



810

INVOICE

Functional Group - IN

This X12 Transaction Set 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.

Interchange Header:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	ISA	Interchange Control Header	M	M	1	
020	GS	Functional Group Header	M	M	1	

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	ST	Transaction Set Header	M	M	1	
020	BIG	Beginning Segment for Invoice	M	M	1	
050	REF	Reference Information	M	M	>1	

LOOP ID - N1						200
070	N1	Party Identification	M	M	1	
090	N3	Party Location	M	M	2	
100	N4	Geographic Location	M	M	>1	
130	ITD	Terms of Sale	M	M	>1	
140	DTM	Date/Time Reference	O	O	10	
150	FOB	F.O.B. Related Instructions	M	M	1	

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
LOOP ID - IT1						
200000						
010	IT1	Baseline Item Data (Invoice)	M	M	1	
015	QTY	Quantity Information	M	M	5	
060	PID	Description	M	M	1000	
120	REF	Reference Information	M	M	>1	
180	SAC	Allowance or Charge Information	O	O	25	



Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	TDS	Total Monetary Value Summary	M	M	1	
020	TXI	Tax Information	O	O	>1	
040	SAC	Allowance or Charge Information	O	O	>1	
070	CTT	Transaction Totals	M	M	1	

Interchange Trailer:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>LP Req</u>	<u>Max Use</u>	<u>Repeat</u>
010	GE	Functional Group Trailer	M	M	1	
020	IEA	Interchange Control Trailer	M	M	1	

ISA - Interchange Control Header Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	'00'
ISA02	I02	Authorization Information	M	AN	10/10	10 Blanks
ISA03	I03	Security Information Qualifier	M	ID	2/2	'00'
ISA04	I04	Security Information	M	AN	10/10	10 Blanks
ISA05	I05	Sender ID Qualifier	M	ID	2/2	Sender ID Qualifier
ISA06	I06	Sender ID	M	AN	15/15	Sender ID
ISA07	I07	Receiver ID Qualifier	M	ID	2/2	Receiver ID Qualifier
ISA08	I08	Receiver ID	M	AN	15/15	Receiver ID
ISA09	I09	Date	M	DT	6/6	YYMMDD Format
ISA10	I10	Time	M	TM	4/4	HHMM Format
ISA11	I65	Control Standard	M		1/1	'U'
ISA12	I11	Control Version	M	ID	5/5	'00401'
ISA13	I12	Interchange Control Number	M	N0	9/9	Sequential number assigned by vendor
ISA14	I13	Acknowledgement Requested	M	ID	1/1	'0'
ISA15	I14	Test Indicator	M	ID	1/1	'T' - Test 'P' - Production
ISA16	I15	Sub-Element	M		1/1	'>'

GS - Functional Group Header Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GS01	479	Functional ID	M	ID	2/2	IN
GS02	142	Sender ID	M	AN	2/15	Sender ID
GS03	124	Receiver ID	M	AN	2/15	Receiver ID
GS04	373	Date	M	DT	8/8	CCYYMMDD Format
GS05	337	Time	M	TM	4/8	HHMMSSDD Format
GS06	28	Group Control Number	M	N0	1/9	Sequential number assigned
GS07	455	Agency Code	M	ID	1/1	'X'
GS08	480	Version	M	AN	1/12	'004010'

ST - Transaction Set Header

Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ST01	143	Transaction Set Identifier Code	M	ID	3/3	'810' – Invoice
ST02	329	Transaction Set Control Number	M	AN	4/9	Assigned by Sender

BIG - Beginning Segment for Invoice

Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
BIG01	373	Date	M	DT	8/8	Invoice Date
BIG02	76	Invoice Number	M	AN	1/22	
BIG03	373	Date	M	DT	8/8	PO Date
BIG04	324	Purchase Order Number	M	AN	1/22	
BIG07	640	Transaction Type Code	M	ID	2/2	'CR' – Credit Memo 'DI' – Debit Invoice

REF - Reference Information

Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'IA' – Vendor Number (Mandatory) 'LE' – Legal Entity (Mandatory) 'SS' – Supplier Site (Mandatory) 'VR' – Vendor Code (Mandatory)
REF02	127	Reference Identification	M	AN	1/80	As described in REF01

N1 - Party Identification Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N101	98	Entity Identifier Code	M	ID	2/3	'ST' – Ship To (Mandatory) 'BT' – Bill To (Mandatory) 'VN' – Vendor (Mandatory)
N102	93	Name	M	AN	1/60	Name
N103	66	Identification Code Qualifier	M	ID	1/2	'ZZ' – Mutually Defined *Only used for N1*ST
N104	67	Identification Code	M	AN	2/80	Code *Only used for N1*ST

N3 - Address Information (Loop N1) Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N301	166	Address Information	M	AN	1/55	Address 1
N302	166	Address Information	O	AN	1/55	Address 2

N4 - Geographic Location (Loop N1) Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
N401	19	City Name	M	AN	2/30	City Name
N402	156	State or Province Code	M	ID	2/2	State or Province Code
N403	116	Postal Code	M	ID	3/15	Zip Code
N404	26	Country Code	M	ID	2/3	Country Code



ITD - Terms of Sale
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
ITD12	352	Description	M	AN	1/80	Terms description

DTM - Date/Time Reference
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
DTM01	374	Date/Time Qualifier	M	ID	3/3	'010' – Ship Date (Optional) '017' – Delivery Date (Optional) '001' – Cancel Date (Optional)
DTM02	373	Date	M	DT	8/8	

