

810 Invoice

Functional Group=IN

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

Notes:

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

User:

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

Heading:

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

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1					200000		
010	IT1	Baseline Item Data (Invoice)	O	1			Used
030	IT3	Additional Item Data	O	5			Used
040	TXI	Tax Information	O	10			Used
050	CTP	Pricing Information	O	25			Used
059	MEA	Measurements	O	40			Used
LOOP ID - PID					1000		
060	PID	Product/Item Description	O	1			Used
080	PWK	Paperwork	O	25			Used
120	REF	Reference Numbers	O	>1			Used
150	DTM	Date/Time Reference	O	10			Used
LOOP ID - ITA					10		
180	ITA	Allowance, Charge or Service	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>
LOOP ID - SLN					1000		
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
LOOP ID - ITA					10		
040	ITA	Allowance, Charge or Service	O	1			Used
070	CTT	Transaction Totals	M	1		N3/070	Must use
080	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

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:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set.	M	ID	3/3	Must use				
		<table border="1"><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>810</td><td>X12.2 Invoice</td></tr></tbody></table>	<u>Code</u>	<u>Name</u>	810	X12.2 Invoice				
<u>Code</u>	<u>Name</u>									
810	X12.2 Invoice									
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set User: <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: 7

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	245	Invoice Date Description: Invoice Issue Date.	M	DT	6/6	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer. User: Use this data field to relay the seller's assigned number.	M	AN	1/22	Must use
BIG03	323	Purchase Order Date Description: Date assigned by the purchaser to Purchase Order. User: This date must be the same date that appears on the paper purchase order.	O	DT	6/6	Used
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser. User: Use this data field to relay the buyer's assigned number which may also be a "blanket release"/contract purchase order number.	O	AN	1/22	Used
BIG05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction. User: The release number is the number identifying a release against a previously placed purchase order or blanket order.	O	AN	1/30	Used
BIG06	327	Change Order Sequence Number Description: 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	Transaction Type Code Description: Code specifying the type of transaction.	O	ID	2/2	Used
		Code Name				
		CR Credit Memo				
		DR Debit Memo				
		PR Product (or Service)				

CUR Currency

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

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

Syntax:

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

User:

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

Element Summary:

<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	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	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>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	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified. User: Refer to Code Source 5 in Appendix A for applicable code values.	M	ID	3/3	Must use						
CUR03	280	Exchange Rate Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.	O	R	4/6	Used						
CUR04	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual All valid X12 codes are used.	O	ID	2/2	Not used						
CUR05	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified.	O	ID	3/3	Not used						
CUR06	669	Currency Market/Exchange Code Description: Code identifying the market upon which the currency exchange rate is based.	O	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>
		All valid X12 codes are used.				
CUR07	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR08	373	Date Description: Date (YYMMDD).	O	DT	6/6	Not used
CUR09	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR10	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR11	373	Date Description: Date (YYMMDD).	O	DT	6/6	Not used
CUR12	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR13	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR14	373	Date Description: Date (YYMMDD).	O	DT	6/6	Not used
CUR15	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR16	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR17	373	Date Description: Date (YYMMDD).	O	DT	6/6	Not used
CUR18	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used
CUR19	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time. All valid X12 codes are used.	C	ID	3/3	Not used
CUR20	373	Date Description: Date (YYMMDD).	O	DT	6/6	Not used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR21	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	O	TM	4/6	Not used

REF Reference Numbers

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

To specify identifying numbers.

Syntax:

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

User:

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

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

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

Internal:

This segment not previously used by CIDX.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use
		Description: Code qualifying the Reference Number.				
		Code Name				
		19 Division Identifier				
		AE Authorization for Expense (AFE) Number				
		CA Cost Allocation Reference				
		CR Customer Reference Number				
		User: Use this code value to represent the Customer Accounting Reference Number.				
		DJ Delivery Ticket Number				
		IT Internal Customer Number				
		JB Job (Project) Number				
		User: Use this code value to denote the Job/Work Order Number.				
		LU Location Number				
		Description: Use this code value to represent either the well or field identification number.				
		User: Use this code value to represent either the well or field identification number.				
		OI Original Invoice Number				
		Description: The original invoice number should be noted in the REF02 if a credit memo is sent with a unique invoice number.				
		PA Price Area Number				
		WN Well Number				
		Description: Use this code value to represent either the well or field name.				
REF02	127	Reference Number	C	AN	1/30	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
REF03	352	Description Description: 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	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual				
		<u>Code</u> <u>Name</u>				
		16 Plant				
		BS Bill and Ship To				
		User: <i>If BS is used, BT and ST should not be used.</i>				
		BT Party to be Billed For Other Than Freight(Bill To)				
		User: <i>Use this code value to represent the Bill To Party.</i>				
		RE Party to receive commercial invoice remittance				
		User: <i>Use this code value to represent Remit To Party.</i>				
		SE Selling Party				
		SF Ship From				
		User: <i>Point of Shipment should be included in this N1 Loop NOT the FOB.</i>				
		ST Ship To				
N102	93	Name	C	AN	1/35	Must use
		Description: Free-form name.				
N103	66	Identification Code Qualifier	C	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67).				
		<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				
		Description: DUNS+4 is the API Recommended				

<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>				
		Practice.				
		User: <i>DUNS+4 is the API Recommended</i>				
		<i>Practice.</i>				
	91	Assigned by Seller or Seller's Agent				
	92	Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code	C	AN	2/17	Used
		Description: Code identifying a party or other code.				

