

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>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
Not Used	030	NTE	Note/Special Instruction	O	100		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	12		
Not Used	055	YNQ	Yes/No Question	O	10		
Not Used	060	PER	Administrative Communications Contact	O	3		
LOOP ID - N1						200	
M	070	N1	Name	M	1		
	080	N2	Additional Name Information	O	2		
M	090	N3	Address Information	M	2		
M	100	N4	Geographic Location	M	1		
Not Used	110	REF	Reference Identification	O	12		
Not Used	120	PER	Administrative Communications Contact	O	3		
Not Used	125	DMG	Demographic Information	O	1		
M	130	ITD	Terms of Sale/Deferred Terms of Sale	M	>1		
M	140	DTM	Date/Time Reference	M	10		
Not Used	150	FOB	F.O.B. Related Instructions	O	1		
Not Used	160	PID	Product/Item Description	O	200		
Not Used	170	MEA	Measurements	O	40		
Not Used	180	PWK	Paperwork	O	25		
Not Used	190	PKG	Marking, Packaging, Loading	O	25		
Not Used	200	L7	Tariff Reference	O	1		
Not Used	212	BAL	Balance Detail	O	>1		
Not Used	213	INC	Installment Information	O	1		
Not Used	214	PAM	Period Amount	O	>1		
LOOP ID - LM						10	
Not Used	220	LM	Code Source Information	O	1		
Not Used	230	LQ	Industry Code	M	100		
LOOP ID - N9						1	

Not Used	240	N9	Reference Identification	O	1
Not Used	250	MSG	Message Text	M	10
LOOP ID - V1					>1
Not Used	260	V1	Vessel Identification	O	1
Not Used	270	R4	Port or Terminal	O	>1
Not Used	280	DTM	Date/Time Reference	O	>1
LOOP ID - FA1					>1
Not Used	290	FA1	Type of Financial Accounting Data	O	1
Not Used	300	FA2	Accounting Data	M	>1

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - IT1					200000	
010	IT1	Baseline Item Data (Invoice)	O	1		
Not Used	012	CRC	Conditions Indicator	O	1	
Not Used	015	QTY	Quantity	O	5	n1
Not Used	020	CUR	Currency	O	1	
Not Used	030	IT3	Additional Item Data	O	5	
Not Used	040	TXI	Tax Information	O	10	
Not Used	050	CTP	Pricing Information	O	25	
Not Used	055	PAM	Period Amount	O	10	
Not Used	059	MEA	Measurements	O	40	
LOOP ID - PID					1000	
060	PID	Product/Item Description	O	1		
Not Used	070	MEA	Measurements	O	10	
Not Used	080	PWK	Paperwork	O	25	
Not Used	090	PKG	Marking, Packaging, Loading	O	25	
Not Used	100	PO4	Item Physical Details	O	1	
Not Used	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
	120	REF	Reference Identification	O	>1	
Not Used	125	YNQ	Yes/No Question	O	10	
Not Used	130	PER	Administrative Communications Contact	O	5	
Not Used	140	SDQ	Destination Quantity	O	500	
Not Used	150	DTM	Date/Time Reference	O	10	
Not Used	160	CAD	Carrier Detail	O	>1	
Not Used	170	L7	Tariff Reference	O	>1	
Not Used	175	SR	Requested Service Schedule	O	1	
LOOP ID - SAC					25	
Not Used	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	190	TXI	Tax Information	O	10	
LOOP ID - SLN					1000	
Not Used	200	SLN	Subline Item Detail	O	1	
Not Used	205	DTM	Date/Time Reference	O	1	
Not Used	210	REF	Reference Identification	O	>1	

Not Used	220	PID	Product/Item Description	O	1000
Not Used	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25
Not Used	235	TC2	Commodity	O	2
Not Used	237	TXI	Tax Information	O	10
LOOP ID - N1					200
Not Used	240	N1	Name	O	1
Not Used	250	N2	Additional Name Information	O	2
Not Used	260	N3	Address Information	O	2
Not Used	270	N4	Geographic Location	O	1
Not Used	280	REF	Reference Identification	O	12
Not Used	290	PER	Administrative Communications Contact	O	3
Not Used	295	DMG	Demographic Information	O	1
LOOP ID - LM					10
Not Used	300	LM	Code Source Information	O	1
Not Used	310	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	320	V1	Vessel Identification	O	1
Not Used	330	R4	Port or Terminal	O	>1
Not Used	340	DTM	Date/Time Reference	O	>1
LOOP ID - FA1					>1
Not Used	350	FA1	Type of Financial Accounting Data	O	1
Not Used	360	FA2	Accounting Data	M	>1

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
	020	TXI	Tax Information	O	10		
Not Used	030	CAD	Carrier Detail	O	1		
Not Used	035	AMT	Monetary Amount	O	>1		
LOOP ID - SAC					25		
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	050	TXI	Tax Information	O	10		
LOOP ID - ISS					>1		
Not Used	060	ISS	Invoice Shipment Summary	O	1		
Not Used	065	PID	Product/Item Description	O	1		
M	070	CTT	Transaction Totals	M	1		n2
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.

