

850 - Purchase Order

EDI Specification

X12/V4010/850: 850 Purchase Order

Version: 1.0

Company: Flexport Publication: 06/20/2024



850

Purchase Order Functional Group=PO

Ver 1.0

Purpose: 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.

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage	
	<u>ISA</u>	Interchange Control Header	M	1			Must use	Ш
	GS	Functional Group Header	M	1			Must use	Π

Heading:

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	<u>ST</u>	Transaction Set Header	M	1			Must use
020	<u>BEG</u>	Beginning Segment for Purchase Order	М	1			Must use
040	<u>CUR</u>	Currency	0	1			Used
060	<u>PER</u>	Administrative Communications Contact	0	3			Used
080	<u>FOB</u>	F.O.B. Related Instructions	0	>1			Must use
150	<u>DTM</u>	Date/Time Reference	0	10			Used
240	TD5	Carrier Details	0	12			Used
LOOP ID - N9					<u>1000</u>		
295	<u>N9</u>	Reference Identification	0	1			Used
300	<u>MSG</u>	Message Text	0	1000			Used
LOOP ID - N1					<u>200</u>		
310	<u>N1</u>	Name	0	1			Must use

Detail:

Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage
<u>LOOP ID</u> - PO1					100000	N2/010L	
010	<u>PO1</u>	Baseline Item Data	М	1		N2/010	Must use
LOOP ID	!				<u>1000</u>		
050	PID	Product/Item Description	М	1			Must use
090	<u>PO4</u>	Item Physical Details	0	>1			Used
100	REF	Reference Identification	0	>1			Used
180	<u>FOB</u>	F.O.B. Related Instructions	0	>1			Used
210	DTM	Date/Time Reference	0	10			Used
250	TD5	Carrier Details	0	12			Used

Summary:

Γ	Pos	Id	Sogment Name	Rea	Max Use	Popost	Notes	Heann	П	٦
- 1	Pos	μα	Segment Name	Req	Wax Use	кереас	Notes	Usage	11	

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030 SE Transaction Set Trailer M 1 Must use		\prod
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	Pos	ld	Segment Name	Req	Max Use	Repeat	Notes	Usage	\prod
		<u>GE</u>	Functional Group Trailer	М	1			Must use	\prod
Г		<u>IEA</u>	Interchange Control Trailer	М	1			Must use	П

Notes:



ISA	Interchange Control Header		
		Pos:	Max: 1
		Not Defined	
		 Mandatory 	
		Loop: N/A	Elements: 16
			-

User Option (Usage): Must use

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

Ref	ld	Element Name		Req	Type	Min/Max	Usage
ISA01	101	Authorization Information Qualifier		M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information					
		Code	Name				
		00	No Authorization Information Present (No Meaningful Information in I02)				
ISA02	102	Authorization Information		М	AN	10/10	Must use
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)					
10100		Note: *Must be Space _s					
ISA03	103	Security Information Qualifier Description: Code to identify the type of information in the Security Information		M	ID	2/2	Must use
		Code	Name				
		00	No Security Information Present (No Meaningful Information in I04)				



ISA04	104	Security Information		M	AN	10/10	Must use
IUAU 1	104	Description : This is used for the security information abour interchange sender or the dat interchange; the type of inform by the Security Information Q	t the ta in the nation is set	IVI	AIN	10/10	ividat dae
		Note: *Must be Space					
ISA05	105	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified		M	ID	2/2	Must use
		Code	Name				
		ZZ	Mutually Defined				
ISA06	106	Interchange Sender ID		M	AN	15/15	Must use
		Description : Identification coby the sender for other partie the receiver ID to route data	scription: Identification code published the sender for other parties to use as receiver ID to route data to them; the order always codes this value in the				
ISA07	105	system/method of code struc	Description : Qualifier to designate the system/method of code structure used to designate the sender or receiver ID		ID	2/2	Must use
ISA08	107	Interchange Receiver ID Description: Identification co by the receiver of the data; W it is used by the sender as th ID, thus other parties sending use this as a receiving ID to r them Notes: QA/Dev: FLEXPORTA Prod: FLEXPORTA	/hen sending, eir sending g to them will route data to	М	AN	15/15	Must use
		Code	Name				
		ZZ	Mutually				
ISA09	108	Interchange Date Description: Date of the inte	Defined rchange	M	DT	6/6	Must use
ISA10	109	Interchange Time Description: Time of the interchange Time	·		TM	4/4	Must use
ISA11	110	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by		M	ID	1/1	Must use



