



EDI Transaction Set
810 - INVOICE (INBOUND)
X12 Version 4010

September 2013

ECIA's EDI Committee has reviewed this transaction set and made modifications that will benefit the electronics industry by simplifying the transaction focusing on industry specific needs.

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810 - INVOICE (INBOUND)

This transaction set is used to receive invoices from suppliers.

Header Area

<u>Segment ID</u>	<u>Description</u>	<u>Requirement</u>	<u>Max Use</u>	<u>Loop</u>
ISA	Interchange Control Header	M	1	
GS	Functional Group Header	M	1	
ST	Transaction Set Header	M	1	
BIG	Beginning Segment for Invoice	M	1	
NTE	Note/Special Instruction	O	100	
CUR	Currency	O	1	
REF	Reference Identification	O	12	
PER	Administrative Communications Contact	O	3	
N1	Name	O	1	200
N2	Additional Name Information	O	2	
N3	Address Information	O	2	
N4	Geographic Location	O	1	
REF	Reference Identification	O	12	
PER	Administrative Communications Contact	O	3	
ITD	Terms of Sale/Deferred Terms of Sale	O	>1	
DTM	Date/Time Reference	O	10	
FOB	FOB Related Instructions	O	1	

Detail Area

<u>Segment ID</u>	<u>Description</u>	<u>Requirement</u>	<u>Max Use</u>	<u>Loop</u>
IT1	Baseline Item Data (Invoice)	O	1	200,000
REF	Reference Numbers	O	>1	
CAD	Carrier Detail	O	>1	

Summary Area

<u>Segment ID</u>	<u>Description</u>	<u>Requirement</u>	<u>Max Use</u>	<u>Loop</u>
TDS	Total Monetary Value Summary	M	1	
TXI	Tax Information	O	10	
CAD	Carrier Detail	O	1	
ISS	Invoice Shipment Summary	O	1	
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	
GE	Functional Group Trailer	M	1	
IEA	Interchange Control Trailer	M	1	

SEGMENT: ST - Transaction Set Header

Usage: The first segment of each transaction set, containing the transaction set identifier and control number.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
ST01	143	Transaction Set ID Code	M	3/3	810
ST02	329	Transaction Set Control Number	M	4/9	Control Number

SEGMENT: BIG - Beginning Segment for Invoice

Usage: To indicate the beginning of an invoice transaction set and to transmit document numbers and dates.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
BIG01	373	Invoice Date	M	8/8	Date of Invoice
BIG02	76	Invoice Number	M	1/22	Invoice Number
BIG03	373	Purchase Order Date	O	8/8	PO Date
BIG04	324	Purchase Order Number	M	1/22	PO Number
BIG07	640	Transaction Type Code	M	2/2	DR = Debit Memo CR = Credit PR = Product or Service

SEGMENT: NTE – Note/Special Instruction

Usage: To transmit comments or special instructions.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
NTE01	363	Note Reference Code	O	3/3	Note Reference Code
NTE02	352	Description	M	1/80	Comment/Special Instruction

SEGMENT: CUR - Currency

Usage: To specify the currency

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
CUR01	98	Entity Identifier Code	M	2/3	BT = Bill-To Party BY = Buying Party SE = Selling Party
CUR02	100	Currency Code	M	3/3	Currency Code

SEGMENT: REF - Reference Numbers

Usage: To transmit identifying numbers.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
REF01	128	Reference ID Qualifier	M	2/3	VN = Vendor Order Number IL = Internal Order Number PK = Packing List Number ZZ = Mutually Defined SI = Shipper's ID Number LT = Lot Number CI = Unique Consignment ID GC = Gov't Contract Number BM = Bill of Lading Number Ref Number Based on REF01
REF02	127	Reference Identification	C	1/30	

SEGMENT: PER – Administrative Communications Contact

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

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
PER01	366	Contact Function Code	M	2/2	AR = Accounts Receivable Dept IC = Information Contact
PER02	93	Name	O	1/60	Name based on PER01

