810 Invoice

Functional Group=IN

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

Notes:

3/070   Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

User:

This PIDX Purchasing and Materials Management implementation of the Invoice (810) is for the general procurement invoice used for materials and services.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	O	1			Used
050	REF	Reference Numbers	O	12			Must use
LOOP ID - N1					**200**		
070	N1	Name	O	1			Used
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
120	PER	Administrative Communications Contact	O	3			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	5			Used
140	DTM	Date/Time Reference	O	10			Used
150	FOB	F.O.B. Related Instructions	O	1			Used
180	PWK	Paperwork	O	25			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					**200000**		
010	IT1	Baseline Item Data (Invoice)	O	1			Used
030	IT3	Additional Item Data	O	5			Used
040	TXI	Tax Information	O	10			Used
050	CTP	Pricing Information	O	25			Used
059	MEA	Measurements	O	40			Used
LOOP ID - PID					**1000**		
060	PID	Product/Item Description	O	1			Used
080	PWK	Paperwork Reference	O	25			Used
120	REF	Numbers Date/Time	O	>1			Used
150	DTM	Reference	O	10			Used
LOOP ID - ITA					**10**		
180	ITA	Allowance, Charge or Service	O	1			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - SLN					**1000**		
200	SLN	Subline Item Detail	O	1			Used
220	PID	Product/Item Description	O	1000			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	TDS	Total Monetary Value Summary	M	1			Must use
020	TXI	Tax Information	O	10			Used
030	CAD	Carrier Detail	O	1			Used
LOOP ID - ITA					**10**		
040	ITA	Allowance, Charge or Service	O	1			Used
070	CTT	Transaction Totals	M	1		N3/070	Must use
080	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

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

Semantics:

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

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	X12.2 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

User:　　*The transaction set control number assigned by the originator is sequentially assigned within each functional group. The same control number appears in the SE segment (SE02) in the summary area of the transaction set.*

BIG   Beginning Segment for Invoice

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

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	245	**Invoice Date**	M	DT	6/6	Must use

Description: Invoice Issue Date.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG02	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer.

User: *Use this data field to relay the seller's assigned number.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG03	323	**Purchase Order Date**	O	DT	6/6	Used

Description: Date assigned by the purchaser to Purchase Order.

User: *This date must be the same date that appears on the paper purchase order.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG04	324	**Purchase Order Number**	O	AN	1/22	Used

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

User: *Use this data field to relay the buyer's assigned number which may also be a "blanket release"/contract purchase order number.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

User: *The release number is the number identifying a release against a previously placed purchase order or blanket order.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG06	327	**Change Order Sequence Number**	O	AN	1/8	Not used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG07	640	**Transaction Type Code**	O	ID	2/2	Used

Description: Code specifying the type of transaction.

Code	Name
CR	Credit Memo
DR	Debit Memo
PR	Product (or Service)

CUR Currency

Pos: 040   Max: 1
Heading - Optional
Loop: N/A   Elements: 21

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

Syntax:

C0807 -- If CUR08 is present, then CUR07 is required
C0907 -- If CUR09 is present, then CUR07 is required
C1110 -- If CUR11 is present, then CUR10 is required
C1210 -- If CUR12 is present, then CUR10 is required
C1413 -- If CUR14 is present, then CUR13 is required
C1513 -- If CUR15 is present, then CUR13 is required
C1716 -- If CUR17 is present, then CUR16 is required
C1816 -- If CUR18 is present, then CUR16 is required
C2019 -- If CUR20 is present, then CUR19 is required
C2119 -- If CUR21 is present, then CUR19 is required

User:
Use the CUR segment ONLY if pricing is not in United States currency.

Element Summary:

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

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

Code	Name
BY	Buying Party (Purchaser)
SE	Selling Party

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.

User: *Refer to Code Source 5 in Appendix A for applicable code values.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR03	280	**Exchange Rate**	O	R	4/6	Used

Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR04	98	**Entity Identifier Code**	O	ID	2/2	Not used

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

All valid X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR05	100	**Currency Code**	O	ID	3/3	Not used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR06	669	**Currency Market/Exchange Code**	O	ID	3/3	Not used

Description: Code identifying the market upon which the currency exchange rate is based.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		All valid X12 codes are used.				
CUR07	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR08	373	**Date** **Description:** Date (YYMMDD).	O	DT	6/6	Not used
CUR09	337	**Time** **Description:** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR10	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR11	373	**Date** **Description:** Date (YYMMDD).	O	DT	6/6	Not used
CUR12	337	**Time** **Description:** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR13	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR14	373	**Date** **Description:** Date (YYMMDD).	O	DT	6/6	Not used
CUR15	337	**Time** **Description:** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR16	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR17	373	**Date** **Description:** Date (YYMMDD).	O	DT	6/6	Not used
CUR18	337	**Time** **Description:** Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR19	374	**Date/Time Qualifier** **Description:** Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR20	373	**Date** **Description:** Date (YYMMDD).	O	DT	6/6	Not used

BL			Element	Name---------- Req	Min/Max	Usage
CUR21	337	**Time**		O TM	4/6	**Not used**

Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)

REF Reference Numbers

<div style="border:1px solid black; padding:4px; float:right">
Pos: 050 Max: 12
Heading - Optional
Loop: N/A Elements: 3
</div>

To specify identifying numbers.

Syntax:

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

User:

If a purchase order/release number is not used by a trading partner, then at least one of the following code values must be used: AE, CR, JB, WN, or LU.

The information relayed in this REF segment applies to the entire transaction. If this information differs for a particular line item, use the REF segment at the detail level.

PMMUG recommends using a maximum of three (3) qualifiers or less per transaction set.

Internal:
This segment not previously used by CIDX.

Element Summary:

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

Description: Code qualifying the Reference Number.

Code	Name
19	Division Identifier
AE	Authorization for Expense (AFE) Number
CA	Cost Allocation Reference
CR	Customer Reference Number

User: *Use this code value to represent the Customer Accounting Reference Number.*

Code	Name
DJ	Delivery Ticket Number
IT	Internal Customer Number
JB	Job (Project) Number

User: *Use this code value to denote the Job/Work Order Number.*

Code	Name
LU	Location Number

Description: Use this code value to represent either the well or field identification number.

User: *Use this code value to represent either the well or field identification number.*

Code	Name
OI	Original Invoice Number

Description: The original invoice number should be noted in the REF02 if a credit memo is sent with a unique invoice number.

Code	Name
PA	Price Area Number
WN	Well Number

Description: Use this code value to represent either the well or field name.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	**127**	**Reference Number**	**C**	**AN**	**1/30**	**Used**

Description: Reference mnnber or identification mnnber as defined for a particular Transaction Set, or as specified by the Reference Nlllllber Qualifier.

			Reg	Min/Max	Usage
REF03	352	**Description**	C	AN	1180	Used

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

N1 Name

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

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

Syntax:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

User:
RE, BT, ST, SE and BS are acceptable qualifiers. If the BS qualifier is used, the BT and ST should not be used. If SE is different from RE, SE is recommended to be sent. If the invoice does not reference a purchase order in the BIG segment, BT or BS is required.

Element Summary:

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

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

Code	Name
16	Plant
BS	Bill and Ship To

> **User:** *If BS is used, BT and ST should not be used.*

BT	Party to be Billed For Other Than Freight(Bill To)

> **User:** *Use this code value to represent the Bill To Party.*

RE	Party to receive commercial invoice remittance

> **User:** *Use this code value to represent Remit To Party.*

SE	Selling Party
SF	Ship From

> **User:** *Point of Shipment should be included in this N1 Loop NOT the FOB.*

ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	Name	C	AN	1/35	Must use

Description: Free-form name.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	Identification Code Qualifier	C	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

Description: DUNS+4 is the PIDX Recommended

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
	Practice.

User: *DUNS+4 is the PIDX Recommended Practice.*

Code	Name
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	**67**	**Identification Code**	C	AN	2/17	Used

Description: Code identifying a party or other code.

N2 Additional Name Information

Pos: 080   **Max: 2**
Heading - Optional
Loop: N1   **Elements: 2**

To specify additional names or those longer than 35 characters in length

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/35	**Must use**
		Description: Free-form name.				
N202	93	**Name**	O	AN	1/35	**Used**
		Description: Free-form name.				

N3 Address Information

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**	**1/35**	**Must use**
		Description: Address information				
N302	**166**	**Address Information**	**O**	**AN**	**1/35**	**Used**
		Description: Address information				

N4 Geographic Location

To specify the geographic place of the named party

Syntax:

R0105 -- At least one of N401 or N405 is required.
P0506 -- If either N405 or N406 are present, then the others are required.