		the interchange header and					
		trailer Code	Name				
	-	U	Name U.S. EDI				
		U	Community of ASC X12, TDCC, and UCS				
ISA12	l111	Interchange Control Version Number		М	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments					
		Code	Name				
		00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	l12	Interchange Control Number		М	N0	9/9	Must use
		Description : A control number assigned by the					
		number assigned by the interchange sender			- 10		
ISA14	l13	number assigned by the		M	ID	1/1	Must use
ISA14	l13	number assigned by the interchange sender Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) Code	Name	M	ID	1/1	Must use
ISA14	l13	number assigned by the interchange sender Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)		M	ID	1/1	Must use
ISA14	l13	number assigned by the interchange sender Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) Code	Name No Acknowledg ment	M	ID	1/1	Must use
ISA14	l13	number assigned by the interchange sender Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) Code 0	Name No Acknowledg ment Requested Interchange Acknowledg ment	M	ID	1/1	Must use Must use



		Production Data Test Data			
ISA16	Component Element Separato Description: The component of separator is a delimiter and no element; this field provides the used to separate component of elements within a composite d	element t a data delimiter ata	M	1/1	Must use

Example:

ISA*00* *00* *ZZ*123456789 *ZZ*FLEXPORTEDI*080807*0830*U*00401*000000001*0*P*>



GS	Functional Group Header		
		Pos:	Max: 1
		Not Defined	
		 Mandatory 	
		Loop: N/A	Elements: 8
			_

User Option (Usage): Must use

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

Ref	ld	Element Name		Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code		М	ID	2/2	Must use
		Description : Code identifying a group of application related transaction sets					
		Code	Name				
		PO	Purchase Order (850)				
GS02	142	Application Sender's Code		М	AN	2/15	Must use
			escription: Code identifying party ending transmission; codes agreed to by				
GS03	124	Application Receiver's Code		М	AN	2/15	Must use
			Description : Code identifying party receiving transmission; codes agreed to by				
		Notes: QA/Dev: FLEXPORTA Prod: FLEXPORTA					
GS04	373	Date		М	DT	8/8	Must use
		Description : Date expressed as CCYYMMDD					
GS05	337	Time		М	TM	4/8	Must use
		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)					
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender		M	N0	1/9	Must use
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	Must use
		X	Name 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 sub release 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	Must use
		Code 004010	Name Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997				

Semantics:



1. GS04 is the group date	e
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Example:

GS*PO*123456789*FLEXPORTEDI*20080807*0830*1*X*004010~

ST	Transaction Set Header		
		Pos: 010	Max: 1
		Heading -	
		Mandatory	
		Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code		М	ID	3/3	Must use
		Description : Code uniquely identifying a Transaction Set					
		Code	Name				
		850	Purchase Order				
ST02			М	AN	4/9	Must use	

Semantics:

Example:

ST*85	50*0	0001	04660	~
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^{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.

^{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).



BEG	Beginning Segment for		
	Purchase Order	Pos: 020 Heading - Mandatory	Max: 1
		Loop: N/A	Elements: 5

User Option (Usage): Must use

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

dates

Ref	ld	Element Name		Req	Type	Min/Max	Usage
BEG01	353	Transaction Set Purpose Code		M	ID	2/2	Must use
		Description : Code identifying purpose of transaction set					
		Code	Name				
		00	Original				
		01	Cancellatio n				
		04	Change (Flexport will replace original PO with the change PO)				
		05	Replace				
		53	Completion				
BEG02	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order		М	ID	2/2	Must use
		Code	Name				
		KN	Purchase Order				
BEG03	324	Purchase Order Number		М	AN	1/22	Must use



		Description : Identifying number for Purchase Order assigned by the orderer/purchaser				
BEG04	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	0	AN	1/30	Used
BEG05	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use

Semantics:

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

Example:

BEG*00*KN*708861*67654*20190812~



CUR	Currency		
		Pos: 040	Max: 1
		Heading -	
		Optional	
		Loop: N/A	Elements: 2

User Option (Usage): Used

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

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
CUR01	98	Entity Identifier Code		М	ID	2/3	Must use
		Description : Code identifying an organizational entity, a physical location, property or an individual					
		Code	Name				
		ZZ	Mutually Defined				
CUR02	100	Currency Code		М	ID	3/3	Must use
		Description : Code (Standard ISO) for country in whose currency the charges are specified					

