



TriMega Purchasing Association TPA Member X12 810 Invoice Layout

The X12 format to be used will be ANSI X12 version 4010.

Segment	Description	Req	Max Use
ISA	Interchange Control Structure Header	M	1
GS	Functional Group Header	M	1
ST	Transaction Set Header	M	1
BIG	Beginning Invoice Segment	M	1
NTE	Note Segment	O	1
N1	Name (Vendor)	O	1
REF	Reference Number	O	1
N1	Name (Bill-to)	O	1
N1	Name (Ship-to)	O	1
N3	Address Information	O	2
N4	Geographic Location (City, State, Zip)	O	1
ITD	Terms of Sale	O	1
IT1	Baseline Item Data	M	100,000
PID	Product/Item Description	O	1
SAC	Service, Allowance, or Charge	O	1
TDS	Total Monetary Value Summary	M	1
CAD	Carrier Detail	O	1
TXI	Tax Information	O	4
SAC	Service, Allowance or Charge	O	25
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



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ISA - Interchange Control Header

ISA	ISA01 I01 Authorization Info Qualifier M ID 2/2	ISA02 I02 Authorization Information M AN 1/10	ISA03 I03 Security Info Qualifier M ID 2/2	ISA04 I04 Security Information M AN 1/10
ISA05 I05 Interchange ID Qualifier M ID 2/2	ISA06 I06 Interchange Sender Id M ID 15/15	ISA07 I05 Interchange Id Qualifier M ID 2/2	ISA08 I07 Interchange Receiver Id M ID 15/15	ISA09 I08 Interchange Date M DT 6/6
ISA10 I09 Interchange Time M TM 4/4	ISA11 I10 Interchange Standard M ID 1/1	ISA12 I11 Interchange Version Id M ID 5/5	ISA13 I12 Interchange Control No M N0 9/9	ISA14 I13 Acknowledge -ment Requested M ID 1/1
ISA15 I14 Test Indicator M ID 1/1	ISA16 I15 Subelement Separator M AN 1/1			

ISA01	00
ISA02	blanks
ISA03	00
ISA04	blanks
ISA05	Vendor Sender Qualifier Code
ISA06	Vendor Sender Id
ISA07	Member Receiver Qualifier Code
ISA08	Member Receiver Id
ISA09	date sent, YYMMDD
ISA10	time sent, HHMM
ISA11	U
ISA12	00400
ISA13	9-digit Interchange Control Number
ISA14	0
ISA15	P
ISA16	I



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GS - Functional Group Header

GS	GS01 479 Functional ID Code M ID 2/2	GS02 142 Application Sender's Code M AN 2/15	GS03 124 Application Receiver's Code M AN 2/15	GS04 29 Group Date M DT 8/8
GS05 30 Group Time M TM 4/8	GS06 28 Group Control Number M N0 1/9	GS07 455 Responsible Agency Code M ID 2/2	GS 480 Version/ Release Ind. Id Code M ID 1/12	

GS01 IN
GS02 Vendor's Application Sender Id
GS03 Member's Application Receiver Id
GS04 date sent, YYYYMMDD
GS05 time sent, HHMM
GS06 1-to-9-digit Group Control Number
GS07 X
GS08 004010

ST - Transaction Set Header

ST	ST01 143 Transaction Set Id M ID 3/3	ST02 329 Transaction Set Control Number M AN 4/9
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ST01 810
ST02 4-to-9-digit Transaction Set Control Number



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BIG - Beginning Invoice Segment

BIG	BIG01 245 Invoice Date M DT 8/8	BIG02 76 Invoice Number M AN 1/22	BIG03 323 Purchase Order Date O DT 8/8	BIG04 324 Purchase Order Number O AN 1/22
	BIG05 328 Purchase Order Release Num O AN 1/30	BIG06 327 Change Order Sequence No O AN 1/6	BIG07 640 Transaction Type Code O ID 2/2	

