

# 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	12			Used
<b>LOOP ID - N1</b>					<b>200</b>		
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	>1			Used
140	DTM	Date/Time Reference	O	10			Used
150	FOB	F.O.B. Related Instructions	O	1			Used
160	PID	Product/Item Description	O	200			Used
180	PWK	Paperwork	O	25			Not used

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - IT1</b>					<b>200000</b>		
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
<b>LOOP ID - PID</b>					<b>1000</b>		
060	PID	Product/Item Description	O	1			Used
080	PWK	Paperwork	O	25			Not used
120	REF	Reference Identification	O	>1			Used
150	DTM	Date/Time Reference	O	10			Used
<b>LOOP ID - SAC</b>					<b>25</b>		
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
190	TXI	Tax Information	O	10			Used
<b>LOOP ID - SLN</b>					<b><u>1000</u></b>		
200	SLN	Subline Item Detail	O	1			Used
220	PID	Product/Item Description	O	1000			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use
020	TXI	Tax Information	O	10			Used
030	CAD	Carrier Detail	O	1			Used
<b>LOOP ID - SAC</b>					<b><u>25</u></b>		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
050	TXI	Tax Information	O	10			Used
070	CTT	Transaction Totals	O	1		N3/070	Used
080	SE	Transaction Set Trailer	M	1			Must use

# ST Transaction Set Header

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

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

## Semantics:

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Must use				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>810</td> <td>Invoice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	810	Invoice				
<u>Code</u>	<u>Name</u>									
810	Invoice									
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>User:</b> <i>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.</i>	M	AN	4/9	Must use				

# BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 10

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

## Semantics:

- BIG01 is the invoice issue date.
- BIG03 is the date assigned by the purchaser to purchase order.

## Comments:

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	<b>Invoice Number</b> <b>Description:</b> Identifying number assigned by issuer <b>User:</b> Use this data field to relay the seller's assigned number.	M	AN	1/22	Must use
BIG03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD <b>User:</b> This date must be the same date that appears on the paper purchase order.	O	DT	8/8	Used
BIG04	324	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser <b>User:</b> Use this data field to relay the buyer's assigned number which may also be a "blanket release"/contract purchase order number.	O	AN	1/22	Used
BIG05	328	<b>Release Number</b> <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction <b>User:</b> The release number is the number identifying a release against a previously placed purchase order or blanket order.	O	AN	1/30	Used
BIG06	327	<b>Change Order Sequence Number</b> <b>Description:</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Not used
BIG07	640	<b>Transaction Type Code</b> <b>Description:</b> Code specifying the type of transaction	O	ID	2/2	Used
		<u>Code</u> CR		<u>Name</u> Credit Memo		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		DR      Debit Memo				
		PR      Product (or Service)				
<b>BIG08</b>	<b>353</b>	<b>Transaction Set Purpose Code</b>	<b>O</b>	<b>ID</b>	<b>2/2</b>	<b>Not used</b>
		<b>Description:</b> Code identifying purpose of transaction set				
		All valid X12 codes are used.				
<b>BIG09</b>	<b>306</b>	<b>Action Code</b>	<b>O</b>	<b>ID</b>	<b>1/2</b>	<b>Not used</b>
		<b>Description:</b> Code indicating type of action				
		All valid X12 codes are used.				
<b>BIG10</b>	<b>76</b>	<b>Invoice Number</b>	<b>O</b>	<b>AN</b>	<b>1/22</b>	<b>Not used</b>
		<b>Description:</b> Identifying number assigned by issuer				

# 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  
 L101112 -- If CUR10 is present, then at least one of CUR11 or CUR12 is required.  
 C1110 -- If CUR11 is present, then CUR10 is required  
 C1210 -- If CUR12 is present, then CUR10 is required  
 L131415 -- If CUR13 is present, then at least one of CUR14 or CUR15 is required.  
 C1413 -- If CUR14 is present, then CUR13 is required  
 C1513 -- If CUR15 is present, then CUR13 is required  
 L161718 -- If CUR16 is present, then at least one of CUR17 or CUR18 is required.  
 C1716 -- If CUR17 is present, then CUR16 is required  
 C1816 -- If CUR18 is present, then CUR16 is required  
 L192021 -- If CUR19 is present, then at least one of CUR20 or CUR21 is required.  
 C2019 -- If CUR20 is present, then CUR19 is required  
 C2119 -- If CUR21 is present, then CUR19 is required

## Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

## User:

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
CUR01	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BY</td> <td>Buying Party (Purchaser)</td> </tr> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BY	Buying Party (Purchaser)	SE	Selling Party				
<u>Code</u>	<u>Name</u>											
BY	Buying Party (Purchaser)											
SE	Selling Party											
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified <b>User:</b> Refer to Code Source 5 in Appendix A for applicable code values.	M	ID	3/3	Must use						
CUR03	280	<b>Exchange Rate</b> <b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O	R	4/10	Used						
CUR04	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Not used						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR05	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Not used
CUR06	669	<b>Currency Market/Exchange Code</b> <b>Description:</b> Code identifying the market upon which the currency exchange rate is based All valid X12 codes are used.	O	ID	3/3	Not used
CUR07	374	<b>Date/Time Qualifier</b> <b>Description:</b> 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	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Not used
CUR09	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O	TM	4/8	Not used
CUR10	374	<b>Date/Time Qualifier</b> <b>Description:</b> 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	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Not used
CUR12	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not used
CUR13	374	<b>Date/Time Qualifier</b> <b>Description:</b> 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	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Not used
CUR15	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not used
CUR16	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	C	ID	3/3	Not used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR17	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Not used
CUR18	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not used
CUR19	374	<b>Date/Time Qualifier</b> <b>Description:</b> 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	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Not used
CUR21	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not used

# REF Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 3

To specify identifying information

## Syntax:

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

## Semantics:

### 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.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																								
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use																								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>19</td> <td>Division Identifier</td> </tr> <tr> <td>AE</td> <td>Authorization for Expense (AFE) Number</td> </tr> <tr> <td>CA</td> <td>Cost Allocation Reference</td> </tr> <tr> <td>CR</td> <td>Customer Reference Number</td> </tr> <tr> <td>DJ</td> <td>Delivery Ticket Number</td> </tr> <tr> <td>IT</td> <td>Internal Customer Number</td> </tr> <tr> <td>JB</td> <td>Job (Project) Number</td> </tr> <tr> <td>LU</td> <td>Location Number</td> </tr> <tr> <td>OI</td> <td>Original Invoice Number</td> </tr> <tr> <td>PA</td> <td>Price Area Number</td> </tr> <tr> <td>WN</td> <td>Well Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	19	Division Identifier	AE	Authorization for Expense (AFE) Number	CA	Cost Allocation Reference	CR	Customer Reference Number	DJ	Delivery Ticket Number	IT	Internal Customer Number	JB	Job (Project) Number	LU	Location Number	OI	Original Invoice Number	PA	Price Area Number	WN	Well Number				
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LU	Location Number																													
OI	Original Invoice Number																													
PA	Price Area Number																													
WN	Well Number																													
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used																								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used																								