Example:

CUR*ZZ*USD~		



PER	AdministrativeCommunication		
	s Contact	Pos: 060 Heading - Optional	Max: 1
		Loop: N/A	Elements: 6

User Option (Usage): Used Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

	Ref	ld	Element Name		Req	Type	Min/Max	Usage
	PER01	366	Contact Function Code		М	ID	2/2	Must use
			Description : Code identifying the major duty or responsibility of the person or group named					
			Code	Name				
			VN	Vendor (Seller Contact)				
			BD	BD Buyer Name or Department (Buyer Contact)				
r			OW	Owner				
			SH	Shipper Contact				
			ED	Emergency Contact-Con signee				
			FC	Forwarder Contact (Freight Forwarder)				
			NT	Notification				

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		Code FX	Name Facsimile				
		Description: Code identifying the type of communication number					
PER07	365	Communication Number Qualifier		С	ID	2/2	Used
PER06	364	Communication Number Description: Complete comnumber including country or when applicable		С	AN	1/80	Used
		EM	Electronic Mail				
		Code	Name				
		Description : Code identifying the type of communication number					
PER05	365	Communication Number Qualifier		С	ID	2/2	Used
I LINU4	304	Description: Complete communications number including country or area code when applicable			AIN	1700	- Oseu
PER04	364	TE Communication Number	Telephone	С	AN	1/80	Used
		Code	Name				
PERUS	303	Qualifier Description: Code identifying the type of communication number		C	ID	212	Useu
PER03	365	Description: Free-form nam Communication Number	ne I	C	ID	2/2	Used
PER02	93	Name	Agent)	M	AN	1/60	Must use
		AG	g Agent (Buyer/Seller				
		ME	(Carrier) Manufacturin				
		BA TM	Broker (Customs Broker) Transmitter				
		DA	Contact (NotifyParty)				



	when applicable		

Syntax Rules:

1.	If either PER03 or PER04 is present, then the other is required.
2.	If either PER05 or PER06 is present, then the other is required.

3. If either PER07 or PER08 is present, then the other is required.

Example:

PER*BD*CUSTOMER PO CONTACT*TE*800-555-5555*EM*Test@test.com*FX*630-351-7334

FOB	F.O.B. Related Instructions		
		Pos: 080	Max: >1
		Heading -	
		Mandatory	
		Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
FOB01	146	Shipment Method of Payment		М	ID	2/2	Must use
		Description : Code identifying payment terms for transportation charges					
		Code	Name				
		cc	Collect				
		PP	Prepaid (by Seller)				
FOB02	309	Location Qualifier Description: Code identifying type of location		С	ID	1/2	Used
		Code	Name				
		OR	Origin (Shipping Point)				
FOB03	352	Description Description: A free-form description desc		С	AN	1/80	Used

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		Notes: Use 3 char loc code, IA UNLOC Code or valid port nan standard must be used and ap PO's that are transmitted. Enum: unlocode,iata,icao,us_c	ne. One plied to all				
FOB04	334	Transportation Terms Qualifier Code Description: Code identifying		С	ID	2/2	Used
		the source of the transportation terms					
		Code	Name				
		01	Incoterms				
FOB05	335	Transportation Terms Code		С	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility					
		Code	Name				
		CFR	Cost and Freight				
		CIF	Cost, Insurance, and Freight				
		CIP	Carriage and Insurance Paid To				
		СРТ	Carriage Paid To				
		DAP	Delivered at Place				
		DAT	Delivered at Terminal				
		DDP	Delivered Duty Paid				
		EXW	Ex Works				
		FAS	Free Alongside Ship				
		FOB	Free on Board				
FOB06	309	Location Qualifier		С	ID	1/2	Used
		Description : Code identifying type of location					
	1	Code	Name				
		DE	Destination (Shipping)				
FOB07	352	Description		С	AN	1/80	Used
		Description: A free-form descri clarify the related data element content					



Notes: Use 3 char loc code, IATA Port, UNLOC Code or valid port name. One standard must be used and applied to all PO's that are transmitted		
. Enum: unlocode,iata,icao,us_cbp		

Syntax Rules:

1.	C0302 - If FOB03 is present, then FOB02 is required.
2.	C0405 - If FOB04 is present, then FOB05 is required.
3.	C0706 - If FOB07 is present, then FOB06 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.

