

855 Purchase Order Acknowledgment - Inbound to EFS

**X12/V4010/855: 855 Purchase Order Acknowledgment
Version: 1.3**

Author:	EFS Network
Created:	06/04/2003
Notes:	

855**Purchase Order Acknowledgment****Functional Group=PR**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Acknowledgment Transaction Set (855) 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 a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

Not Defined:

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Mandatory
020	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1			Mandatory
050	REF	Reference Identification	O	5			Mandatory
080	FOB	F.O.B. Related Instructions	O	>1			Recommended
LOOP ID - SAC					25		
120	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended
150	DTM	Date/Time Reference	O	6			Mandatory
240	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Mandatory
LOOP ID - N9					1		
280	N9	Reference Identification	O	1			Recommended
290	MSG	Message Text	O	30			Recommended
LOOP ID - N1					8		
300	N1	Name	M	1			Mandatory
320	N3	Address Information	O	1			Recommended
330	N4	Geographic Location	O	1			Recommended
350	PER	Administrative Communications Contact	O	>1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - PO1					100000		
010	PO1	Baseline Item Data	M	1		N2/010	Mandatory
049	MEA	Measurements	O	1			Recommended
LOOP ID - PID					1		
050	PID	Product/Item Description	O	1			Recommended
100	REF	Reference Identification	O	2			Recommended
LOOP ID - SAC					5		
130	SAC	Service, Promotion, Allowance, or Charge Information	O	1		N2/130	Recommended
LOOP ID - ACK					1		
270	ACK	Line Item Acknowledgment	O	1			Recommended
LOOP ID - N9					1		

350	N9	Reference Identification	O	1	Recommended
360	MSG	Message Text	O	30	Recommended

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - CTT						1	
010	CTT	Transaction Totals	O	1		N3/010	Mandatory
030	SE	Transaction Set Trailer	M	1			Mandatory

Not Defined:

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

Notes:

2/010 PO102 is required.

2/130 Suppliers must send this information if it affects pricing and the completeness of the transaction

3/010 The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 14

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information Code Name 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Mandatory
ISA03	I03	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 I04)	M	ID	2/2	Mandatory
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Mandatory
ISA06	I06	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	M	AN	15/15	Mandatory
ISA07	I05	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 08 UCC EDI Communications ID (Comm ID)	M	ID	2/2	Mandatory
ISA08	I07	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 User Note 1: EFS's Production ID - 4225200000 EFS's Test ID - 422520TEST	M	AN	15/15	Mandatory
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Mandatory
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Mandatory
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.	M	ID	1/1	Mandatory
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments Code Name	M	ID	5/5	Mandatory

		00400	Standard Issued as ANSI X12.5-1997				
		00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	I12	Interchange Control Number		M	N0	9/9	Mandatory
		Description:	A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested		M	ID	1/1	Mandatory
		Description:	Code sent by the sender to request an interchange acknowledgment (TA1)				
		Code	Name				
		0	No Acknowledgment Requested				
ISA15	I14	Usage Indicator		M	ID	1/1	Mandatory
		Description:	Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		Code	Name				
		P	Production Data				
		T	Test Data				
ISA16	I15	Component Element Separator		M	AN	1/1	Mandatory
		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				
		User Note 1:	EFS uses the '@' symbol on its outbound transactions.				

User Note 1:

Element Separators are preferably '*':

Segment separators are preferably '~':

Composite delimiter are preferably '@':

Any deviation from the above must be approved by EFS Network before commencing of testing.

GS**Functional Group Header**

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Mandatory
		Code Name PR Purchase Order Acknowledgement (855)				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Mandatory
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners User Note 1: EFS Production and test ID - 4225200000	M	AN	2/15	Mandatory
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Mandatory
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)	M	TM	4/8	Mandatory
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Mandatory
		Code Name X Accredited Standards Committee X12				
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	M	AN	1/12	Mandatory
		Code Name 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set User Note 1: <i>The Transaction Set Control Number (ST-02) is assigned by the Supplier</i>	M	ID	3/3	Mandatory				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>855</td> <td>Purchase Order Acknowledgment</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	855	Purchase Order Acknowledgment				
<u>Code</u>	<u>Name</u>									
855	Purchase Order Acknowledgment									
ST02	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	M	AN	4/9	Mandatory				

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BAK Beginning Segment for Purchase Order Acknowledgment