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	C	AN	2/30	**Must use**
		Description: Free-form text for city name.				
N402	156	**State or Province Code**	O	ID	2/2	**Must use**
		Description: Code (Standard State/Province) as defined by appropriate government agency.				
		User: *Refer to PIDX Bulletin D12A for applicable code values.*				
		Also refer to Code Source 22 in Appendix A for other applicable code values.				
N403	116	**Postal Code**	O	ID	3/9	**Must use**
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States).				
		User: *Refer to Code Source 51 in Appendix A for applicbale code values.*				
		For Canadian Postal Codes:				
		National Philatelic Centre *75 ST NINIAN ST Suite 100* *ANTIGONISH NS B2G 2R8* *Canada*				
		E-mail Address: service@mailposte.ca				
N404	26	**Country Code**	O	ID	2/3	**Used**
		Description: Code identifying the country.				
		User: *Refer to PIDX Bulletin D12A for applicable code values.*				
		Also refer to Code Source 22 in Appendix A for other applicable code values.				
		If N404 is used, then the use of N401 - N403 is required.				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N405	**309**	**Location Qualifier**	**C**	**ID**	**1/2**	**Not used**
		Description: Code identifying type of location.				
		All valid X12 codes are used.				
N406	**310**	**Location Identifier**	**C**	**AN**	**1/25**	**Not used**
		Description: Code which identifies a specific location.				

PER Administrative Communications Contact

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

Syntax:

P0304 -- If either PER03 or PER04 are present, then the others are required.
P0506 -- If either PER05 or PER06 are present, then the others are required.

Internal:
This segment not previously used by CIDX.

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
AN	Attention-to Party

User: *Party to whose attention information is sent via U.S. Post Office - U.S. Mail*

Code	Name
IC	Information Contact
OC	Order Contact

User: *The person who initiated the order*

Code	Name
SR	Sales Representative or Department

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/35	**Used**

Description: Free-form name.

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

Description: Code identifying the type of communication number.

Code	Name
ED	Electronic Data Interchange Access Number

User: *This code value is to be used to designate an internal route code or the identification number established for employee identification code.*

Code	Name
EM	Electronic Mail
FX	Facsimile
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	C	AN	1/25	**Used**

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

User: *When the code value ED is used, the communication number will designate a route code/ID number.*

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

Description: Code identifying the type of communication number.

		Ele ment Name	Reg	Min/Max	Usage

PER06	364	Communication Number	C	AN	1/25	Used

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

User: *When the code value ED is used the communication number will designate a route code/ID number.*

ITD   Terms of Sale/Deferred Terms of Sale

To specify terms of sale.

Syntax:

L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
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 ITD09 is required and either ITD10 or ITD11 is required. If the code in ITD01 equals 05, then ITD06 or ITD07 is required.

User:

The term "Discount" refers to a payment discount, not a pricing discount.

If no ITD segment is sent, terms should default to the terms established between trading partners.

Internal:

This segment not previously used by CIDX.

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
08	Basic Discount Offered
14	Previously agreed upon

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
3	Invoice Date
5	Invoice Receipt Date
8	Invoice Transmission Date

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**	C	DT	6/6	Used

Description: Date payment is due if discount is to be earned.

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

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

User: *If ITD03 is sent, ITD04 and ITD05 are required. ITD03 must be greater than zero (0).*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD06	**446**	**Terms Net Due Date**	**O**	**DT**	**6/6**	**Used**

Description: Date when total invoice amount becomes due.

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

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

DTM   Date/Time Reference

To specify pertinent dates and times

Syntax:

R0203 -- At least one of DTM02 or DTM03 is required.

User:
The DTM segment is not commonly used at both the header level and detail level. Best practices suggests that the DTM be used at either the header level or detail level, BUT NOT BOTH.

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
011	Shipped
150	Service Period Start
	Description: Date repair order was opened
151	Service Period End
	Description: Date repair order was closed
214	Date of Repair/Service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	6/6	**Used**

Description: Date (YYMMDD).

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM05	624	**Century**	O	N0	2/2	**Used**

Description: The first two characters in the designation of the year (CCYY).

FOB F.O.B. Related Instructions

Pos: 150	**Max: 1**
Heading - Optional	
Loop: N/A	**Elements: 4**

To specify transportation instructions relating to shipment

Syntax:

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

Semantics:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	**146**	**Shipment Method of Payment**	**M**	**ID**	**2/2**	**Must use**

Description: Code identifying payment terms for transportation charges.

Code	Name
CC	Collect
CD	Collect on Delivery
CF	Collect,Freight Credited Back to Customer
DE	Per Contract

    Description: Destination with exceptions as agreed between buyer and seller

Code	Name
DF	Defined by Buyer and Seller
FO	FOB Port of Call
NC	Service Freight,No Charge
PB	Customer Pick-up/Backhaul
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)
PU	Pickup
TP	Third Party Pay

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB02	**309**	**Location Qualifier**	**C**	**ID**	**1/2**	**Used**

Description: Code identifying type of location.

Code	Name
AC	City and State
CC	Country
CY	County/Parish
DE	Destination (Shipping)
FE	Freight Equalization Point
OA	Origin (After Loading on Equipment)
OR	Origin (Shipping Point)
OV	On Vessel (Free On Board [FOB] point)
PL	Plant
WH	Warehouse

Ref	Id	Element Name		Req	Type	Min/Max	Usage
		Code	**Name**				
		ZZ	Mutually Defined				
FOB03	**352**	**Description**		**O**	**AN**	**1/80**	**Used**
		Description: A free-form description to clarify the related data elements and their content.					
FOB06	**309**	**Location Qualifier**		**C**	**ID**	**1/2**	**Used**
		Description: Code identifying type of location.					
		Code	**Name**				
		DE	Destination (Shipping)				
		FE	Freight Equalization Point				
		OA	Origin (After Loading on Equipment)				
		OR	Origin (Shipping Point)				
		OV	On Vessel (Free On Board [FOB] point)				
		PL	Plant				
		WH	Warehouse				

PWK Paperwork

	Pos: 180　　　**Max: 25** **Heading - Optional** **Loop: N/A**　　**Elements: 3**

To identify the type and transmission of paperwork or supporting information

Syntax:

P0506 -- If either PWK05 or PWK06 are present, then the others are required.

Comments:

1. PWK05 and PWK06 may be used to identify the addressee by a code number.
2. PWK07 may be used to indicate special information to be shown on the specified report.
3. PWK08 may be used to indicate action pertaining to a report.

User:
The PWK segment should be used ONLY if "attached" paperwork is applicable.

If the PWK segment is used at the header level, the referenced paperwork is for the entire document. If PWK is used at the detail level, the referenced paperwork is for that INVOICE LINE ITEM ONLY.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK01	**755**	**Report Type Code**	**M**	**ID**	**2/2**	**Must use**

Description:　Code indicating the title or contents of a document, report or supporting item

Code	Name
12	Mechanical Properties
BM	Bill of Material
CT	Certification
IT	Certified Inspection and Test Results
MS	Material Safety Data Sheet
PJ	Purchasing Specification

User:　*Specifications, generated by a customer, setting acceptance limits on the properties or performance of the product being purchased; purchasing specifications may additionally supply instructions for packaging, transportation, delivery, and payments*

Code	Name
SI	Seller Inventory Report

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK02	**756**	**Report Transmission Code**	**O**	**ID**	**2/2**	**Used**

Description:　Code defining timing, transmission method or format by which reports are to be sent

User:　*In most instances, the preferred report transmission vehicle is via an ASC X12 transaction set if available. However, if a transaction set cannot be used, the report should be transmitted electronically nevertheless.*

Code	Name
AE	Electronically After Shipping
BM	By Mail
EL	Electronically Only
FX	By Fax

BL	.!!!..	Element Name	Reg	IJ:wl	Min/Max	Usage
PWK07	352	**Description**	**O**	AN	1180	**Used**

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

PIDX INTERNATIONAL
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IT1 Baseline Item Data (Invoice)

Pos: 010 Max: 1
Detail - Optional
Loop: IT1 Elements: 24

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

Syntax:

C0607 -- If IT106 is present, then IT107 is required
C0809 -- If IT108 is present, then IT109 is required
C1011 -- If IT110 is present, then IT111 is required
C1213 -- If IT112 is present, then IT113 is required
C1415 -- If IT114 is present, then IT115 is required
C1617 -- If IT116 is present, then IT117 is required
C1819 -- If IT118 is present, then IT119 is required
C2021 -- If IT120 is present, then IT121 is required
C2223 -- If IT122 is present, then IT123 is required
C2425 -- If IT124 is present, then IT125 is required

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
2. IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

User:
The general approach throughout this transaction set is that positive amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice or to the customer's account.