Example:

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~



DTM	Date/Time Reference		
		Pos: 150	Max: 10
		Heading -	
		Optional	
		Loop: N/A	Elements: 3
		-	

User Option (Usage): Used Purpose: To specify pertinent dates and times

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier		М	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time Notes: 038 "Ship no Later" is used as "Cargo Ready Date" 010 is used as "Must Arrive By Date"					
		Code	Name				
		038	Ship No Later				
		010	Requested Ship				
DTM02	373	Date		М	DT	8/8	Must use
		Description : Date expressed as CCYYMMDD					
DTM03	337	Time		С	TM	4/8	Not used
		Description : Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or					

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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) ` ´		

Syntax Rules:

1. R020305 - At least one of DTM02 or DTM03 are required

Example:

DTM*038*20241005~ DTM*010*20241210~

TD5	Carrier Details (Routing		
	Sequence/Transit Time)	Pos: 240 Heading - Optional	Max: 12
		Loop: N/A	Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
TD501	133	Routing Sequence Code		М	ID	1/2	Must use
		Description : Code describing the relationship of a carrier to a specific shipment movement					
		Code	Name				
		O	Origin Carrier (Air, Motor, or Ocean)				
TD502	66	Identification Code Qualifier		С	ID	1/2	Not used
		Description: Code designating the system/method of code structure used for Identification Code (67)					
TD503	67	Identification Code		С	AN	2/80	Not used
		Description : Code identifying a party or other code			_		
TD504	91	Transportation Method/Type		М	ID	1/2	Must Use

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	Code Description: Code specifying the method or type of transportation for the shipment				
	Code	Name			
П	A	Air			
	М	Motor (Common Carrier)			
П	R	Rail			
П	S	Ocean			

Syntax Rules:

1.	R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2	C0203 - If TD502 is present, then TD503 is required

Example:

TD5*O***S~		



Loop Reference Identification		
	Pos: 295	Repeat: 1000
	Optional	
	Loop: N9	Elements: N/A

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
300	MSG	Message Text	0	1000		Used

MSG	Message Text		
		Pos: 300	Max: 1000
		Heading -	
		Optional	
		Loop: N9	Elements: 1

User Option (Usage): Used

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

Element Summary:

ſ	Ref	ld	Element Name	Req	Туре	Min/Max	Usage
	MSG01	933	Free-Form Message Text	М	AN	1/264	Must use
١			Description: Free-form message text				

Example:

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MSG*PLEASE SHIP BY WEEK OF 9/29 THRU 10/5~



Loop Name		
	Pos: 310	Repeat: 200
	Optional	
	Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
310	N1	Name	0	1		Used

N1	Name		
		Pos: 310	Max: 1
		Heading -	
		Optional	
		Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	ld	Elem	ent Name		Req	Type	Min/Max	Usage
N10 ²	1 98	Entity	Identifier Code		М	ID	2/3	Must use
		identi entity	ription: Code fying an organizational , a physical location, erty or an individual					
		Code	ļ	Name				
		SU		Supplier				
		ВТ		Bill To				
		HA		Owner				
		SH		Shipper				
		CN		Consignee				
		FW		Forwarder (Freight Forwarder)				
		NP		Notify Party for Shipper's Order				
		СВ		Customs Broker				
		CA		Carrier				
		MF		Manufacturer of Goods				
		AG		Agent/Agenc y (Buyer Agent)				

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		EV	Selling Agent				
N102	93	Name Description: Free-form name		0	AN	1/60	Not Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Notes: See notes below segment.		M	ID	1/2	Must use
		Code	Name				
		ZZ	Mutually Defined				
N104	67	Identification Code		М	AN	2/80	Must use
		Description : Code identifying a party or other code Notes: Identification codes must represent origin location code and destination location codes.					