BIG01 TPA Invoice Date, YYYYMMDD
BIG02 TPA Invoice Number
BIG03 Purchase Order date sent, YYYYMMDD
BIG04 Member's Purchase Order Number
BIG05 Member's PO Release Number, *if the Member uses one*
BIG06 *not used*
BIG07 PR (for an invoice), CR (for a credit memo)

NTE - Note/Special Instruction (optional)

NTE	NTE01 363 Note Reference Code O ID 3/3	NTE02 3 Free-form Description M AN 1/60

NTE01 GEN
NTE02 Special instructions that were included on the vendor's
Invoice, if he sent any



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N1 - Name

N1	N101 96	N102 93	N103 66	N104 67
	Entity Id Code	Name	Id Code Qualifier	Id Code
	M ID 2/2	C AN 1/35	C ID 1/2	C ID 2/17

N101 VN
N102 the Vendor's Name
N103 92
N104 the Vendor's Id on the TPA system

REF - Reference Numbers

REF	REF01 128	REF02 127	REF03 352
	Reference Number Qualifier	Reference Number	Description
	M ID 2/2	C AN 1/30	C AN 1/80

REF01 **IK** = Invoice Number
REF02 Vendor's Invoice Number
REF03 "VENDOR'S INVOICE NUMBER"

N1 - Name

N1	N101 96	N102 93	N103 66	N104 67
	Entity Id Code	Name	Id Code Qualifier	Id Code
	M ID 2/2	C AN 1/35	C ID 1/2	C ID 2/17

N101 BT
N102 Bill-to Name
N103 92
N104 Member's Id Number



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N1 - Name

N1	N101 96 Entity Id Code M ID 2/2	N102 93 Name C AN 1/35	N103 66 Id Code Qualifier C ID 1/2	N104 67 Id Code C ID 2/17
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N101	ST
N102	Ship-to Name
N103	<i>not used</i>
N104	<i>not used</i>

N3 - Address Information

N3	N301 166 Address M AN 1/35	N302 166 Address O AN 1/35
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N301	Ship-to Address line 1
N302	Ship-to Address line 2, <i>optional</i>



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N4 - Geographic Location

N4	N401 19 City Name C AN 2/19	N402 156 State or Province Id C ID 2/2	N403 116 Postal Code O ID 4/9	N404 26 Country Code O ID 2/3
N405 309 Location Qualifier O ID 1/2	N406 310 Location Id C AN 1/25			

N401	Ship-to City Name
N402	Ship-to State ID (or Province Code)
N403	Ship-to Zipcode (or Postal Code)
N404	<i>not used</i>
N405	<i>not used</i>
N406	<i>not used</i>



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ITD - TERMS OF SALE

ITD	ITD01 336 Terms Type Code O ID 2/2	ITD02 333 Terms Basis Date Code O ID 1/2	ITD03 338 Terms Discount % O R 1/6	ITD04 370 Terms Discount Due Date C DT 6/6
ITD05 351 Terms Discount Days Due C N0 1/3	ITD06 446 Terms Net Due Date O DT 6/6	ITD07 386 Terms Net Days O N0 1/3	ITD08 362 Terms Discount Amount O N2 1/10	ITD09 388 Terms Deferred Due Date O DT 6/6
ITD10 389 Deferred Amount Due C N2 1/10	ITD11 342 % Invoice Payable C R 1/5	ITD12 352 Description O AN 1/80	ITD13 765 Day of Month C N0 1/2	ITD14 107 Payment Method Code O ID 1/1

ITD01	Vendor's Terms Type Code
ITD02	Vendor's Terms Basis Date Code
ITD03	Vendor's Terms Discount Percent
ITD04	Vendor's Terms Discount Due Date
ITD05	Vendor's Terms Discount Days Due
ITD06	Vendor's Terms Net Due Date
ITD07	Vendor's Terms Net Days
ITD08	Vendor's Terms Discount Amount
ITD09	Vendor's Terms Deferred Due Date
ITD10	Vendor's Terms Deferred Amount Due
ITD11	Vendor's Terms % Invoice Payable
ITD12	Vendor's Terms Description
ITD13	Vendor's Terms Day of Month
ITD14	Vendor's Terms Payment Method Code

TPA will have set Terms with each Member/Dealer. This ITD segment is used only to forward a copy of the Vendor's Terms, so the Member/Dealer can see the Terms from the vendor's original invoice.



