

DOCUMENT OVERVIEW

This document contains the requirements for the standard EDI 810 document in ANSI version 4010 as used by ROCKWELL AUTOMATION POWER SYSTEMS. It describes the layout, syntax, and semantics for Rockwell Suppliers to use to prepare and send an invoice document. ROCKWELL will acknowledge the receipt of this document by returning a 997 to our Supplier within 24 hours.

EDI COMMUNICATIONS

ROCKWELL AUTOMATION POWER SYSTEMS prefers to use AS2 connections. If the Supplier is not AS2 capable, ROCKWELL AUTOMATION POWER SYSTEMS uses Sterling Commerce as a VAN. Sterling Commerce is capable of setting up Trading Supplier inter-connects to other VAN services as necessary.

ISA and Group Trading IDs are as follows:

Production:

ISA level qualifier:	01
ISA level sender Id:	144846607
Group level sender ID:	144846607

Test:

ISA level qualifier:	ZZ
ISA level sender Id:	144846607T
Group level sender ID:	144846607T

For EDI assistance or questions, please contact:

Jennifer E. Gerow EDI – IT Department Rockwell Automation Power Systems 6040 Ponders Court Greenville SC, 29615 864-281-2237 (phone) 864-281-2122 (fax) JEGerow@powersystems.rockwell.com psediadmin@powersystems.rockwell.com

SAMPLE EDI 810 DATA

ISA*00* *00* *ZZ*TS ID *01*144846607 *040219*0600*U*00400*00000001*0*P*: GS*IN*TS ID*144846607004*20040219*0600*1*X*004010 ST*810*0000001 BIG*20040219*2224452*20040128*79259***DI*00 NTE*ZZZ*DAV REF*BM*1426485102723047 **REF*SCA*BEST** N1*BT*ROCKWELL AUTOMATION*ZZ*DAV N3*70 REEMS CREEK RD N4*WEAVERVILLE*NC*28787 N1*ST*COLINX LLC*ZZ*004 N3*ROCKWELL AUTOMATION*1536 GENESIS ROAD N4*CROSSVILLE*TN*38555 N1*RI*TRADING SUPPLIER INFORMATION*1*999999 N3*99999 NETWORK PLACE N4*CITY*ST*ZIP ITD*05*9*9**10**30****3% 10 DAYS, NET 30 DAYS DTM*011*20040218 FOB*CC IT1*10000*99*EA*99.99**BP*107159*VP*999999 QTY*63*99 TXI*ZZ*9.99*0.9 CTP**INV*9.9999***DIS*9.9999*99.99 PID*F****POW WEG COG BEL TDS*9999 SAC*A***9.99*1 ISS*9*PK*9*LB CTT*1*99 SE*27*0000001 GE*1*1 IEA*1*00000001

810

Invoice

Functional Group=

This document contains the format and establishes the data contents of the ROCKWELL AUTOMATION 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.

Segments:

Pos	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max</u> <u>Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	М	1			Used
	GS	Functional Group Header	М	1			Used

Heading:

Pos	<u>Id</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
				<u>Use</u>			
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	М	1			Must use
030	NTE	Note/Special Instruction	0	100			Used
050	REF	Reference Numbers	0	12			Used
L00	<u>P ID - N1</u>				<u>200</u>		
070	N1	Name	М	1			Used
090	N3	Address Information	М	2			Used
100	N4	Geographic Location	М	1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1			Used
140	DTM	Date/Time Reference	0	10			Used
150	FOB	F.O.B. Related Instructions	0	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	Segment Name	<u>Req</u>	<u>Max</u> <u>Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOO	P ID - IT1				<u>200000</u>		
010	IT1	Baseline Item Data (Invoice)	М	1			Used
015	QTY	Quantity	0	5		N2/015	Used
040	TXI	Tax Information	0	10			Used
050	CTP	Pricing Information	М	25			Used
LOOP ID - PID				<u>1000</u>			
060	PID	Product/Item Description	0	1			Used