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Mandatory

To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAK01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Mandatory
		Code Name				
		00 Original				
		05 Replace				
		User Note 1: <i>EFS supports multiple PO Acks for a PO. All subsequent PO Acks after the initial PO Ack are considered replacements.</i>				
BAK02	587	Acknowledgment Type Description: Code specifying the type of acknowledgment	M	ID	2/2	Mandatory
		Code Name				
		AC Acknowledge - With Detail and Change				
		AD Acknowledge - With Detail, No Change				
		AT Accepted				
		RD Reject with Detail				
BAK03	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Mandatory
BAK04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Mandatory
BAK09	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Used

Semantics:

1. BAK04 is the date assigned by the purchaser to purchase order.
2. BAK08 is the seller's order number.
3. BAK09 is the date assigned by the sender to the acknowledgment.

REF Reference Identification

Pos: 050	Max: 5
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Mandatory

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory										
		<table border="0"> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> <tr> <td>CR</td> <td>Customer Reference Number</td> </tr> <tr> <td>FI</td> <td>File Identifier</td> </tr> <tr> <td>IL</td> <td> User Note 1: <i>EFS order number is required. Supplier's must send a REF segment with a "IL" qualifier.</i> </td> </tr> <tr> <td>VN</td> <td> Vendor Order Number User Note 1: <i>Supplier's sales order number is required. Supplier's must send a REF segment with a "VN" qualifier.</i> </td> </tr> </table>	<u>Code</u>	<u>Name</u>	CR	Customer Reference Number	FI	File Identifier	IL	User Note 1: <i>EFS order number is required. Supplier's must send a REF segment with a "IL" qualifier.</i>	VN	Vendor Order Number User Note 1: <i>Supplier's sales order number is required. Supplier's must send a REF segment with a "VN" qualifier.</i>				
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VN	Vendor Order Number User Note 1: <i>Supplier's sales order number is required. Supplier's must send a REF segment with a "VN" qualifier.</i>															
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Recommended										
REF03	352	Description: A free-form description to clarify the related data elements and their content User Note 1: <i>If you choose to send Notes in the REF segment, do not send messages in the N9 and MSG segment at the summary level.</i>	X	AN	1/80	Recommended										

FOB F.O.B. Related Instructions

Pos: 080	Max: >1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Recommended

To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Mandatory
		Code Name				
		BP Paid by Buyer				
		CC Collect				
		PB Customer Pick-up/Backhaul				
		PC Prepaid but Charged to Customer				
		PE Prepaid and Summary Bill				
		PP Prepaid (by Seller)				
		PU Pickup				
		TP Third Party Pay				

Semantics:

1. FOB01 indicates which party will pay the carrier.

SAC Service, Promotion, Allowance, or Charge Information

Pos: 120	Max: 1
Heading - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Recommended

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		Code Name				
		A Allowance				
		C Charge				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	X	ID	4/4	Recommended
		Code Name				
		A130 Additional Material				
		A170 Adjustments				
		A320 Air Transportation Charge				
		B510 Consolidation				
		C040 Delivery				
		C420 Drayage				
		C610 Enclosure				
		D170 Free Goods				
		D240 Freight				
		D250 Freshness/Leaker Allowance				
		D260 Fuel Charge				
		D270 Fuel Surcharge				
		D350 Goods and Services Credit Allowance				
		D500 Handling				
		D750 Inbound Freight Charges				
		E410 Loading				
		E550 Market Development Funds				
		F170 Pallet Exchange Charge				
		F180 Pallet				
		F280 Performance Allowance				
		F340 Pick/Up				
		F670 Price and Marketing Allowance				
		F800 Promotional Allowance				
		F910 Quantity Discount				
		G470 Restocking Charge				
		G870 Shrink-Wrap Charge				
		G950 Slip Sheet, Truck				
		H040 Special Delivery				
		H400 Stopcharge				
		H430 Storage				
		H640 Tax - Excise Tax - Destination				
		H750 Tax - Sales Tax (State and Local)				