2. 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

Syntax Notes:

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).

Comments:

Notes: 3M Example: ST}810}525000022^

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	ST01 143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
M	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 Sender-assigned sequential control number to match control number in SE segment.	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 transmit identifying numbers and dates

Syntax Notes:

Semantic Notes:

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments: 1 BIG07 is used only to further define the type of invoice when needed.

Notes: 3M Examples:
 BIG}20040616}AM270681}}ABCDE05432}}PR^
 BIG}200040825}589R}}FMKNB8475D}}CR^

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
M	BIG01	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
M	BIG02	76	Invoice Number	M AN 1/22
			Identifying number assigned by issuer	
			Do not send dashes, slashes, spaces or periods.	
M	BIG04	324	Purchase Order Number	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			Maintain the integrity of 3M purchase order number. Purchase order number can be a combination of alpha and numeric characters.	
			3M Examples: USMMM12345 USMMM1234A USDYN12345 0000123456	
M	BIG07	640	Transaction Type Code	M ID 2/2
			Code specifying the type of transaction	
			CR Credit Memo	
			PR Product (or Service)	

Segment: **CUR** Currency

Position: 040

Loop:

Level: Heading

Usage: Optional

Max Use: 1

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Syntax Notes:

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

Semantic Notes:

Comments: 1 See Figures Appendix for examples detailing the use of the CUR segment.

Notes: 3M Comments: Use only if currency is not U.S. Dollars.

3M Example: CUR}BY}CAD^

Data Element Summary

Ref.	Data Des.	Data		Attributes
		Element	Name	
M	CUR01	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			BY Buying Party (Purchaser)	
M	CUR02	100	Currency Code	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	

Segment: **REF** Reference Identification

Position: 050

Loop:

Level: Heading

Usage: Optional

Max Use: 12

Purpose: To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: 3M Comments: Do not send unless specifically requested by 3M.

3M Example: REF}PK}AM-27068/1^

Data Element Summary

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

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.

Semantic Notes:

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.
- 2 N105 and N106 further define the type of entity in N101.

Notes: 3M Examples:
N1}ST}3M COMPANY}92}01RN0F20^
N1}RE}ACME MANUFACTURING LTD^

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			RE Party to receive commercial invoice remittance	
			ST Ship To	
M	N102	93	Name	M AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			92 Assigned by Buyer or Buyer's Agent	
	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			Used for Ship-To. Return the 3M-assigned ship-to code sent in on the EDI purchase order (850).	

Segment: **N2 Additional Name Information**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: 3M Example: N2}4/F., WAYSON COMMERCIAL BLDG.^

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
M	N201	93	Name Free-form name	M AN 1/60

Segment: N3 Address Information
Position: 090
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Notes: 3M Comments: Required by 3M.
 3M Example: N3}501 MANITOU DR^

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 100
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: 3M Comments: Required by 3M
 3M Example: N4}NAPLES}FL}123456789}USA^

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Zip code for U.S. remittance address must be 9 digits (do not include dash).	O ID 3/15
N404	26 Country Code Code identifying the country	O ID 2/3

Segment: **ITD** Terms of Sale/Deferred Terms of Sale

Position: 130

Loop:

Level: Heading

Usage: Mandatory

Max Use: >1

Purpose: To specify terms of sale

Syntax Notes:

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantic Notes:

- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Notes:

3M Comments: Required by 3M.
 If no discount applies, use: ITD01 and ITD07.
 If discount applies, use: ITD01, ITD03, ITD05 and ITD07.

3M Examples:
 ITD}05}}}}}}60^
 ITD}08}}1}}10}}30^

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	ITD01	336 Terms Type Code	M ID 2/2
		Code identifying type of payment terms	
		05 Discount Not Applicable	
		08 Basic Discount Offered	
		09 Proximo	
		10 Instant	
		20 Progress Payment	
	ITD03	338 Terms Discount Percent	O R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	
	ITD05	351 Terms Discount Days Due	X N0 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned	
M	ITD07	386 Terms Net Days	M N0 1/3
		Number of days until total invoice amount is due (discount not applicable)	

Segment: **DTM** Date/Time Reference

Position: 140

Loop:

Level: Heading

Usage: Mandatory

Max Use: 10

Purpose: To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: 3M Example: DTM}074}200040621^

