributors of shipments by member firms
SR	Supplier Truck

CAD02	206	<b>Equipment Initial</b>	O	AN	1/4	Used
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**Description:** Prefix or alphabetic part of an equipment unit's identifying number

CAD03	207	<b>Equipment Number</b>	O	AN	1/15	Used
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**Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

CAD04	140	<b>Standard Carrier Alpha Code</b>	X	ID	2/4	Used
		<b>Description:</b> Standard Carrier Alpha Code				
CAD05	387	<b>Routing</b>	X	AN	1/35	Used
		<b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity				
CAD06	368	<b>Shipment/Order Status Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction				
		<b>CodeList Summary</b> (Total Codes: 102, Included: 12)				
		<b>Code</b>		<b>Name</b>		
		BO		Back Ordered		
		CC		Shipment Complete on (Date)		
				<b>Note 1:</b>		
				<i>Shipped equals ordered</i>		
		CM		Shipment Complete with Additional Quantity		
				<b>Note 1:</b>		
				<i>Shipped more than ordered</i>		
		CP		Partial Shipment on (Date), Considered No Backorder		
				<b>Note 1:</b>		
				<i>Shipped less than ordered</i>		
		CS		Shipment Complete with Substitution		
				<b>Note 1:</b>		
				<i>Shipped less than ordered, but filled with substitutes</i>		
		DO		Diverted Order		
		IC		Item Canceled		
		IS		Item Represents Substitution from Original Order		
				<b>Note 1:</b>		
				<i>Ordered quantity is zero</i>		
		PR		Partial Shipment		
		SS		Split Shipment		
		UB		Unbilled Quantity Balance		
		UN		Unavailable		

**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: 0400	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

**Note 1:**

*As a best practice, the GS1 US XRG recommends use of the TXI segment for conveying tax information. The SAC segment should be limited to use for service, promotion, allowance and charge information.*

**Loop Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used



# SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400 Max: 1  
 Summary - Optional  
 Loop: SAC Elements: 8

**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

**Note 1:**

*As a best practice, the GS1 US X12 Requirements Group (XRG) recommends use of the TXI segment for conveying tax information. The SAC segment should be limited to use for service, promotion, allowance and charge information.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

**Description:** Code which indicates an allowance or charge for the service specified  
**Note 1:** SAC01 is not used to determine the positive or negative value of SAC05 or SAC08. All negative values must be signed.

**CodeList Summary** (Total Codes: 7, Included: 2)

<u>Code</u>	<u>Name</u>
A	Allowance
C	Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Used
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**Description:** Code identifying the service, promotion, allowance, or charge

**CodeList Summary** (Total Codes: 1090, Included: 9)

<u>Code</u>	<u>Name</u>
B280	Combination Performance and Non-performance
D170	Free Goods
D240	Freight
D360	Goods and Services Tax Charge
F340	Pick/Up
F800	Promotional Allowance
G880	Shrinkage Allowance
H910	Temperature Protection
I170	Trade Discount

SAC05	610	Amount	O	N2	1/15	Used
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**Description:** Monetary amount

SAC06	378	Allowance/Charge Percent Qualifier	X	ID	1/1	Used
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**Description:** Code indicating on what basis allowance or charge percent is calculated

**CodeList Summary** (Total Codes: 16, Included: 16)

<u>Code</u>	<u>Name</u>
0	Gross
1	Item List Cost
2	Item Net Cost
3	Discount/Gross
4	Discount/Net

5	Base Price per Unit
6	Base Price Amount
7	Base Price Amount Less Previous Discount
8	Net Monthly On All Invoices Past Due
9	Late Payment Charge Base Amount
	<b>Description:</b> Amount outstanding after the past due date, and subject to a late payment charge
A	Fuel Rate
B	Item Total Amount
C	Item Unit Price
D	Order Total Amount
H	Hourly Rate
Z	Mutually Defined

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

**CodeList Summary** (Total Codes: 888, Included: 6)

<u>Code</u>	<u>Name</u>
CA	Case
D1	Dollars, Canadian
DO	Dollars, U.S.
HW	Hundred Weight (Long)

**Note 1:**  
*UCS to be requested*

**Note 2:**  
*Denotes Hundred Weight - CWG*

KG	Kilogram
PN	Pounds Net

SAC10 380 **Quantity** X R 1/15 Used

**Description:** Numeric value of quantity

**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 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	ISS	Invoice Shipment Summary	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISS01	382	Number of Units Shipped	X	R	1/10	Used

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

**Note 1:** *ISS01 specifies the total number of cases, bottles, etc. specified in the original purchase order.*

ISS02	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**CodeList Summary** (Total Codes: 888, Included: 12)

<u>Code</u>	<u>Name</u>
01	Actual Pounds
26	Actual Tons
50	Actual Kilograms
CA	Case
EA	Each
KG	Kilogram
LB	Pound
MP	Metric Ton
PG	Pounds Gross
PH	Pack (PAK)
PL	Pallet/Unit Load
PN	Pounds Net

**Note 1:**  
*Also includes boxes.*

**Note 1:**  
*Includes Display Units.*

ISS03	81	Weight	X	R	1/10	Used
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**Description:** Numeric value of weight

ISS04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**CodeList Summary** (Total Codes: 888, Included: 12)

<u>Code</u>	<u>Name</u>
01	Actual Pounds
26	Actual Tons
50	Actual Kilograms
CA	Case
EA	Each
KG	Kilogram
LB	Pound

**Note 1:**  
*Also includes boxes.*

MP Metric Ton  
 PG Pounds Gross  
 PH Pack (PAK)  
 PL Pallet/Unit Load

**Note 1:**  
*Includes Display Units.*

PN Pounds Net

ISS05 183 **Volume** X R 1/8 Used

**Description:** Value of volumetric measure

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

**CodeList Summary** (Total Codes: 888, Included: 1)

<u>Code</u>	<u>Name</u>
CF	Cubic Feet

ISS07 380 **Quantity** O R 1/15 Used

**Description:** Numeric value of quantity

**Note 1:** *ISS07 should only be used to express the quantity of third party pallets.*

ISS08 81 **Weight** O R 1/10 Used

**Description:** Numeric value of weight

**Note 1:** *ISS08 should only be used to express the pounds gross weight of third party pallets.*

**Syntax Rules:**

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

**Semantics:**

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

# CTT Transaction Totals

Pos: 0700	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	NO	1/6	Must use

**Description:** Total number of line items in the transaction set

**Note 1:** CTT01 is the total number of IT1 segments present in the transaction set.

## Syntax Rules:

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

## Comments:

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

# SE Transaction Set Trailer

Pos: 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b>	M	NO	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				
		<b>Note 1:</b> <i>The transaction set control number (SE02) is the same as that used in the corresponding header (ST02).</i>				

## Comments:

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