		H910	Temperature Protection				
		I170	Trade Discount				
		I310	Truckload Discount				
		I390	Unloading				
		I410	Unsaleable Merchandise Allowance				
		OTHR	Other Miscellaneous Earning or Additive				
SAC03	559	Agency Qualifier Code		X	ID	2/2	Recommended
		Description: Code identifying the agency assigning the code values					
		All valid standard codes are used.					
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		X	AN	1/10	Recommended
		Description: Agency maintained code identifying the service, promotion, allowance, or charge					
SAC05	610	Amount		O	N2	1/15	Recommended
		Description: Monetary amount					
SAC06	378	Allowance/Charge Percent Qualifier		X	ID	1/1	Recommended
		Description: Code indicating on what basis allowance or charge percent is calculated					
		All valid standard codes are used.					
SAC07	332	Percent		X	R	1/6	Recommended
		Description: Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	Recommended
		Description: Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Recommended
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		All valid standard codes are used.					
SAC10	380	Quantity		X	R	1/15	Recommended
		Description: Numeric value of quantity					
SAC11	380	Quantity		O	R	1/15	Recommended
		Description: Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Recommended
		Description: Code indicating method of handling for an allowance or charge					
		All valid standard codes are used.					
SAC13	127	Reference Identification		X	AN	1/30	Recommended
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
SAC14	770	Option Number		O	AN	1/20	Recommended
		Description: A unique number identifying available promotion or allowance options when more than one is offered					
SAC15	352	Description		X	AN	1/80	Recommended
		Description: A free-form description to clarify the related data elements and their content					

Syntax:

1. R0203 - At least one of SAC02,SAC03 is required
2. P0304 - If either SAC03,SAC04 is present, then all are required
3. P0607 - If either SAC06,SAC07 is present, then all are required
4. P0910 - If either SAC09,SAC10 is present, then all are required
5. C1110 - If SAC11 is present, then all of SAC10 are required
6. L130204 - If SAC13 is present, then at least one of SAC02,SAC04 is required
7. C1413 - If SAC14 is present, then all of SAC13 are required
8. C1615 - If SAC16 is present, then all of SAC15 are required

Semantics:

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.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. 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.

User Note 1:

Suppliers must send this information if it affects pricing and the completeness of the transaction

User Note 2:

For Free Goods, do not transmit SAC03 and SAC04. For Promotion, SAC03 and SAC04 must be transmitted.

DTM Date/Time Reference

Pos: 150	Max: 6
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time User Note 1: Suppliers should send a date to indicate the confirmed delivery/ship/pickup date. Use either qualifier "017", "067", "068". "017" is the only qualifier that is displayed within the EFS web application. All qualifiers are passed onto the buying organization.	M	ID	3/3	Mandatory										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>017</td> <td>Estimated Delivery</td> </tr> <tr> <td>067</td> <td>Current Schedule Delivery</td> </tr> <tr> <td>068</td> <td>Current Schedule Ship</td> </tr> <tr> <td>118</td> <td>Requested Pick-up</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	017	Estimated Delivery	067	Current Schedule Delivery	068	Current Schedule Ship	118	Requested Pick-up				
<u>Code</u>	<u>Name</u>															
017	Estimated Delivery															
067	Current Schedule Delivery															
068	Current Schedule Ship															
118	Requested Pick-up															
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Mandatory										

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Mandatory

To specify the carrier and sequence of routing and provide transit time information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment	X	ID	1/2	Mandatory
		Code		Name		
		H		Customer Pickup		
		M		Motor (Common Carrier)		
		R		Rail		
		T		Best Way (Shippers Option)		
		AF		Air Freight		
		CE		Customer Pickup / Customer's Expense		
		LT		Less Than Trailer Load (LTL)		
		SR		Supplier Truck		
		ST		Stack Train		
		VE		Vessel, Ocean		

Semantics:

- 1.

Comments:

- 1.

N9 Reference Identification

Pos: 280	Max: 1
Heading - Optional	
Loop: N9	Elements: 2

User Option (Usage): Recommended

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N901	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>L1</td> <td>Letters or Notes</td> </tr> </table>	<u>Code</u>	<u>Name</u>	L1	Letters or Notes				
<u>Code</u>	<u>Name</u>									
L1	Letters or Notes									
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note 1: <i>The Reference Identification (N9-02) must be "GEN" to identify the notes in the following MSG segment.</i>	M	AN	1/30	Mandatory				

MSG Message Text

Pos: 290	Max: 30
Heading - Optional	
Loop: N9	Elements: 1

User Option (Usage): Recommended

To provide a free-form format that allows the transmission of text information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-Form Message Text Description: Free-form message text	M	AN	1/264	Mandatory

