

810 Invoice

Functional Group ID=**IN**

Introduction:

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. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
040	CUR	Currency	M	1		
050	REF	Reference Identification	M	12		
LOOP ID - N1					200	
070	N1	Name	M	1		
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
140	DTM	Date/Time Reference	M	10		

Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - IT1					200000	
010	IT1	Baseline Item Data (Invoice)	M	1		
040	TXI	Tax Information	O	10		
120	REF	Reference Identification	O	>1		
LOOP ID - SAC					25	
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
190	TXI	Tax Information	O	10		

Summary:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
010	TDS	Total Monetary Value Summary	M	1		
020	TXI	Tax Information	O	10		
LOOP ID - SAC					25	
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
050	TXI	Tax Information	O	10		
070	CTT	Transaction Totals	M	1		n1
080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- 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.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Example: ST*810*0000001'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
810 Invoice			
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmits identifying numbers and dates
Semantic Notes: 1 BIG01 is the invoice issue date.
Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Example: BIG*20070601*363547*****CI'

Data Element Summary			
<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
BIG01	373	Date	M DT 8/8
		The invoice creation date Format - CCYYMMDD	
BIG02	76	Invoice Number	M AN 1/22
		Identifying number assigned by issuer	
		Note: Unique number for the invoice. It may not be repeated within one year	
BIG07	640	Transaction Type Code	O ID 2/2
		Code specifying the type of transaction	
		Valid Codes:	
		CI Consolidated Invoice	
		CR Credit Memo	
		Note: Credit memo is not used in Europe	

Segment: **CUR** Currency
Position: 040
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Example: CUR*II*USD'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CUR01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		Valid Code: II Issuer of Invoice	
CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M ID 3/3
		Note: Standard Alpha ISO Codes	

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Mandatory
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.

Example: REF*SI*188801'

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3

Valid Code:

SI Shipper's Identifying Number for Shipment (SID)

REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
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Note:

The SID number should match to the information/data sent in the BSN02 of the 856

Segment: **N1** Name
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Example: N1*SF*ABC CORPORATION*92*12345'
 N1*ST*VOLVO TRUCK NO. AMERICA*92*04388'
 N1*BY*VOLVO TRUCKS NO. AMERICA*91*522903'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
Valid Codes:			
		BY Buying Party (Purchaser)	
		SE Selling Party	
		SF Ship From	
		ST Ship To	
N102	93	Name Free-form name	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Valid Codes:			
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code Code identifying a party or other code	X AN 2/80

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale

Example: ITD*****20070615'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ITD06	446	Terms Net Due Date	O DT 8/8
		Date when total invoice amount becomes due expressed in format CCYYMMDD	

Segment: **DTM** Date/Time Reference
Position: 140
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

Example: DTM*011*20070530'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		Valid Code:	
		011 Shipped	
DTM02	373	Date	X DT 8/8

Note:
 Ship Date – date of shipment
 CCYYMMDD - Format

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
 1 If any of IT102 IT103 or IT104 is present, then all are required.
 2 If either IT106 or IT107 is present, then the other is required.
 3 If either IT108 or IT109 is present, then the other is required.
 4 If either IT110 or IT111 is present, then the other is required.
 5 If either IT112 or IT113 is present, then the other is required.
Semantic Notes: 1 IT101 is the purchase order line item identification.
Comments: 1 Element 235/234 combinations should be interpreted to include products and/or services.

Example: IT1**1500*EA*9.97*PE*BP*20476992*PO*M654321-556*PD*ENGINE MOUNT*VP*P20-5192'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	M R 1/10
IT103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2

Valid Codes:

EA	Each
FT	Foot
HU	100 Pieces
T3	1000 Pieces
GA	Gallon
GR	Gram
KG	Kilogram
OU	Ounce
LB	Pound
LT	Liter
MR	Meter

IT104	212	Unit Price Price per unit of product, service, commodity, etc.	M R 1/17
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Note:

This value is given with 2 decimals.

