850 Purchase Order - Outbound from EFS

X12/V4010/850: 850 Purchase Order

Version: 1.3

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

850

Purchase Order

Functional Group=PO

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) 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 placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Notes:

2/010   PO102 is required.
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.

Not Defined:

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

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Mandatory
020	BEG	Beginning Segment for Purchase Order	M	1			Mandatory
050	REF	Reference Identification	M	4			Mandatory
080	FOB	F.O.B. Related Instructions	O	1			Recommended
LOOP ID - SAC					**5**		
120	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Recommended
150	DTM	Date/Time Reference	O	3			Recommended
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Recommended
LOOP ID - N9					**1**		
295	N9	Reference Identification	O	1			Recommended
300	MSG	Message Text	O	30			Recommended
LOOP ID - N1					**8**		
310	N1	Name	O	1			Recommended
330	N3	Address Information	O	1			Recommended
340	N4	Geographic Location	C	1			Recommended
360	PER	Administrative Communications Contact	O	1			Recommended

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1					**100000**		
010	PO1	Baseline Item Data	M	1		N2/010	Mandatory
049	MEA	Measurements	O	40			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			Recommended

LOOP ID - N9					**1**		
330	N9	Reference Identification	O	1			Recommended
340	MSG	Message Text	O	30			Recommended

Summary:

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

Not Defined:

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

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

---

User Note 1:

EFS Network will send the asterisk ("") as the element separator.*
EFS Network will send the asterisk ("~") as the segment terminator.
EFS Network will send the at sign ("@") as the composite delimiter

---

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Authorization Information				

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Security Information				

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory
		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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Mandatory
		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				

User Note 1: *EFS's Production ID - 4225200000*
EFS's Test ID - 422520TEST

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Mandatory
		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.**				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Mandatory
		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				
ISA09	I08	**Interchange Date**	M	DT	6/6	Mandatory
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Mandatory
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Mandatory
		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.**				
ISA12	I11	**Interchange Control Version Number** **Description:** Code specifying the version number of the interchange control segments	M	ID	5/5	Mandatory

Code — **Name**

00401 — Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

ISA13	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Mandatory
ISA14	I13	**Acknowledgment Requested** **Description:** Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1	Mandatory

Code — **Name**

0 — No Acknowledgment Requested

ISA15	I14	**Usage Indicator** **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Mandatory

Code — **Name**

P — Production Data

T — Test Data

ISA16	I15	**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 **User Note 1:** *EFS uses the '@' symbol on its outbound transactions.*	M	AN	1/1	Mandatory

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

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets	M	ID	2/2	Mandatory
		Code **Name** PO Purchase Order (850)				
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners **User Note 1:** *EFS Production and test ID - 4225200000*	M	AN	2/15	Mandatory
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission; codes agreed to by trading partners	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	M	AN	1/12	Mandatory

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

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

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

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).

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **User Note 1:** *The Transaction Set Identifier Code (ST-01) is "850" [Purchase Order]* **All valid standard codes are used.**	M	ID	3/3	Mandatory
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 **User Note 1:** *Tranaction Set Control Number (ST-02) is an identifying number assigned by EFS Network.*	M	AN	4/9	Mandatory

BEG Beginning Segment for Purchase Order

Pos: 020 **Max: 1**
Heading - Mandatory
Loop: N/A **Elements: 4**

User Option (Usage): Mandatory

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

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG01	353	**Transaction Set Purpose Code** **Description:** Code identifying purpose of transaction set	M	ID	2/2	Mandatory

Code	Name
00	Original

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG02	92	**Purchase Order Type Code** **Description:** Code specifying the type of Purchase Order	M	ID	2/2	Mandatory

Code	Name
DS	Dropship
NE	New Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG03	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Mandatory
BEG05	373	**Date** **Description:** Date expressed as CCYYMMDD **User Note 1:** *Date assigned by purchaser to purchase order.*	M	DT	8/8	Mandatory

REF   Reference Identification

Pos: 050	Max: 4
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Mandatory

To specify identifying information

Syntax:

1. R0203 - At least one of REF02,REF03 is required

Semantics:

1.

User Note 1:

EFS Network will always send a REF segment with a IL qualifier in REF01. Suppliers are required to send this identifier back in the 855 REF segment.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	Mandatory

Code	Name
CR	Customer Reference Number

User Note 1:

Customer Reference Number is an additional Order Control Number that is assigned at the Buyer's Corporate level.

FI	File Identifier

User Note 1:

File Identifier is an additional Order Control number that is assigned for a specific product category by the Buyer.

IL	Internal Order Number

User Note 1:

EFS will always send the "IL" qualifier to indicate the Internal Order Number. This number is used to track all related documents within the EFS Application. Partners are required to return this number in the 855 PO Ack.