Either IT102 (Quantity) or IT104 (Unit Price) may be negative, BUT NOT BOTH.

At least one of the IT106, IT108 and IT110 is required for all services and products to support pricing and verification.

Quantity x Unit Price in It1 equals the extended line amount.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	**350**	**Assigned Identification**	O	AN	1/11	**Must use**
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
		User: *If purchase order is received, the purchase order line number is required in IT101. Otherwise, a sequential line number is required.*				
IT102	**358**	**Quantity Invoiced**	M	R	1/10	**Must use**
		Description: Number of units invoiced (supplier units).				

User: *Either IT102 or IT104 may be negative, BUT NOT BOTH.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT103	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

User: *Please note that the following subset of DE 355 code values are the code values commonly used to convey unit of measurement information by the industry. However, the transaction set will not be rejected for non-compliance if other valid DE 355 code values are used from the full DE 355 code list contained in ASC X12 Version/Release 3030.*

Code	Name
01	Actual Pounds
14	Shot
16	115 Kilogram Drum

Description: A cylindrical container whose contents weigh 115 kilograms when full

18	55 Gallon Drum

Description: A cylindrical container whose volume is equal to 55 gallons

1A	Car Mile

Description: One freight car moving one mile

1I	Fixed Rate

Description: Indicates a predetermined or set rate for usage of a facility

1J	Ton Miles

Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way

23	Grams per Cubic Centimeter

Description: Represents product density

28	Kilograms per Square Meter

Description: Represents product basis weight

2Z	Millivolts

Description: Unit of electrical potential

3C	Manmonth

Description: Measure of work output by a single person during a typical work month

43	Super Bulk Bag

Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form

47	50 Pound Bag

Description: A flexible container whose contents weigh 50 pounds when full

4K	Milliamperes

Description: Unit of electrical current

4L	Megabyte

Description: Unit of computer storage capacity

59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
86	Joules
97	10 Kilogram Drum

Description: A cylindrical container whose contents weigh 10 kilograms when full

A9	Rate

Description: A measure expressed in dollars that will be applicable for a period of time or for a particular event

AC	Acre
AT	Atmosphere

Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch

B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag Bl
	Bar
BL	Block
BN	Bulk
BO	Bottle
BR	Barrel
BU	Bushel
BX	Box
BZ	Million BTU's
C7	Centipoise (CPS)
C8	Cubic Decimeter
CA	Case
CB	Carboy
CC	Cubic Centimeter
CD	Carat
CE	Centigrade
CF	Cubic Feet
CH	Container
CI	Cubic Inches
CM	Centimeter
CN	Can
CO	Cubic Meters (Net)
CR	Cubic Meter
CS	Cassette
CT	Carton
CU	Cup
CW	Hundred Pounds (CWT)
CX	Coil
CY	Cubic Yard
DA	Days
DD	Degree
DF	Dram
DH	Miles
DM	Decimeter
DR	Drum
DZ	Dozen
EA	Each
FA	Fahrenheit
FE	Track Foot

Description: Represents rails, all ties and

Ref	Id	Element Name		Req	Type	Min/Max	Usage
-----	----	--------------		-----	------	---------	-------
		Code	**Name**				

Code	Name
	fittings, and subgrade
FP	Pounds per Sq. Ft.
FR	Feet Per Minute
	Description: Measure of linear speed
FT	Foot
GA	Gallon
GE	Pounds per Gallon
GL	Grams per Liter
GR	Gram
GS	Gross
GX	Grain
	Description: A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram
GY	Gross Yard
H4	Hectoliter
	Description: Metric measure for 100 liters
HA	Hank
	Description: One hundred feet of rope
HF	Hundred Feet
HH	Hundred Cubic Feet
HJ	Horsepower
HO	Hundred Troy Ounces
HR	Hours
HV	Hundred Weight (Short)
HW	Hundred Weight (Long)
HZ	Hertz
IA	Inch Pound
	Description: Unit of torque
IN	Inch
JO	Joint
JR	Jar
JU	Jug
K7	Kilowatt
	Description: Measure of electrical power
KC	Kilograms per Cubic Meter
KE	Keg
KG	Kilogram
KH	Kilowatt Hour
KN	Kilometer
KP	Kilometers Per Hour
KQ	Kilopascal
	Description: Represents pressure
KT	Kit
KV	Kelvin
LB	Pound
LF	Linear Foot
LG	Long Ton
LN	Length
LO	Lot
LS	Lump Sum
LT	Liter
M6	Millibar
ME	Milligram
MI	Metric
MJ	Minutes
ML	Milliliter
MN	Metric Net Ton
MO	Months
MP	Metric Ton

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a copy of which is available at www.pidx.org/procedures, and the PIDX Antitrust Guidelines, a copy of which is available at www.pidx.org/antitrust.

Code	Name
MR	Meter
NB	Barge
NL	Load
NS	Short Ton

Description: Two thousand pounds

NW	Newton

Description: Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram

Code	Name
OT	Overtime Hours
OZ	Ounce - Av
P1	Percent
PA	Pail
PC	Piece
PD	Pad
PF	Pallet (Lift)
PK	Package
PL	Pallet/Unit Load
PR	Pair
PS	Pounds per Sq. Inch
PT	Pint
QT	Quart
R3	Revolutions Per Minute
RD	Rod
RE	Reel
RL	Roll
RM	Ream
RU	Run
S2	Seconds (time)
S4	Square Meters per Second
SB	Square Mile
SF	Square Foot
SH	Sheet
SI	Square Inch
SJ	Sack
SM	Square Meter
SO	Spool
SR	Strip
ST	Set
SV	Skid
TB	Tube
TC	Truckload
TE	Tote
TG	Gross Ton
TH	Thousand
TK	Tank
TL	Thousand Feet (Linear)
TN	Net Ton (2
TO	Troy Ounce
TQ	Thousand Feet
TS	Thousand Square Feet
UN	Unit
WK	Week
YD	Yard
YR	Years

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT104	212	Unit Price	M	R	1/14	Must use

Description: Price per unit of product, service,

Ref	Id	Element Name	Req	Type	Min/Max	Usage

commodity, etc.

User: *Either IT102 or IT104 may be negative, but not BOTH.*

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

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

Code	Name
CB	Buyer's Catalog Number
CG	Commodity Grouping

    Description: Use this code value to denote WORLD CODE (CIMIS Number).

CQ	Equipment Code per COPAS standard

    Description: Refer to Code Source 61 in the Appendix of this publication.

IN	Buyer's Item Number
MG	Manufacturer's Part Number
MN	Model Number
PL	Purchaser's Order Line Number
SN	Serial Number
TP	Product Type Code
VN	Vendor's (Seller's) Item Number

IT107   234   **Product/Service ID**   C   AN   1/30   **Used**

Description: Identifying number for a product or service.

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

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

User: *See IT106 for applicable code values.*

IT109   234   **Product/Service ID**   C   AN   1/30   **Used**

Description: Identifying number for a product or service.

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

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

User: *See IT106 for applicable code values.*

IT111   234   **Product/Service ID**   C   AN   1/30   **Used**

Description: Identifying number for a product or service.

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

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

User: *See IT106 for applicable code values.*

IT113   234   **Product/Service ID**   C   AN   1/30   **Used**

Description: Identifying number for a product or service.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage

User: *See IT106 for applicable code values.*

All valid X12 codes are used.

| IT115 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| IT116 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See IT106 for applicable code values.*

| IT117 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| IT118 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See IT106 for applicable code values.*

| IT119 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| IT120 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See IT106 for applicable code values.*

| IT121 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| IT122 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Not used |

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

All valid X12 codes are used.

| IT123 | 234 | **Product/Service ID** | C | AN | 1/30 | Not used |

Description: Identifying number for a product or service.

| IT124 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Not used |

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

All valid X12 codes are used.

| IT125 | 234 | **Product/Service ID** | C | AN | 1/30 | Not used |

Description: Identifying number for a product or service.

IT3 Additional Item Data

<table>
<tr><td>Pos: 030</td><td>Max: 5</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 5</td></tr>
</table>

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

Syntax:

C0102 -- If IT301 is present, then IT302 is required
R01030405 -- At least one of IT301, IT303, IT304 or IT305 is required.