SEGMENT: N1 - Name

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

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
N101	98	Entity ID Code	M	2/3	BT = Bill To BY = Buying Party ST = Ship To RE = Remit To II = Issuer of Invoice
N102	93	Name	C	1/60	Name Associated with N101
N103	66	Identification Code Qualifier	C	1/2	91 = Assigned By Seller 92 = Assigned By Buyer
N104	67	Identification Code	C	2/80	Code Associated with N103

SEGMENT: N2- Additional Name Information

Usage: To identify additional names.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
N201	93	Name	M	1/60	Name Associated with N101

SEGMENT: N3 - Address

Usage: To identify the location of the named party.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
N301	166	Address Information	M	1/55	Address Line 1
N302	166	Address Information	O	1/55	Address Line 2

SEGMENT: N4 - Geographic Location

Usage: To identify the geographic location of the named party.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
N401	19	City Name	O	2/30	City Associated With N101
N402	156	State or Province Code	O	2/2	State Associated With N101
N403	116	Postal Code	O	3/15	Postal Code Used With N101
N404	26	Country Code	O	2/3	Country Code Used With N101

SEGMENT: REF - Reference Numbers

Usage: To transmit identifying numbers.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
REF01	128	Reference ID Qualifier	M	2/3	VN = Vendor Order Number IL = Internal Order Number PK = Packing List Number ZZ = Mutually Defined SI = Shipper's ID Number LT = Lot Number CI = Unique Consignment ID GC = Gov't Contract Number BM = Bill of Lading Number Ref Number Based on REF01
REF02	127	Reference Identification	C	1/30	

SEGMENT: PER – Administrative Communications Contact

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

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
PER01	366	Contact Function Code	M	2/2	AR = Accounts Receivable Dept IC = Information Contact
PER02	93	Name	O	1/60	Name based on PER01

SEGMENT: ITD - Terms of Sale/Deferred Terms of Sale

Usage: To specify the terms of sale.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
ITD01	336	Terms Type Code	O	2/2	01 = Basic 05 = Discount Not Applicable 08 = Basic Discount Offered
ITD02	333	Terms Basis Date Code	O	1/2	3 = Invoice Date
ITD03	338	Terms Discount Percent	C	1/6	Percent of Discount Per Terms
ITD05	351	Terms Discount Days Due	C	1/3	Days Due In
ITD07	386	Terms Net Days	O	1/3	Net Days Per Terms
ITD12	352	Description	O	1/80	Description of Terms

SEGMENT: DTM - Date / Time Reference

Usage: To specify pertinent dates and times related to the specified invoice.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
DTM01	374	Date/Time Qualifier	M	3/3	011 = Ship Date
DTM02	373	Date	C	8/8	Date Format = YYYYMMDD

SEGMENT: FOB - FOB Related Instructions

Usage: To specify transportation instructions relating to shipment.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
FOB01	146	Shipment Method of Payment	M	2/2	DF = Defined by Buyer/Seller CC = Collect PC = Prepaid but Charged to Customer PP = Prepaid by Seller ZZ = Mutually Defined

SEGMENT: IT1 - Baseline Item Data

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

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
IT101	350	Assigned Identification	M	1/20	PO Line Item #
IT102	358	Quantity Invoiced	M	1/10	Invoice Quantity
IT103	355	Unit Of Measure Code	M	2/2	EA = Each
IT104	212	Unit Price	M	1/17	Unit Price
IT105	639	Basis of Unit Price Code	O	2/2	HP = Price per 100 PE = Price Per Each PN = Price per Ten TP = Price per 1,000
IT106	235	Prod/Serv ID Qualifier	C	2/2	BP = Buyer's Part Number VP = Vendor's Part Number
IT107	234	Prod/Serv ID	C	1/48	Part Number Based On IT106
IT108	235	Prod/Serv ID Qualifier	C	2/2	BP = Buyer's Part Number VP = Vendor's Part Number
IT109	234	Prod/Serv ID	C	1/48	Part Number Based On IT108