# 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:

- 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>16</td> <td>Plant</td> </tr> <tr> <td>BS</td> <td>Bill and Ship To</td> </tr> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>RE</td> <td>Party to receive commercial invoice remittance</td> </tr> <tr> <td>SE</td> <td>Selling Party</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	16	Plant	BS	Bill and Ship To	BT	Bill-to-Party	RE	Party to receive commercial invoice remittance	SE	Selling Party	SF	Ship From	ST	Ship To				
<u>Code</u>	<u>Name</u>																					
16	Plant																					
BS	Bill and Ship To																					
BT	Bill-to-Party																					
RE	Party to receive commercial invoice remittance																					
SE	Selling Party																					
SF	Ship From																					
ST	Ship To																					
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Used																
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number,Dun &amp; Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td>91</td> <td>Assigned by Seller or Seller's Agent</td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number,Dun & Bradstreet	9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix	91	Assigned by Seller or Seller's Agent	92	Assigned by Buyer or Buyer's Agent										
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92	Assigned by Buyer or Buyer's Agent																					
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Used																

# 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:

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

# N3 Address Information

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

To specify the location of the named party

## Element Summary:

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

# N4 Geographic Location

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

To specify the geographic place of the named party

## Syntax:

C0605 -- If N406 is present, then N405 is required

## Comments:

- N402 is required only if city name (N401) is in the U.S. or Canada.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency <b>User:</b> Refer to PIDX Bulletin D12A for applicable code values.  Also refer to Code Source 22 in Appendix A for other applicable code values.	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) <b>User:</b> Refer to Code Source 51 in Appendix A for applicable 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	O	ID	3/15	Used
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country <b>User:</b> 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.	O	ID	2/3	Used

# PER Administrative Communications Contact

Pos: 120	Max: 3
Heading - Optional	
Loop: N1	Elements: 6

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.

## Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage										
PER01	366	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Must use										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>AN</td> <td>Attention-to Party</td> </tr> <tr> <td>IC</td> <td>Information Contact</td> </tr> <tr> <td>OC</td> <td>Order Contact</td> </tr> <tr> <td>SR</td> <td>Sales Representative or Department</td> </tr> </tbody> </table>	Code	Name	AN	Attention-to Party	IC	Information Contact	OC	Order Contact	SR	Sales Representative or Department				
Code	Name															
AN	Attention-to Party															
IC	Information Contact															
OC	Order Contact															
SR	Sales Representative or Department															
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used										
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number	C	ID	2/2	Used										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ED</td> <td>Electronic Data Interchange Access Number <b>User:</b> When the code value ED is used; the communication number will designate a route code/ID number.</td> </tr> <tr> <td>EM</td> <td>Electronic Mail</td> </tr> <tr> <td>FX</td> <td>Facsimile</td> </tr> <tr> <td>TE</td> <td>Telephone</td> </tr> </tbody> </table>	Code	Name	ED	Electronic Data Interchange Access Number <b>User:</b> When the code value ED is used; the communication number will designate a route code/ID number.	EM	Electronic Mail	FX	Facsimile	TE	Telephone				
Code	Name															
ED	Electronic Data Interchange Access Number <b>User:</b> When the code value ED is used; the communication number will designate a route code/ID number.															
EM	Electronic Mail															
FX	Facsimile															
TE	Telephone															
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	C	AN	1/80	Used										
PER05	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>User:</b> See PER03 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used										
PER06	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	C	AN	1/80	Used										

# ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 12

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

## 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.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
ITD01	336	<b>Terms Type Code</b> <b>Description:</b> Code identifying type of payment terms	O	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Basic</td> </tr> <tr> <td>08</td> <td>Basic Discount Offered</td> </tr> <tr> <td>14</td> <td>Previously agreed upon</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	01	Basic	08	Basic Discount Offered	14	Previously agreed upon				
<u>Code</u>	<u>Name</u>													
01	Basic													
08	Basic Discount Offered													
14	Previously agreed upon													
ITD02	333	<b>Terms Basis Date Code</b> <b>Description:</b> Code identifying the beginning of the terms period	O	ID	1/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Invoice Date</td> </tr> <tr> <td>5</td> <td>Invoice Receipt Date</td> </tr> <tr> <td>8</td> <td>Invoice Transmission Date</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	3	Invoice Date	5	Invoice Receipt Date	8	Invoice Transmission Date				
<u>Code</u>	<u>Name</u>													
3	Invoice Date													
5	Invoice Receipt Date													
8	Invoice Transmission Date													
ITD03	338	<b>Terms Discount Percent</b> <b>Description:</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used								
ITD04	370	<b>Terms Discount Due Date</b> <b>Description:</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD	C	DT	8/8	Used								
ITD05	351	<b>Terms Discount Days Due</b> <b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
<b>User:</b> <i>If ITD03 is sent, ITD04 and ITD05 are required. ITD03 must be greater than zero (0).</i>						
ITD06	446	<b>Terms Net Due Date</b> <b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	<b>Terms Net Days</b> <b>Description:</b> Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD08	362	<b>Terms Discount Amount</b> <b>Description:</b> Total amount of terms discount	O	N2	1/10	Used
ITD09	388	<b>Terms Deferred Due Date</b> <b>Description:</b> Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	O	DT	8/8	Not used
ITD10	389	<b>Deferred Amount Due</b> <b>Description:</b> Deferred amount due for payment	C	N2	1/10	Not used
ITD11	342	<b>Percent of Invoice Payable</b> <b>Description:</b> Amount of invoice payable expressed in percent	C	R	1/5	Not used
ITD12	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

# DTM Date/Time Reference

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

To specify pertinent dates and times

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> <tr> <td>150</td> <td>Service Period Start</td> </tr> <tr> <td>151</td> <td>Service Period End</td> </tr> <tr> <td>214</td> <td>Date of Repair/Service</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped	150	Service Period Start	151	Service Period End	214	Date of Repair/Service				
<u>Code</u>	<u>Name</u>															
011	Shipped															
150	Service Period Start															
151	Service Period End															
214	Date of Repair/Service															
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Used										

