

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.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	12			Used
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	>1			Used
150	FOB	F.O.B. Related Instructions	O	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					200000		
010	IT1	Baseline Item Data (Invoice)	O	1			Used
LOOP ID - PID					1000		
060	PID	Product/Item Description	O	1			Used
120	REF	Reference Identification	O	>1			Used
150	DTM	Date/Time Reference	O	10			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
030	CAD	Carrier Detail	O	1			Used
LOOP ID - SAC					25		
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
080	SE	Transaction Set Trailer	M	1			Must use

ST Transaction Set Header

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

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

Semantics:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	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>Invoice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	810	Invoice				
<u>Code</u>	<u>Name</u>									
810	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 Notes: <i>Must be unique within the group.</i>	M	AN	4/9	Must use				

BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

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

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

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	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer Notes: Control number for this document.	M	AN	1/22	Must use
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O	AN	1/22	Used
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction Notes: Codes other than "PR" may not be processed by all roads. Please verify whether an invoice type can be processed before sending.	O	ID	2/2	Must use

Only the following codes will be accepted:

<u>Code</u>	<u>Name</u>
CO	Corrected Notes: Indicates that this document replaces a previously transmitted invoice. A REF segment with code "OI" is required.
CR	Credit Memo Notes: Indicates that this document is a credit adjustment to a previously transmitted document. Since this code clearly indicates the negative aspect of this document, the Quantity Invoiced (IT102) and Unit Price (IT104) must be unsigned. An REF segment with REF01 = "OI" is required.
DR	Debit Memo Notes: Indicates that this document is a debit adjustment to a previously transmitted

<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>				
						<i>document. An REF segment with REF01 = "OI" is required.</i>
	PR	Product (or Service)				
		Notes:				<i>Indicates that this is an original invoice.</i>

CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

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

Syntax:

- C0807 -- If CUR08 is present, then CUR07 is required
- C0907 -- If CUR09 is present, then CUR07 is required
- L101112 -- If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- C1110 -- If CUR11 is present, then CUR10 is required
- C1210 -- If CUR12 is present, then CUR10 is required
- L131415 -- If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- C1413 -- If CUR14 is present, then CUR13 is required
- C1513 -- If CUR15 is present, then CUR13 is required
- L161718 -- If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- C1716 -- If CUR17 is present, then CUR16 is required
- C1816 -- If CUR18 is present, then CUR16 is required
- L192021 -- If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- C2019 -- If CUR20 is present, then CUR19 is required
- C2119 -- If CUR21 is present, then CUR19 is required

Comments:

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

Notes:

This segment must be sent if the invoice is payable in funds different from the native funds of the purchaser.

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	M	ID	2/3	Must use						
		Description: Code identifying an organizational entity, a physical location, property or an individual										
		Notes: <i>Only the following code will be accepted:</i>										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SE	Selling Party						
<u>Code</u>	<u>Name</u>											
SE	Selling Party											
CUR02	100	Currency Code	M	ID	3/3	Must use						
		Description: Code (Standard ISO) for country in whose currency the charges are specified										
		Notes: <i>Only the following codes will be accepted:</i>										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CAD</td> <td>Canadian Dollar</td> </tr> <tr> <td>USD</td> <td>US Dollar</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CAD	Canadian Dollar	USD	US Dollar				
<u>Code</u>	<u>Name</u>											
CAD	Canadian Dollar											
USD	US Dollar											

REF Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

Syntax:

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

Semantics:

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

Notes:

If this invoice is for material purchased and used in Canada, an occurrence of the REF segment is required with REF01 = "GT".

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 Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GT</td> <td>Goods and Service Tax Registration Number</td> </tr> <tr> <td>OI</td> <td>Original Invoice Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GT	Goods and Service Tax Registration Number	OI	Original Invoice Number				
<u>Code</u>	<u>Name</u>											
GT	Goods and Service Tax Registration Number											
OI	Original Invoice Number											
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>If REF01 = "OI", this number must consist of the concatenation of the original invoice Date BIG01 and the original Invoice Number BIG02 - No embedded blanks (i.e., CCYYMMDDNNNNNN...).</i>	C	AN	1/30	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:

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

Notes:

Four N1 loops are required for each invoice: one for N101 = "BF", "RE", "SF", and "ST".