N1

Name

Pos: 300	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory
		Code Name				
		BO Broker or Sales Office				
		BT Bill-to-Party				
		User Note 1: <i>Suppliers must send the "BT" qualifier to indicate the Bill To Address. N103 and N104 are required.</i>				
		BY Buying Party (Purchaser)				
		CA Carrier				
		User Note 1: <i>The Carrier Phone Number is entered in The PER segment.</i>				
		PW Pick Up Address				
		SF Ship From				
		ST Ship To				
		User Note 1: <i>Suppliers must send the "ST" qualifier to indicate the Ship To Address. N103 and N104 are required</i>				
		VN Vendor				
		User Note 1: <i>Mandatory</i>				
N102	93	Name Description: Free-form name	X	AN	1/60	Recommended
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2	Recommended
		Code Name				
		1 D-U-N-S Number, Dun & Bradstreet				
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
		54 Warehouse				
		91 Assigned by Seller or Seller's Agent				
		92 Assigned by Buyer or Buyer's Agent				
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Recommended

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

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.

N3 Address Information

Pos: 320	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Recommended

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Mandatory
N302	166	Address Information Description: Address information	O	AN	1/55	Recommended

N4 Geographic Location

Pos: 330	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Recommended

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Recommended
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Recommended
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Recommended
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Recommended

Comments:

1. A combination of N401 through N404 specifies a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

PER Administrative Communications Contact

Pos: 350	Max: >1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>AN</td> <td>Attention-to Party</td> </tr> <tr> <td>CN</td> <td>General Contact</td> </tr> </table>	<u>Code</u>	<u>Name</u>	AN	Attention-to Party	CN	General Contact	M	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>											
AN	Attention-to Party											
CN	General Contact											
PER02	93	Name Description: Free-form name	O	AN	1/60	Recommended						
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>TE</td> <td>Telephone</td> </tr> </table>	<u>Code</u>	<u>Name</u>	TE	Telephone	X	ID	2/2	Recommended		
<u>Code</u>	<u>Name</u>											
TE	Telephone											
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Recommended						

Syntax:

1. P0304 - If either PER03,PER04 is present, then all are required
2. P0506 - If either PER05,PER06 is present, then all are required
3. P0708 - If either PER07,PER08 is present, then all are required

PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 11

User Option (Usage): Mandatory

To specify basic and most frequently used line item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Mandatory
PO102	330	Quantity Ordered Description: Quantity ordered	X	R	1/15	Recommended
PO103	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	O	ID	2/2	Recommended
		Code Name				
		BG Bag				
		BX Box				
		CA Case				
		CN Can				
		CS Cassette				
		DR Drum				
		EA Each				
		GA Gallon				
		LB Pound				
		OZ Ounce - Av				
		PA Pail				
		PC Piece				
		PK Package				
		TE Tote				
		UN Unit				
PO104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17	Recommended
PO105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Recommended
		Code Name				
		PE Price per Each				
		PO Price per Ounce				
		PP Price per Pound				
		TE Contract Price per Each				
PO106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Recommended
		Code Name				
		UA U.P.C./EAN Case Code (2-5-5)				
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		UP U.P.C. Consumer Package Code (1-5-5-1)				
PO107	234	Product/Service ID Description: Identifying number for a product or	X	AN	1/48	Recommended

PO108	235	service Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Recommended
		Code Name				
		MG Manufacturer's Part Number				
		VN Vendor's (Seller's) Item Number				
		User Note 1: <i>Supplier must send Supplier Item Number with one of the following qualifiers: MG, VN, or VP.</i>				
		VP Vendor's (Seller's) Part Number				
		User Note 1: <i>Supplier must send Supplier Item Number with one of the following qualifiers: MG, VN, or VP.</i>				
PO109	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Recommended
PO110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Recommended
		Code Name				
		PI Purchaser's Item Code				
PO111	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Recommended

Syntax:

1. C0302 - If PO103 is present, then all of PO102 are required
2. C0504 - If PO105 is present, then all of PO104 are required
3. P0607 - If either PO106,PO107 is present, then all are required
4. P0809 - If either PO108,PO109 is present, then all are required
5. P1011 - If either PO110,PO111 is present, then all are required

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO111 provide for different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

User Note 1:

The PO106-PO111 segments are the only elements that can be used to designate item numbers. The element order shown below (Buyer Item Number, Suppliers Item Number, or UPC) are recommended positions for PO106-PO111. Item codes can be placed in any sequence as long as they are qualified correctly. At least one matching pair within PO106-PO111 is required to represent Supplier Item Number (qualifiers MG, VN, or VP).