SEGMENT: REF - Reference Numbers

Usage: To transmit identifying numbers.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
REF01	128	Reference ID Qualifier	M	2/3	VN = Vendor Order Number IL = Internal Order Number PK = Packing List Number ZZ = Mutually Defined LT = Lot Number CI = Unique Consignment ID SI = Shipper's ID Number GC = Gov't Contract Number BM = Bill of Lading Number
REF02	127	Reference Identification	C	1/30	Number Based on REF01

SEGMENT: CAD - Carrier Detail

Usage: To specify the transportation details for the invoice.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
CAD01	91	Transportation Method Mode	O	1/2	A = Air M = Motor R = Rail AE = Air Express
CAD04	140	Standard Carrier Alpha Code	C	2/4	SCAC Code
CAD05	387	Routing	C	1/35	Carrier Name
CAD07	128	Reference Number Qualifier	O	2/3	FR = Freight Bill Number AW = Airway Bill Number SI = Shipper's ID Number BM = Bill of Lading
CAD08	127	Reference Number	C	1/30	Number Based on CAD07

SEGMENT: TDS - Total Monetary Value Summary

Usage: To specify the total invoice discounts and amounts.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
TDS01	610	Total Invoice Amount	M	1/15	Total Amount of the Invoice

SEGMENT: TXI - Tax Information

Usage: To specify tax information

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
TXI01	963	Tax Type Code	M	2/2	LS = Local and State Sales Tax VA = Value Added Tax
TXI02	782	Monetary Amount	C	1/18	Tax Amount

SEGMENT: CAD - Carrier Detail

Usage: To specify the transportation details for the invoice.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
CAD01	91	Transportation Method Mode	O	1/2	A = Air M = Motor R = Rail AE = Air Express
CAD04	140	Standard Carrier Alpha Code	C	2/4	SCAC Code
CAD05	387	Routing	C	1/35	Carrier Name
CAD07	128	Reference Number Qualifier	O	2/3	FR = Freight Bill Number AW = Airway Bill Number SI = Shipper's ID Number BM = Bill of Lading
CAD08	127	Reference Number	C	1/30	Number Based on CAD07

SEGMENT: ISS - Invoice Shipment Summary

Usage: To specify Summary details of total items shipped in terms of quantity, weight and volume.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
ISS01	382	Number of Units Shipped	C	1/10	Total Units Shipped
ISS02	355	UOM	C	2/2	EA = Each BX = Box CT = Carton

SEGMENT: CTT - Transaction Totals

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

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
CTT01	354	Number of Line Items	M	1/6	Number of IT1 Segments
CTT02	347	Hash Total	O	1/10	Sum of IT102's

SEGMENT: SE - Transaction Set Trailer

Usage: To indicate the end of the transaction set and to provide the count of the transmitted segments.

<u>Ref</u>	<u>Element Number</u>	<u>Element Name</u>	<u>Use</u>	<u>Min Max</u>	<u>Values</u>
SE01	96	Number of Included Segments	M	1/10	Number of Included Segments
SE02	329	Transaction Set Control Number	M	4/9	Same Control Number as ST02

The following is an example of an invoice for the shipment of products against a purchase order.

ST~810~1
BIG~101110~AB56676~100212~PONUMBER~~~PR
REF~PK~001375
N1~RE~REMIT TO NAME
N3~PO BOX 1234
N4~CHICAGO~IL~60694 529
N1~BT~BILL TO NAME
N3~ATTN ACCOUNTS PAYABLE~PO BOX 9053
N4~MELVILLE~NY~11747
N1~ST~SHIP TO NAME
N3~PRIMARY DIST CENTER~55 MAIN ST
N4~DALLAS~TX~753731225
ITD~05~3~~~15~~30~~~~~N3
DTM~011~101110
FOB~PP
IT1~01~100~EA~.26~~VP~VENDOR PART
TDS~2600
CAD~M~~~~FEDEX~~BM~411016723729
ISS~1~BX
CTT~1~100
SE~21~1