# FOB F.O.B. Related Instructions

Pos: 150	Max: 1
Heading - Optional	
Loop: N/A	Elements: 6

To specify transportation instructions relating to shipment

## Syntax:

C0302 -- If FOB03 is present, then FOB02 is required

C0405 -- If FOB04 is present, then FOB05 is required

## Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
FOB01	146	<b>Shipment Method of Payment</b>	M	ID	2/2	Must use																										
		<b>Description:</b> Code identifying payment terms for transportation charges																														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>CC</td><td>Collect</td></tr> <tr><td>CD</td><td>Collect on Delivery</td></tr> <tr><td>CF</td><td>Collect, Freight Credited Back to Customer</td></tr> <tr><td>DE</td><td>Per Contract</td></tr> <tr><td>DF</td><td>Defined by Buyer and Seller</td></tr> <tr><td>FO</td><td>FOB Port of Call</td></tr> <tr><td>NC</td><td>Service Freight, No Charge</td></tr> <tr><td>PB</td><td>Customer Pick-up/Backhaul</td></tr> <tr><td>PC</td><td>Prepaid but Charged to Customer</td></tr> <tr><td>PP</td><td>Prepaid (by Seller)</td></tr> <tr><td>PU</td><td>Pickup</td></tr> <tr><td>TP</td><td>Third Party Pay</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CC	Collect	CD	Collect on Delivery	CF	Collect, Freight Credited Back to Customer	DE	Per Contract	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				
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PP	Prepaid (by Seller)																															
PU	Pickup																															
TP	Third Party Pay																															
FOB02	309	<b>Location Qualifier</b>	C	ID	1/2	Used																										
		<b>Description:</b> Code identifying type of location																														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>AC</td><td>City and State</td></tr> <tr><td>CC</td><td>Country</td></tr> <tr><td>CY</td><td>County/Parish</td></tr> <tr><td>DE</td><td>Destination (Shipping)</td></tr> <tr><td>FE</td><td>Freight Equalization Point</td></tr> <tr><td>OA</td><td>Origin (After Loading on Equipment)</td></tr> <tr><td>OR</td><td>Origin (Shipping Point)</td></tr> <tr><td>OV</td><td>On Vessel (Free On Board [FOB] point)</td></tr> <tr><td>PL</td><td>Plant</td></tr> <tr><td>WH</td><td>Warehouse</td></tr> <tr><td>ZZ</td><td>Mutually Defined</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	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	ZZ	Mutually Defined						
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ZZ	Mutually Defined																															
FOB03	352	<b>Description</b>	O	AN	1/80	Used																										
		<b>Description:</b> A free-form description to clarify the related data elements and their content																														
FOB04	334	<b>Transportation Terms Qualifier Code</b>	O	ID	2/2	Used																										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
		<b>Description:</b> Code identifying the source of the transportation terms All valid X12 codes are used.																				
FOB05	335	<b>Transportation Terms Code</b> <b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility All valid X12 codes are used.	C	ID	3/3	Used																
FOB06	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location	C	ID	1/2	Used																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>DE</td> <td>Destination (Shipping)</td> </tr> <tr> <td>FE</td> <td>Freight Equalization Point</td> </tr> <tr> <td>OA</td> <td>Origin (After Loading on Equipment)</td> </tr> <tr> <td>OR</td> <td>Origin (Shipping Point)</td> </tr> <tr> <td>OV</td> <td>On Vessel (Free On Board [FOB] point)</td> </tr> <tr> <td>PL</td> <td>Plant</td> </tr> <tr> <td>WH</td> <td>Warehouse</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	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				
<u>Code</u>	<u>Name</u>																					
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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																					

# PID Product/Item Description

Pos: 160	Max: 200
Heading - Optional	
Loop: N/A	Elements: 2

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

## Syntax:

R0405 -- At least one of PID04 or PID05 is required.

## Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Free-form</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	F	Free-form				
<u>Code</u>	<u>Name</u>									
F	Free-form									
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content <b>User:</b> <i>PID05 should be used to reference line item description.</i>	C	AN	1/80	Used				

# PWK Paperwork

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

To identify the type or transmission or both of paperwork or supporting information

## Comments:

- 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
PWK01	755	<b>Report Type Code</b>	M	ID	2/2	Must use																
		<b>Description:</b> Code indicating the title or contents of a document, report or supporting item																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>12</td> <td>Mechanical Properties</td> </tr> <tr> <td>BM</td> <td>Bill of Material</td> </tr> <tr> <td>CT</td> <td>Certification</td> </tr> <tr> <td>IT</td> <td>Certified Inspection and Test Results</td> </tr> <tr> <td>MS</td> <td>Material Safety Data Sheet</td> </tr> <tr> <td>PJ</td> <td>Purchasing Specification</td> </tr> <tr> <td>SI</td> <td>Seller Inventory Report</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	12	Mechanical Properties	BM	Bill of Material	CT	Certification	IT	Certified Inspection and Test Results	MS	Material Safety Data Sheet	PJ	Purchasing Specification	SI	Seller Inventory Report				
<u>Code</u>	<u>Name</u>																					
12	Mechanical Properties																					
BM	Bill of Material																					
CT	Certification																					
IT	Certified Inspection and Test Results																					
MS	Material Safety Data Sheet																					
PJ	Purchasing Specification																					
SI	Seller Inventory Report																					
PWK02	756	<b>Report Transmission Code</b>	O	ID	1/2	Used																
		<b>Description:</b> Code defining timing, transmission method or format by which reports are to be sent																				
		<b>User:</b> <i>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.</i>																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AE</td> <td>Electronically After Shipping</td> </tr> <tr> <td>BM</td> <td>By Mail</td> </tr> <tr> <td>EL</td> <td>Electronically Only</td> </tr> <tr> <td>FX</td> <td>By Fax</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AE	Electronically After Shipping	BM	By Mail	EL	Electronically Only	FX	By Fax										
<u>Code</u>	<u>Name</u>																					
AE	Electronically After Shipping																					
BM	By Mail																					
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FX	By Fax																					
PWK07	352	<b>Description</b>	O	AN	1/80	Used																
		<b>Description:</b> A free-form description to clarify the related data elements and their content																				

# IT1 Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 21

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

## Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- P0607 -- If either IT106 or IT107 are present, then the others are required.
- P0809 -- If either IT108 or IT109 are present, then the others are required.
- P1011 -- If either IT110 or IT111 are present, then the others are required.
- P1213 -- If either IT112 or IT113 are present, then the others are required.
- P1415 -- If either IT114 or IT115 are present, then the others are required.
- P1617 -- If either IT116 or IT117 are present, then the others are required.
- P1819 -- If either IT118 or IT119 are present, then the others are required.
- P2021 -- If either IT120 or IT121 are present, then the others are required.
- P2223 -- If either IT122 or IT123 are present, then the others are required.
- P2425 -- If either IT124 or IT125 are present, then the others are required.