User:

PIDX uses this segment only to specify additional line item details relating to variations between ordered and shipped quantities. Other information is to be shown in the SLN segment.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT301	382	**Number of Units Shipped**	C	R	1/10	Used
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.				
IT302	355	**Unit or Basis for Measurement Code**	C	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				

User: *Please note that the following subset of DE 355 code values are the code values commonly used to convey unit of measurement information by the industry. However, the transaction set will not be rejected for non-compliance if other valid DE 355 code values are used from the full DE 355 code list contained in ASC X12 Version/Release 3030.*

Code	Name
14	Shot
16	115 Kilogram Drum
	Description: A cylindrical container whose contents weigh 115 kilograms when full
18	55 Gallon Drum
	Description: A cylindrical container whose volume is equal to 55 gallons
1A	Car Mile
	Description: One freight car moving one mile
1I	Fixed Rate
	Description: Indicates a predetermined or set rate for usage of a facility
23	Grams per Cubic Centimeter
	Description: Represents product density
28	Kilograms per Square Meter
	Description: Represents product basis weight
2Z	Millivolts
	Description: Unit of electrical potential
3C	Manmonth
	Description: Measure of work output by a

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
	single person during a typical work month
43	Super Bulk Bag
	Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form
47	50 Pound Bag
	Description: A flexible container whose contents weigh 50 pounds when full
4K	Milliamperes
	Description: Unit of electrical current
4L	Megabyte
	Description: Unit of computer storage capacity
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
86	Joules
97	10 Kilogram Drum
	Description: A cylindrical container whose contents weigh 10 kilograms when full
A9	Rate
	Description: A measure expressed in dollars that will be applicable for a period of time or for a particular event
AC	Acre
AT	Atmosphere
	Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch
B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag BI
	Bar
BL	Block
BN	Bulk
BO	Bottle
BR	Barrel
BU	Bushel
BX	Box
BZ	Million BTU's
C7	Centipoise (CPS)
CA	Case
CB	Carboy
CC	Cubic Centimeter
CD	Carat
CE	Centigrade
CF	Cubic Feet
CH	Container
CI	Cubic Inches

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
CL	Cylinder
CM	Centimeter
CN	Can
CP	Crate
CQ	Cartridge
CR	Cubic Meter
CS	Cassette
CT	Carton
CU	Cup
CW	Hundred Pounds (CWT)
CX	Coil
CY	Cubic Yard
DA	Days
DD	Degree
DF	Dram
DH	Miles
DM	Decimeter
DR	Drum
DZ	Dozen
EA	Each
FA	Fahrenheit
FE	Track Foot

Description: Represents rails, all ties and fittings, and subgrade

Code	Name
FP	Pounds per Sq. Ft.
FR	Feet Per Minute

Description: Measure of linear speed

Code	Name
FT	Foot
GA	Gallon
GE	Pounds per Gallon
GL	Grams per Liter
GR	Gram
GS	Gross
GX	Grain

Description: A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram

Code	Name
GY	Gross Yard
H4	Hectoliter

Description: Metric measure for 100 liters

Code	Name
HA	Hank

Description: One hundred feet of rope

Code	Name
HF	Hundred Feet
HH	Hundred Cubic Feet
HJ	Horsepower
HO	Hundred Troy Ounces
HR	Hours
HV	Hundred Weight (Short)
HW	Hundred Weight (Long)
HZ	Hertz
IA	Inch Pound

Description: Unit of torque

Code	Name
IN	Inch
JO	Joint
JR	Jar
JU	Jug
K7	Kilowatt

Description: Measure of electrical power

Code	Name
KC	Kilograms per Cubic Meter
KE	Keg

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
KG	Kilogram
KH	Kilowatt Hour
KN	Kilometer
KP	Kilometers Per Hour
KQ	Kilopascal
	Description: Represents pressure
KT	Kit
KV	Kelvin
LB	Pound
LF	Linear Foot
LG	Long Ton
LN	Length
LO	Lot
LS	Lump Sum
LT	Liter
M6	Millibar
ME	Milligram
MI	Metric
MJ	Minutes
ML	Milliliter
MM	Millimeter
MO	Months
MP	Metric Ton
MR	Meter
NB	Barge
NL	Load
NS	Short Ton
	Description: Two thousand pounds
OT	Overtime Hours
OZ	Ounce - Av
P1	Percent
PA	Pail
PC	Piece
PD	Pad
PF	Pallet (Lift)
PK	Package
PL	Pallet/Unit Load
PR	Pair
PS	Pounds per Sq. Inch
PT	Pint
QT	Quart
R3	Revolutions Per Minute
RD	Rod
RE	Reel
RL	Roll
RM	Ream
RU	Run
S2	Seconds (time)
S4	Square Meters per Second
SB	Square Mile
SF	Square Foot
SH	Sheet
SI	Square Inch
SJ	Sack
SM	Square Meter
SO	Spool
SR	Strip
ST	Set
SV	Skid

Ref	Id	Element Name	Req	Type	Min/Max	Usage

		Code	Name				
		SY	Square Yard				
		TB	Tube				
		TC	Truckload				
		TE	Tote				
		TG	Gross Ton				
		TH	Thousand				
		TK	Tank				
		TL	Thousand Feet (Linear)				
		TN	Net Ton (2				
		TO	Troy Ounce				
		TQ	Thousand Feet				
		TS	Thousand Square Feet				
		UN	Unit				
		WK	Week				
		YD	Yard				
		YR	Years				

IT303 368 **Shipment/Order Status Code** C ID 2/2 Not 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 X12 codes are used.

IT304 383 **Quantity Difference** C R 1/9 Used

Description: Numeric value of variance between
ordered and shipped quantities.

IT305 371 **Change Reason Code** C ID 2/2 Not used

Description: Code specifying the reason for price or
quantity change.

All valid X12 codes are used.

TXI   Tax Information

To specify tax information.

Syntax:

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

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

User:
The general approach throughout this transaction set is that positive amounts indicates amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice or to the customer's account.

It is the P&MMUG recommendation that the TXI segment be provided at the summary or detail level, BUT NOT BOTH. Many systems cannot currently provide detail level TXI segments.

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
CP	County/Parish Sales Tax
CS	City Sales Tax
CT	County Tax
FT	Federal Excise Tax
GR	Gross Receipts Tax
GS	Goods and Services Tax

   Description: Canadian value-added tax

| LO | Local Tax (Not Sales Tax) |

   Description: Service tax imposed on a local level

LS	State and Local Sales Tax
MT	Metropolitan Transit Tax
SP	State/Provincial Tax

   Description: State tax levied which excludes sales or excise taxes

| ST | State Sales Tax |

User: *The ST qualifier is to be used to denote the Well Service Tax Code which was approved by the ASC X12 Standards Body after the publication of Version/Release 3030 upon which this industry implementation is based. The new code value, WS - Well Service Tax, became available after the publication of Version/Release 3050.*

	VA	Value Added Tax				

TXI02	**782**	**Monetary Amount**	**C**	**R**	**1/15**	**Used**

Description: Monetary amount.

TXI03	**954**	**Percent**	**C**	**R**	**1/10**	**Used**

Description: Percentage expressed as a decimal

TXI06	**441**	**Tax Exempt Code**	**C**	**ID**	**1/1**	**Used**

Description: Code identifying exemption status from sales and use tax.

User: *Use these code values to identify the taxibility of services related to material items.*

For example:
Use code = 1 for Federal Offshore Water Properties.
Use code = 7 when a direct pay authorization is held by purchaser.

Code	Name
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)
7	Direct Pay ID

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

CTP Pricing Information

Pos: 050   **Max: 25**
Detail - Optional
Loop: IT1   Elements: 3

To specify pricing information

Semantics:

Comments:

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP01	**687**	**Class of Trade Code**	**O**	**ID**	**2/2**	**Used**

Description: Code indicating class of trade.

Code	Name
MF	Manufacturer

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

Description: Code identifying pricing specification.

Code	Name
TOT	Total Invoice Amount Due

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP03	**212**	**Unit Price**	**O**	**R**	**1/14**	**Used**

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

MEA Measurements

Pos: 059   Max: 40
Detail - Optional
Loop: IT1   Elements: 10

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

Syntax:

R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
C0304 -- If MEA03 is present, then MEA04 is required
C0504 -- If MEA05 is present, then MEA04 is required
C0604 -- If MEA06 is present, then MEA04 is required
L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

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.