IT105	639	Basis of Unit Price Code Code identifying the type of unit price for an item	M	ID 2/2
		Valid Codes:		
		HP	Price per Hundred	
		PE	Price per Each	
		TP	Price per Thousand	
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID 2/2
		Valid Code:		
		BP	Buyer's Part Number	
IT107	234	Product/Service ID Identifying number for a product or service	M	AN 1/48
		Note: Volvo Part Number		
IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID 2/2
		Valid Code:		
		PO	Purchase Order	
IT109	234	Product/Service ID Identifying number for a product or service	M	AN 1/48
		Note: Volvo's Purchase Order		
IT110	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
		Valid Code:		
		PD	Part Number Description	
IT111	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Note:

Part Description

IT112	235	Product/Service ID Qualifier	X	ID 2/2
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Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Valid Code:

VP	Vendor Part Number
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IT113	234	Product/Service ID	X	AN 1/48
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Identifying number for a product or service

Note:

Vendor Part Number

Segment: **TXI** Tax Information
Position: 040
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 TXI03 or TXI06 is required.
Semantic Notes: 1 TXI02 is the monetary amount of the tax.

Example: TX101*GS*3.50'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2

Code specifying the type of tax

Valid Codes:

- GS** Goods and Services Tax
Canadian value-added tax
- LT** Local Sales Tax (All Applicable Sales
Taxes by Taxing Authority Below the
State Level)
- PV** Tax for Canada - Provincial Tax
- QS** Tax for Canada – Quebec Tax
- ST** State Sales Tax

TXI02	782	Monetary Amount	M R 1/18
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Monetary amount

Note:

Tax amount according to TXI101

Segment: **REF** Reference Identification
Position: 120
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.

Example: REF*SE*563284'

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Valid Code:			
		SE Serial Number	
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Note:
Vehicle or Component Serial Number

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 180
Loop: SAC Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes: 1 At least one of SAC02 or SAC03 is required.
Semantic Notes: 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.

Example: SAC*C*B750***7500*****06***CORE CHARGE'

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SAC01	248	Allowance or Charge Indicator	M ID 1/1

Code which indicates an allowance or charge for the service specified

Valid Codes:

A Allowance
 C Charge

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

Valid Codes:

A320 Air Transportation Charge
 B750 Core Charge
 C310 Discount
 C830 Expanded Service
 D900 Installation
 E820 Non-returnable Containers
 E890 Ocean Freight
 G510 Returnable Container
 G530 Rework
 G760 Set-up
 H090 Special Handling
 H110 Special Packaging
 I110 Tooling

SAC05	610	Amount	O N2 1/15
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Monetary amount

Note:

Amount of the special charge or allowance

Segment: **TXI** Tax Information
Position: 190
Loop: SAC Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 TXI03 or TXI06 is required.
Semantic Notes: 1 TXI02 is the monetary amount of the tax.

Example: TX101*GS*1.50'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Tax Type Code</u>	
TXI01	963	Code specifying the type of tax	M ID 2/2

Valid Codes:

- GS** Goods and Services Tax
Canadian value-added tax
- LT** Local Sales Tax (All Applicable Sales
Taxes by Taxing Authority Below the
State Level)
- PV** Tax for Canada - Provincial Tax
- QS** Tax for Canada – Quebec Tax
- ST** State Sales Tax

TXI02	782	Monetary Amount Monetary amount	X R 1/18
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Note:

Tax amount according to TXI101

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes: 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

Example: TDS*1495500'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
TDS01	<u>Element</u> 610	<u>Amount</u> Monetary amount	M N2 1/15

Note:

Total amount of the invoice including tax and allowances and charges.

Segment: **TXI** Tax Information
Position: 020
Loop:
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 TXI03 or TXI06 is required.
Semantic Notes: 1 TXI02 is the monetary amount of the tax.

Special Note: This segment is used to specify the tax per the total invoice

Example: TX101*GS*1.50'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Tax Type Code</u>	<u>M ID 2/2</u>
TXI01	963		

Code specifying the type of tax

Valid Codes:

- GS** Goods and Services Tax
Canadian value-added tax
- LT** Local Sales Tax (All Applicable Sales
Taxes by Taxing Authority Below the
State Level)
- PV** Tax for Canada - Provincial Tax
- QS** Tax for Canada – Quebec Tax
- ST** State Sales Tax

TXI02	782	Monetary Amount	X R 1/18
		Monetary amount	

Note:

Tax amount according to TXI101

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 040
Loop: SAC Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes: 1 At least one of SAC02 or SAC03 is required.
Semantic Notes: 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.