Syntax Rules:

1.	R0203 - At least one of N102 or N103 is required.
2.	P0304 - N103 is present, then N104 is required.

Notes:

When N101 = "SU" then N103 is "ZZ" and N104 is "origin_location_ref"
When N101 = "BT" then N103 is "ZZ" and N104 is "destination_location_ref"

Example:

N1*SU*DISTRIBUTING COMPANY*9*0154585215317~ N1*BT*CARDINAL HEALTH*US*21199~



Loop Baseline Item Data		
	Pos: 010	Repeat: 100000
	Mandatory	
	Loop: PO1	Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item data

Loop Summary:

	Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
	010	PO1	Baseline Item Data	М	1		Must use
Г	050		Loop PID	0		1000	Used

PO1	Baseline Item Data		
		Pos: 010	Max: 1
		Detail -	
		Mandatory	
		Loop: PO1	Elements: 21

User Option (Usage): Must use

Purpose: To specify basic and most frequently used line item data

Ref	ld	Element Name		Req	Туре	Min/Max	Usage
PO101	350	Assigned Identification Description: Alphanumeric classigned for differentiation with transaction set		М	AN	1/20	Must Use
PO102	330	Quantity Ordered Description: Quantity ordered		М	R	1/15	Must use
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		M	ID	2/2	Must use
		Code	Name				
		"BBL","CAR","CGM","CKG"," CM","CM2","CTN","CYK","D OZ","DPC","DPR","DS","FBM ","G","GBQ","GR","GRL","HU N","IRG","JWL","K","KG","KM 3","KM","KWH","L","LNM","M					



		","M2","M3","MBQ","NO","OS G","PCS","PDG","PFL","PK", "PRS","PTG","PX","RHG","R UG","T","TDWB","THS","W", X","20","21","2W","43","AS"," BA","BC","BD","BG","BJ","BK ","BN","BO","BU","BX","CA"," CB","CC","CF","CG","CI","CN ","CP","CQ","CR","CS","CT"," CX","CY","DF","DH","DIS","D R","DZ","EA","FT","GA","GR AM","GS","IN","JO","JR","LB" ,"LF","LT","MM","MP","MR"," MT","OZ","PC","PQ","PR","P S","PT","QT","RA","RL","RM" ,"RO","SC","SF","SH","SI","S J","SL","SM","SO","SQ","ST",					
		O","UN","YD","Z3"					
PO104	212	Unit Price Description: Price per unit of service, commodity, etc.	product,	С	R	1/17	Used
PO105	639	Basis of Unit Price Code Description: Code identifying unit price for an item	the type of	С	ID	2/2	Used
PO106	235	Product/Service ID Qualifier		С	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	Name				
		BP	Buyer's Part Number				
PO107	234	Product/Service ID Description: Identifying number for a product or service		С	AN	1/48	Used
PO108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)		С	ID	2/2	Used
		Code	Name				
		VP	Vendor's (Seller's) Part Number				
PO109	234	Product/Service ID Description: Identifying number for a product or service		С	AN	1/48	Used



PO1010	235	Product/Service ID Qualifier	1 1	С	ID	2/2	Used
	233			C	טו	212	Useu
		Description: Code identifying					
		the type/source of the					
		descriptive number used in Product/Service ID (234)					
		Code	Name				
		SK	Stock				
			Keeping Unit				
			(SKU)				
PO1011	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying					
		number for a product or					
		service					
	1005	D 1 1/0 : ID 0 1/5	1		i.	0.10	
PO1012	235	Product/Service ID Qualifier		С	ID	2/2	Used
		Description: Code identifying					
		the type/source of the					
		descriptive number used in Product/Service ID (234)					
H		· · ·	Nama				
		Code	Name				
		UL	U.P.C.				
			Coupon				
			Code				
			(1-5-5-1)				
PO1013	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying					
		number for a product or					
		service					
PO1014	235	Product/Service ID Qualifier		С	ID	2/2	Used
	200			Ü		2,2	Occu
		Description: Code identifying the type/source of the					
		descriptive number used in					
		Product/Service ID (234)					
H		Code	Name				
		ST	Style				
			Number				
PO1015	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying					
		number for a product or					
		service					
PO1016	235	Product/Service ID Qualifier		С	ID	2/2	Used
		Description: Code identifying					
		the type/source of the					
		descriptive number used in					
		Product/Service ID (234)					
H		Code	Name				
		CL	Color				
\sqcup			00.0.				