The use of various segments and elements for each of the loops can be found in Table II of the Appendix.

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 Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BF</td> <td>Billed From</td> </tr> <tr> <td></td> <td>Notes: Address to which any correspondence related to this invoice should be sent.</td> </tr> <tr> <td>RE</td> <td>Party to receive commercial invoice remittance</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BF	Billed From		Notes: Address to which any correspondence related to this invoice should be sent.	RE	Party to receive commercial invoice remittance	SF	Ship From	ST	Ship To				
<u>Code</u>	<u>Name</u>																	
BF	Billed From																	
	Notes: Address to which any correspondence related to this invoice should be sent.																	
RE	Party to receive commercial invoice remittance																	
SF	Ship From																	
ST	Ship To																	
N102	93	Name Description: Free-form name	C	AN	1/60	Used												
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Notes: N103 is required in the N1 loop where N101 equals "RE". N103 will be ignored in all other N1 loops.	C	ID	1/2	Used												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	92	Assigned by Buyer or Buyer's Agent												
<u>Code</u>	<u>Name</u>																	
92	Assigned by Buyer or Buyer's Agent																	
N104	67	Identification Code Description: Code identifying a party or other code Notes: N104 is required in the N1 loop where N101 equals "RE". N104 will be ignored in all other N1 loops.	C	AN	2/80	Used												

N2 Additional Name Information

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

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

Notes:

See Table II of the Appendix.

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	1/60	Must use
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3 Address Information

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

To specify the location of the named party

Notes:

See Table II of the Appendix.

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	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

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

To specify the geographic place of the named party

Syntax:

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

Comments:

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 U.S. or Canada.

Notes:

See Table II of the Appendix.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Must use						
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Notes: Code values conform to the standard postal abbreviations. See Table III of the Appendix for the US state codes and Canadian provinces.	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) Notes: Nine digit zip codes are strongly recommended.	O	ID	3/15	Used						
N404	26	Country Code Description: Code identifying the country Notes: Assume to be "US" when not present.	O	ID	2/3	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>Canada</td> </tr> <tr> <td>US</td> <td>United States</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CA	Canada	US	United States				
<u>Code</u>	<u>Name</u>											
CA	Canada											
US	United States											

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.

P0708 -- If either PER07 or PER08 are present, then the others are required.

Notes:

See Table II of the Appendix.

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>AR</td> <td>Accounts Receivable Department</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AR	Accounts Receivable Department						
<u>Code</u>	<u>Name</u>											
AR	Accounts Receivable Department											
PER02	93	Name Description: Free-form name	O	AN	1/60	Must use						
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>FX</td> <td>Facsimile</td> </tr> <tr> <td>TE</td> <td>Telephone</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	FX	Facsimile	TE	Telephone				
<u>Code</u>	<u>Name</u>											
FX	Facsimile											
TE	Telephone											
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used						
PER05	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>FX</td> <td>Facsimile</td> </tr> <tr> <td>TE</td> <td>Telephone</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	FX	Facsimile	TE	Telephone				
<u>Code</u>	<u>Name</u>											
FX	Facsimile											
TE	Telephone											
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used						

ITD Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 6

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:

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

Comments:

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

Notes:

The following explains the use of the elements and codes:

If ITD01 = "05"

ITD07 is required

ITD03, ITD05 and ITD13 must not be sent

IF ITD01 = "08"

ITD03, ITD05, and ITD07 are required

ITD13 must not be sent

ITD03 must be greater than zero

If ITD01 = "09"