N2 Additional Name Information

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

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

Element Summary:

<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 Description: Free-form name.	M	AN	1/35	Must use
N202	93	Name Description: Free-form name.	O	AN	1/35	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	Address Information Description: Address information	M	AN	1/35	Must use
N302	166	Address Information Description: Address information	O	AN	1/35	Used

N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

To specify the geographic place of the named party

Syntax:

R0105 -- At least one of N401 or N405 is required.

P0506 -- If either N405 or N406 are present, then the others are required.

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name Description: Free-form text for city name.	C	AN	2/30	Must use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency. User: Refer to API Bulletin D12A for applicable code values. Also refer to Code Source 22 in Appendix A for other applicable code values.	O	ID	2/2	Must use
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States). User: 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	3/9	Must use
N404	26	Country Code Description: Code identifying the country. User: Refer to API 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

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

Internal:

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>														
PER01	366	Contact Function Code Description: 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><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AN</td> <td>Attention-to Party</td> </tr> <tr> <td></td> <td>User: <i>Party to whose attention information is sent via U.S. Post Office - U.S. Mail</i></td> </tr> <tr> <td>IC</td> <td>Information Contact</td> </tr> <tr> <td>OC</td> <td>Order Contact</td> </tr> <tr> <td></td> <td>User: <i>The person who initiated the order</i></td> </tr> <tr> <td>SR</td> <td>Sales Representative or Department</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AN	Attention-to Party		User: <i>Party to whose attention information is sent via U.S. Post Office - U.S. Mail</i>	IC	Information Contact	OC	Order Contact		User: <i>The person who initiated the order</i>	SR	Sales Representative or Department				
<u>Code</u>	<u>Name</u>																			
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IC	Information Contact																			
OC	Order Contact																			
	User: <i>The person who initiated the order</i>																			
SR	Sales Representative or Department																			
PER02	93	Name Description: Free-form name.	O	AN	1/35	Used														
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number.	C	ID	2/2	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ED</td> <td>Electronic Data Interchange Access Number</td> </tr> <tr> <td></td> <td>User: <i>This code value is to be used to designate an internal route code or the identification number established for employee identification code.</i></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>	<u>Code</u>	<u>Name</u>	ED	Electronic Data Interchange Access Number		User: <i>This code value is to be used to designate an internal route code or the identification number established for employee identification code.</i>	EM	Electronic Mail	FX	Facsimile	TE	Telephone						
<u>Code</u>	<u>Name</u>																			
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EM	Electronic Mail																			
FX	Facsimile																			
TE	Telephone																			
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable. User: <i>When the code value ED is used, the communication number will designate a route code/ID number.</i>	C	AN	1/25	Used														
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number.	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>
		User: <i>See PER03 for applicable code values.</i>				
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable. User: <i>When the code value ED is used, the communication number will designate a route code/ID number.</i>	C	AN	1/25	Used

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: 5
Heading - Optional	
Loop: N/A	Elements: 9

To specify terms of sale.

Syntax:

L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.

L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.

L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

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

Comments:

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

User:

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

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

Internal:

This segment not previously used by CIDX.

Element Summary:

<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	Terms Type Code Description: Code identifying type of payment terms.	O	ID	2/2	Used								
		<table><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	Terms Basis Date Code Description: Code identifying the beginning of the terms period.	O	ID	1/2	Used								
		<table><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	Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.	O	R	1/6	Used								
ITD04	370	Terms Discount Due Date Description: Date payment is due if discount is to be earned.	C	DT	6/6	Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned. User: <i>If ITD03 is sent, ITD04 and ITD05 are required. ITD03 must be greater than zero (0).</i>	C	N0	1/3	Used
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due.	O	DT	6/6	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable).	O	N0	1/3	Used
ITD08	362	Terms Discount Amount Description: Total amount of terms discount.	O	N2	1/10	Used
ITD12	352	Description Description: 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: 3

To specify pertinent dates and times

Syntax:

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

User:

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

Element Summary:

<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	Date/Time Qualifier Description: 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 Description: Date repair order was opened</td></tr><tr><td>151</td><td>Service Period End Description: Date repair order was closed</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 Description: Date repair order was opened	151	Service Period End Description: Date repair order was closed	214	Date of Repair/Service				
<u>Code</u>	<u>Name</u>															
011	Shipped															
150	Service Period Start Description: Date repair order was opened															
151	Service Period End Description: Date repair order was closed															
214	Date of Repair/Service															
DTM02	373	Date Description: Date (YYMMDD).	C	DT	6/6	Used										
DTM05	624	Century Description: The first two characters in the designation of the year (CCYY).	O	N0	2/2	Used										

FOB F.O.B. Related Instructions

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

To specify transportation instructions relating to shipment

Syntax:

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

Semantics:

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

Element Summary:

<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	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges.				
		<u>Code</u> <u>Name</u>				
		CC Collect				
		CD Collect on Delivery				
		CF Collect,Freight Credited Back to Customer				
		DE Per Contract				
		Description: Destination with exceptions as agreed between buyer and seller				
		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				
FOB02	309	Location Qualifier	C	ID	1/2	Used
		Description: Code identifying type of location.				
		<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				