YD	Buyer Identification

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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** **Description:** A free-form description to clarify the related data elements and their content	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

Semantics:

1. FOB01 indicates which party will pay the carrier.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	**Shipment Method of Payment**	M	ID	2/2	Mandatory

Description: Code identifying payment terms for transportation charges

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

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

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.

User Note 1:

For Free Goods, do not transmit SAC-03 and SAC-04For Promotion, SAC-03 and SAC-04 must be transmitted

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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				
	A720	Broken Package 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				
	G970	Small Order Charge				
	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** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Recommended

Code	**Name**
CA	Case
DO	Dollars, U.S.
EA	Each
LB	Pound

SAC10	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Recommended
SAC11	380	**Quantity** **Description:** Numeric value of quantity	O	R	1/15	Recommended
SAC12	331	**Allowance or Charge Method of Handling Code** **Description:** Code indicating method of handling for an allowance or charge	O	ID	2/2	Recommended

Code	**Name**
01	Bill Back
02	Off Invoice
06	Charge to be Paid by Customer

SAC13	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
SAC14	770	**Option Number** **Description:** A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Recommended
SAC15	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Recommended

DTM Date/Time Reference

| Pos: 150   Max: 3 |
| Heading - Optional |
| Loop: N/A   Elements: 2 |

User Option (Usage): Recommended

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Mandatory

Description: Code specifying type of date or time, or both date and time

User Note 1: *EFS will pass one of these values for DTM01 based on what the buying organization sends to EFS.*

Code	Name
002	Delivery Requested
010	Requested Ship
118	Requested Pick-up

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	X	DT	8/8	Recommended

Description: Date expressed as CCYYMMDD

TD5	**Carrier Details (Routing Sequence/Transit Time)**	**Pos: 240** **Max: 1** **Heading - Optional** **Loop: N/A** **Elements: 1**

User Option (Usage): Recommended

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

Semantics:

1.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD504	91	**Transportation Method/Type Code**	X	ID	1/2	Mandatory

      Description: Code specifying the method or type of transportation for the shipment

      User Note 1: *EFS will pass one of these values for TD504 based on what the buying organization sends EFS.*

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

N9 Reference Identification

Pos: 295	**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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	Mandatory

Code	Name
L1	Letters or Notes

> **User Note 1:**
>
> *EFS will pass order notes from the buying organization in the N9 and MSG segments.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:** *EFS will send "GEN" in N902 to indicate that the MSG Segment contains General Notes.*	X	AN	1/30	Recommended

MSG   Message Text

Pos: 300	**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

Syntax:

1. C0302 - If MSG03 is present, then all of MSG02 are required

Semantics:

1.

Comments:

1.

User Note 1:

See Usage Notes in N9 segment for information regarding the usage of the MSG segment.

Element Summary:

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

N1 **Name**

User Option (Usage): Recommended

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

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Mandatory

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BO	Broker or Sales Office
BT	Bill-to-Party

> **User Note 1:**
> *EFS will always send a N1 segment with "BT" qualifier to identify the Bill To address.*

BY	Buying Party (Purchaser)

> **User Note 1:**
> *EFS will always send a N1 segment with a "BY" qualifier to identify the Buying Party*

CA	Carrier
PW	Pick Up Address
SF	Ship From
ST	Ship To

> **User Note 1:**
> *EFS will always send a N1 segment with "ST" qualifier to identify the Ship To Address.*

VN	Vendor

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Recommended

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Recommended

Description: Code designating the system/method of code structure used for Identification Code (67)

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

> **User Note 1:**
> *EFS will send a "91" qualifier to indicate that the code is assigned by Seller.*

92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Recommended

Description: Code identifying a party or other code

N3 Address Information

Pos: 330	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Recommended

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: 340	Max: 1
Heading - Conditional	
Loop: N1	Elements: 4

User Option (Usage): Recommended

To specify the geographic place of the named party

Syntax:

1. C0605 - If N406 is present, then all of N405 are required

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

PER   Administrative Communications Contact

Pos: 360	**Max: 1**
Heading - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Recommended

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

Syntax:

1. P0304 - If either PER03,PER04 is present, then all are required

User Note 1:
This segment is used in N1 Loop for a specific purpose declared in N1-01 element.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code** **Description:** Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Mandatory

Code	Name
CN	General Contact

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 **All valid standard codes are used.**	X	ID	2/2	Dependent
PER04	364	**Communication Number** **Description:** Complete communications number including country or area code when applicable	X	AN	1/80	Recommended