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			074 Requested for Delivery (Prior to and Including)	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Optional
Level: Detail
Usage: Optional
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.
 - 6 If either IT114 or IT115 is present, then the other is required.
 - 7 If either IT116 or IT117 is present, then the other is required.
 - 8 If either IT118 or IT119 is present, then the other is required.
 - 9 If either IT120 or IT121 is present, then the other is required.
 - 10 If either IT122 or IT123 is present, then the other is required.
 - 11 If either IT124 or IT125 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. See the Data Dictionary for a complete list of IDs.
 - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: 3M Comments: Required by 3M

3M Examples:

IT1}00101}900.0000}EA}17.69000}}BP}78812370647^

IT1}00301}20.0000}EA}2.60000}}BP}78812044325}EC}A^

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		Maintain the integrity of the 3M purchase order line item number on all invoices. 3M requires this number on any transaction returned to 3M, such as invoice (810), purchase order acknowledgement (855), and advanced ship notice (856). 3M uses a 5 digit composite item/shipment number. For example: 00101 means item 001, shipment 01 00102 means item 001, shipment 02 00201 means item 002, shipment 01	
IT102	358	Quantity Invoiced	X R 1/10
		Number of units invoiced (supplier units)	

IT103	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		3M requires you to maintain the integrity of the 3M purchase order "Unit for Measurement Code" on all invoices.	
IT104	212	Unit Price	X R 1/17
		Price per unit of product, service, commodity, etc.	
IT106	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		3M Buyer's Part Number (BP) must be returned if sent on PO. Must not contain dashes.	
		BP Buyer's Part Number	
IT107	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
IT108	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		CR Contract Number	
		EC Engineering Change Level	
		MF Manufacturer	
		MG Manufacturer's Part Number	
		VP Vendor's (Seller's) Part Number	
		VS Vendor's Supplemental Item Number	
IT109	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
IT110	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		3M Comment: See IT108 for valid code list.	
IT111	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	

Segment: **PID** Product/Item Description

Position: 060

Loop: PID Optional

Level: Detail

Usage: Optional

Max Use: 1

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

Syntax Notes:

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

Semantic Notes:

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Notes: 3M Comments: Send only if 3M part number is not identified in IT107.

3M Example: PID}F} } } }DESIGN PART, HEAT SINK^

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PID01	349	Item Description Type	M ID 1/1
			Code indicating the format of a description	
			F Free-form	
M	PID05	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

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.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification PK Packing List Number	M ID 2/3
M	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 3M Comment: Used only for packing list.	M AN 1/30

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).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments:

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Notes: 3M Example: TDS}1639887^

Data Element Summary

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

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.
 - 2 If either TXI04 or TXI05 is present, then the other is required.
 - 3 If TXI08 is present, then TXI03 is required.

- Semantic Notes:**
- 1 TXI02 is the monetary amount of the tax.
 - 2 TXI03 is the tax percent expressed as a decimal.
 - 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Notes: 3M Example: TXI}LS}25.87}}CD}FL^

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax CP County/Parish Sales Tax CS City Sales Tax CT County Tax FT Federal Excise Tax LS State and Local Sales Tax LT Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level) MT Metropolitan Transit Tax ST State Sales Tax VA Value Added Tax	M ID 2/2
	TXI02	782	Monetary Amount Monetary amount	X R 1/18
	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
	TXI04	955	Tax Jurisdiction Code Qualifier Code identifying the source of the data used in tax jurisdiction code CD Customer defined	X ID 2/2
	TXI05	956	Tax Jurisdiction Code Code identifying the taxing jurisdiction Should contain the two character state abbreviation.	X AN 1/10

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.
 - 2 If either SAC03 or SAC04 is present, then the other is required.
 - 3 If either SAC06 or SAC07 is present, then the other is required.
 - 4 If either SAC09 or SAC10 is present, then the other is required.
 - 5 If SAC11 is present, then SAC10 is required.
 - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7 If SAC14 is present, then SAC13 is required.
 - 8 If SAC16 is present, then SAC15 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. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: 3M Comments: 3M requires a code in SAC02 and SAC12. 3M prefers to have tax charges billed in the summary TXI segment.