MEA Measurements

Pos: 049	Max: 1
Detail - Optional	
Loop: PO1	Elements: 3

User Option (Usage): Recommended

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Gross Weight</td> </tr> <tr> <td>T</td> <td>Tare Weight</td> </tr> <tr> <td>WT</td> <td>Weight</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	G	Gross Weight	T	Tare Weight	WT	Weight	M	ID	1/3	Mandatory
<u>Code</u>	<u>Name</u>													
G	Gross Weight													
T	Tare Weight													
WT	Weight													
MEA03	739	Measurement Value Description: The value of the measurement	M	R	1/20	Mandatory								
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Mandatory								
	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 <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>LB</td> <td>Pound</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	LB	Pound	M	ID	2/2	Mandatory				
<u>Code</u>	<u>Name</u>													
LB	Pound													

Semantics:

1. MEA04 defines the unit of measure for MEA03.

Comments:

- 1.

PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

User Option (Usage): Recommended

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

Element Summary:

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

Semantics:

- 1.

REF Reference Identification

Pos: 100	Max: 2
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Recommended

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BD</td> <td>Bid Number</td> </tr> <tr> <td>WM</td> <td>Weight Agreement Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BD	Bid Number	WM	Weight Agreement Number	M	ID	2/3	Mandatory
<u>Code</u>	<u>Name</u>											
BD	Bid Number											
WM	Weight Agreement Number											
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note 1: <i>If REF-01 is "WM", then REF-02 will be the Price Bracket. If REF-01 is "BD", then REF-02 will be the Bid Number.</i>	M	AN	1/30	Mandatory						

SAC Service, Promotion, Allowance, or Charge Information

Pos: 130	Max: 1
Detail - Optional	
Loop: SAC	Elements: 15

User Option (Usage): Recommended

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		Code Name				
		A Allowance				
		C Charge				
		P Promotion				
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	X	ID	4/4	Recommended
		Code Name				
		A320 Air Transportation Charge				
		B510 Consolidation				
		C040 Delivery				
		C420 Drayage				
		C610 Enclosure				
		D170 Free Goods				
		D240 Freight				
		D260 Fuel Charge				
		D270 Fuel Surcharge				
		D350 Goods and Services Credit Allowance				
		D500 Handling				
		D750 Inbound Freight Charges				
		E410 Loading				
		E550 Market Development Funds				
		F170 Pallet Exchange Charge				
		F180 Pallet				
		F280 Performance Allowance				
		F340 Pick/Up				
		F670 Price and Marketing Allowance				
		F800 Promotional Allowance				
		F910 Quantity Discount				
		G470 Restocking Charge				
		G870 Shrink-Wrap Charge				
		G950 Slip Sheet, Truck				
		H040 Special Delivery				
		H400 Stopcharge				
		H430 Storage				
		H640 Tax - Excise Tax - Destination				
		H750 Tax - Sales Tax (State and Local)				
		H910 Temperature Protection				
		I170 Trade Discount				

		I310	Truckload Discount					
		I390	Unloading					
		I410	Unsaleable Merchandise Allowance					
		OTHR	Other Miscellaneous Earning or Additive					
SAC03	559	Agency Qualifier Code		X	ID	2/2	Recommended	
		Description:	Code identifying the agency assigning the code values					
		Code	Name					
		AS	Assigned by Seller					
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		X	AN	1/10	Recommended	
		Description:	Agency maintained code identifying the service, promotion, allowance, or charge					
SAC05	610	Amount		O	N2	1/15	Recommended	
		Description:	Monetary amount					
SAC06	378	Allowance/Charge Percent Qualifier		X	ID	1/1	Recommended	
		Description:	Code indicating on what basis allowance or charge percent is calculated					
			All valid standard codes are used.					
SAC07	332	Percent		X	R	1/6	Recommended	
		Description:	Percent expressed as a percent					
SAC08	118	Rate		O	R	1/9	Recommended	
		Description:	Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	Unit or Basis for Measurement Code		X	ID	2/2	Recommended	
		Description:	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
			All valid standard codes are used.					
SAC10	380	Quantity		X	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC11	380	Quantity		O	R	1/15	Recommended	
		Description:	Numeric value of quantity					
SAC12	331	Allowance or Charge Method of Handling Code		O	ID	2/2	Recommended	
		Description:	Code indicating method of handling for an allowance or charge					
			All valid standard codes are used.					
SAC13	127	Reference Identification		X	AN	1/30	Recommended	
		Description:	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
SAC14	770	Option Number		O	AN	1/20	Recommended	
		Description:	A unique number identifying available promotion or allowance options when more than one is offered					
SAC15	352	Description		X	AN	1/80	Recommended	
		Description:	A free-form description to clarify the related data elements and their content					