ITD13 is required

ITD03 is required for other than net proximo terms

ITD05 and ITD07 must not be sent

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	Terms Type Code	O	ID	2/2	Must use
		Description: Code identifying type of payment terms				
		Notes: Only the following codes will be accepted:				
		<u>Code</u> <u>Name</u>				
		05 Discount Not Applicable				
		08 Basic Discount Offered				
		09 Proximo				
ITD02	333	Terms Basis Date Code	O	ID	1/2	Must use
		Description: Code identifying the beginning of the terms period				
		Notes: Only the following codes will be accepted:				
		<u>Code</u> <u>Name</u>				
		3 Invoice Date				
		5 Invoice Receipt Date				

<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> 6				
		<u>Name</u> Anticipated Delivery 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 Notes: <i>Must not exceed 100%. 2% = 2 or 2.0</i>	O	R	1/6	Used
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	C	N0	1/3	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD13	765	Day of Month Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced	C	N0	1/2	Used

FOB F.O.B. Related Instructions

Pos: 150	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

To specify transportation instructions relating to shipment

Syntax:

C0302 -- If FOB03 is present, then FOB02 is required
 C0405 -- If FOB04 is present, then FOB05 is required
 C0706 -- If FOB07 is present, then FOB06 is required
 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.

Notes:

Required by the Rail Industry Forum.

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 Description: Code identifying payment terms for transportation charges	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>CC</td> <td>Collect</td> </tr> <tr> <td>DF</td> <td>Defined by Buyer and Seller</td> </tr> <tr> <td colspan="2">Notes: Code "DF" indicates that the method of payment is not specified.</td> </tr> <tr> <td>PC</td> <td>Prepaid but Charged to Customer</td> </tr> <tr> <td>PP</td> <td>Prepaid (by Seller)</td> </tr> <tr> <td>PU</td> <td>Pickup</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CC	Collect	DF	Defined by Buyer and Seller	Notes: Code "DF" indicates that the method of payment is not specified.		PC	Prepaid but Charged to Customer	PP	Prepaid (by Seller)	PU	Pickup				
<u>Code</u>	<u>Name</u>																			
CC	Collect																			
DF	Defined by Buyer and Seller																			
Notes: Code "DF" indicates that the method of payment is not specified.																				
PC	Prepaid but Charged to Customer																			
PP	Prepaid (by Seller)																			
PU	Pickup																			
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>CI</td> <td>City</td> </tr> <tr> <td>DE</td> <td>Destination (Shipping)</td> </tr> <tr> <td>OR</td> <td>Origin (Shipping Point)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CI	City	DE	Destination (Shipping)	OR	Origin (Shipping Point)										
<u>Code</u>	<u>Name</u>																			
CI	City																			
DE	Destination (Shipping)																			
OR	Origin (Shipping Point)																			
FOB07	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: 10

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

Syntax:

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

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

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

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 Notes: <i>If the purchaser's line number is sent on the purchase order, IT101 is required and must equal the line number on that purchase order. When an electronic purchase order is sent, the line number in PO101 for the item being invoiced is the line number that is required in the IT101.</i>	O	AN	1/20	Used
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units) Notes: <i>Value must be greater than zero.</i>	C	R	1/10	Must use
IT103	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 Notes: <i>Must equal the unit of measure as ordered by the buying party. See Table IV of the Appendix for Unit of Measure Code values.</i>	C	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>								
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc. Notes: <i>Unit price will be expressed in unit of measure from data element 355. Unit price will be net of gross price, trade discounts and item-specific mark-ups, but will not be adjusted for payment terms or any order-specific special charges. Unit price must be greater than or equal to zero.</i>	C	R	1/17	Must use								
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table> Notes: <i>If the order was not sent electronically and the purchaser's item code is indicated, an occurrence of data elements 235/234 is required with 235 = "PI" and 234 equal to the purchaser's item code. If the order was sent electronically with an occurrence of data elements 235/234 with 235 = "PI", then an occurrence of data elements 235/234 is required with 235 = "PI".</i>	<u>Code</u>	<u>Name</u>	MF	Manufacturer	PI	Purchaser's Item Code	VP	Vendor's (Seller's) Part Number	C	ID	2/2	Used
<u>Code</u>	<u>Name</u>													
MF	Manufacturer													
PI	Purchaser's Item Code													
VP	Vendor's (Seller's) Part Number													
IT107	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>IT108 through IT111 are repeating pairs of data elements 235 and 234. Notes shown in IT106 apply to all data elements 235.</i>	C	AN	1/48	Used								
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	MF	Manufacturer	PI	Purchaser's Item Code	VP	Vendor's (Seller's) Part Number	C	ID	2/2	Used
<u>Code</u>	<u>Name</u>													
MF	Manufacturer													
PI	Purchaser's Item Code													
VP	Vendor's (Seller's) Part Number													
IT109	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	Used								
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td>PI</td> <td>Purchaser's Item Code</td> </tr> <tr> <td>VP</td> <td>Vendor's (Seller's) Part Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	MF	Manufacturer	PI	Purchaser's Item Code	VP	Vendor's (Seller's) Part Number	C	ID	2/2	Used
<u>Code</u>	<u>Name</u>													
MF	Manufacturer													
PI	Purchaser's Item Code													
VP	Vendor's (Seller's) Part Number													
IT111	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/48	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:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