FOB - F.O.B. Related Instructions
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
FOB01	146	Shipping Method of Payment	M	ID	2/2	'PP' – Prepayment 'CR' – Credit 'ST' - Standard



IT1 - Baseline Item Data (Invoice)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
IT101	350	Assigned Identification	M	AN	1/20	Line #; Must match PO
IT102	358	Quantity Invoiced	M	R	1/15	Quantity Invoiced
IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	'CA' - Case 'EA' - Each 'LB' - Pound
IT104	212	Unit Price	M	R	1/17	Unit Price *Max of 2 decimal places*
IT106	235	Product/Service ID Qualifier	M	ID	2/2	'IN' - Customer Item Number
IT107	234	Product/Service ID	M	AN	1/48	Customer Item #
IT108	235	Product/Service ID Qualifier	M	ID	2/2	'VN' - Supplier's Item Number
IT109	234	Product/Service ID	M	AN	1/48	Supplier's Item #
IT110	235	Product/Service ID Qualifier	M	ID	2/2	'UP' - UPC Number
IT111	234	Product/Service ID	M	AN	1/48	UPC #

QTY - Quantity Information (Loop IT1)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
QTY01	673	Quantity Qualifier	M	ID	2/2	'39' - Quantity Shipped (Mandatory)
QTY02	380	Quantity	M	R	1/15	
QTY03	355	Unit or Basis for Measurement Code	M	ID	2/2	'CA' - Case 'EA' - Each 'LB' - Pound

PID - Product/Item Description (Loop IT1)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Values/Comments
PID01	349	Item Description type	M	ID	1/1	'F' - Free-form
PID05	750	Description	M	AN	1/80	Free form information

REF - Reference Information
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
REF01	128	Reference Identification Qualifier	M	ID	2/3	'GL' – Distribution Combination (Mandatory)
REF02	127	Reference Identification	M	AN	1/80	As described in REF01

SAC - Allowance or Charge Information (Loop IT1)
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	'A' - Allowance
SAC02	1300	Allowance or Charge Code	M	ID	4/4	Any valid X12 value
SAC05	610	Amount	M	N2	1/15	



TDS - Total Monetary Value Summary (Summary)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TDS01	610	Amount	M	N2	1/15	Total Invoice Amount

TXI - Tax Information
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
TXI01	963	Tax Type Code	M	ID	2/2	'TX' – All Taxes
TXI02	782	Monetary Amount	M	R	1/18	

SAC - Allowance or Charge Information
Optional segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	'A' - Allowance 'C' - Charge
SAC02	1300	Allowance or Charge Code	M	ID	4/4	'D240' – Shipping Charge Any other valid X12 value
SAC05	610	Amount	M	N2	1/15	



CTT - Transaction Totals (Summary)
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
CTT01	354	Number of Line Items	M	N0	1/6	Total number of IT1 segments

SE - Transaction Set Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
SE01	96	Number of Included Segments	M	N0	1/10	Number of included segments contained in the Invoice. From and Including ST and SE.
SE02	329	Transaction Set Control Number	M	AN	4/9	Same as ST02

GE - Functional Group Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
GE01	97	Number of Transaction Sets Included	M	ID	1/6	Number of Transaction Sets Included in the Functional Group
GE02	28	Group Control Number	M	AN	1/9	Sequential Number Assigned by Vendor

IEA - Interchange Control Trailer
Mandatory segment

Ref	Ref ID	Description	Req	Type	Min / Max	Qualifiers/Definitions
IEA01	116	Number of Functional Groups Included	M	N0	1/5	Number of Functional Groups Included in transmission
IEA02	112	Interchange Control Number	M	N0	9/9	Sequential Number Assigned by Vendor



SEGMENT USAGE EXAMPLES

Example only contains mandatory fields from above

ISA*00* *00* *XX*XXXXXXXXXX *XX*XXXXXXXXXX *180729*0955*U*00401*000000001*0*P*>~
GS*IN*XXXXXXXXXX*XXXXXXXXXX*20180729*0955*1*X*004010~
ST*810*0001~
BIG*20180726*INV001*20180724*PO001***DI~
REF*IA*Vendor ID~
REF*LE*Lolli and Pops Inc~
REF*SS*Chicago-001~
REF*VR*Vendor Code~
N1*ST*Ship To Name*ZZ*7777~
N3*Ship To Address 1~
N4*City*PA*16066*USA~
N1*BT*Bill To Name~
N3*Bill To Address 1~
N4*City*PA*16066*USA~
N1*VN*Vendor Name~
N3*Vendor Address 1~
N4*City*PA*16066*USA~
ITD*****Net 30~
FOB*PP~
IT1*1*6*CA*99.99**IN*111222*VN*333444*UP*123456789012 ~
QTY*39*6*CA~
PID*F****ITEM DESCRIPTION 1~
REF*GL*10.10.01125.0000.1041110.00.000.000.00000.00000~
IT1*1*4*CA*79.99**IN*555666*VN*777888*UP*987654321012 ~
QTY*39*4*CA~
PID*F****ITEM DESCRIPTION 2~
REF*GL*10.10.01125.0000.1041110.00.000.000.00000.00000~
TDS*91990~
CTT*2~
SE*28*0001~
GE*1*1~
IEA*1*000000001~