Syntax:

1. R0203 - At least one of SAC02,SAC03 is required
2. P0304 - If either SAC03,SAC04 is present, then all are required
3. P0607 - If either SAC06,SAC07 is present, then all are required
4. P0910 - If either SAC09,SAC10 is present, then all are required
5. C1110 - If SAC11 is present, then all of SAC10 are required
6. L130204 - If SAC13 is present, then at least one of SAC02,SAC04 is required
7. C1413 - If SAC14 is present, then all of SAC13 are required
8. C1615 - If SAC16 is present, then all of SAC15 are required

Semantics:

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.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. 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.

User Note 1:

For Free Goods, do not transmit SAC03 and SAC04. For Promotion, SAC03 and SAC04 must be transmitted.

ACK Line Item Acknowledgment

Pos: 270	Max: 1
Detail - Optional	
Loop: ACK	Elements: 5

User Option (Usage): Recommended

To acknowledge the ordered quantities and specify the ready date for a specific line item

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ACK01	668	Line Item Status Code Description: Code specifying the action taken by the seller on a line item requested by the buyer Code Name AR Item Accepted and Released for Shipment IA Item Accepted IB Item Backordered IC Item Accepted - Changes Made IR Item Rejected IS Item Accepted - Substitution Made	M	ID	2/2	Mandatory
ACK02	380	Quantity Description: Numeric value of quantity	X	R	1/15	Recommended
ACK03	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 All valid standard codes are used.	X	ID	2/2	Recommended
ACK07	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Name MG Manufacturer's Part Number VN Vendor's (Seller's) Item Number VP Vendor's (Seller's) Part Number	X	ID	2/2	Recommended
ACK08	234	Product/Service ID Description: Identifying number for a product or service User Note 1: Use ACK8 to indicate the Supplier Product Code of the substitute product that replaced the original item requested.	X	AN	1/48	Recommended

Syntax:

1. P0203 - If either ACK02,ACK03 is present, then all are required
2. P0708 - If either ACK07,ACK08 is present, then all are required

Semantics:

- 1.

N9 Reference Identification

Pos: 350	Max: 1
Detail - Optional	
Loop: N9	Elements: 2

User Option (Usage): Recommended

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory
		Code Name L1 Letters or Notes				
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Note 1: <i>The Reference Identification (N9-02) must be included and must not be empty.</i>	M	AN	1/30	Mandatory

Syntax:

1. R0203 - At least one of N902,N903 is required
2. C0605 - If N906 is present, then all of N905 are required

MSG Message Text

Pos: 360	Max: 30
Detail - Optional	
Loop: N9	Elements: 1

User Option (Usage): Recommended

To provide a free-form format that allows the transmission of text information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-Form Message Text	M	AN	1/264	Mandatory
Description: Free-form message text						
User Note 1: <i>Line Item Messages should be sent in MSG segment. Max 30 MSG allowed.</i>						

Comments:

1.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: CTT	Elements: 6

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Mandatory
CTT02	347	Hash Total 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: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R	1/10	Recommended
CTT03	81	Weight Description: Numeric value of weight	X	R	1/10	Recommended
CTT04	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 All valid standard codes are used.	X	ID	2/2	Recommended
CTT05	183	Volume Description: Value of volumetric measure	X	R	1/8	Recommended
CTT06	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 All valid standard codes are used.	X	ID	2/2	Recommended

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

Comments:

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

SE Transaction Set Trailer

Pos: 030	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Mandatory
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	M	AN	4/9	Mandatory

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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	M	N0	1/6	Mandatory
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA**Interchange Control Trailer**

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Mandatory
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Mandatory