User:
This segment is to be used by CIDX ONLY.

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				

Code	Name
TR	Test Results
	Description: Indicates that the data to follow are the results test measurements

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	738	**Measurement Qualifier**	O	ID	1/3	Used
		Description: Code identifying a specific product or process characteristic to which a measurement applies				

Code	Name
PY	Percent of Water
PSA	Percent Solution Actual

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA03	739	**Measurement Value**	C	R	1/10	Used
		Description: The value of the measurement.				
MEA04	C001	**Composite Unit of Measure**	C	Comp		Must use
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)				
	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				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		been taken				

Code	Name
P1	Percent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	1018	**Exponent**	O	R	1/15	Used

Description: Power to which a unit is raised.

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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	1018	**Exponent**	O	R	1/15	Used

		Description: Power to which a unit is raised.				
	649	**Multiplier** **Description:** Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
MEA05	740	**Range Minimum** **Description:** The value specifying the minimum of the measurement range.	C	R	1/10	Used
MEA06	741	**Range Maximum** **Description:** The value specifying the maximum of the measurement range.	C	R	1/10	Used
MEA07	935	**Measurement Significance Code** **Description:** Code used to benchmark, qualify or further define a measurement value. All valid X12 codes are used.	O	ID	2/2	Used
MEA08	936	**Measurement Attribute Code** **Description:** Code used to express an attribute response when a numeric measurement value cannot be determined. All valid X12 codes are used.	C	ID	2/2	Used
MEA09	752	**Surface/Layer/Position Code** **Description:** Code indicating the product surface, layer or position that is being described. All valid X12 codes are used.	O	ID	2/2	Used
MEA10	1373	**Measurement Method or Device** **Description:** The method or device used to record the measurement All valid X12 codes are used.	C	ID	2/4	Used

PID Product/Item Description

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

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

Syntax:

C0403 -- If PID04 is present, then PID03 is required
R0405 -- At least one of PID04 or PID05 is required.
C0703 -- If PID07 is present, then PID03 is required
C0803 -- If PID08 is present, then PID03 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. A ``N'' indicates it does not apply. Any other value is indeterminate.

Comments:

1. If PID01 = ``F'', then PID05 is used. If PID01 = ``S'', then PID04 is used. If PID01 = ``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.

User:

FOR SERVICE INVOICES ONLY:

If PID segment is used in the header area to describe service(s) in the detail area, the following should be observed:

Use PID01 code F (Free-form) in combination with PID05 "Text Description".

Use the PID segment to describe the product referenced in the IT1 segment only if no mutually understood product identifier (e.g., Model Number) is present in the IT106 - IT121 for the item or additional descriptive information is required.

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.				

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	**352**	**Description**	**C**	**AN**	**1/80**	**Used**
		Description: A free-form description to clarify the related data elements and their content.				
		User: *PID05 should be used to reference line item description.*				

PWK Paperwork

To identify the type and transmission of paperwork or supporting information

Comments:

1. PWK07 may be used to indicate special information to be shown on the specified report.

User:

The PWK segment should be used ONLY if "attached" paperwork is applicable.

If the PWK segment is used at the header level, the referenced paperwork is for the entire document. If PWK is used at the detail level, the referenced paperwork is for that INVOICE LINE ITEM ONLY.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK01	755	**Report Type Code**	M	ID	2/2	**Must use**

Description: Code indicating the title or contents of a document, report or supporting item

Code	Name
12	Mechanical Properties
BM	Bill of Material
CT	Certification
IT	Certified Inspection and Test Results
MS	Material Safety Data Sheet
SI	Seller Inventory Report

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK02	756	**Report Transmission Code**	O	ID	2/2	**Used**

Description: Code defining timing, transmission method or format by which reports are to be sent

User: *In most instances, the preferred report transmission vehicle is via an ASC X12 transaction set, if applicable. However, if a transaction set cannot be used, the report should be transmitted electronically nevertheless.*

Code	Name
AE	Electronically After Shipping
BM	By Mail
EL	Electronically Only
FX	By Fax

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK07	352	**Description**	O	AN	1/80	**Used**

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

REF   Reference Numbers

<table>
<tr><td>Pos: 120</td><td>Max: >1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: IT1</td><td>Elements: 3</td></tr>
</table>

To specify identifying numbers.

Syntax:

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

User:

If a purchase order/release number is not used by a trading partner, then at least one of the following code values must be used: AE, CR, JB, WN, or LU.

The information relayed in the header level REF segment applies to the entire transaction. Use this detail level REF segment to relay information for a particular line item.

PMMUG recommends using a maximum of three (3) qualifiers or less per transaction set.

Element Summary:

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

Description: Code qualifying the Reference Number.

Code	Name
19	Division Identifier
AE	Authorization for Expense (AFE) Number
CA	Cost Allocation Reference
CR	Customer Reference Number

User: *Use this code value to represent the Customer Accounting Reference Number.*

Code	Name
DJ	Delivery Ticket Number
EP	Export Permit Number
IT	Internal Customer Number
JB	Job (Project) Number

Description: Use this code value to denote the Job/Work Order Number.

User: *Use this code value to denote the Job/Work Order Number.*

Code	Name
LU	Location Number

User: *Use this code value to represent either the well or field identification number.*

Code	Name
OI	Original Invoice Number

User: *The original invoice number should be noted in the REF02 if a credit memo is sent with a unique invoice number.*

Code	Name
PA	Price Area Number
WN	Well Number

User: *Use this code value to represent either the well or field name.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	Reference Number	C	AN	1/30	Used

Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

BL	.!!!..	Element Name	Reg	[J:w]	Min/Max	Usage
REF03	352	**Description**	C	AN	1180	**Used**

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

DTM Date/Time Reference

Pos: 150   **Max: 10**
Detail - Optional
Loop: IT1   **Elements: 5**

To specify pertinent dates and times

Syntax:

R0203 -- At least one of DTM02 or DTM03 is required.

User:
The DTM segment is not commonly used at both the header level and detail level. Best practices suggests that the DTM be used at either the header level or detail level, BUT NOT BOTH.

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
011	Shipped
150	Service Period Start
	Description: Date repair order was opened
151	Service Period End
	Description: Date repair order was closed
214	Date of Repair/Service

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	6/6	Used

Description: Date (YYMMDD).

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM03	337	**Time**	C	TM	4/6	Not used

Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM04	623	**Time Code**	O	ID	2/2	Not 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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM05	624	**Century**	O	N0	2/2	Used

Description: The first two characters in the designation of the year (CCYY).

ITA Allowance, Charge or Service

To specify allowances, charges or services

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
C0809 -- If ITA08 is present, then ITA09 is required
C1011 -- If ITA10 is present, then ITA11 is required
C1502 -- If ITA15 is present, then ITA02 is required

Semantics:

1.   ITA12 is the quantity of free goods.

Comments:

1.   If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2.   ITA02 identifies the source of the code value in ITA03 or ITA14.
3.   If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4.   ITA13 is used to clarify the allowance, charge or service.
5.   ITA15 specifies the individual code list of the agency specified in ITA02.
6.   ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

User:

The ITA segment appearing in the summary area applies to all line items on the invoice. The use of this segment in the detail area applies to the specific product or line item (IT1 segment) only. The use of the ITA segment in the summary area is exclusive of the use of the ITA segment in the detail area; the ITA segment in the summary area is not the sum of the ITA segments in the detail area.

For any given Special Charge or Allowance Code (ITA14), ITA14 should appear at either the detail or summary level, BUT NOT BOTH.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA01	**248**	**Allowance or Charge Indicator**	M	ID	1/1	**Must use**

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

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA04	**331**	**Allowance or Charge Method of Handling Code**	M	ID	2/2	**Must use**

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

Code	Name
02	Off Invoice
04	Credit Customer Account
06	Charge to be Paid by Customer

User: *For CIDX use only.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA07	360	**Allowance or Charge Total Amount**	O	N2	1/9	Used

Description: Total dollar amount for the allowance or charge.

ITA08	378	**Allowance/ Charge Percent Qualifier**	O	ID	1/1	Used

Description: Code indicating on what basis allowance or charge percent is calculated.

All valid X12 codes are used.

ITA09	332	**Allowance or Charge Percent**	C	R	1/6	Used

Description: Allowance or charge expressed as a percent.

ITA10	339	**Allowance or Charge Quantity**	O	R	1/10	Used

Description: Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.