## Semantics:

1. IT101 is the purchase order line item identification.

## Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>User:</b> <i>If purchase order is received, the purchase order line number is required in IT101. Otherwise, a sequential line number is required.</i>	O	AN	1/20	Used
IT102	358	<b>Quantity Invoiced</b> <b>Description:</b> Number of units invoiced (supplier units) <b>User:</b> <i>Either IT102 or IT104 may be negative, BUT NOT BOTH.</i>	C	R	1/10	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT103	355	<b>Unit or Basis for Measurement Code</b>	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.*

<u>Code</u>	<u>Name</u>
01	Actual Pounds
14	Shot
16	115 Kilogram Drum
18	55 Gallon Drum
1A	Car Mile
1J	Ton Miles
23	Grams per Cubic Centimeter
28	Kilograms per Square Meter
2Z	Millivolts
3C	Manmonth
43	Super Bulk Bag
47	50 Pound Bag
4K	Milliamperes
4L	Megabyte
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
86	Joules
97	10 Kilogram Drum
AC	Acre
AT	Atmosphere
B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag
BH	Brush
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
CH	Container
CI	Cubic Inches

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	CM	Centimeter				
	CN	Can				
	CO	Cubic Meters (Net)				
	CR	Cubic Meter				
	CS	Cassette				
	CT	Carton				
	CU	Cup				
	CV	Cover				
	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				
	FP	Pounds per Sq. Ft.				
	FR	Feet Per Minute				
	FT	Foot				
	GA	Gallon				
	GE	Pounds per Gallon				
	GL	Grams per Liter				
	GR	Gram				
	GS	Gross				
	GX	Grain				
	GY	Gross Yard				
	H4	Hectoliter				
	HA	Hank				
	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				
	IN	Inch				
	JO	Joint				
	JR	Jar				
	JU	Jug				
	K7	Kilowatt				
	KC	Kilograms per Cubic Meter				
	KE	Keg				
	KG	Kilogram				
	KH	Kilowatt Hour				
	KP	Kilometers Per Hour				
	KQ	Kilopascal				
	KT	Kit				
	KV	Kelvin				
	LB	Pound				
	LF	Linear Foot				
	LG	Long Ton				
	LN	Length				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	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				
	NW	Newton				
	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 (length) - 5.5 Yards				
	RE	Reel				
	RL	Roll				
	RM	Ream				
	RU	Run				
	S2	Trimester				
	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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>WK</td> <td>Week</td> </tr> <tr> <td>YD</td> <td>Yard</td> </tr> <tr> <td>YR</td> <td>Years</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	WK	Week	YD	Yard	YR	Years																		
<u>Code</u>	<u>Name</u>																											
WK	Week																											
YD	Yard																											
YR	Years																											
IT104	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc. <b>User:</b> <i>Either IT102 or IT104 may be negative, but not BOTH.</i>	C	R	1/17	Used																						
IT105	639	<b>Basis of Unit Price Code</b> <b>Description:</b> Code identifying the type of unit price for an item All valid X12 codes are used.	O	ID	2/2	Used																						
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CB</td> <td>Buyer's Catalog Number</td> </tr> <tr> <td>CQ</td> <td>Equipment Code per COPAS standard</td> </tr> <tr> <td>IN</td> <td>Buyer's Item Number</td> </tr> <tr> <td>MG</td> <td>Manufacturer's Part Number</td> </tr> <tr> <td>MN</td> <td>Model Number</td> </tr> <tr> <td>PL</td> <td>Purchaser's Order Line Number</td> </tr> <tr> <td>SN</td> <td>Serial Number</td> </tr> <tr> <td>TP</td> <td>Product Type Code</td> </tr> <tr> <td>VN</td> <td>Vendor's (Seller's) Item Number</td> </tr> <tr> <td>WC</td> <td>World Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CB	Buyer's Catalog Number	CQ	Equipment Code per COPAS standard	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	WC	World Code	C	ID	2/2	Used
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SN	Serial Number																											
TP	Product Type Code																											
VN	Vendor's (Seller's) Item Number																											
WC	World Code																											
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						
IT108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> <i>See IT106 for applicable code values.</i>	C	ID	2/2	Used																						
IT109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						
IT110	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> <i>See IT106 for applicable code values.</i>	C	ID	2/2	Used																						
IT111	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						
IT112	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> <i>See IT106 for applicable code values.</i>	C	ID	2/2	Used																						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT113	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
IT114	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See IT106 for applicable code values.	C	ID	2/2	Used
IT115	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
IT116	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See IT106 for applicable code values.	C	ID	2/2	Used
IT117	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
IT118	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See IT106 for applicable code values.	C	ID	2/2	Used
IT119	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
IT120	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See IT106 for applicable code values.	C	ID	2/2	Used
IT121	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used

# IT3 Additional Item Data

Pos: 030	Max: 5
Detail - Optional	
Loop: IT1	Elements: 3

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

## Syntax:

P0102 -- If either IT301 or IT302 are present, then the others are 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT301	382	<b>Number of Units Shipped</b>	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	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
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**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**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.*

<u>Code</u>	<u>Name</u>
14	Shot
16	115 Kilogram Drum
18	55 Gallon Drum
1A	Car Mile
1I	Fixed Rate
23	Grams per Cubic Centimeter
28	Kilograms per Square Meter
2Z	Millivolts
3C	Manmonth
43	Super Bulk Bag
47	50 Pound Bag
4K	Milliamperes
4L	Megabyte
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
86	Joules
97	10 Kilogram Drum
AC	Acre
AT	Atmosphere
B5	Billet

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	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				
	CF	Cubic Feet				
	CH	Container				
	CI	Cubic Inches				
	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				
	FP	Pounds per Sq. Ft.				
	FR	Feet Per Minute				
	FT	Foot				
	GA	Gallon				
	GE	Pounds per Gallon				
	GL	Grams per Liter				
	GR	Gram				
	GS	Gross				
	GX	Grain				
	GY	Gross Yard				
	H4	Hectoliter				
	HA	Hank				
	HF	Hundred Feet				
	HH	Hundred Cubic Feet				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	HJ	Horsepower				
	HO	Hundred Troy Ounces				
	HR	Hours				
	HV	Hundred Weight (Short)				
	HW	Hundred Weight (Long)				
	HZ	Hertz				
	IA	Inch Pound				
	IN	Inch				
	JO	Joint				
	JR	Jar				
	JU	Jug				
	K7	Kilowatt				
	KC	Kilograms per Cubic Meter				
	KE	Keg				
	KG	Kilogram				
	KH	Kilowatt Hour				
	KP	Kilometers Per Hour				
	KQ	Kilopascal				
	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				
	OT	Overtime Hours				
	OZ	Ounce - Av				
	P0	Pages - Electronic				
	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 (length) - 5.5 Yards				
	RE	Reel				
	RL	Roll				
	RM	Ream				
	RU	Run				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>				
		<u>Name</u>				
		S2				
		Trimester				
		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				
		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				
IT304	383	<b>Quantity Difference</b>	C	R	1/9	Used
		<b>Description:</b> Numeric value of variance between ordered and shipped quantities				