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IT1 - Baseline Item Data

IT1	IT101 350 Assigned Identification O AN 1/6	IT102 330 Quantity Invoiced M R 1/9	IT103 355 Unit of Measure Code M ID 2/2	IT104 212 Unit Price C R 1/14
IT105 639 Basis of Unit Price Code O ID 2/2	IT106 235 Product/ Service Id Qualifier O ID 2/2	IT107 234 Product/ Service Id C AN 1/30	IT108 235 Product/ Service Id Qualifier O ID 2/2	IT109 234 Product/ Service Id C AN 1/30
IT110 235 Product/ Service Id Qualifier O ID 2/2	IT111 234 Product/ Service Id C AN 1/30	IT112 235 Product/ Service Id Qualifier O ID 2/2	IT113 234 Product/ Service Id C AN 1/30	IT114 235 Product/ Service Id Qualifier O ID 2/2
IT115 234 Product/ Service Id C AN 1/30	IT116 235 Product/ Service Id Qualifier O ID 2/2	IT117 234 Product/ Service Id C AN 1/30	IT118 235 Product/ Service Id Qualifier O ID 2/2	IT119 234 Product/ Service Id C AN 1/30
IT120 235 Product/ Service Id Qualifier O ID 2/2	IT121 234 Product/ Service Id C AN 1/30	IT122 235 Product/ Service Id Qualifier O ID 2/2	IT123 234 Product/ Service Id C AN 1/30	IT124 235 Product/ Service Id Qualifier O ID 2/2
IT125 235 Product/ Service Id C AN 1/30				



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IT1 - Baseline Item Data

(continued)

IT101	Member's Purchase Order Line Number
IT102	Quantity Invoiced
IT103	Unit of Measure
IT104	Unit Price
IT105	<i>not used</i>
IT106	IN
IT107	Member's Product ID
IT108	VN (optional – used only if Vendor used a different id)
IT109	Vendor's Product ID (if there is an IT108)
IT110 through	
IT125	<i>not used</i>

PID - Product/Item Description

PID	PID01 349 Item Description Type M ID 1/1	PID02 750 Product/ Process Characteristic O ID 2/3	PID03 559 Association Qualifier Code C ID 2/2	PID04 751 Product Description Code C ID 1/12
	PID05 352 Description C AN 1/80	PID06 752 Surface/Layer Position Code O ID 2/2		

PID01	F
PID02	<i>not used</i>
PID03	<i>not used</i>
PID04	<i>not used</i>
PID05	Free-form Product Description
PID06	<i>not used</i>



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SAC - Allowance, Charge or Service (optional – included only if the vendor sends them)

SAC	SAC01 248 Allowance or Charge Ind. M ID 1/1	SAC02 1300 Serv, Promo, Allow, Chg Code C ID 4/4	SAC03 559 Agency Qualifier Cd C ID 2/2	SAC04 1301 Agency Serv, Promo, Allow Or Chg Cd C AN 1/10
SAC05 610 Amount O N2 1/15	SAC06 378 Allow/Chg Pct Qualifier C ID 1/1	SAC07 332 Percent C R 1/6	SAC08 118 Rate O R 1/9	SAC09 355 Unit of Measure C ID 2/2
SAC10 380 Quantity C R 1/15	SAC11 380 Quantity O R 1/15	SAC12 331 Allow, Chg Method of Hndling Cd O ID 1/2	SAC13 127 Reference Number C AN 1/30	SAC14 770 Option Number O AN 1/20
SAC15 352 Description C AN 1/80	SAC16 819 Language Cd O ID 2/3			

SAC01	C or A
SAC02	Any valid code in dictionary 1300, optional
SAC03	not used
SAC04	not used
SAC05	Total amount of Service, Charge, or Allowance
SAC06	not used
SAC07	not used
SAC08	not used
SAC09	not used
SAC10	not used
SAC11	not used
SAC12	not used
SAC13	not used
SAC14	not used
SAC15	Freeform description, optional if SAC02 is used
SAC16	not used

(SAC by line item will usually be an allowance for a Promotional item.)