ITA11	355	**Unit or Basis for Measurement Code**	C	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

User: *Please note that the following subset of DE 355 code values are the code values commonly used to convey unit of measurement information by the industry. However, the transaction set will not be rejected for non-compliance if other valid DE 355 code values are used from the full DE 355 code list contained in ASC X12 Version/Release 3030.*

Code	Name
14	Shot
16	115 Kilogram Drum

Description: A cylindrical container whose contents weigh 115 kilograms when full

18	55 Gallon Drum

Description: A cylindrical container whose volume is equal to 55 gallons

1A	Car Mile

Description: One freight car moving one mile

1I	Fixed Rate

Description: Indicates a predetermined or set rate for usage of a facility

1J	Ton Miles

Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way

23	Grams per Cubic Centimeter

Description: Represents product density

28	Kilograms per Square Meter

Description: Represents product basis weight

3C	Manmonth

Description: Measure of work output by a single person during a typical work month

43	Super Bulk Bag

Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
	height according to the weight and density of product contained; typically transports dry, loose materials in bulk form
47	50 Pound Bag
	Description: A flexible container whose contents weigh 50 pounds when full
4K	Milliamperes
	Description: Unit of electrical current
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
86	Joules
97	10 Kilogram Drum
	Description: A cylindrical container whose contents weigh 10 kilograms when full
A9	Rate
	Description: A measure expressed in dollars that will be applicable for a period of time or for a particular event
AC	Acre
AT	Atmosphere
	Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch
B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag BI
	Bar
BL	Block
BN	Bulk
BO	Bottle
BR	Barrel
BU	Bushel
BX	Box
BZ	Million BTU's
C7	Centipoise (CPS)
C8	Cubic Decimeter
CA	Case
CB	Carboy
CC	Cubic Centimeter
CD	Carat
CE	Centigrade
CF	Cubic Feet
CG	Card
CH	Container
CI	Cubic Inches
CM	Centimeter
CN	Can
CO	Cubic Meters (Net)
CR	Cubic Meter
CS	Cassette
CT	Carton
CU	Cup

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Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
CW	Hundred Pounds (CWT)
CX	Coil
CY	Cubic Yard
DA	Days
DD	Degree
DF	Dram
DH	Miles
DM	Decimeter
DR	Drum
DZ	Dozen
EA	Each
FA	Fahrenheit
FE	Track Foot
	Description: Represents rails, all ties and fittings, and subgrade
FP	Pounds per Sq. Ft.
FR	Feet Per Minute
	Description: Measure of linear speed
FT	Foot
GA	Gallon
GE	Pounds per Gallon
GL	Grams per Liter
GR	Gram
GS	Gross
GX	Grain
	Description: A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram
GY	Gross Yard
H4	Hectoliter
	Description: Metric measure for 100 liters
HA	Hank
	Description: One hundred feet of rope
HF	Hundred Feet
HH	Hundred Cubic Feet
HJ	Horsepower
HO	Hundred Troy Ounces
HR	Hours
HV	Hundred Weight (Short)
HW	Hundred Weight (Long)
HZ	Hertz
IA	Inch Pound
	Description: Unit of torque
IN	Inch
JO	Joint
JU	Jug
K7	Kilowatt
	Description: Measure of electrical power
KC	Kilograms per Cubic Meter
KE	Keg
KG	Kilogram
KH	Kilowatt Hour
KN	Kilometer
KP	Kilometers Per Hour
KQ	Kilopascal
	Description: Represents pressure
KT	Kit
KV	Kelvin
LB	Pound
LF	Linear Foot

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
LG	Long Ton
LN	Length
LO	Lot
LS	Lump Sum
LT	Liter
M6	Millibar
ME	Milligram
MI	Metric
MJ	Minutes
ML	Milliliter
MN	Metric Net Ton
MO	Months
MP	Metric Ton
MR	Meter
NB	Barge
NL	Load
NS	Short Ton

Description: Two thousand pounds

Code	Name
NW	Newton

Description: Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram

Code	Name
OT	Overtime Hours
OZ	Ounce - Av
P1	Percent
PA	Pail
PC	Piece
PD	Pad
PF	Pallet (Lift)
PL	Pallet/Unit Load
PR	Pair
PS	Pounds per Sq. Inch
PT	Pint
QT	Quart
R3	Revolutions Per Minute
RD	Rod
RE	Reel
RL	Roll
RM	Ream
RU	Run
S2	Seconds (time)
S4	Square Meters per Second
SB	Square Mile
SF	Square Foot
SH	Sheet
SI	Square Inch
SJ	Sack
SM	Square Meter
SO	Spool
SR	Strip
ST	Set
SV	Skid
TB	Tube
TC	Truckload
TE	Tote
TG	Gross Ton
TH	Thousand
TK	Tank

Ref	Id	Element Name		Req	Type	Min/Max	Usage
		Code	**Name**				
		TL	Thousand Feet (Linear)				
		TN	Net Ton (2				
		TO	Troy Ounce Thousand				
		TQ	Feet Thousand Square				
		TS	Feet Unit				
		UN	Week				
		WK	Yard				
		YD	Years				
		YR					
ITA12	380	**Quantity**		O	R	1/15	Used

Description: Numeric value of quantity.

ITA13	352	**Description**		C	AN	1/80	Used

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

User: *If additional information is available on ITA14, ITA13 should contain that description.*

ITA14	150	**Special Charge or Allowance Code**		C	ID	3/3	Must use

Description: Code identifying type of special charge or allowance.

		Code	**Name**
		400	Freight
		405	Fuel Surcharge
		690	Special Handling Service
		DSC	Discount
		EEH	Engineering Charge
		FFR	Flat Rate
		IIA	Invoice Adjustment
		INC	Insurance Surcharge
		LAE	One-Time License Fee
		MSG	Miscellaneous Charge
		PAB	Postage Charge
		RAK	Royalties
		TRC	Trailer Rental Charge
		TTB	Transportation-Direct Billing
		TTV	Transportation - Vendor Provided

ITA15	822	**Source Subqualifier**		O	AN	1/15	Not used

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

ITA16	662	**Price Relationship Code**		O	ID	1/1	Used

Description: Code indicating the relationship of the price or amount to the associated segment.

All valid X12 codes are used.

SLN Subline Item Detail

Pos: 200   Max: 1
Detail - Optional
Loop: SLN   Elements: 24

To specify product subline detail item data

Syntax:

C0706 -- If SLN07 is present, then SLN06 is required
C0806 -- If SLN08 is present, then SLN06 is required
C0910 -- If SLN09 is present, then SLN10 is required
C1112 -- If SLN11 is present, then SLN12 is required
C1314 -- If SLN13 is present, then SLN14 is required
C1516 -- If SLN15 is present, then SLN16 is required
C1718 -- If SLN17 is present, then SLN18 is required
C1920 -- If SLN19 is present, then SLN20 is required
C2122 -- If SLN21 is present, then SLN22 is required
C2324 -- If SLN23 is present, then SLN24 is required
C2526 -- If SLN25 is present, then SLN26 is required
C2728 -- If SLN27 is present, then SLN28 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.

Comments:

1. See the Data Dictionary for a complete list of ID's.
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 (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

User:

The general approach throughout this transaction set is that positive amount indicates amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice or to the customer's account.

The SLN segment is to be used for communication of additional information to support quantity and unit price in the IT1 segment.

Either SLN04 (Quantity) or SLN06 (Unit Price) may be negative, BUT NOT BOTH.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	**350**	**Assigned Identification**	**M**	**AN**	**1/11**	**Must use**

Description: Alphanumeric characters assigned for differentiation within a transaction set.

User: *SLN01 must be the same assigned identification number given in IT101.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN02	350	**Assigned Identification**	O	AN	1/11	**Not used**

Description: Alphanumeric characters assigned for differentiation within a transaction set.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN03	661	**Configuration Code**	M	ID	1/1	**Must use**

Description: Code indicating the relationship of the subline item to the baseline item.