# TXI Tax Information

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 5

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

## Semantics:

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

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use																										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>CP</td><td>County/Parish Sales Tax</td></tr> <tr><td>CS</td><td>City Sales Tax</td></tr> <tr><td>CT</td><td>County Tax</td></tr> <tr><td>FT</td><td>Federal Excise Tax</td></tr> <tr><td>GR</td><td>Gross Receipts Tax</td></tr> <tr><td>GS</td><td>Goods and Services Tax</td></tr> <tr><td>LO</td><td>Local Tax (Not Sales Tax)</td></tr> <tr><td>LS</td><td>State and Local Sales Tax</td></tr> <tr><td>MT</td><td>Metropolitan Transit Tax</td></tr> <tr><td>SP</td><td>State/Provincial Tax</td></tr> <tr><td>VA</td><td>Value Added Tax</td></tr> <tr><td>WS</td><td>Well Service</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	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	LO	Local Tax (Not Sales Tax)	LS	State and Local Sales Tax	MT	Metropolitan Transit Tax	SP	State/Provincial Tax	VA	Value Added Tax	WS	Well Service				
<u>Code</u>	<u>Name</u>																															
CP	County/Parish Sales Tax																															
CS	City Sales Tax																															
CT	County Tax																															
FT	Federal Excise Tax																															
GR	Gross Receipts Tax																															
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LO	Local Tax (Not Sales Tax)																															
LS	State and Local Sales Tax																															
MT	Metropolitan Transit Tax																															
SP	State/Provincial Tax																															
VA	Value Added Tax																															
WS	Well Service																															
TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	C	R	1/18	Used																										
TXI03	954	<b>Percent</b> <b>Description:</b> Percentage expressed as a decimal	C	R	1/10	Used																										
TXI06	441	<b>Tax Exempt Code</b> <b>Description:</b> Code identifying exemption status from sales and use tax <b>User:</b> Use these code values to identify the	C	ID	1/1	Used																										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<p><i>taxibility of services related to material items.</i></p> <p><i>For example:</i>  <i>Use code = 1 for Federal Offshore Water Properties.</i>  <i>Use code = 7 when a direct pay authorization is held by purchaser.</i></p> <p>All valid X12 codes are used.</p>				
TXI08	828	<p><b>Dollar Basis For Percent</b></p> <p><b>Description:</b> Dollar basis to be used in the percent calculation of the allowance, charge or tax</p>	O	R	1/9	Used

# CTP Pricing Information

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

To specify pricing information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTP01	687	<b>Class of Trade Code</b> <b>Description:</b> Code indicating class of trade	O	ID	2/2	Used
		<u>Code</u> <u>Name</u> MF                              Manufacturer				
CTP02	236	<b>Price Identifier Code</b> <b>Description:</b> Code identifying pricing specification	C	ID	3/3	Used
		<u>Code</u> <u>Name</u> TOT                              Total Invoice Amount Due				
CTP03	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Used

# 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.  
 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 <b>Description:</b> Code identifying the broad category to which a measurement applies	O	ID	2/2	Used
		<u>Code</u> <u>Name</u> TR                              Test Results				
MEA02	738	Measurement Qualifier <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used
		<u>Code</u> <u>Name</u> PY                              Percent of Water PSA                              Percent Solution Actual				
MEA03	739	Measurement Value <b>Description:</b> The value of the measurement	C	R	1/20	Used
MEA04	C001	Composite Unit of Measure <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Must use
	355	Unit or Basis for Measurement Code <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> PI                              Percent				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA05	740	<b>Range Minimum</b> <b>Description:</b> The value specifying the minimum of the measurement range	C	R	1/20	Used
MEA06	741	<b>Range Maximum</b> <b>Description:</b> The value specifying the maximum of the measurement range	C	R	1/20	Used
MEA07	935	<b>Measurement Significance Code</b> <b>Description:</b> Code used to benchmark, qualify or further define a measurement value All valid X12 codes are used.	O	ID	2/2	Used
MEA08	936	<b>Measurement Attribute Code</b> <b>Description:</b> 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	<b>Surface/Layer/Position Code</b> <b>Description:</b> 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	<b>Measurement Method or Device</b> <b>Description:</b> The method or device used to record the measurement All valid X12 codes are used.	O	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:

R0405 -- At least one of PID04 or PID05 is required.

## Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

## Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> F                              Free-form				
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content <b>User:</b> <i>PID05 should be used to reference line item description.</i>	C	AN	1/80	Used

# PWK Paperwork

Pos: 080	Max: 25
Detail - Optional	
Loop: IT1	Elements: 3

To identify the type or transmission or both of paperwork or supporting information

## Comments:

- 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>														
PWK01	755	<b>Report Type Code</b> <b>Description:</b> Code indicating the title or contents of a document, report or supporting item	M	ID	2/2	Must use														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>12</td> <td>Mechanical Properties</td> </tr> <tr> <td>BM</td> <td>Bill of Material</td> </tr> <tr> <td>CT</td> <td>Certification</td> </tr> <tr> <td>IT</td> <td>Certified Inspection and Test Results</td> </tr> <tr> <td>MS</td> <td>Material Safety Data Sheet</td> </tr> <tr> <td>SI</td> <td>Seller Inventory Report</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	12	Mechanical Properties	BM	Bill of Material	CT	Certification	IT	Certified Inspection and Test Results	MS	Material Safety Data Sheet	SI	Seller Inventory Report				
<u>Code</u>	<u>Name</u>																			
12	Mechanical Properties																			
BM	Bill of Material																			
CT	Certification																			
IT	Certified Inspection and Test Results																			
MS	Material Safety Data Sheet																			
SI	Seller Inventory Report																			
PWK02	756	<b>Report Transmission Code</b> <b>Description:</b> Code defining timing, transmission method or format by which reports are to be sent <b>User:</b> <i>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.</i>	O	ID	1/2	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AE</td> <td>Electronically After Shipping</td> </tr> <tr> <td>BM</td> <td>By Mail</td> </tr> <tr> <td>EL</td> <td>Electronically Only</td> </tr> <tr> <td>FX</td> <td>By Fax</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AE	Electronically After Shipping	BM	By Mail	EL	Electronically Only	FX	By Fax								
<u>Code</u>	<u>Name</u>																			
AE	Electronically After Shipping																			
BM	By Mail																			
EL	Electronically Only																			
FX	By Fax																			
PWK07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used														

# REF Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Syntax:

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

## Semantics:

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

## 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.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use																										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>19</td><td>Division Identifier</td></tr> <tr><td>AE</td><td>Authorization for Expense (AFE) Number</td></tr> <tr><td>CA</td><td>Cost Allocation Reference</td></tr> <tr><td>CR</td><td>Customer Reference Number</td></tr> <tr><td>DJ</td><td>Delivery Ticket Number</td></tr> <tr><td>EP</td><td>Export Permit Number</td></tr> <tr><td>IT</td><td>Internal Customer Number</td></tr> <tr><td>JB</td><td>Job (Project) Number</td></tr> <tr><td>LU</td><td>Location Number</td></tr> <tr><td>OI</td><td>Original Invoice Number</td></tr> <tr><td>PA</td><td>Price Area Number</td></tr> <tr><td>WN</td><td>Well Number</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	19	Division Identifier	AE	Authorization for Expense (AFE) Number	CA	Cost Allocation Reference	CR	Customer Reference Number	DJ	Delivery Ticket Number	EP	Export Permit Number	IT	Internal Customer Number	JB	Job (Project) Number	LU	Location Number	OI	Original Invoice Number	PA	Price Area Number	WN	Well Number				
<u>Code</u>	<u>Name</u>																															
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JB	Job (Project) Number																															
LU	Location Number																															
OI	Original Invoice Number																															
PA	Price Area Number																															
WN	Well Number																															
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used																										
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used																										