Special Note: This segment is used to specify the special charges per invoice

Example: SAC*C*B750***7500*****06***CORE CHARGE'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
SAC01	248	Allowance or Charge Indicator	M ID 1/1

Valid Codes:

A	Allowance
C	Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	M ID 4/4
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Valid Codes:

A320	Air Transportation Charge
B750	Core Charge
C310	Discount
C830	Expanded Service
D900	Installation
E820	Non-returnable Containers
E890	Ocean Freight
G510	Returnable Container
G530	Rework
G760	Set-up
H090	Special Handling
H110	Special Packaging
I110	Tooling

SAC05	610	Amount	M N2 1/15
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Note:

Amount of the special charge or allowance

Segment: **TXI** Tax Information
Position: 050
Loop: SAC Optional
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes: 1 At least one of TXI02 TXI03 or TXI06 is required.
Semantic Notes: 1 TXI02 is the monetary amount of the tax.

Special Note: This segment is used to specify the tax on the special charges per invoice

Example: TX101*GS*15.75'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2

Code specifying the type of tax

Valid Codes:

- GS** Goods and Services Tax
Canadian value-added tax
- LT** Local Sales Tax (All Applicable Sales
Taxes by Taxing Authority Below the
State Level)
- PV** Tax for Canada - Provincial Tax
- QS** Tax for Canada – Quebec Tax
- ST** State Sales Tax

TXI02	782	Monetary Amount	M R 1/18
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Monetary amount

Note:

Tax amount according to TXI101

Segment: **CTT** Transaction Totals
Position: 070
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Example: CTT*1*14955.00'

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CTT01	354	Number of Line Items	M N0 1/6

Total number of line items in the transaction set

Note:
Total number of IT1 segments sent

CTT02	347	Hash Total	M R 1/10
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Note:
Total amount of the invoice (excluding special charges and added tax. i.e. the total value of the goods.

Note:
This amount can be specified to a total of two decimal places.

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Comments: 1 SE is the last segment of each transaction set.
Example: SE*12*0000001'

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Examples of Application for 810 Implementation

The following examples include only mandatory segments and data elements that meet the Volvo requirements.

Example 1

The invoice is for one part/article number for goods shipped to Volvo Trucks NA. The price of the part is \$9.97 and there are no special charges. The quantity shipped is 1500 pieces. There is no tax on this invoice.

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ST*810*0000001'  
BIG*20070601*363547*****CI'  
CUR*II*USD'  
REF*SI*188801'  
N1*Sf*ABC CORPORATION (CAP)*92*12345'  
N1*ST*VOLVO TRUCK NO. AMERICA*92*04388'  
N1*BY*VOLVO TRUCKS NO. AMERICA*91*522903'  
DTM*011*20070530'  
IT1**1500*EA*9.97*PE*BP*20476992*PO*M654321-556*PD*ENGINE MOUNT*VP*P20-5192'  
TDS*1495500'  
CTT*1*14955.00'  
SE*12*0000001'
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Example 2

The invoice is for three part/article numbers for goods shipped to Volvo Parts in Ghent, Belgium. The price of the parts are \$24.92, 31.94 and 32.80. There are no special charges or tax on the invoice.

ST*810*0000001'
BIG*20070601*363544*****CI'
CUR*II*USD'
REF*SI*188806'
N1*SF*ABC CORPORATION*92*54321'
N1*ST*VOLVO PARTS CORP.*92*14489'
N1*BY*VOLVO PARTS CORPORATION*91*96234501'
DTM*011*20070530'
IT1**600*EA*24.92*PE*BP*1077574*PO*376954321095*PD*MOTOR MOUNT*VP*P165-5286'
IT1**300*EA*31.94*PE*BP*2070689*PO*376954321095*PD*MOTOR MOUNT*VP*P604-10058'
IT1**50*EA*32.80*PE*BP*20912613*PO*376954321095*PD*MOTOR MOUNT*VP*P604-10109'
TDS*2617400'
CTT*3*26174.00'
SE*14*0000001'