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

Comments:

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

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
		<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

REF Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 2

To specify identifying information

Syntax:

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

Semantics:

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

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 Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>EQ</td> <td>Equipment Number</td> </tr> <tr> <td>SI</td> <td>Shipper's Identifying Number for Shipment (SID) Description: A unique number (to the shipper) assigned by the shipper to identify the shipment</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	EQ	Equipment Number	SI	Shipper's Identifying Number for Shipment (SID) Description: A unique number (to the shipper) assigned by the shipper to identify the shipment				
<u>Code</u>	<u>Name</u>											
EQ	Equipment Number											
SI	Shipper's Identifying Number for Shipment (SID) Description: A unique number (to the shipper) assigned by the shipper to identify the shipment											
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>If REF01 = "EQ", this value is the locomotive number receiving the product. If REF01 = "SI", this element represents the unique identification number for the shipment/delivery being invoiced in IT1. If delivery is via tank car, the tank car number must be shown.</i>	C	AN	1/30	Used						

DTM Date/Time Reference

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

To specify pertinent dates and times

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

An occurrence of DTM with DTM01 = "192" is required for each IT1.

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>192</td> <td>Delivery Ticket</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	192	Delivery Ticket				
<u>Code</u>	<u>Name</u>									
192	Delivery Ticket									
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Must use				

TDS Total Monetary Value Summary

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

To specify the total invoice discounts and amounts

Semantics:

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount Notes: <i>Must equal the sum of (IT102 X IT104) rounded to 2 decimals, for all IT1 segments plus the sum of all SAC05 elements (with the appropriate regard for the allowance or charge indicator, SAC01).</i>	M	N2	1/15	Must use
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used

CAD Carrier Detail

Pos: 030	Max: 1
Summary - Optional	
Loop: N/A	Elements: 5

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

Notes:

Required if a Table 3 SAC segment is sent with SAC02 = "D240" (Freight Charges)

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	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>B</td><td>Barge</td></tr> <tr><td>E</td><td>Expedited Truck</td></tr> <tr><td>H</td><td>Customer Pickup</td></tr> <tr><td>I</td><td>Common Irregular Carrier</td></tr> <tr><td>J</td><td>Motor</td></tr> <tr><td>L</td><td>Contract Carrier</td></tr> <tr><td colspan="2">Notes: Contract carrier as specified by purchaser.</td></tr> <tr><td>M</td><td>Motor (Common Carrier)</td></tr> <tr><td>N</td><td>Private Vessel</td></tr> <tr><td>O</td><td>Containerized Ocean</td></tr> <tr><td>R</td><td>Rail</td></tr> <tr><td>S</td><td>Ocean</td></tr> <tr><td>W</td><td>Inland Waterway</td></tr> <tr><td>PL</td><td>Pipeline</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	B	Barge	E	Expedited Truck	H	Customer Pickup	I	Common Irregular Carrier	J	Motor	L	Contract Carrier	Notes: Contract carrier as specified by purchaser.		M	Motor (Common Carrier)	N	Private Vessel	O	Containerized Ocean	R	Rail	S	Ocean	W	Inland Waterway	PL	Pipeline				
<u>Code</u>	<u>Name</u>																																			
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R	Rail																																			
S	Ocean																																			
W	Inland Waterway																																			
PL	Pipeline																																			
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 Notes: Alpha carrier name.	C	AN	1/35	Used																														
CAD07	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Notes: Only the following code will be accepted:	O	ID	2/3	Must use																														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CN	Carrier's Reference Number (PRO/Invoice)																														
<u>Code</u>	<u>Name</u>																																			
CN	Carrier's Reference Number (PRO/Invoice)																																			
CAD08	127	Reference Identification Description: Reference information as defined for a	C	AN	1/30	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>
		particular Transaction Set or as specified by the Reference Identification Qualifier				