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

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
6. P1213 - If either PO112,PO113 is present, then all are required
7. P1415 - If either PO114,PO115 is present, then all are required
8. P1617 - If either PO116,PO117 is present, then all are required
9. P1819 - If either PO118,PO119 is present, then all are required
10. P2021 - If either PO120,PO121 is present, then all are required
11. P2223 - If either PO122,PO123 is present, then all are required
12. P2425 - If either PO124,PO125 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 PO125 provide for ten 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:

EFS will send the supplier product code with qualifier "VP". UPC and Buyer product code will be sent if available.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO101	350	**Assigned Identification**	O	AN	1/20	Recommended
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
PO102	330	**Quantity Ordered**	X	R	1/15	Recommended
		Description: Quantity ordered				
PO103	355	**Unit or Basis for Measurement Code**	O	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				

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 service		X	AN	1/48	Recommended
PO108	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	Mandatory
		Code	**Name**				
		MG	Manufacturer's Part Number				
		VN	Vendor's (Seller's) Item Number				
		VP	Vendor's (Seller's) Part Number				
PO109	234	**Product/Service ID** **Description:** Identifying number for a product or service		X	AN	1/48	Mandatory
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	Mandatory
		Code	**Name**				
		PI	Purchaser's Item Code				
PO111	234	**Product/Service ID** **Description:** Identifying number for a product or service		X	AN	1/48	Mandatory

MEA **Measurements**

Pos: 049	**Max: 40**
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)

Syntax:

1. R03050608 - At least one of MEA03,MEA05,MEA06,MEA08 is required

Semantics:

1. MEA04 defines the unit of measure for MEA03.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Mandatory

Code	Name
G	Gross Weight
T	Tare Weight
WT	Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA03	739	**Measurement Value** **Description:** The value of the measurement	X	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)	X	Comp		Used
	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	M	ID	2/2	Mandatory

Code	Name
LB	Pound

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

Semantics:

1.

Comments:

1. If PID01 equals "F", then PID05 is used.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	**Item Description Type** **Description:** Code indicating the format of a description	M	ID	1/1	Mandatory

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Mandatory

REF   Reference Identification

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

User Option (Usage): Recommended

To specify identifying information

Semantics:
  1.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	Mandatory

Code	Name
BD	Bid Number

User Note 1:
If REF01 is "BD", then REF02 will be the Bid Number.

Code	Name
WM	Weight Agreement Number

User Note 1:
If REF01 is "WM", then REF02 will be the Price Bracket.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	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

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 SAC-03 and SAC-04. For Promotion, SAC-03 and SAC-04 must be transmitted.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC02	1300	**Service, Promotion, Allowance, or Charge Code** **Description:** Code identifying the service.	C	ID	4/4	Mandatory

promotion, allowance, or charge

Code	Name
A130	Additional Material
A170	Adjustments
A320	Air Transportation Charge
A720	Broken Package 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
G970	Small Order Charge
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**	O	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**	O	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**	C	ID	1/1	Recommended

Description: Code indicating on what basis allowance or charge percent is calculated

		Code	Name				
		1	Item List Cost				
		2	Item Net Cost				
		3	Discount/Gross				
		4	Discount/Net				
		5	Base Price per Unit				
		6	Base Price Amount				
		7	Base Price Amount Less Previous Discount				
SAC07	332	**Percent**		X	R	1/6	Used
		Description: Percent expressed as a percent					
SAC08	118	**Rate**		O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified					
SAC09	355	**Unit or Basis for Measurement Code**		X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

		Code	Name
		CA	Case
		DO	Dollars, U.S.
		EA	Each
		LB	Pound

SAC10	380	**Quantity**		O	R	1/15	Used
		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					

		Code	Name
		01	Bill Back
		02	Off Invoice
		06	Charge to be Paid by Customer

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					

N9   Reference Identification

Pos: 330	**Max: 1**
Detail - Optional	
Loop: N9	**Elements: 2**

User Option (Usage): Recommended

To transmit identifying information as specified by the Reference Identification Qualifier

Semantics:

1.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	Mandatory

Code   **Name**

L1   Letters or Notes

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:** *The Reference Identification (N9-02) must be included and must not be empty.*	X	AN	1/30	Recommended

MSG   Message Text

Pos: 340   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

Comments:

1.

Element Summary:

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

CTT   Transaction Totals

User Option (Usage): Mandatory

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

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	Mandatory
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	X	ID	2/2	Recommended

Code	Name
GA	Gallon
LB	Pound
OZ	Ounce - Av

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	X	ID	2/2	Recommended

Code	Name
CF	Cubic Feet
CI	Cubic Inches
CY	Cubic Yard

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)

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

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

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.

Element Summary:

Ref	Id	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	M	N0	1/6	Mandatory
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Mandatory

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:

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	M	N0	1/5	Mandatory
IEA02	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Mandatory