# DTM Date/Time Reference

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

## Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> <tr> <td>150</td> <td>Service Period Start</td> </tr> <tr> <td>151</td> <td>Service Period End</td> </tr> <tr> <td>214</td> <td>Date of Repair/Service</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped	150	Service Period Start	151	Service Period End	214	Date of Repair/Service				
<u>Code</u>	<u>Name</u>															
011	Shipped															
150	Service Period Start															
151	Service Period End															
214	Date of Repair/Service															
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Used										

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 180	Max: 1
Detail - Optional	
Loop: SAC	Elements: 10

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

## Syntax:

- R0203 -- At least one of SAC02 or SAC03 is required.
- P0304 -- If either SAC03 or SAC04 are present, then the others are required.
- P0607 -- If either SAC06 or SAC07 are present, then the others are required.
- P0910 -- If either SAC09 or SAC10 are present, then the others are required.
- C1110 -- If SAC11 is present, then SAC10 is required
- L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- C1413 -- If SAC14 is present, then SAC13 is required
- C1615 -- If SAC16 is present, then SAC15 is required

## Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

## Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

## User:

*The SAC 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 (ITI segment) only. The use of the SAC segment in the summary area is exclusive of the use of the SAC segment in the detail area; the SAC segment in the summary area is not the sum of the SAC segments in the detail area.*

*For any given Special Charge or Allowance Code (SAC02), SAC02 should appear at either the detail or summary level, BUT NOT BOTH.*

## Element Summary:

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

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

	<u>Code</u>	<u>Name</u>				
	A	Allowance				
	C	Charge				
<b>SAC02</b>	<b>1300</b>	<b>Service, Promotion, Allowance, or Charge Code</b>	<b>C</b>	<b>ID</b>	<b>4/4</b>	<b>Used</b>
		<b>Description:</b> Code identifying the service, promotion, allowance, or charge All valid X12 codes are used.				
<b>SAC05</b>	<b>610</b>	<b>Amount</b>	<b>O</b>	<b>N2</b>	<b>1/15</b>	<b>Used</b>
		<b>Description:</b> Monetary amount				
<b>SAC06</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b>	<b>C</b>	<b>ID</b>	<b>1/1</b>	<b>Used</b>
		<b>Description:</b> Code indicating on what basis allowance or charge percent is calculated All valid X12 codes are used.				
<b>SAC07</b>	<b>332</b>	<b>Percent</b>	<b>C</b>	<b>R</b>	<b>1/6</b>	<b>Used</b>
		<b>Description:</b> Percent expressed as a percent				
<b>SAC08</b>	<b>118</b>	<b>Rate</b>	<b>O</b>	<b>R</b>	<b>1/9</b>	<b>Used</b>
		<b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified				
<b>SAC09</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>C</b>	<b>ID</b>	<b>2/2</b>	<b>Used</b>
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

<u>Code</u>	<u>Name</u>
14	Shot
16	115 Kilogram Drum
18	55 Gallon Drum
1A	Car Mile
1I	Fixed Rate
1J	Ton Miles
23	Grams per Cubic Centimeter
28	Kilograms per Square Meter
3C	Manmonth
43	Super Bulk Bag
47	50 Pound Bag
4K	Milliamperes
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
86	Joules
97	10 Kilogram Drum
AC	Acre
AT	Atmosphere
B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag
BI	Bar

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	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				
	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				
	FP	Pounds per Sq. Ft.				
	FR	Feet Per Minute				
	FT	Foot				
	GA	Gallon				
	GE	Pounds per Gallon				
	GL	Grams per Liter				
	GR	Gram				
	GS	Gross				
	GX	Grain				
	GY	Gross Yard				
	H4	Hectoliter				
	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				
	IN	Inch				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	<u>Code</u>	<u>Name</u>				
	JO	Joint				
	JU	Jug				
	K7	Kilowatt				
	KC	Kilograms per Cubic Meter				
	KE	Keg				
	KG	Kilogram				
	KH	Kilowatt Hour				
	KP	Kilometers Per Hour				
	KQ	Kilopascal				
	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				
	MR	Meter				
	NB	Barge				
	NL	Load				
	NS	Short Ton				
	NW	Newton				
	OT	Overtime Hours				
	OZ	Ounce - Av				
	P1	Percent				
	PA	Pail				
	PC	Piece				
	PD	Pad				
	PL	Pallet/Unit Load				
	PR	Pair				
	PS	Pounds per Sq. Inch				
	PT	Pint				
	QT	Quart				
	R3	Revolutions Per Minute				
	RD	Rod (length) - 5.5 Yards				
	RE	Reel				
	RL	Roll				
	RM	Ream				
	RU	Run				
	S2	Trimester				
	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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>SV</td><td>Skid</td></tr> <tr><td>TB</td><td>Tube</td></tr> <tr><td>TC</td><td>Truckload</td></tr> <tr><td>TE</td><td>Tote</td></tr> <tr><td>TG</td><td>Gross Ton</td></tr> <tr><td>TH</td><td>Thousand</td></tr> <tr><td>TK</td><td>Tank</td></tr> <tr><td>TL</td><td>Thousand Feet (Linear)</td></tr> <tr><td>TN</td><td>Net Ton (2</td></tr> <tr><td>TO</td><td>Troy Ounce</td></tr> <tr><td>TQ</td><td>Thousand Feet</td></tr> <tr><td>TS</td><td>Thousand Square Feet</td></tr> <tr><td>UN</td><td>Unit</td></tr> <tr><td>WK</td><td>Week</td></tr> <tr><td>YR</td><td>Years</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	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	YR	Years				
<u>Code</u>	<u>Name</u>																																					
SV	Skid																																					
TB	Tube																																					
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TG	Gross Ton																																					
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TL	Thousand Feet (Linear)																																					
TN	Net Ton (2																																					
TO	Troy Ounce																																					
TQ	Thousand Feet																																					
TS	Thousand Square Feet																																					
UN	Unit																																					
WK	Week																																					
YR	Years																																					
SAC10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	C	R	1/15	Used																																
SAC12	331	<b>Allowance or Charge Method of Handling Code</b> <b>Description:</b> Code indicating method of handling for an allowance or charge	O	ID	2/2	Used																																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>02</td><td>Off Invoice</td></tr> <tr><td>04</td><td>Credit Customer Account</td></tr> <tr><td>06</td><td>Charge to be Paid by Customer</td></tr> </tbody> </table> <b>User:</b> <i>For CIDX use only.</i>	<u>Code</u>	<u>Name</u>	02	Off Invoice	04	Credit Customer Account	06	Charge to be Paid by Customer																												
<u>Code</u>	<u>Name</u>																																					
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SAC15	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used																																

# TXI Tax Information

Pos: 190	Max: 10
Detail - Optional	
Loop: SAC	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

## Semantics:

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

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																																		
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use																																		
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TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	C	R	1/18	Used																																		

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TXI03	954	<b>Percent</b> <b>Description:</b> Percentage expressed as a decimal	C	R	1/10	Used								
TXI06	441	<b>Tax Exempt Code</b> <b>Description:</b> Code identifying exemption status from sales and use tax	C	ID	1/1	Used								
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7	Direct Pay ID													

# SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 22

To specify product subline detail item data

## Syntax:

- P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- C0706 -- If SLN07 is present, then SLN06 is required
- C0806 -- If SLN08 is present, then SLN06 is required
- P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- P2728 -- If either SLN27 or SLN28 are present, then the others are required.