<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>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined																
<u>Code</u>	<u>Name</u>																					
ZZ	Mutually Defined																					
FOB03	352	Description Description: A free-form description to clarify the related data elements and their content.	O	AN	1/80	Used																
FOB06	309	Location Qualifier Description: 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				
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OR	Origin (Shipping Point)																					
OV	On Vessel (Free On Board [FOB] point)																					
PL	Plant																					
WH	Warehouse																					

PWK Paperwork

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

To identify the type and transmission of paperwork or supporting information

Syntax:

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

Comments:

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

User:

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

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

Element Summary:

<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	Report Type Code	M	ID	2/2	Must use
		Description: Code indicating the title or contents of a document, report or supporting item				
		<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		
				User: <i>Specifications, generated by a customer, setting acceptance limits on the properties or performance of the product being purchased; purchasing specifications may additionally supply instructions for packaging, transportation, delivery, and payments</i>		
		SI		Seller Inventory Report		
PWK02	756	Report Transmission Code	O	ID	2/2	Used
		Description: Code defining timing, transmission method or format by which reports are to be sent				
		User: <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>				
		<u>Code</u>		<u>Name</u>		
		AE		Electronically After Shipping		
		BM		By Mail		
		EL		Electronically Only		
		FX		By Fax		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PWK07	352	Description Description: A free-form description to clarify the related data elements and their content.	O	AN	1/80	Used

IT1 Baseline Item Data (Invoice)

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

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

Syntax:

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

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

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

User:

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

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

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

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

Element Summary:

<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	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set. User: <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	1/11	Must use
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units). User: <i>Either IT102 or IT104 may be negative, BUT NOT BOTH.</i>	M	R	1/10	Must use

<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	Unit or Basis for Measurement Code	M	ID	2/2	Must use

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

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

<u>Code</u>	<u>Name</u>
01	Actual Pounds
14	Shot
16	115 Kilogram Drum Description: A cylindrical container whose contents weigh 115 kilograms when full
18	55 Gallon Drum Description: A cylindrical container whose volume is equal to 55 gallons
1A	Car Mile Description: One freight car moving one mile
1I	Fixed Rate Description: Indicates a predetermined or set rate for usage of a facility
1J	Ton Miles Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way
23	Grams per Cubic Centimeter Description: Represents product density
28	Kilograms per Square Meter Description: Represents product basis weight
2Z	Millivolts Description: Unit of electrical potential
3C	Manmonth Description: Measure of work output by a single person during a typical work month
43	Super Bulk Bag Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form
47	50 Pound Bag Description: A flexible container whose contents weigh 50 pounds when full
4K	Milliamperes Description: Unit of electrical current
4L	Megabyte Description: Unit of computer storage capacity
59	Parts Per Million
68	Ampere
70	Volt
84	Kilo Pounds Per Square Inch (KSI)

<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>				
	86	Joules				
	97	10 Kilogram Drum				
		Description: A cylindrical container whose contents weigh 10 kilograms when full				
	A9	Rate				
		Description: A measure expressed in dollars that will be applicable for a period of time or for a particular event				
	AC	Acre				
	AT	Atmosphere				
		Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch				
	B5	Billet				
	BA	Bale				
	BB	Base Box				
	BC	Bucket				
	BD	Bundle				
	BE	Beam				
	BF	Board Feet				
	BG	Bag				
	BI	Bar				
	BL	Block				
	BN	Bulk				
	BO	Bottle				
	BR	Barrel				
	BU	Bushel				
	BX	Box				
	BZ	Million BTU's				
	C7	Centipoise (CPS)				
	C8	Cubic Decimeter				
	CA	Case				
	CB	Carboy				
	CC	Cubic Centimeter				
	CD	Carat				
	CE	Centigrade				
	CF	Cubic Feet				
	CH	Container				
	CI	Cubic Inches				
	CM	Centimeter				
	CN	Can				
	CO	Cubic Meters (Net)				
	CR	Cubic Meter				
	CS	Cassette				
	CT	Carton				
	CU	Cup				
	CW	Hundred Pounds (CWT)				
	CX	Coil				
	CY	Cubic Yard				
	DA	Days				
	DD	Degree				
	DF	Dram				
	DH	Miles				
	DM	Decimeter				
	DR	Drum				
	DZ	Dozen				
	EA	Each				
	FA	Fahrenheit				
	FE	Track Foot				
		Description: Represents rails, all ties and				