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 5

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

Syntax:

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

Semantics:

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified Notes: <i>Only the following codes will be accepted:</i>	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>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Allowance	C	Charge				
<u>Code</u>	<u>Name</u>											
A	Allowance											
C	Charge											
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																												
		<p>Description: Code identifying the service, promotion, allowance, or charge</p> <p>Notes: <i>Only the following codes will be accepted unless SAC05 equals zero.</i></p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>D240</td><td>Freight</td></tr> <tr><td>D360</td><td>Goods and Services Tax Charge</td></tr> <tr><td>D860</td><td>Inspection Fee</td></tr> <tr><td>E320</td><td>Leaking Underground Storage Tax (LUST)</td></tr> <tr><td>G740</td><td>Service Charge</td></tr> <tr><td>H320</td><td>State Motor Fuel</td></tr> <tr><td>H330</td><td>State Sales Charge</td></tr> <tr><td>H550</td><td>Surcharge</td></tr> <tr><td>H660</td><td>Tax - Federal Excise Tax, FET</td></tr> <tr><td>H700</td><td>Tax - Local Tax</td></tr> <tr><td>H760</td><td>Tax - State Hazardous Substance</td></tr> <tr><td>H780</td><td>Tax - Super Fund Excise Tax</td></tr> <tr><td>H850</td><td>Tax</td></tr> </tbody> </table> <p>Notes: <i>Use this code only if one of the more specific tax codes does not apply, SAC15 is required to describe this tax.</i></p>	<u>Code</u>	<u>Name</u>	D240	Freight	D360	Goods and Services Tax Charge	D860	Inspection Fee	E320	Leaking Underground Storage Tax (LUST)	G740	Service Charge	H320	State Motor Fuel	H330	State Sales Charge	H550	Surcharge	H660	Tax - Federal Excise Tax, FET	H700	Tax - Local Tax	H760	Tax - State Hazardous Substance	H780	Tax - Super Fund Excise Tax	H850	Tax				
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H700	Tax - Local Tax																																	
H760	Tax - State Hazardous Substance																																	
H780	Tax - Super Fund Excise Tax																																	
H850	Tax																																	
SAC05	610	<p>Amount</p> <p>Description: Monetary amount</p> <p>Notes: <i>Must be greater than or equal to zero.</i></p>	O	N2	1/15	Used																												
SAC13	127	<p>Reference Identification</p> <p>Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</p> <p>Notes: <i>Required for SAC02 = "D360", "H320", "H330", "H700", or "H760". Used to identify the taxing location. Format: SSZZZZZZZZ where SS is the postal abbreviation of the state/province of the taxing location. This portion of the element is required. ZZZZZZZZ is the postal zip of the txing location. This portion of the element is required for sales tax at any level.</i></p>	C	AN	1/30	Used																												
SAC15	352	<p>Description</p> <p>Description: A free-form description to clarify the related data elements and their content</p> <p>Notes: <i>Literal explanation of charge.</i></p>	C	AN	1/80	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 Notes: <i>Must be identical to the transaction set control number in the ST segment.</i>	M	AN	4/9	Must use