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TDS - Total Monetary Value Summary

TDS	TDS01 361 Total Invoice Amount M N2 1/10	TDS02 390 Amount Subject to Terms Disc C N2 1/10	TDS03 391 Discounted Amount Due O N2 1/10	TDS04 362 Terms Discount Amount O N2 1/10
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TDS01	Total amount due on Invoice
TDS02	<i>not used</i>
TDS03	<i>not used</i>
TDS04	<i>not used</i>



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~~TXI~~—Tax Information

(optional — included only if there is tax)

TXI	TXI01 963	TXI02 782	TXI03 954	TXI04 955
	Tax Type Code	Monetary Amount	Percent	Tax Jurisdiction Code Qual
	M ID 2/2	C R 1/15	C R 1/10	C ID 2/2

TXI05 956
Tax Jurisdiction Code
C AN 1/10

_____	TXI01	ST
_____	TXI02	Tax amount
_____	TXI03	Tax percent
_____	TXI04	VD
_____	TXI05	Vendor's tax jurisdiction code

(02/03) - TPA does not accept tax. If the vendor sends tax, TPA will remove it from the invoice total, and will not forward tax amount or tax information to the member/dealer.



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CAD – Carrier Detail (optional)

CAD	CAD01 91 Transportation Method/ Type Code O ID 1/2	CAD02 206 Equipment Initial O AN 1/4	CAD03 207 Equipment Number O AN 1/10	CAD04 140 Standard Carrier Alpha Code (SCAC) X ID 2/4
CAD05 387 Routing X AN 1/35	CAD06 368 Shipment/ Order Status Code O ID 2/2	CAD07 128 Reference Identification Qualifier O ID 2/3	CAD08 127 Reference Identification X AN 1/30	CAD09 284 Service Level Code O ID 2/2

CAD01	<i>not used</i>
CAD02	<i>not used</i>
CAD03	<i>not used</i>
CAD04	SCAC Number
CAD05	Shipper Name/Description
CAD06	<i>not used</i>
CAD07	<i>not used</i>
CAD08	<i>not used</i>
CAD09	<i>not used</i>

This segment will only be sent if the Vendor has included CAD Shipper Information on his Invoice.



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SAC - Allowance, Charge or Service

(optional – included only if the vendor sends them)

SAC	SAC01 248 Allowance or Charge Ind. M ID 1/1	SAC02 1300 Serv, Promo, Allow, Chg Code C ID 4/4	SAC03 559 Agency Qualifier Cd C ID 2/2	SAC04 1301 Agency Serv, Promo, Allow Or Chg Cd C AN 1/10
SAC05 610 Amount O N2 1/15	SAC06 378 Allow/Chg Pct Qualifier C ID 1/1	SAC07 332 Percent C R 1/6	SAC08 118 Rate O R 1/9	SAC09 355 Unit of Measure C ID 2/2
SAC10 380 Quantity C R 1/15	SAC11 380 Quantity O R 1/15	SAC12 331 Allow, Chg Method of Hndling Cd O ID 1/2	SAC13 127 Reference Number C AN 1/30	SAC14 770 Option Number O AN 1/20
SAC15 352 Description C AN 1/80	SAC16 819 Language Cd O ID 2/3			