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Code				
		Name				
		MR				
		Meter				
		NB				
		Barge				
		NL				
		Load				
		NS				
		Short Ton				
		Description:				
		Two thousand pounds				
		NW				
		Newton				
		Description:				
		Represents force in the				
		International Metric System (SI); equal to the force				
		that produces an acceleration of 1 meter per second				
		on a mass of 1 kilogram				
		OT				
		Overtime Hours				
		OZ				
		Ounce - Av				
		P1				
		Percent				
		PA				
		Pail				
		PC				
		Piece				
		PD				
		Pad				
		PF				
		Pallet (Lift)				
		PK				
		Package				
		PL				
		Pallet/Unit Load				
		PR				
		Pair				
		PS				
		Pounds per Sq. Inch				
		PT				
		Pint				
		QT				
		Quart				
		R3				
		Revolutions Per Minute				
		RD				
		Rod				
		RE				
		Reel				
		RL				
		Roll				
		RM				
		Ream				
		RU				
		Run				
		S2				
		Seconds (time)				
		S4				
		Square Meters per Second				
		SB				
		Square Mile				
		SF				
		Square Foot				
		SH				
		Sheet				
		SI				
		Square Inch				
		SJ				
		Sack				
		SM				
		Square Meter				
		SO				
		Spool				
		SR				
		Strip				
		ST				
		Set				
		SV				
		Skid				
		TB				
		Tube				
		TC				
		Truckload				
		TE				
		Tote				
		TG				
		Gross Ton				
		TH				
		Thousand				
		TK				
		Tank				
		TL				
		Thousand Feet (Linear)				
		TN				
		Net Ton (2				
		TO				
		Troy Ounce				
		TQ				
		Thousand Feet				
		TS				
		Thousand Square Feet				
		UN				
		Unit				
		WK				
		Week				
		YD				
		Yard				
		YR				
		Years				
IT104	212	Unit Price	M	R	1/14	Must use
		Description:				
		Price per unit of product, service,				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
		commodity, etc.																														
		User: <i>Either IT102 or IT104 may be negative, but not BOTH.</i>																														
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	Used																										
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VN	Vendor's (Seller's) Item Number																															
IT107	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used																										
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: <i>See IT106 for applicable code values.</i>	O	ID	2/2	Used																										
IT109	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used																										
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: <i>See IT106 for applicable code values.</i>	O	ID	2/2	Used																										
IT111	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used																										
IT112	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: <i>See IT106 for applicable code values.</i>	O	ID	2/2	Used																										
IT113	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used																										
IT114	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).	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>
		User: See IT106 for applicable code values.				
		All valid X12 codes are used.				
IT115	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
IT116	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See IT106 for applicable code values.	O	ID	2/2	Used
IT117	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
IT118	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See IT106 for applicable code values.	O	ID	2/2	Used
IT119	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
IT120	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See IT106 for applicable code values.	O	ID	2/2	Used
IT121	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
IT122	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). All valid X12 codes are used.	O	ID	2/2	Not used
IT123	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Not used
IT124	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). All valid X12 codes are used.	O	ID	2/2	Not used
IT125	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Not used

IT3 Additional Item Data

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

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

Syntax:

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

User:

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

Element Summary:

<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	Number of Units Shipped	C	R	1/10	Used
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.				
IT302	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

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

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

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

<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>				
	CL	Cylinder				
	CM	Centimeter				
	CN	Can				
	CP	Crate				
	CQ	Cartridge				
	CR	Cubic Meter				
	CS	Cassette				
	CT	Carton				
	CU	Cup				
	CW	Hundred Pounds (CWT)				
	CX	Coil				
	CY	Cubic Yard				
	DA	Days				
	DD	Degree				
	DF	Dram				
	DH	Miles				
	DM	Decimeter				
	DR	Drum				
	DZ	Dozen				
	EA	Each				
	FA	Fahrenheit				
	FE	Track Foot				
		Description:	Represents rails, all ties and fittings, and subgrade			
	FP	Pounds per Sq. Ft.				
	FR	Feet Per Minute				
		Description:	Measure of linear speed			
	FT	Foot				
	GA	Gallon				
	GE	Pounds per Gallon				
	GL	Grams per Liter				
	GR	Gram				
	GS	Gross				
	GX	Grain				
		Description:	A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram			
	GY	Gross Yard				
	H4	Hectoliter				
		Description:	Metric measure for 100 liters			
	HA	Hank				
		Description:	One hundred feet of rope			
	HF	Hundred Feet				
	HH	Hundred Cubic Feet				
	HJ	Horsepower				
	HO	Hundred Troy Ounces				
	HR	Hours				
	HV	Hundred Weight (Short)				
	HW	Hundred Weight (Long)				
	HZ	Hertz				
	IA	Inch Pound				
		Description:	Unit of torque			
	IN	Inch				
	JO	Joint				
	JR	Jar				
	JU	Jug				
	K7	Kilowatt				
		Description:	Measure of electrical power			
	KC	Kilograms per Cubic Meter				
	KE	Keg				

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

<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>				
		SY				Square Yard
		TB				Tube
		TC				Truckload
		TE				Tote
		TG				Gross Ton
		TH				Thousand
		TK				Tank
		TL				Thousand Feet (Linear)
		TN				Net Ton (2
		TO				Troy Ounce
		TQ				Thousand Feet
		TS				Thousand Square Feet
		UN				Unit
		WK				Week
		YD				Yard
		YR				Years
IT303	368	Shipment/Order Status Code	C	ID	2/2	Not used
		Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.				
		All valid X12 codes are used.				
IT304	383	Quantity Difference	C	R	1/9	Used
		Description: Numeric value of variance between ordered and shipped quantities.				
IT305	371	Change Reason Code	C	ID	2/2	Not used
		Description: Code specifying the reason for price or quantity change.				
		All valid X12 codes are used.				

TXI Tax Information

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

Comments:

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

User:

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

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

Element Summary:

<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	Tax Type Code	M	ID	2/2	Must use

Description: Code specifying the type of tax.

