

Integration Specification

X12 5010 810

Invoice

B2B & D2C



Purpose: 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 practices relative to the billing for goods and services provided



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EDI Segment Hierarchy

ID	Segment Name	Req	Max Use	Usage
ISA	Interchange Control Header	M	1	Must Use
GS	Functional Group Header	M	1	Must Use

Transaction Set Header

ID	Segment Name	Req	Max Use	Usage
ST	Transaction Set Header	M	1	Must Use
BIG	Beginning Segment for Invoice	M	1	Must Use
REF	Reference Identification	O	1	Optional

N1 Loop

ID	Segment Name	Req	Max Use	Usage
N1	Name	O	1	Optional

Detail

ID	Segment Name	Req	Max Use	Usage
ITD	Terms of Sale/Deferred Terms of Sale	O	1	Optional

Line-Item Detail – IT1 Loop

ID	Segment Name	Req	Max Use	Usage
IT1	Baseline Item Date	M	10	Must Use
PID	Product/Item Description	O	10	Optional



Invoice Level Summary

ID	Segment Name	Req	Max Use	Usage
TDS	Total Monetary Value Summary	M	1	Must Use

Invoice Level Summary – SAC Loop

ID	Segment Name	Req	Max Use	Usage
SAC	Service, Promotion, Allowance or Charge Information	O	10	Conditional

Transactions Summary

ID	Segment Name	Req	Max Use	Usage
CTT	Transaction Totals	M	1	Must Use
SE	Transaction Set Trailer	M	1	Must Use
GE	Functional Group Trailer	M	1	Must Use
IEA	Interchange Control Number	M	1	Must Use



ISA Interchange Control Header

User Option (Usage): Must use.

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments.

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
ISA01	Authorization Information Qualifier	M	ID	2/2	Must Use
ISA02	Authorization Information	M	AN	10/10	Must Use
ISA03	Security Information Qualifier	M	ID	2/2	Must Use
ISA04	Security Information	M	AN	10/10	Must Use
ISA05	Interchange ID Qualifier	M	ID	2/2	Must Use
ISA06	Interchange Sender ID	M	AN	15/15	Must Use
ISA07	Interchange ID Qualifier	M	ID	2/2	Must Use
ISA08	Interchange Receiver ID	M	AN	15/15	Must Use
ISA09	Interchange Date 'YYMMDD'	M	DT	6/6	Must Use
ISA10	Interchange Time 'HHMM'	M	TM	4/4	Must Use
ISA11	Interchange Control Standards Identifier 'I'	M	ID	1/1	Must Use
ISA12	Interchange Control Version Number '00501'	M	ID	5/5	Must Use
ISA13	Interchange Control Number	M	N0	9/9	Must Use
ISA14	Acknowledgment Requested '0'	M	ID	1/1	Must Use
ISA15	Interchange Usage Indicator 'P or T'	M	ID	1/1	Must Use
ISA16	Component Element Separator '}'	M	ID	1/1	Must Use



GS Functional Group Header

User Option (Usage): Must use.

Purpose: To indicate the beginning of a functional group and provide control information.

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
GS01	Functional Identifier Code 'IN'	M	ID	2/2	Must Use
GS02	Application Senders Code	M	AN	2/15	Must Use
GS03	Application Receivers Code	M	AN	2/15	Must Use
GS04	Date 'CCYYMMDD'	M	DT	8/8	Must Use
GS05	Time 'HHMMSS'	M	TM	4/8	Must Use
GS06	Group Control Number	M	N0	1/9	Must Use
GS07	Responsible Agency Code 'X'	M	ID	1/2	Must Use
GS08	Version / Release / Industry Identifier '005010'	M	AN	1/12	Must Use



ST Transaction Set Header

User Option (Usage): Must use.

Purpose: To indicate the start of a transaction set and assign a control number.

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
ST01	Transaction Set Identifier Code '810'	M	ID	3/3	Must Use
ST02	Transaction Set Control Number	M	AN	4/9	Must Use



BIG Beginning Segment for Invoice

User Option (Usage): Must use.

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

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
BIG01	Invoice Date 'CCYYMMDD'	M	DT	8/8	Must Use
BIG02	Invoice Number	M	AN	1/30	Must Use
BIG03	Purchase Order Date 'CCYYMMDD'	M	DT	8/8	Must Use
BIG04	Purchase Order Number	M	AN	1/22	Must Use

Syntax Rules

1. BIG02 – Must be limited to 30 alphanumeric characters including only acceptable special characters '-' (Dash)



REF Reference Identification

User Option (Usage): Optional.

Purpose: To specify identifying information

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
REF01	Reference Identification Qualifier 'IA'	O	ID	2/3	Optional
REF02	Reference Identification	O	AN	1/30	Optional

GOVX Note

1. REF01 – Default to 'IA' (Internal Vendor ID Number)
2. REF02 – Unique code identifier (GOVX assigned) – Reach out to the integration team to obtain this number



N1 Party Identification

User Option (Usage): Optional

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

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
N101	Entity Identifier Code 'ST'	O	ID	2/3	Optional
N102	Name	O	AN	1/60	Optional



ITD Terms of Sale/Deferred Terms of Sale

User Option (Usage): Optional.