SAC01	C or A
SAC02	Any valid code in dictionary 1300, optional
SAC03	<i>not used</i>
SAC04	<i>not used</i>
SAC05	Total amount of Service, Charge, or Allowance
SAC06	<i>not used</i>
SAC07	<i>not used</i>
SAC08	<i>not used</i>
SAC09	<i>not used</i>
SAC10	<i>not used</i>
SAC11	<i>not used</i>
SAC12	<i>not used</i>
SAC13	<i>not used</i>
SAC14	<i>not used</i>
SAC15	Freeform description, optional if SAC02 is used
SAC16	<i>not used</i>



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ISS – Invoice Shipment Summary

(optional)

ISS	ISS01 382 Number of Units Shipped X R 1/10	ISS02 355 Unit/Basis for Measurement Code X ID 2/2	ISS03 81 Weight X R 1/10	ISS04 355 Unit/Basis for Measureme nt Code
ISS05 183 Volume X R 1/8	ISS06 355 Unit/Basis for Measurement Code X ID 2/2	ISS07 380 Quantity O/Z R 1/15	ISS08 81 Weight O/Z R 1/10	

ISS01	Number of Units Shipped
ISS02	CT
ISS03	<i>not used</i>
ISS04	<i>not used</i>
ISS05	<i>not used</i>
ISS06	<i>not used</i>
ISS07	<i>not used</i>
ISS08	<i>not used</i>

This segment will only be sent if the Vendor has included ISS shipment cartons on his Invoice.

Some vendors are using this segment to send a total quantity count, rather than shipment cartons. We are unable to determine the cartons, when they do this, so we will have to forward to the member/dealer whatever information the vendor sent to us.



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CTT – Transaction Totals

CTT	CTT01 354 Number of Line Items M N0 1/6	CTT02 347 Hash Total O R 1/10	CTT03 81 Weight O R 1/8	CTT04 355 Unit of Measure Code C ID 2/2
CTT05 183 Volume O R 1/8	CTT06 355 Unit of Measure Code C ID 2/2	CTT07 352 Description O AN 1/80		

CTT01 Total number of IT1 segments
CTT02 *not used*
CTT03 *not used*
CTT04 *not used*
CTT05 *not used*
CTT06 *not used*
CTT07 *not used*

SE - Transaction Set Trailer

SE	SE01 96 Number of Included Segments M N0 1/6	SE02 329 Transaction Set Control Number M AN 4/9
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ST01 Number of included segments
ST02 4-to-9 digit transaction Set Control Number



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GE - Functional Group Trailer

GE	GE01	97	GE02	28
	Number of		Group	
	Included		Control	
	Trans Sets		Number	
	M	N0	1/6	M N0 1/9

GE01 Number of included Transaction Sets
GE02 1-9-digit Group Control Number

IEA - Interchange Control Trailer

IEA	IEA01	I16	IEA02	I12
	Number of		Interchange	
	Included		Control	
	Groups		Number	
	M	N0	1/5	M N0 9/9

IEA01 Number of included Groups
IEA02 9-digit Interchange Control Number



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Sample of X12 data:

ISA~00~ ~00~ ~12~8477683100 ~12~8477683134
~010517~1517~U~00400~000000055~0~P~|
GS~IN~8477683100~8477683134~20030117~1517~55~X~004010
ST~810~0003
BIG~20030116~01000738~20030108~3328072~~PR
N1~VN~AVERY~92~AVE
REF~IK~01397691~VENDOR'S INVOICE NUMBER
N1~BT~ROSEMONT OFFICE SUPPLIES~92~0010
N1~ST~ROSEMONT OFFICE SUPPLIES
N3~3448 W HIGGINS
N4~ROSEMONT~IL~60018
ITD~14~3~~~~~30~~~~~NET 10
IT1~1~10~EA~2.9900~~VP~AVE21281
PID~F~~~~RULER, PLASTIC, 6"
IT1~2~24~EA~1.6900~~VP~AVE21381
PID~F~~~~ENVELOPE, TYVK, 12X16X2, BDR
TDS~7871
SAC~C~D240~~~824~~~~~
CTT~2~4.00
SE*17*0003
GE*1*55
IEA*1*000000055