Summary:

<u>Pos</u>	Id	<u>Segment Name</u>	<u>Req</u>	<u>Max</u> <u>Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	М	1			Must use
LOO	P ID - SAO				<u>25</u>		

040	SAC	Service, Promotion, Allowance, or Charge Information	0	1		Used
LOOP ID - ISS				<u>>1</u>		
060	ISS	Invoice Shipment Summary	0	1		Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max</u> <u>Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
070	CTT	Transaction Totals	0	1		N3/070	Used
080	SE	Transaction Set Trailer	М	1			Must use

Segments:

P	<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max</u> <u>Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
		GE	Functional Group Trailer	М	1			Used
		IEA	Interchange Control Trailer	М	1			Used

Notes:

- 2/015 3/070 The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns. 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.

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

Element Summary:

Ref _	<u>Id</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	Usage_
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	Μ	ID	2/2	Must use
		CodeName00No Authorization Information Present (No Meaningful Information in I02)				
ISA02	102	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	Μ	AN	10/10	Must use
ISA03	103	Security Information Qualifier Description: Code to identify the type of information in the Security Information Code Name 00 No Security Information Present (No Meaningful Information in IO4)	М	ID	2/2	Must use
ISA04	104	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	М	AN	10/10	Must use
ISA05	105	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name 01 Duns (Dun & Bradstreet) 09 X.121 (CCITT) 12 Phone (Telephone Companies) ZZ Mutually Defined	М	ID	2/2	Must use
ISA06	106	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	М	AN	15/15	Must use
ISA07	105	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name 01 Duns (Dun & Bradstreet)	М	ID	2/2	Must use
ISA08	107	Data (Data & Datasteet) Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Code Name 144846607 Duns (Dun & Bradstreet)	Μ	AN	15/15	Must use
ISA09	108	Interchange Date	М	DT	6/6	Must

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		Description: Date of the interchange				use
ISA10	109	Interchange Time Description: Time of the interchange	М	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	М	ID	1/1	Must use
ISA12	111	Interchange Control Version Number Description: This version number covers the interchange control segments Code Name 00400 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	М	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	М	NO	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	М	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	М	ID	1/1	Must use
ISA16	115	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	М		1/1	Must use

Example:

ISA*00* *00* *ZZ*TS ID *01*144846607 *040219*0600*U*00400*00000001*0*P*:

Functional Group Header

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

Element Summary:

Ref_	<u>Id</u>	Element Name	<u>Req</u>	Type	Min/Max	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets All valid standard codes are used.	Μ	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading customers	М	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading customers Code Name 144846607 Duns (Dun & Bradstreet)	М	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	М	DT	8/8	Must use
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where $H =$ hours (00-23), $M =$ minutes (00-59), $S =$ integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	М	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	М	NO	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	М	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed All valid standard codes are used.	Μ	AN	1/12	Must use

Example:

GS*IN*TS ID*144846607*20040219*0600*1*X*004010

Transaction Set Header

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

Element Summary:

Ref	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must
		Description: Code uniquely identifying a Transaction Set				use
		All valid standard codes are used.				
ST02	329	Transaction Set Control Number	Μ	AN	4/9	Must
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				use

Example:

ST*810*0000001

BIG

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
BIG01	373	Date Description: Date expressed as CCYYMMDD	М	DT	8/8	Must use
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	М	AN	1/22	Must use
BIG03	373	Date Description: Date expressed as CCYYMMDD	М	DT	8/8	Used
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	М	AN	1/22	Used
BIG05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	0	AN	1/30	Used
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction Code Name DI Debit Invoice	0	ID	2/2	Used
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set Code Name 00 Original	0	ID	2/2	Used

Example:

BIG*20040219*2224452*20040128*79259***DI*00

		Pos: 030	Max: 100
NTE Note/Special I	Note/Special Instruction	Heading	- Optional
		Loop: N/A	Elements: 2