<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
	Description: Canadian value-added tax
LO	Local Tax (Not Sales Tax)
	Description: Service tax imposed on a local level
LS	State and Local Sales Tax
MT	Metropolitan Transit Tax
SP	State/Provincial Tax
	Description: State tax levied which excludes sales or excise taxes
ST	State Sales Tax

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

		VA	Value Added Tax				
TXI02	782	Monetary Amount		C	R	1/15	Used
		Description:	Monetary amount.				
TXI03	954	Percent		C	R	1/10	Used
		Description:	Percentage expressed as a decimal				
TXI06	441	Tax Exempt Code		C	ID	1/1	Used
		Description:	Code identifying exemption status from sales and use tax.				
		User:	<i>Use these code values to identify the taxability of services related to material items.</i>				
			<i>For example: Use code = 1 for Federal Offshore Water Properties. Use code = 7 when a direct pay authorization is held by purchaser.</i>				
		Code	Name				
		1	Yes (Tax Exempt)				
		2	No (Not Tax Exempt)				
		7	Direct Pay ID				
TXI08	828	Dollar Basis For Percent		O	R	1/9	Used
		Description:	Dollar basis to be used in the percent calculation of the allowance, charge or tax				

CTP Pricing Information

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

To specify pricing information

Semantics:

Comments:

Element Summary:

<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	Class of Trade Code Description: Code indicating class of trade.	O	ID	2/2	Used				
		<table><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>MF</td><td>Manufacturer</td></tr></tbody></table>	<u>Code</u>	<u>Name</u>	MF	Manufacturer				
<u>Code</u>	<u>Name</u>									
MF	Manufacturer									
CTP02	236	Price Identifier Code Description: Code identifying pricing specification.	O	ID	3/3	Used				
		<table><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>TOT</td><td>Total Invoice Amount Due</td></tr></tbody></table>	<u>Code</u>	<u>Name</u>	TOT	Total Invoice Amount Due				
<u>Code</u>	<u>Name</u>									
TOT	Total Invoice Amount Due									
CTP03	212	Unit Price Description: Price per unit of product, service, commodity, etc.	O	R	1/14	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.
 C0304 -- If MEA03 is present, then MEA04 is required
 C0504 -- If MEA05 is present, then MEA04 is required
 C0604 -- If MEA06 is present, then MEA04 is required
 L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
 E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

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

Comments:

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

User:

This segment is to be used by CIDX ONLY.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies	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>TR</td> <td>Test Results</td> </tr> <tr> <td></td> <td>Description: Indicates that the data to follow are the results test measurements</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TR	Test Results		Description: Indicates that the data to follow are the results test measurements				
<u>Code</u>	<u>Name</u>											
TR	Test Results											
	Description: Indicates that the data to follow are the results test measurements											
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PY</td> <td>Percent of Water</td> </tr> <tr> <td>PSA</td> <td>Percent Solution Actual</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	PY	Percent of Water	PSA	Percent Solution Actual				
<u>Code</u>	<u>Name</u>											
PY	Percent of Water											
PSA	Percent Solution Actual											
MEA03	739	Measurement Value Description: The value of the measurement.	C	R	1/10	Used						
MEA04	C001	Composite Unit of Measure Description: 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 Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has	M	ID	2/2	Must use						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
		been taken								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>Percent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P1	Percent				
<u>Code</u>	<u>Name</u>									
P1	Percent									
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	O	ID	2/2	Used				
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	O	ID	2/2	Used				
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	O	ID	2/2	Used				
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	O	ID	2/2	Used				
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				
	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	O	ID	2/2	Used				
	1018	Exponent Description: Power to which a unit is raised.	O	R	1/15	Used				

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

PID Product/Item Description

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

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

Syntax:

C0403 -- If PID04 is present, then PID03 is required
R0405 -- At least one of PID04 or PID05 is required.
C0703 -- If PID07 is present, then PID03 is required
C0803 -- If PID08 is present, then PID03 is required

Semantics:

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

Comments:

1. If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

User:

FOR SERVICE INVOICES ONLY:

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

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
PID01	349	Item Description Type Description: 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	Description Description: A free-form description to clarify the related data elements and their content.	C	AN	1/80	Used				
		User: <i>PID05 should be used to reference line item description.</i>								

PWK Paperwork

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

To identify the type and transmission 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	Report Type Code Description: 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	Report Transmission Code Description: Code defining timing, transmission method or format by which reports are to be sent User: <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	2/2	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	Description Description: A free-form description to clarify the related data elements and their content.	O	AN	1/80	Used														

REF Reference Numbers

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

To specify identifying numbers.

Syntax:

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

User:

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

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

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

Element Summary:

<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	Reference Number Qualifier	M	ID	2/2	Must use
		Description: Code qualifying the Reference Number.				
		<u>Code</u> <u>Name</u>				
		19 Division Identifier				
		AE Authorization for Expense (AFE) Number				
		CA Cost Allocation Reference				
		CR Customer Reference Number				
		User: Use this code value to represent the Customer Accounting Reference Number.				
		DJ Delivery Ticket Number				
		EP Export Permit Number				
		IT Internal Customer Number				
		JB Job (Project) Number				
		Description: Use this code value to denote the Job/Work Order Number.				
		User: Use this code value to denote the Job/Work Order Number.				
		LU Location Number				
		User: Use this code value to represent either the well or field identification number.				
		OI Original Invoice Number				
		User: The original invoice number should be noted in the REF02 if a credit memo is sent with a unique invoice number.				
		PA Price Area Number				
		WN Well Number				
		User: Use this code value to represent either the well or field name.				
REF02	127	Reference Number	C	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF03	352	Description Description: 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: 5

To specify pertinent dates and times

Syntax:

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

User:

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

Element Summary:

<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	Date/Time Qualifier Description: 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 Description: Date repair order was opened</td> </tr> <tr> <td>151</td> <td>Service Period End Description: Date repair order was closed</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 Description: Date repair order was opened	151	Service Period End Description: Date repair order was closed	214	Date of Repair/Service				
<u>Code</u>	<u>Name</u>															
011	Shipped															
150	Service Period Start Description: Date repair order was opened															
151	Service Period End Description: Date repair order was closed															
214	Date of Repair/Service															
DTM02	373	Date Description: Date (YYMMDD).	C	DT	6/6	Used										
DTM03	337	Time Description: Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	C	TM	4/6	Not used										
DTM04	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow. All valid X12 codes are used.	O	ID	2/2	Not used										
DTM05	624	Century Description: The first two characters in the designation of the year (CCYY).	O	N0	2/2	Used										

ITA Allowance, Charge or Service

Pos: 180	Max: 1
Detail - Optional	
Loop: ITA	Elements: 12

To specify allowances, charges or services

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required

C1011 -- If ITA10 is present, then ITA11 is required

C1502 -- If ITA15 is present, then ITA02 is required

Semantics:

1. ITA12 is the quantity of free goods.

Comments:

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

User:

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITA01	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				
ITA04	331	Allowance or Charge Method of Handling Code	M	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge.				
		<u>Code</u> <u>Name</u>				
		02 Off Invoice				
		04 Credit Customer Account				
		06 Charge to be Paid by Customer				

User: For CIDX use only.

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITA07	360	Allowance or Charge Total Amount Description: Total dollar amount for the allowance or charge.	O	N2	1/9	Used
ITA08	378	Allowance/ Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated. All valid X12 codes are used.	O	ID	1/1	Used
ITA09	332	Allowance or Charge Percent Description: Allowance or charge expressed as a percent.	C	R	1/6	Used
ITA10	339	Allowance or Charge Quantity Description: Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.	O	R	1/10	Used
ITA11	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used

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

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

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

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

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

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ITA12	380	Quantity Description: Numeric value of quantity.	O	R	1/15	Used																																
ITA13	352	Description Description: A free-form description to clarify the related data elements and their content. User: <i>If additional information is available on ITA14, ITA13 should contain that description.</i>	C	AN	1/80	Used																																
ITA14	150	Special Charge or Allowance Code Description: Code identifying type of special charge or allowance.	C	ID	3/3	Must use																																
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ITA15	822	Source Subqualifier Description: A reference that indicates the table or text maintained by the Source Qualifier.	O	AN	1/15	Not used																																
ITA16	662	Price Relationship Code Description: Code indicating the relationship of the price or amount to the associated segment. All valid X12 codes are used.	O	ID	1/1	Used																																

SLN Subline Item Detail

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

To specify product subline detail item data

Syntax:

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

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

User:

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

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

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

Element Summary:

<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	1/11	Must use

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

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																								
SLN02	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set.	O	AN	1/11	Not used																								
SLN03	661	Configuration Code Description: Code indicating the relationship of the subline item to the baseline item. <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Included</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	I	Included	M	ID	1/1	Must use																				
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SLN05	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken User: <i>Please note that the following subset of DE 355 code values are the code values commonly used to convey unit of measurement information by the industry. However, the transaction set will not be rejected for non-compliance if other valid DE 355 code values are used from the full DE 355 code list contained in ASC X12 Version/Release 3030.</i> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>14</td> <td>Shot</td> </tr> <tr> <td>16</td> <td>115 Kilogram Drum Description: A cylindrical container whose contents weigh 115 kilograms when full</td> </tr> <tr> <td>18</td> <td>55 Gallon Drum Description: A cylindrical container whose volume is equal to 55 gallons</td> </tr> <tr> <td>1A</td> <td>Car Mile Description: One freight car moving one mile</td> </tr> <tr> <td>1I</td> <td>Fixed Rate Description: Indicates a predetermined or set rate for usage of a facility</td> </tr> <tr> <td>1J</td> <td>Ton Miles Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way</td> </tr> <tr> <td>23</td> <td>Grams per Cubic Centimeter Description: Represents product density</td> </tr> <tr> <td>28</td> <td>Kilograms per Square Meter Description: Represents product basis weight</td> </tr> <tr> <td>2Z</td> <td>Millivolts Description: Unit of electrical potential</td> </tr> <tr> <td>3C</td> <td>Manmonth Description: Measure of work output by a single person during a typical work month</td> </tr> <tr> <td>43</td> <td>Super Bulk Bag Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	14	Shot	16	115 Kilogram Drum Description: A cylindrical container whose contents weigh 115 kilograms when full	18	55 Gallon Drum Description: A cylindrical container whose volume is equal to 55 gallons	1A	Car Mile Description: One freight car moving one mile	1I	Fixed Rate Description: Indicates a predetermined or set rate for usage of a facility	1J	Ton Miles Description: Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way	23	Grams per Cubic Centimeter Description: Represents product density	28	Kilograms per Square Meter Description: Represents product basis weight	2Z	Millivolts Description: Unit of electrical potential	3C	Manmonth Description: Measure of work output by a single person during a typical work month	43	Super Bulk Bag Description: A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose	M	ID	2/2	Must use
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	<u>Code</u>	<u>Name</u>				
		materials in bulk form				
	47	50 Pound Bag				
		Description: A flexible container whose contents weigh 50 pounds when full				
	4G	Microliter				
		Description: 1/1,000,000 liter				
	4K	Milliamperes				
		Description: Unit of electrical current				
	4L	Megabyte				
		Description: Unit of computer storage capacity				
	59	Parts Per Million				
	68	Ampere				
	70	Volt				
	84	Kilo Pounds Per Square Inch (KSI)				
	85	Foot Pounds				
	97	10 Kilogram Drum				
		Description: A cylindrical container whose contents weigh 10 kilograms when full				
	AC	Acre				
	AE	Amperes per Meter				
	AT	Atmosphere				
		Description: Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch				
	B5	Billet				
	BA	Bale				
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	BC	Bucket				
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	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				