Code	Name
I	Included

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN04	380	**Quantity**	M	R	1/15	**Must use**

Description: Numeric value of quantity.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN05	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

User: *Please note that the following subset of DE 355 code values are the code values commonly used to convey unit of measurement information by the industry. However, the transaction set will not be rejected for non-compliance if other valid DE 355 code values are used from the full DE 355 code list contained in ASC X12 Version/Release 3030.*

Code	Name
14	Shot
16	115 Kilogram Drum
	Description: A cylindrical container whose contents weigh 115 kilograms when full
18	55 Gallon Drum
	Description: A cylindrical container whose volume is equal to 55 gallons
1A	Car Mile
	Description: One freight car moving one mile
1I	Fixed Rate
	Description: Indicates a predetermined or set rate for usage of a facility
1J	Ton Miles
	Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way
23	Grams per Cubic Centimeter
	Description: Represents product density
28	Kilograms per Square Meter
	Description: Represents product basis weight
2Z	Millivolts
	Description: Unit of electrical potential
3C	Manmonth
	Description: Measure of work output by a single person during a typical work month
43	Super Bulk Bag
	Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose

Ref	Id	Element Name		Req	Type	Min/Max	Usage
		Code	**Name**				
			materials in bulk form				
		47	50 Pound Bag				
			Description: A flexible container whose contents weigh 50 pounds when full				
		4G	Microliter				
			Description: 1/1,000,000 liter				
		4K	Milliamperes				
			Description: Unit of electrical current				
		4L	Megabyte				
			Description: Unit of computer storage capacity				
		59	Parts Per Million				
		68	Ampere				
		70	Volt				
		84	Kilo Pounds Per Square Inch (KSI)				
		85	Foot Pounds				
		97	10 Kilogram Drum				
			Description: A cylindrical container whose contents weigh 10 kilograms when full				
		AC	Acre				
		AE	Amperes per Meter				
		AT	Atmosphere				
			Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch				
		B5	Billet				
		BA	Bale				
		BB	Base Box				
		BC	Bucket				
		BD	Bundle				
		BE	Beam				
		BF	Board Feet				
		BG	Bag				
		BI	Bar				
		BL	Block				
		BX	Box				
		BZ	Million BTU's				
		C7	Centipoise (CPS)				
		C8	Cubic Decimeter				
		CA	Case				
		CB	Carboy				
		CC	Cubic Centimeter				
		CD	Carat				
		CE	Centigrade				
		CF	Cubic Feet				
		CH	Container				
		CI	Cubic Inches				
		CM	Centimeter				
		CN	Can				
		CO	Cubic Meters (Net)				
		CR	Cubic Meter				
		CS	Cassette				
		CT	Carton				
		CU	Cup				
		CW	Hundred Pounds (CWT)				
		CX	Coil				
		CY	Cubic Yard				
		DA	Days				
		DD	Degree				

Ref	Id	Element Name		Req	Type	Min/Max	Usage

Code	Name
DF	Dram
DH	Miles
DM	Decimeter
DR	Drum
DZ	Dozen
EA	Each
FA	Fahrenheit
FE	Track Foot
	Description: Represents rails, all ties and fittings, and subgrade
FP	Pounds per Sq. Ft.
FR	Feet Per Minute
	Description: Measure of linear speed
FT	Foot
GA	Gallon
GE	Pounds per Gallon
GL	Grams per Liter
GR	Gram
GS	Gross
GX	Grain
	Description: A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram
GY	Gross Yard
H4	Hectoliter
	Description: Metric measure for 100 liters
HA	Hank
	Description: One hundred feet of rope
HF	Hundred Feet
HH	Hundred Cubic Feet
HJ	Horsepower
HO	Hundred Troy Ounces
HR	Hours
HV	Hundred Weight (Short)
HW	Hundred Weight (Long)
HZ	Hertz
IA	Inch Pound
	Description: Unit of torque
IN	Inch
JO	Joint
JR	Jar
JU	Jug
K7	Kilowatt
	Description: Measure of electrical power
KC	Kilograms per Cubic Meter
KE	Keg
KG	Kilogram
KH	Kilowatt Hour
KN	Kilometer
KP	Kilometers Per Hour
KQ	Kilopascal
	Description: Represents pressure
KT	Kit
KV	Kelvin
LB	Pound
LF	Linear Foot
LG	Long Ton
LN	Length
LO	Lot
LS	Lump Sum

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Code	Name
LT	Liter
M6	Millibar
ME	Milligram
MI	Metric
MJ	Minutes
ML	Milliliter
MN	Metric Net Ton
MO	Months
MP	Metric Ton
MR	Meter
NB	Barge
NL	Load
NW	Newton
	Description: Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram
OT	Overtime Hours
OZ	Ounce - Av
P1	Percent
PA	Pail
PC	Piece
PD	Pad
PF	Pallet (Lift)
PK	Package
PL	Pallet/Unit Load
PS	Pounds per Sq. Inch
PT	Pint
QT	Quart
R3	Revolutions Per Minute
RD	Rod
RE	Reel
RL	Roll
RM	Ream
RU	Run
S2	Seconds (time)
S4	Square Meters per Second
SB	Square Mile
SF	Square Foot
SH	Sheet
SI	Square Inch
SJ	Sack
SM	Square Meter
SO	Spool
SR	Strip
ST	Set
SV	Skid
TB	Tube
TC	Truckload
TE	Tote
TG	Gross Ton
TH	Thousand
TK	Tank
TL	Thousand Feet (Linear)
TO	Troy Ounce
TQ	Thousand Feet
TS	Thousand Square Feet
UN	Unit
YD	Yard

Ref	Id	Element Name		Req	Type	Min/Max	Usage
		Code	**Name**				
		YR	Years				
SLN06	212	**Unit Price**		C	R	1/14	**Used**
		Description: Price per unit of product, service, commodity, etc.					
SLN07	639	**Basis of Unit Price Code**		O	ID	2/2	**Not used**
		Description: Code identifying the type of unit price for an item.					
		All valid X12 codes are used.					
SLN08	662	**Price Relationship Code**		O	ID	1/1	**Not used**
		Description: Code indicating the relationship of the price or amount to the associated segment.					
		All valid X12 codes are used.					
SLN09	235	**Product/Service ID Qualifier**		O	ID	2/2	**Used**
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).					

	Code	**Name**
	CB	Buyer's Catalog Number
	CG	Commodity Grouping
		Description: Use this code value to denote WORLD CODE (CIMIS Number).
	CQ	Equipment Code per COPAS standard
		Description: Refer to Code Source 61 in the Appendix.
	IN	Buyer's Item Number
	MG	Manufacturer's Part Number
	MN	Model Number
	SN	Serial Number
	TP	Product Type Code
	VN	Vendor's (Seller's) Item Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN10	234	**Product/Service ID**	C	AN	1/30	**Used**
		Description: Identifying number for a product or service.				
SLN11	235	**Product/Service ID Qualifier**	O	ID	2/2	**Used**
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		User: *See SLN09 for applicable code values.*				
SLN12	234	**Product/Service ID**	C	AN	1/30	**Used**
		Description: Identifying number for a product or service.				
SLN13	235	**Product/Service ID Qualifier**	O	ID	2/2	**Used**
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		User: *See SLN09 for applicable code values.*				
SLN14	234	**Product/Service ID**	C	AN	1/30	**Used**
		Description: Identifying number for a product or service.				
SLN15	235	**Product/Service ID Qualifier**	O	ID	2/2	**Used**

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

User: *See SLN09 for applicalbe code values.*

| SLN16 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| SLN17 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See SLN09 for applicalbe code values.*

| SLN18 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| SLN19 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See SLN09 for applicalbe code values.*

| SLN20 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| SLN21 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See SLN09 for applicalbe code values.*

| SLN22 | 234 | **Product/Service ID** | C | AN | 1/30 | Used |

Description: Identifying number for a product or service.

| SLN23 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 | Used |

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

User: *See SLN09 for applicalbe code values.*

| SLN24 | 234 | **Product/Service ID** | C | AN | 1/30 | Not used |

Description: Identifying number for a product or service.

PID Product/Item Description

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

Syntax:

C0403 -- If PID04 is present, then PID03 is required
R0405 -- At least one of PID04 or PID05 is required.
C0703 -- If PID07 is present, then PID03 is required
C0803 -- If PID08 is present, then PID03 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. A ``N'' indicates it does not apply. Any other value is indeterminate.

Comments:

1. If PID01 = ``F'', then PID05 is used. If PID01 = ``S'', then PID04 is used. If PID01 = ``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.

User:
Use of this segment is limited to SERVICE INVOICES ONLY.

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.				

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	**352**	**Description**	**C**	**AN**	**1/80**	**Used**
		Description: A free-form description to clarify the related data elements and their content.				
		User: *Use PID05 to describe the subline item.*				

TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

Comments:

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

User:
The general approach throughout this transaction set is that positive amounts indicates amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice or to the customer's account.