3M Examples:
SAC}C}F150}}40000}}}}}}06^
SAC}A}D240}}2700}}}}}}04}}FREIGHT^

Data Element Summary

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

Code which indicates an allowance or charge for the service specified

A Allowance

C Charge

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

Code identifying the service, promotion, allowance, or charge

A130 Additional Material
A170 Adjustments
A260 Advertising Allowance
A310 Air Express Charge
A320 Air Transportation Charge
A410 "Alterations"
A470 Art Work
A480 Assembly
A540 Beaming Charge
A730 Brokerage or Duty
A880 Cancellation Charge
B030 Certificate of Origin
B050 Certification
B310 Commission Amount
B320 Competitive Allowance
B560 Container Allowance
B570 Container Deposits
B750 Core Charge
B790 Crafting
B850 Customer Equipment Allowance
B860 Customs Broker Fee
B940 Cutting Charge
C010 Deficit Freight
C030 Delivery Surcharge
C040 Delivery
C080 Demurrage
C110 Deposit
C210 Determined Freight
C220 Development Charge
C310 Discount
C350 Distributor Discount/Allowance
C480 Drum Cost
C490 Drum Deposit
C530 Duty Charge
C550 Early Payment Allowance
C640 Energy charge

C660	Engineering Charge
C670	Engraving
C680	Environmental Protection Service
C870	Expediting Fee
C880	Expediting Premium
C930	Export Shipping Charge
C990	Fabrication Charge
D040	Finance Charge
D180	Freight Based on Dollar Minimum
D190	Freight Charges to Border
D200	Freight Charges to Destination
D210	Freight Equalization
D220	Freight Passthrough
D230	Freight Surcharge
D240	Freight
D330	Gold Factor
D420	Grinding
D450	Grouped Items
D500	Handling
D530	Hazardous Cargo Charge
D540	Hazardous Materials Handling Fee - Domestic
D580	Heat Treat Charge
D640	Holding Charge
D760	Income Freight (Manufacturing to Shipping Point)
D800	Inland Transportation
D820	Inside Delivery
D860	Inspection Fee
D880	Installation & Warranty
D890	Installation and Training
D900	Installation
D920	Insurance Fee
D940	Insurance Premium
D980	Insurance
E065	Invoice Adjustment
E170	Labeling
E180	Labor (Repair and Return Orders)
E190	Labor Charges
E210	Labor Service
E220	Labor, Modify
E270	Late Order Charge
E280	Late Payment Charge

E290	Layout/Design
E360	License and Title
E480	Machining Charge
E510	Mailing - Postage Cost
E580	Memo Returnable Container
E610	Messenger Service
E620	Metals Surcharge
E640	Mileage Fee (For Repair and Return)
E650	Mileage or Travel
E660	Monthly Rental
E680	Mounting
E820	Non-returnable Containers
E890	Ocean Freight
E940	One Time Engineering Charge
E970	Onetime Tooling
F110	Overrun Charge
F150	Packaging Service
F180	Pallet
F190	Palletizing
F430	Plating
F460	Postage
F510	Precious Metal Content
F550	Premium Charge
F560	Premium Transportation
F770	Professional Fees
F800	Promotional Allowance
F810	Promotional Discount
F820	Proof & Composition
F910	Quantity Discount
F920	Quantity Surcharge
F970	Rebate
G200	Reel Deposit
G250	Refurbishing Charge
G330	Rental Charge
G360	Repack Charge
G370	Repair at Buyers Expense Charge
G400	Repair
G470	Restocking Charge
G510	Returnable Container
G530	Rework
G580	Royalties

G590	Salvage
G660	Scrap Allowance
G740	Service Charge
G760	Set-up
G770	Shearing
G830	Shipping and Handling
G870	Shrink-Wrap Charge
G970	Small Order Charge
H000	Special Allowance
H030	Special Credit
H060	Special Equipment Charge
H070	Special Finish Charge
H090	Special Handling
H110	Special Packaging
H170	Special Tooling Charge
H180	Special Tooling rework charge
H330	State Sales Charge
H370	Stenciling Charge
H450	Strapping
H520	Super Bag Charge
H550	Surcharge
H590	Tank Car Allowance
H600	Tank Rental
H660	Tax - Federal Excise Tax, FET
H920	Temporary Allowance
H930	Temporary Voluntary Allowance
I000	Testing
I090	Tool Charge
I100	Tooling Rework Charge
I110	Tooling
I120	Tools for Printing
I170	Trade Discount
I180	Trade In
I250	Transportation Charge (Minimum Rate)
I260	Transportation Direct Billing
I270	Transportation Third Party Billing
I280	Transportation Vendor Provided
I420	Up Charge
I490	Vehicle Prep Charge (Courtesy Delivery)
I500	Vendor Freight
I580	Warehousing

		I590	Warranties	
M	SAC05	610	Amount	M N2 1/15
			Monetary amount	
M	SAC12	331	Allowance or Charge Method of Handling Code	M ID 2/2
			Code indicating method of handling for an allowance or charge	
		04	Credit Customer Account	
		06	Charge to be Paid by Customer	
	SAC15	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	

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

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes: 3M Example: CTT}2^

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
			Total number of IT1 segments in transaction set.	

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)

Syntax Notes:
Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.
Notes: 3M Example: SE}16}525000022^

Data Element Summary

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