To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

Ref	<u>Id</u>			Element Name	Req	Type	Min/Max	Usage_
NTE01	363	Note Reference C	Code		Μ	ID	3/3	Used
		Description: Cod	e identify	ing the functional area or purpose for which the				
		note applies						
			Code	Name				
			ZZZ	Mutually Defined				
NTE02	352	Description			Μ	AN	1/80	Must
		Description: A fr	ee-form d	escription to clarify the related data elements				use
		and their content						
			Code	Name				
			DMA	Marion, NC				
			DRT	Rogersville, TN				
			DAV	Asheville, NC				
			DGV	Greenville, SC				
			DBT	Belton, SC				
			DCD	Clio, SC				
			DCI	Columbus, IN				
			RAG	Athens, GA				
			RSN	Shelby/Kings Mountain, NC				
			RGG	Gainesville, GA				
			RMM	Madison, IN				
			RCN	Columbus, NE				

Example:

NTE*ZZZ*DAV

REF

Reference Identification

To specify identifying information

Element Summary:

Ref	<u>Id</u>	Element Name	Req	Type	<u>Min/Max</u>	Usage_
REF01	128	Reference Identification Qualifier		ID	2/3	Must
		Description: Code qualifying the Reference Identification				use
		<u>Code</u> <u>Name</u>				
		BM Bill of Lading Number				
		SCA Standard Carrier Alpha Code (SCAC)				
REF02	127	Reference Identification	Μ	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction				
		Set or as specified by the Reference Identification Qualifier				

Example:

REF*BM*1426485102723047 REF*SCA*BEST

		Pos: 070	Max: 1
N1	N1 Name	Heading - Man	datory
		Loop: N1 E	lements: 4

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	М	ID	2/3	Must
		Description: Code identifying an organizational entity, a physical				use
		location, property or an individual				
		<u>Code</u> <u>Name</u>				
		BT Bill-to-Party				
		RI Remit To				
		ST Ship To				
N102	93	Name	Μ	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	Μ	ID	1/2	Used
		Description: Code designating the system/method of code structure use	d			
		for Identification Code (67)				
		<u>Code</u> <u>Name</u>				
		ZZ Mutually Defined				
		1 DUNS Number				
N104	67	Identification Code	М	AN	2/80	Used
		Description: Code identifying a party or other code				
		N101 Code Name				
		BT Code from NTE02				
		RI Supplier's DUNS Number				
		ST 001 - Greenville				
		003 – Belton				
		004 - Asheville				
		006 - Marion				
		043 - Clio				
		065 - Gainesville				

Example:

N1*BT*ROCKWELL AUTOMATION*ZZ*DAV N1*ST*COLINX LLC*ZZ*004 N1*RI*TRADING SUPPLIER INFORMATION*1*9999999

N3

To specify the location of the named party

Element Summary:

Ref_	Id_	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	М	AN	1/55	Must use
N302	166	Address Information Description: Address information	0	AN	1/55	Used

Example:

N3*70 REEMS CREEK RD N3*ROCKWELL AUTOMATION*1536 GENESIS ROAD N3*99999 NETWORK PLACE To specify the geographic place of the named party

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
N401	19	City Name Description: Free-form text for city name	М	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	М	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	М	ID	3/15	Used

Example:

N4*CROSSVILLE*TN*38555 N4*WEAVERVILLE*NC*28787 N4*CITY*ST*ZIP To specify terms of sale

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITD01	336	Terms Type Code Description: Code identifying type of payment terms All valid standard codes are used.	0	ID	2/2	Used
ITD02	D02 333 Terms Basis Date Code Description: Code identifying the beginning of the terms period All valid standard codes are used.		0	ID	1/2	Used
ITD03	338	Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	0	R	1/6	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	С	NO	1/3	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	0	NO	1/3	Used
ITD12	352	Description Description: A free-form description to clarify the related data elements and their content	0	AN	1/80	Must use