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

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

<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> YR				
		<u>Name</u> Years				
SLN06	212	Unit Price Description: Price per unit of product, service, commodity, etc.	C	R	1/14	Used
SLN07	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item. All valid X12 codes are used.	O	ID	2/2	Not used
SLN08	662	Price Relationship Code Description: Code indicating the relationship of the price or amount to the associated segment. All valid X12 codes are used.	O	ID	1/1	Not used
SLN09	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). <u>Code</u> CB CG CQ IN MG MN SN TP VN <u>Name</u> Buyer's Catalog Number Commodity Grouping Description: Use this code value to denote WORLD CODE (CIMIS Number). Equipment Code per COPAS standard Description: Refer to Code Source 61 in the Appendix. Buyer's Item Number Manufacturer's Part Number Model Number Serial Number Product Type Code Vendor's (Seller's) Item Number	O	ID	2/2	Used
SLN10	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN11	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicable code values.	O	ID	2/2	Used
SLN12	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN13	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicable code values.	O	ID	2/2	Used
SLN14	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN15	235	Product/Service ID Qualifier	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>
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicalbe code values.				
SLN16	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN17	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicalbe code values.	O	ID	2/2	Used
SLN18	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN19	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicalbe code values.	O	ID	2/2	Used
SLN20	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN21	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicalbe code values.	O	ID	2/2	Used
SLN22	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Used
SLN23	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234). User: See SLN09 for applicalbe code values.	O	ID	2/2	Used
SLN24	234	Product/Service ID Description: Identifying number for a product or service.	C	AN	1/30	Not 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:

- C0403 -- If PID04 is present, then PID03 is required
- R0405 -- At least one of PID04 or PID05 is required.
- C0703 -- If PID07 is present, then PID03 is required
- C0803 -- If PID08 is present, then PID03 is required

Semantics:

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

Comments:

1. If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

User:

Use of this segment is limited to SERVICE INVOICES ONLY.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
PID01	349	Item Description Type Description: 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	Description Description: A free-form description to clarify the related data elements and their content.	C	AN	1/80	Used				
		User: <i>Use PID05 to describe the subtitle item.</i>								

TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

Comments:

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

User:

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	361	Total Invoice Amount Description: Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable). User: <i>The Total Invoice Amount (TDS01) is the sum of all amounts relayed in the detail area (including charges/allowances in ITA segments and taxes in TXI segments) plus all charges/allowances and taxes reflected in the ITA and TXI segments in the summary area.</i>	M	N2	1/10	Must use
TDS02	390	Amount Subject to Terms Discount Description: Amount upon which the terms discount amount is calculated.	C	N2	1/10	Used
TDS03	391	Discounted Amount Due Description: Amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount.)	O	N2	1/10	Used
TDS04	362	Terms Discount Amount Description: Total amount of terms discount.	O	N2	1/10	Used

TXI Tax Information

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

To specify tax information.

Syntax:

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

Comments:

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

User:

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

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

This segment not previously used by CIDX.

Element Summary:

<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	Tax Type Code	M	ID	2/2	Must use
		Description: Code specifying the type of tax.				
		Code Name				
		CP County/Parish Sales Tax				
		CS City Sales Tax				
		CT County Tax				
		FT Federal Excise Tax				
		GR Gross Receipts Tax				
		GS Goods and Services Tax				
		User: Canadian value-added tax				
		LO Local Tax (Not Sales Tax)				
		User: Service tax imposed on a local level				
		LS State and Local Sales Tax				
		LT Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)				
		MT Metropolitan Transit Tax				
		SP State/Provincial Tax				
		User: State tax levied which excludes sales or excise taxes				
		ST State Sales Tax				
		Description: .				
		User: The ST qualifier is to be used to denote the Well Service Tax Code which was				

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

TX All Taxes

User: Total of all applicable taxes

VA Value Added Tax

ZZ Mutually Defined

TXI02	782	Monetary Amount	C	R	1/15	Used
		Description: Monetary amount.				
TXI03	954	Percent	C	R	1/10	Used
		Description: Percentage expressed as a decimal				
TXI06	441	Tax Exempt Code	C	ID	1/1	Used
		Description: Code identifying exemption status from sales and use tax.				

<u>Code</u>	<u>Name</u>
1	Yes (Tax Exempt)
2	No (Not Tax Exempt)
7	Direct Pay ID

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

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

CAD Carrier Detail

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

To specify transportation details for the transaction

Syntax:

R0504 -- At least one of CAD05 or CAD04 is required.