TDS02 - TDS04 are required if discount information is sent in ITD03 - ITD05.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	361	**Total Invoice Amount**	M	N2	1/10	**Must use**

Description: Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

User: *The Total Invoice Amount (TDS01) is the sum of all amounts relayed in the detail area (including charges/allowances in ITA segments and taxes in TXI segments) plus all charges/allowances and taxes reflected in the ITA and TXI segments in the summary area.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS02	390	**Amount Subject to Terms Discount**	C	N2	1/10	Used

Description: Amount upon which the terms discount amount is calculated.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS03	391	**Discounted Amount Due**	O	N2	1/10	Used

Description: Amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount.)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS04	362	**Terms Discount Amount**	O	N2	1/10	Used

Description: Total amount of terms discount.

TXI   Tax Information

Pos: 020		**Max: 10**
	Summary - Optional	
Loop: N/A		**Elements: 4**

To specify tax information.

Syntax:

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

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

User:

The general approach throughout this transaction set is that positive amount indicates amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice or to the customer's account.

P&MMUG recommends that the TXI segment be used at the summary or detail level, BUT NOT BOTH. Many systems cannot currently provide detail level TXI segments.

This segment not previously used by CIDX.

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
CP	County/Parish Sales Tax
CS	City Sales Tax
CT	County Tax
FT	Federal Excise Tax
GR	Gross Receipts Tax
GS	Goods and Services Tax
	User: *Canadian value-added tax*
LO	Local Tax (Not Sales Tax)
	User: *Service tax imposed on a local level*
LS	State and Local Sales Tax
LT	Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)
MT	Metropolitan Transit Tax
SP	State/Provincial Tax
	User: *State tax levied which excludes sales or excise taxes*
ST	State Sales Tax
	Description: .
	User: *The ST qualifier is to be used to denote the Well Service Tax Code which was*

approved by the ASC X12 Standards Body after the publication of Version/Release 3030 upon which this industry implementation is based. The new code value, WS - Well Service Tax, became available after the publication of Version/Release 3050.

	TX	All Taxes

User: *Total of all applicable taxes*

	VA	Value Added Tax
	ZZ	Mutually Defined

TXI02	**782**	**Monetary Amount**	**C**	**R**	**1/15**	**Used**

Description: Monetary amount.

TXI03	**954**	**Percent**	**C**	**R**	**1/10**	**Used**

Description: Percentage expressed as a decimal

TXI06	**441**	**Tax Exempt Code**	**C**	**ID**	**1/1**	**Used**

Description: Code identifying exemption status from sales and use tax.

Code	Name
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)
7	Direct Pay ID

Description: Use these code values to identify the taxibility of services related to material items.

For example:
Use code = 1 for Federal Offshore Water Properties.
Use code = 7 when a direct pay authorization is held by purchaser.

CAD Carrier Detail

Pos: 030   Max: 1
Summary - Optional
Loop: N/A   Elements: 9

To specify transportation details for the transaction

Syntax:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD01	91	**Transportation Method/Type Code**	O	ID	1/2	Used

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

Internal: *Are both code values J and M needed?*

Code	Name
A	Air
D	Parcel Post
E	Expedited Truck
H	Customer Pickup
L	Contract Carrier
M	Motor (Common Carrier)
R	Rail
S	Ocean
T	Best Way (Shippers Option)
U	Private Parcel Service
AE	Air Express
SR	Supplier Truck

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD02	206	**Equipment Initial**	O	AN	1/4	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD03	207	**Equipment Number**	O	AN	1/10	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD04	140	**Standard Carrier Alpha Code**	C	ID	2/4	Used

Description: Standard Carrier Alpha Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD05	387	**Routing**	C	AN	1/35	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD06	368	**Shipment/Order Status Code**	O	ID	2/2	Not 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 X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CAD07	128	**Reference Number Qualifier**	O	ID	2/2	Used

This document was prepared and is maintained in accordance with the PIDX Procedures for Standards Development,
a copy of which is available at www.pidx.org/procedures, and the PIDX Antitrust Guidelines, a copy of which is available at www.pidx.org/antitrust.

Description: Code qualifying the Reference Number.

Code	Name
08	Carrier Assigned Package Identification Number

Description: A reference number assigned by a carrier to uniquely identify a single package

2I	Tracking Number
BM	Bill of Lading Number
DJ	Delivery Ticket Number
FR	Freight Bill Number
WY	Rail Waybill Number

CAD08	**127**	**Reference Number**	C	AN	1/30	**Used**

Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

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

Description: Code defining service

All valid X12 codes are used.

ITA   Allowance, Charge or Service

To specify allowances, charges or services

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
C0809 -- If ITA08 is present, then ITA09 is required
C1011 -- If ITA10 is present, then ITA11 is required
C1502 -- If ITA15 is present, then ITA02 is required

Semantics:

1. ITA12 is the quantity of free goods.

Comments:

1. If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2. ITA02 identifies the source of the code value in ITA03 or ITA14.
3. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4. ITA13 is used to clarify the allowance, charge or service.
5. ITA15 specifies the individual code list of the agency specified in ITA02.
6. ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

User:

The ITA segment appearing in the summary area applies to all line items on the invoice. The use of this segment in the detail area applies to the specific product or line item (IT1 segment) only. The use of the ITA segment in the summary area is exclusive of the use of the ITA segment in the detail area; the ITA segment in the summary area is not the sum of the ITA segments in the detail area.

The general approach throughout this transaction set is that positive amounts indicates amounts to be paid by the customer (receiver) to the vendor (sender). Negative numbers will represent amounts credited against the invoice to the customer's account.

For any given Special Charge or Allowance Code (ITA14), ITA14 should appear at either the detail or summary level, BUT NOT BOTH.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA01	248	**Allowance or Charge Indicator**	M	ID	1/1	**Must use**
		Description: Code which indicates an allowance or charge for the service specified.				

Code	Name
A	Allowance
C	Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA04	331	**Allowance or Charge Method of Handling Code**	M	ID	2/2	**Must use**
		Description: Code indicating method of handling for an allowance or charge.				

Code	Name

Ref	Id	Element Name		Req	Type	Min/Max	Usage
		Code	**Name**				
		02	Off Invoice				
		06	Charge to be Paid by Customer				
ITA07	360	**Allowance or Charge Total Amount**		O	N2	1/9	Used
		Description: Total dollar amount for the allowance or charge.					
ITA08	378	**Allowance/ Charge Percent Qualifier**		O	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is calculated. All valid X12 codes are used.					
ITA09	332	**Allowance or Charge Percent**		C	R	1/6	Used
		Description: Allowance or charge expressed as a percent.					
ITA10	339	**Allowance or Charge Quantity**		O	R	1/10	Used
		Description: Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.					
ITA11	355	**Unit or Basis for Measurement Code**		C	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 X12 codes are used.					
ITA12	380	**Quantity**		O	R	1/15	Used
		Description: Numeric value of quantity.					
ITA13	352	**Description**		C	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.					
		User: *If additional information is available on ITA14, ITA13 should contain that description.*					
ITA14	150	**Special Charge or Allowance Code**		C	ID	3/3	Used
		Description: Code identifying type of special charge or allowance.					

		Code	**Name**
		400	Freight
		405	Fuel Surcharge
		690	Special Handling Service
		DSC	Discount
		INC	Insurance Surcharge
		LAE	One-Time License Fee
		RAK	Royalties

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITA15	822	**Source Subqualifier**	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				
ITA16	662	**Price Relationship Code**	O	ID	1/1	Used
		Description: Code indicating the relationship of the price or amount to the associated segment. All valid X12 codes are used.				

CTT Transaction Totals

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

Syntax:

C0304 -- If CTT03 is present, then CTT04 is required
C0506 -- If CTT05 is present, then CTT06 is required

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	**Must use**

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

User: *The total number of IT1 segments present in the transaction set.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT02	347	**Hash Total**	O	R	1/10	**Not used**

Description: Sum 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.(See Figures Appendix for an example detailing the use of this data element.)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT03	81	**Weight**	O	R	1/10	**Not used**

Description: Numeric value of weight.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT04	355	**Unit or Basis for Measurement Code**	C	ID	2/2	**Not used**

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

All valid X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT05	183	**Volume**	O	R	1/8	**Not used**

Description: Value of volumetric measure.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT06	355	**Unit or Basis for Measurement Code**	C	ID	2/2	**Not used**

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

All valid X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT07	352	**Description**	O	AN	1/80	**Not used**

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

SE Transaction Set Trailer

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

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	**96**	**Number of Included Segments**	**M**	**N0**	**1/10**	**Must use**
		Description: Total number of segments included in a transaction set including ST and SE segments.				
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				
		User: *This must be the same number as is in the ST segment (ST02) for the transaction set.*				