Purpose: To communicate terms of sale including basis date, discount percent, discount due date, discount days due, terms net due date, and term net days

ID	Segment Name	Req	Type	Max Use	Usage
ITD01	Terms Type Code '01, 08, or ZZ'	O	ID	2/3	Optional
ITD02	Terms Basis Date Code '1'	O	AN	1/1	Optional
ITD03	Terms Discount Percent	O	N	1/6	Optional
ITD04	Terms Discount Due Date 'CCYYMMDD'	O	DT	8/8	Optional
ITD05	Terms Discount Days Due	O	N	1/3	Optional
ITD06	Terms Net Due Date 'CCYYMMDD'	O	DT	8/8	Optional

Syntax Rules:

1. ITD01 – Use code '01' for Basic (No Discount), '08' for Basis Discount, or 'ZZ' for Mutually Defined
2. ITD02 – Use code '1' for Invoice Date



IT1 Baseline Item Details

User Option (Usage): Must use.

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

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
IT101	Invoice Line Item Number	M	R	1/20	Must Use
IT102	Quantity Invoiced	M	R	2/2	Must Use
IT103	Unit of Measurement Code 'EA'	M	ID	2/2	Must Use
IT104	Unit Price <i>See Syntax Rules</i>	M	R	1/17	Must Use
IT105	Empty	X			Not Used
IT106	Product/Service ID Qualifier 'UP'	M	ID	2/2	Must Use
IT107	UPC/GTIN Number	M	R	1/48	Must Use
IT108	Product/Service ID Qualifier 'VN'	O	ID	2/2	Optional
IT109	Trading Partner SKU	O	AN	1/48	Optional
IT110	Product/Service ID Qualifier 'SK'	M	ID	2/2	Must Use
IT111	SKU Number <i>SKU Found on 850</i>	M	AN	1/48	Must Use

Syntax Rules:

1. IT104 – Includes total unit price, *minus any discounts*.
 - a. Explicit decimal

Example

*IT1*1*1*EA*15.50**UP*111111111111*VN*TSTSKU1*SK*TEST-SKU-01*



PID Product/Item Description

User Option (Usage): Optional.

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

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
PID01	Item Description Type 'F'	O	ID	1/1	Optional
PID05	Description	O	AN	1/80	Optional



TDS Total Monetary Value Summary

User Option (Usage): Must use.

Purpose: To specify the total invoice amount

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
TDS01	Total Invoice Amount	M	N	1/15	Must Use
TDS02	Subtotal Invoice Amount	M	N	1/15	Must Use

Syntax Rules:

1. TDS01 is the total invoice amount including charges, less allowances
2. TDS02 is the line item subtotal before charges and allowances
 - a. **Implied decimal**

Example

*TDS*2060*2050*



SAC Service, Promotion, Allowance, or Charge Information

User Option (Usage): Optional.

Purpose: To specify the amount of percentage for the service, promotion, allowance, or charge

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
SAC01	Allowance or Charge Indicator	O	ID	1/1	Optional
SAC02	Service, Promotion, Allowance, or Charge Code	O	AN	4/4	Optional
SAC05	Amount	O	R	1/15	Optional
SAC15	Description	O	AN	1/80	Optional

Syntax Rules:

3. SAC01 – Use code ‘A’ for allowance or ‘C’ for charge
4. SAC02 – Use code ‘D240’ for freight, ‘D500’ for dropship and/or ‘C310’ for discounts
 - a. *Include any discounts to IT104*
 - b. **Implied decimal**

Example

SAC*C*D240***255*****Freight
 SAC*C*D500***255*****Dropship/Handling
 SAC*A*C310***500*****Discount



CTT Transaction Totals

User Option (Usage): Must Use.

Purpose: To transmit a hash total for a specified element in the transaction set

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
CTT01	Number of Line Items	M	R	1/6	Must Use



SE Transaction Set Trailer

User Option (Usage): Must use.

Purpose: To indicate the end of a transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
SE01	Number of included segments	M	N0	1/10	Must Use
SE02	Transaction set control number	M	N0	4/9	Must Use

Syntax Rules

1. SE02 – The value for SE02 must be identical to the value in ST02



GE Functional Group Trailer

User Option (Usage): Must use.

Purpose: To indicate the end of a functional group and to provide control information

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
GE01	Number of Transaction Sets Included	M	N0	1/6	Must Use
GE02	Group Control Number	M	N0	1/9	Must Use

Syntax Rules

2. GE02 – The value for GE02 must be identical to the value in GS06



IEA Interchange Control Trailer

User Option (Usage): Must use.

Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments

Element Summary

ID	Segment Name	Req	Type	Max Use	Usage
IEA01	Number of Transaction Sets Included	M	N0	1/5	Must Use
IEA02	Interchange Control Number	M	N0	9/9	Must Use

Syntax Rules

1. IEA02 – The value for IEA02 must be identical to the value in ISA13



810 Invoice Sample

ISA*00* *00* *ZZ*SENDERID *12*8582247800/801
*201213*1329*|*00501*100001577*0*P*:
GS*IN*SENDERID*8582247800/801*20240506*2024*284046927*X*005010
ST*810*284046729
BIG*20240506*TESTINV01*20240501*TESTPO1-TEST06
REF*IA*TEST
N1*ST*Diana Sinohui
IT1*1*1*EA*15.50**UP*111111111111*VN*TSTSKU1*SK*TEST-SKU-01
PID*F***Product Test-SKU Test-Invoice Test
TDS*2060*2050
SAC*C*D240***255*****Freight
SAC*C*D500***255*****Handling
SAC*A*C310***500*****Discount
CTT*1
SE*12*284046729
GE*1*284046927
IEA*1*100001577