C0708 -- If CAD07 is present, then CAD08 is required

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																										
CAD01	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment. Internal: <i>Are both code values J and M needed?</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>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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T	Best Way (Shippers Option)																															
U	Private Parcel Service																															
AE	Air Express																															
SR	Supplier Truck																															
CAD02	206	Equipment Initial Description: Prefix or alphabetic part of an equipment unit's identifying number.	O	AN	1/4	Used																										
CAD03	207	Equipment Number Description: 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	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	C	ID	2/4	Used																										
CAD05	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.	C	AN	1/35	Used																										
CAD06	368	Shipment/Order Status Code Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction. All valid X12 codes are used.	O	ID	2/2	Not used																										
CAD07	128	Reference Number Qualifier	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>														
		Description: Code qualifying the Reference Number.																		
		<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 Description: A reference number assigned by a carrier to uniquely identify a single package</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> <tr> <td>WY</td> <td>Rail Waybill Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	08	Carrier Assigned Package Identification Number Description: A reference number assigned by a carrier to uniquely identify a single package	2I	Tracking Number	BM	Bill of Lading Number	DJ	Delivery Ticket Number	FR	Freight Bill Number	WY	Rail Waybill Number				
<u>Code</u>	<u>Name</u>																			
08	Carrier Assigned Package Identification Number Description: A reference number assigned by a carrier to uniquely identify a single package																			
2I	Tracking Number																			
BM	Bill of Lading Number																			
DJ	Delivery Ticket Number																			
FR	Freight Bill Number																			
WY	Rail Waybill Number																			
CAD08	127	Reference Number Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C	AN	1/30	Used														
CAD09	284	Service Level Code Description: Code defining service All valid X12 codes are used.	O	ID	2/2	Used														

ITA Allowance, Charge or Service

Pos: 040	Max: 1
Summary - Optional	
Loop: ITA	Elements: 12

To specify allowances, charges or services

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required

C1011 -- If ITA10 is present, then ITA11 is required

C1502 -- If ITA15 is present, then ITA02 is required

Semantics:

1. ITA12 is the quantity of free goods.

Comments:

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

User:

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

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITA01	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				
ITA04	331	Allowance or Charge Method of Handling Code	M	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge.				
		<u>Code</u> <u>Name</u>				

<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>02</td> <td>Off Invoice</td> </tr> <tr> <td>06</td> <td>Charge to be Paid by Customer</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	02	Off Invoice	06	Charge to be Paid by Customer														
<u>Code</u>	<u>Name</u>																					
02	Off Invoice																					
06	Charge to be Paid by Customer																					
ITA07	360	Allowance or Charge Total Amount Description: Total dollar amount for the allowance or charge.	O	N2	1/9	Used																
ITA08	378	Allowance/ Charge Percent Qualifier Description: Code indicating on what basis allowance or charge percent is calculated. All valid X12 codes are used.	O	ID	1/1	Used																
ITA09	332	Allowance or Charge Percent Description: Allowance or charge expressed as a percent.	C	R	1/6	Used																
ITA10	339	Allowance or Charge Quantity Description: Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.	O	R	1/10	Used																
ITA11	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	C	ID	2/2	Used																
ITA12	380	Quantity Description: Numeric value of quantity.	O	R	1/15	Used																
ITA13	352	Description Description: A free-form description to clarify the related data elements and their content. User: <i>If additional information is available on ITA14, ITA13 should contain that description.</i>	C	AN	1/80	Used																
ITA14	150	Special Charge or Allowance Code Description: Code identifying type of special charge or allowance. <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>400</td> <td>Freight</td> </tr> <tr> <td>405</td> <td>Fuel Surcharge</td> </tr> <tr> <td>690</td> <td>Special Handling Service</td> </tr> <tr> <td>DSC</td> <td>Discount</td> </tr> <tr> <td>INC</td> <td>Insurance Surcharge</td> </tr> <tr> <td>LAE</td> <td>One-Time License Fee</td> </tr> <tr> <td>RAK</td> <td>Royalties</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	400	Freight	405	Fuel Surcharge	690	Special Handling Service	DSC	Discount	INC	Insurance Surcharge	LAE	One-Time License Fee	RAK	Royalties	C	ID	3/3	Used
<u>Code</u>	<u>Name</u>																					
400	Freight																					
405	Fuel Surcharge																					
690	Special Handling Service																					
DSC	Discount																					
INC	Insurance Surcharge																					
LAE	One-Time License Fee																					
RAK	Royalties																					
ITA15	822	Source Subqualifier Description: A reference that indicates the table or text maintained by the Source Qualifier.	O	AN	1/15	Used																
ITA16	662	Price Relationship Code Description: Code indicating the relationship of the price or amount to the associated segment. All valid X12 codes are used.	O	ID	1/1	Used																

CTT Transaction Totals

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

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

Syntax:

C0304 -- If CTT03 is present, then CTT04 is required

C0506 -- If CTT05 is present, then CTT06 is required

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set. User: <i>The total number of IT1 segments present in the transaction set.</i>	M	N0	1/6	Must use
CTT02	347	Hash Total Description: Sum values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.(See Figures Appendix for an example detailing the use of this data element.)	O	R	1/10	Not used
CTT03	81	Weight Description: Numeric value of weight.	O	R	1/10	Not used
CTT04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	C	ID	2/2	Not used
CTT05	183	Volume Description: Value of volumetric measure.	O	R	1/8	Not used
CTT06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid X12 codes are used.	C	ID	2/2	Not used
CTT07	352	Description Description: A free-form description to clarify the related data elements and their content.	O	AN	1/80	Not used

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:

1. 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	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments.	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set User: <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