Example:

ITD*05*9*9**10**30****3% 10 DAYS, NET 30 DAYS

DTM Date/Time Reference

Pos: 140	Max: 10				
Heading - Optional					
Loop: N/A	Elements: 2				

To specify pertinent dates and times

Element Summary:

Ref _	Id	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must
		Description: Code specifying type of date or time, or both date and time				use
		<u>Code</u> <u>Name</u>				
		011 Shipped				
DTM02	373	Date	С	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				

Example:

DTM*011*20040218

FOB

F.O.B. Related Instructions

To specify transportation instructions relating to shipment

Element Summary:

Ref _	<u>Id</u>	Ele	ement Name	Req	Type	<u>Min/Max</u>	Usage_
FOB01	146	Shipment Method of Payment		Μ	ID	2/2	Must
		Description: Code identifying p	ayment terms for transportation charges				use
			ame				
		BP Pa	id by Buyer				
		CC Co	ollect				
		CD Co	ollect on Delivery				
		DF De	fined by Buyer and Seller				
		NC Se	rvice Freight, No Charge				
			epaid but Charged to Customer				
			epaid by Processor				
		PO Pro	epaid Only				
		PP Pro	epaid (by Seller)				
		PS Pa	id by Seller				
		PU Pie	ckup				
FOB03	352	Description		0	AN	1/80	Used
		Description: A free-form description	ption to clarify the related data elements				
		and their content					
FOB06	309	Location Qualifier		С	ID	1/2	Used
		Description: Code identifying ty	ype of location				
			ame				
			rigin (Shipping Point)				
FOB07	352	Description		0	AN	1/80	Used
		Description: A free-form description	ption to clarify the related data elements				
		and their content	· ·				

Example:

FOB*CC

Baseline Item Data (Invoice)

Pos: 010 Max: 99999 Detail - Mandatory Loop: IT1 Elements: 10

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	М	AN	1/20	Used
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	М	R	1/10	Used
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Name EA Each	С	ID	2/2	Used
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	С	R	1/17	Used
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Code Name BP Buyer's Part Number	М	ID	2/2	Used
IT107	234	Product/Service ID Description: Identifying number for a product or service	М	AN	1/48	Used
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name VP Vendor's (Seller's) Part Number	С	ID	2/2	Used
IT109	234	Product/Service ID Description: Identifying number for a product or service	С	AN	1/48	Used
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Code Name PL Purchaser's Order Line Number	С	ID	2/2	Used
IT111	234	Product/Service ID Description: Identifying number for a product or service	С	AN	1/48	Used

Example:

IT1*10000*99*EA*99.99**BP*107159*VP*9999999

QTY		Pos: 015	Max: 5
	Quantity	Detail -	Optional
	Quantity	Loop: IT1	Elements: 2

To specify quantity information

Element Summary:

Ref	<u>Id</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
QTY01	673	Quantity Qualifier	Μ	ID	2/2	Must
		Description: Code specifying the type of quantity				use
		<u>Code</u> <u>Name</u>				
		63 On Order Quantity				
QTY02	380	Quantity	С	R	1/15	Used
		Description: Numeric value of ordered quantity				

Example:

QTY*63*99

YI	
Λ	

Tax Information

Pos: 040	Max: 10
Detail	- Optional
Loop: IT1	Elements: 3

To specify tax information

Element Summary:

Ref_	Id	Element Name	Req	Type	Min/Max	<u>Usage</u>
TXI01	963	Tax Type CodeDescription: Code specifying the type of taxAll valid standard codes are used.	М	ID	2/2	Must use
TXI02	782	Monetary Amount Description: Monetary amount	С	R	1/18	Used
TXI03	954	Percent Description: Percentage expressed as a decimal	С	R	1/10	Used

Example:

TXI*ZZ*9.99*0.9

To specify pricing information

Element Summary:

Ref _	Id	Element Name	Req	Type	Min/Max	Usage_
CTP02	236	Price Identifier Code	М	ID	3/3	Used
		Description: Code identifying pricing specification				
		<u>Code</u> <u>Name</u>				
		DISDistributor's Price				
		INV Invoice Billing Price				
CTP03	212	Unit Price	Μ	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
CTP06	648	Price Multiplier Qualifier	0	ID	3/3	Used
		Description: Code indicating the type of price multiplier				
		<u>Code</u> <u>Name</u>				
		DIS Discount Multiplier				
CTP07	649	Multiplier	С	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
CTP08	782	Monetary Amount	Μ	R	1/18	Used
		Description: Monetary amount				

Example:

CTP**INV*9.9999***DIS*9.9999*99.99

Product/Item Description

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
PID01	349	Item Description Type	Μ	ID	1/1	Must
		Description: Code indicating the format of a description				use
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	С	AN	1/80	Used
		Description: A free-form description to clarify the related data elements				
		and their content				

Example:

PID*F****POW WEG COG BEL

TDS

To specify the total invoice discounts and amounts

Element Summary:

Ref_	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage
TDS01	610	Amount	Μ	N2	1/15	Must
		Description: Monetary amount				use

Example:

TDS*9999

SAC Service, Promotion, Allowance, or Charge Information

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SAC01	248	Allowance or Charge Indicator	Μ	ID	1/1	Must
		Description: Code which indicates an allowance or charge for the service				use
		specified				
		<u>Code</u> <u>Name</u>				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code	С	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or				
		charge				
		All valid standard codes are used. D240 used for Freight.				
SAC05	610	Amount	Μ	N2	1/15	Used
		Description: Monetary amount				
SAC06	378	Allowance/Charge Percent Qualifier	С	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is				
		calculated				
		All valid standard codes are used.				
SAC07	332	Percent	С	R	1/6	Used
		Description: Percent expressed as a percent				
SAC15	352	Description	Μ	AN	1/80	Used
		Description: A free-form description to clarify the related data elements				
		and their content				

Example:

SAC*A****9.99*1

To specify summary details of total items shipped in terms of quantity, weight, and volume

Element Summary:

Ref	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
ISS01	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	С	R	1/10	Used
ISS02	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code</u> <u>PK</u> Package	C	ID	2/2	Used
ISS03	81	Weight Description: Numeric value of weight	C	R	1/10	Used
ISS04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code</u> <u>Name</u> LB Pound	С	ID	2/2	Used

Example:

ISS*9*PK*9*LB

СТТ	Transaction Totals	Pos: 070 Summary	Max: 1 - Optional Elements: 2
_		Loop: N/A	Elements: 2

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
CTT01	354	Number of Line Items	Μ	N0	1/6	Must
		Description: Total number of line items in the transaction set				use
CTT02	347	Hash Total	0	R	1/10	Used
		Description: Sum of values of the specified data element. All values in the				
		data element will be summed without regard to decimal points (explicit or				
		implicit) or signs. Truncation will occur on the left most digits if the sum				
		is greater than the maximum size of the hash total of the data element.				

Example:

CTT*1*99

SE Transaction Set Trailer	Pos: 080 Summary - Loop: N/A	Max: 1 Mandatory Elements: 2
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To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref_	Id	Element Name	Req	Type	<u>Min/Max</u>	Usage_
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	М	NO	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	М	AN	4/9	Must use

Example:

SE*27*0000001

Functional Group Trailer

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

Element Summary:

Ref _	<u>Id</u>	Element Name	Req	Type	Min/Max	Usage_
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	М	NO	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	М	NO	1/9	Must use

Example:

GE*1*1

IEA

Interchange Control Trailer

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

Element Summary:

Ref _	Id	Element Name	Req	Type	Min/Max	Usage_
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	М	NO	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	М	NO	9/9	Must use

Example:

IEA*1*00000001