## Semantics:

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

## Comments:

- See the Data Element Dictionary for a complete list of IDs.
- 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.
- SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/20	Must use
<b>Description:</b> Alphanumeric characters assigned for						

differentiation within a transaction set

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

**SLN03 662 Relationship Code M ID 1/1 Must use**

**Description:** Code indicating the relationship between entities

<u>Code</u>	<u>Name</u>
I	Included

**SLN04 380 Quantity C R 1/15 Must use**

**Description:** Numeric value of quantity

**SLN05 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 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 4010.*

<u>Code</u>	<u>Name</u>
14	Shot
16	115 Kilogram Drum
18	55 Gallon Drum
1A	Car Mile
1I	Fixed Rate
1J	Ton Miles
23	Grams per Cubic Centimeter
28	Kilograms per Square Meter
2Z	Millivolts
3C	Manmonth
43	Super Bulk Bag
47	50 Pound Bag
4G	Microliter
4K	Milliamperes
4L	Megabyte
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
97	10 Kilogram Drum
AC	Acre
AE	Amperes per Meter
AT	Atmosphere
B5	Billet
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>				
						<u>Name</u>
		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
		DF				Dram
		DH				Miles
		DM				Decimeter
		DR				Drum
		EA				Each
		FA				Fahrenheit
		FE				Track Foot
		FP				Pounds per Sq. Ft.
		FR				Feet Per Minute
		FT				Foot
		GA				Gallon
		GE				Pounds per Gallon
		GL				Grams per Liter
		GR				Gram
		GS				Gross
		GX				Grain
		GY				Gross Yard
		H4				Hectoliter
		HA				Hank
		HF				Hundred Feet
		HH				Hundred Cubic Feet
		HJ				Horsepower
		HO				Hundred Troy Ounces
		HR				Hours
		HV				Hundred Weight (Short)
		HW				Hundred Weight (Long)
		IA				Inch Pound
		IN				Inch
		JO				Joint
		JR				Jar
		JU				Jug
		K7				Kilowatt
		KC				Kilograms per Cubic Meter

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>				
						<u>Name</u>
		KE				Keg
		KG				Kilogram
		KH				Kilowatt Hour
		KP				Kilometers Per Hour
		KQ				Kilopascal
		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
		MR				Meter
		NB				Barge
		NL				Load
		NW				Newton
		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 (length) - 5.5 Yards
		RE				Reel
		RL				Roll
		RM				Ream
		RU				Run
		S2				Trimester
		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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																						
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TS	Thousand Square Feet																											
UN	Unit																											
YD	Yard																											
YR	Years																											
SLN06	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Used																						
SLN08	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities All valid X12 codes are used.	O	ID	1/1	Used																						
SLN09	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used																						
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SLN10	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						
SLN11	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used																						
SLN12	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						
SLN13	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used																						
SLN14	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used																						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN15	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used
SLN16	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
SLN17	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used
SLN18	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
SLN19	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used
SLN20	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
SLN21	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used
SLN22	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
SLN23	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> See SLN09 for applicable code values. All valid X12 codes are used.	C	ID	2/2	Used
SLN24	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used

# PID Product/Item Description

Pos: 220	Max: 1000
Detail - Optional	
Loop: SLN	Elements: 2

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

## Syntax:

R0405 -- At least one of PID04 or PID05 is required.

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> F              Free-form				
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content <b>User:</b> <i>PID05 should be used to reference line item description.</i>	C	AN	1/80	Used

# TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

## Semantics:

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

## Comments:

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

## 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 the SAC segment.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS04	610	Amount Description: Monetary amount	O	N2	1/15	Used

# TXI Tax Information

Pos: 020	Max: 10
Summary - Optional	
Loop: N/A	Elements: 6

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

## Semantics:

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

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																																
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use																																
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TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	C	R	1/18	Used																																
TXI03	954	<b>Percent</b>	C	R	1/10	Used																																

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
		<b>Description:</b> Percentage expressed as a decimal												
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b> <b>Description:</b> Code identifying the source of the data used in tax jurisdiction code All valid X12 codes are used.	C	ID	2/2	Used								
TXI05	956	<b>Tax Jurisdiction Code</b> <b>Description:</b> Code identifying the taxing jurisdiction	C	AN	1/10	Used								
TXI06	441	<b>Tax Exempt Code</b> <b>Description:</b> Code identifying exemption status from sales and use tax	C	ID	1/1	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes (Tax Exempt)</td> </tr> <tr> <td>2</td> <td>No (Not Tax Exempt)</td> </tr> <tr> <td>7</td> <td>Direct Pay ID</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	Yes (Tax Exempt)	2	No (Not Tax Exempt)	7	Direct Pay ID				
<u>Code</u>	<u>Name</u>													
1	Yes (Tax Exempt)													
2	No (Not Tax Exempt)													
7	Direct Pay ID													

# CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 8

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
CAD01	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment	O	ID	1/2	Used																										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>A</td><td>Air</td></tr> <tr><td>D</td><td>Parcel Post</td></tr> <tr><td>E</td><td>Expedited Truck</td></tr> <tr><td>H</td><td>Customer Pickup</td></tr> <tr><td>L</td><td>Contract Carrier</td></tr> <tr><td>M</td><td>Motor (Common Carrier)</td></tr> <tr><td>R</td><td>Rail</td></tr> <tr><td>S</td><td>Ocean</td></tr> <tr><td>T</td><td>Best Way (Shippers Option)</td></tr> <tr><td>U</td><td>Private Parcel Service</td></tr> <tr><td>AE</td><td>Air Express</td></tr> <tr><td>SR</td><td>Supplier Truck</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	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				
<u>Code</u>	<u>Name</u>																															
A	Air																															
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CAD02	206	<b>Equipment Initial</b> <b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used																										
CAD03	207	<b>Equipment Number</b> <b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O	AN	1/10	Used																										
CAD04	140	<b>Standard Carrier Alpha Code</b> <b>Description:</b> Standard Carrier Alpha Code	C	ID	2/4	Used																										
CAD05	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used																										
CAD07	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	O	ID	2/3	Used																										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>08</td><td>Carrier Assigned Package Identification Number</td></tr> <tr><td>2I</td><td>Tracking Number</td></tr> <tr><td>BM</td><td>Bill of Lading Number</td></tr> <tr><td>DJ</td><td>Delivery Ticket Number</td></tr> <tr><td>FR</td><td>Freight Bill Number</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	08	Carrier Assigned Package Identification Number	2I	Tracking Number	BM	Bill of Lading Number	DJ	Delivery Ticket Number	FR	Freight Bill Number																		
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		<u>Code</u> WY				
		<u>Name</u> Waybill Number				
CAD08	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
CAD09	284	<b>Service Level Code</b> <b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier All valid X12 codes are used.	O	ID	2/2	Used

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 10

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

## Syntax:

- R0203 -- At least one of SAC02 or SAC03 is required.
- P0304 -- If either SAC03 or SAC04 are present, then the others are required.
- P0607 -- If either SAC06 or SAC07 are present, then the others are required.
- P0910 -- If either SAC09 or SAC10 are present, then the others are required.
- C1110 -- If SAC11 is present, then SAC10 is required
- L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- C1413 -- If SAC14 is present, then SAC13 is required
- C1615 -- If SAC16 is present, then SAC15 is required

## Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

## Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

## User:

*The SAC 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 (ITI segment) only. The use of the SAC segment in the summary area is exclusive of the use of the SAC segment in the detail area; the SAC segment in the summary area is not the sum of the SAC segments in the detail area.*

*For any given Special Charge or Allowance Code (SAC02), SAC02 should appear at either the detail or summary level, BUT NOT BOTH.*

## Element Summary:

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

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

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

<b>SAC02</b>	<b>1300</b>	<b>Service, Promotion, Allowance, or Charge Code</b>	<b>C</b>	<b>ID</b>	<b>4/4</b>	<b>Used</b>														
		<b>Description:</b> Code identifying the service, promotion, allowance, or charge																		
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>D240</td> <td>Freight</td> </tr> <tr> <td>D270</td> <td>Fuel Surcharge</td> </tr> <tr> <td>D970</td> <td>Insurance Surcharge</td> </tr> <tr> <td>E950</td> <td>One-Time License Fee</td> </tr> <tr> <td>G580</td> <td>Royalties</td> </tr> <tr> <td>H090</td> <td>Special Handling</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	D240	Freight	D270	Fuel Surcharge	D970	Insurance Surcharge	E950	One-Time License Fee	G580	Royalties	H090	Special Handling				
<u>Code</u>	<u>Name</u>																			
D240	Freight																			
D270	Fuel Surcharge																			
D970	Insurance Surcharge																			
E950	One-Time License Fee																			
G580	Royalties																			
H090	Special Handling																			
<b>SAC05</b>	<b>610</b>	<b>Amount</b>	<b>O</b>	<b>N2</b>	<b>1/15</b>	<b>Used</b>														
		<b>Description:</b> Monetary amount																		
<b>SAC06</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b>	<b>C</b>	<b>ID</b>	<b>1/1</b>	<b>Used</b>														
		<b>Description:</b> Code indicating on what basis allowance or charge percent is calculated All valid X12 codes are used.																		
<b>SAC07</b>	<b>332</b>	<b>Percent</b>	<b>C</b>	<b>R</b>	<b>1/6</b>	<b>Used</b>														
		<b>Description:</b> Percent expressed as a percent																		
<b>SAC08</b>	<b>118</b>	<b>Rate</b>	<b>O</b>	<b>R</b>	<b>1/9</b>	<b>Used</b>														
		<b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified																		
<b>SAC09</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>C</b>	<b>ID</b>	<b>2/2</b>	<b>Used</b>														
		<b>Description:</b> 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.																		
<b>SAC10</b>	<b>380</b>	<b>Quantity</b>	<b>C</b>	<b>R</b>	<b>1/15</b>	<b>Used</b>														
		<b>Description:</b> Numeric value of quantity																		
<b>SAC11</b>	<b>380</b>	<b>Quantity</b>	<b>O</b>	<b>R</b>	<b>1/15</b>	<b>Used</b>														
		<b>Description:</b> Numeric value of quantity																		
<b>SAC12</b>	<b>331</b>	<b>Allowance or Charge Method of Handling Code</b>	<b>O</b>	<b>ID</b>	<b>2/2</b>	<b>Used</b>														
		<b>Description:</b> Code indicating method of handling for an allowance or charge All valid X12 codes are used.																		

# TXI Tax Information

Pos: 050	Max: 10
Summary - Optional	
Loop: SAC	Elements: 10

To specify tax information

## Syntax:

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

## Semantics:

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax All valid X12 codes are used.	M	ID	2/2	Must use
TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	C	R	1/18	Used
TXI03	954	<b>Percent</b> <b>Description:</b> Percentage expressed as a decimal	C	R	1/10	Used
TXI04	955	<b>Tax Jurisdiction Code Qualifier</b> <b>Description:</b> Code identifying the source of the data used in tax jurisdiction code All valid X12 codes are used.	C	ID	2/2	Used
TXI05	956	<b>Tax Jurisdiction Code</b> <b>Description:</b> Code identifying the taxing jurisdiction	C	AN	1/10	Used
TXI06	441	<b>Tax Exempt Code</b> <b>Description:</b> Code identifying exemption status from sales and use tax All valid X12 codes are used.	C	ID	1/1	Used
TXI07	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities All valid X12 codes are used.	O	ID	1/1	Used
TXI08	828	<b>Dollar Basis For Percent</b> <b>Description:</b> Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9	Used
TXI09	325	<b>Tax Identification Number</b> <b>Description:</b> Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a	O	AN	1/20	Used

	<u>Element Name</u>	<u>Reg</u>	<u>Min/Max</u>	<u>Usage</u>
	tax exemption number or certificate number			
TXIIO	350 <b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN 1120	Used

# CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

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

## Syntax:

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

## Comments:

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set <b>User:</b> <i>The total number IT1 segments present in the transaction set.</i>	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b> <b>Description:</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.Example:-.0018 First occurrence of value beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.-----1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field.	O	R	1/10	Not used
CTT03	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Not used
CTT04	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	C	ID	2/2	Not used
CTT05	183	<b>Volume</b> <b>Description:</b> Value of volumetric measure	C	R	1/8	Not used
CTT06	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> 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.	C	ID	2/2	Not used
CTT07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the	O	AN	1/80	Not used

<u>Element Name</u>	<u>Req</u>	<u>Min/Max</u>	<u>Usage</u>
related data elements and their content			

# SE Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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:

- SE is the last segment of each transaction set.

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>User:</b> <i>This must be the same number as is in the ST segment (ST02) for the transaction set.</i>	M	AN	4/9	Must use