PO1017	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying number for a product or service					
PO1018	235	Product/Service ID Qualifier		С	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	Name				
		LT	Lot Number				
PO1019	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying number for a product or service					
PO1020	235	Product/Service ID Qualifier		С	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code	Name				
		CL	Country of Origin Code				
PO1021	234	Product/Service ID		С	AN	1/48	Used
		Description: Identifying number for a product or service					

Syntax Rules:

1.	C0302 - If PO103 is present, then PO102 is required.
2.	C0504 - If PO105 is present, then PO104 is required.
3.	P0607 - If either PO106 or PO107 is present, then the other is required.
4.	P0809 - If either PO108 or PO109 is present, then the other is required.
5.	P1011 - If either PO110 or PO111 is present, then the other is required.
6.	P1213 - If either PO112 or PO113 is present, then the other is required.
7.	P1415 - If either PO114 or PO115 is present, then the other is required.
8.	P1617 - If either PO116 or PO117 is present, then the other is required.
9.	P1819 - If either PO118 or PO119 is present, then the other is required.
10.	P2021 - If either PO120 or PO121 is present, then the other is required.

Example:

PO1*1*630*EA***BP*QG20009-HDV*VP*AJ-QG20009~



Loop Product/Item Description Pos: 050 Repeat: 1000 Optional Loop: PID Elements: N/A

User Option (Usage): Used

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

Loop Summary:

Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
050	PID	Product/Item Description	0	1		Used

PID	Product/Item Description		
		Pos: 050	Max: 1
		Detail -	
		Optional	
		Loop: PID	Elements: 5

User Option (Usage): Used

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

Ref	ld	Element Name		Req	Type	Min/Max	Usage
PID01	349	Item Description Type		М	ID	1/1	Must use
		Description : Code indicating the format of a description					
		Code	Name				
		F	Free-form				
PID02	750	Product/Process Characteris	tic Code	0	ID	2/3	Not used
		Description : Code identifying class of a product or process					
PID03	559	Agency Qualifier Code		С	ID	2/2	Not used
		Description : Code identifying assigning the code values	g the agency				
PID04	751	Product Description Code		С	AN	1/12	Not used
		Description : A code from an industry code list which provides specific data about a product characteristic					
PID05	352	Description		М	AN	1/80	Must Use
		Description : A free-form desclarify the related data eleme content					



Syntax Rules:

1.	C0403 - If PID04 is present, then PID03 is required.
2.	R0405 - At least one of PID04 or PID05 is required.

Semantics:

- Use PID03 to indicate the organization that publishes the code list being referred to.
 PID04 should be used for industry-specific product description codes.

Example:

PID*F**** PRODUCT1~



PO4	Item Physical Details		
		Pos: 060	Max: >1
		Detail -	
		Optional	
		P04	Elements: 13

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Ref	ld	Element Name		Req	Type	Min/Max	Usage
PO405	187	Weight Qualifier		С	ID	1/2	Must use
		Description : Code specifying the type of weight					
		Code	Name				
		G	Gross Weight				
		N	Net Weight				
PO406	384	Gross Weight per Pack		С	ID	1/9	Used
		Description : Numeric value weight per pack	of gross				
PO407	355	Unit or Basis for Measurement Code		С	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				
		EA	Each				
		·	-				
PO408	385	Gross Volume per Pack		C	R	1/9	Used
		Description : Numeric value volume per pack	of gross				
IDO 400	1055	lu., p	1	<u> </u>		0.40	
PO409	355	Unit or Basis for Measurement Code		С	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				
		"BBL","CAR","CGM","CKG"," CM","CM2","CTN","CYK","D					



OZ","DPC","DPR","DS","FB			
M","G","GBQ","GR","GRL","			
HUN","IRG","JWL","K","KG",			
"KM3","KM","KWH","L","LNM			
","M","M2","M3","MBQ","NO"			
,"OSG","PCS","PDG","PFL","			
PK","PRS","PTG","PX","RH			
G","RUG","T","TDWB","THS"			
,"W","X","20","21","2W","43",			
"AS","BA","BC","BD","BG","B			
J","BK","BN","BO","BU","BX" ,"CA","CB","CC","CF","CG","			
CI","CN","CP","CQ","CR","C			
S","CT","CX","CY","DF","DH"			
"DIS","DR","DZ","EA","FT","			
GA","GRAM","GS","IN","JO",			
"JR","LB","LF","LT","MM","M			
P","MR","MT","OZ","PC","PQ			
","PR","PS","PT","QT","RA","			
RL","RM","RO","SC","SF","S			
H","SI","SJ","SL","SM","SO",			
"SQ","ST","SV","SX","SY","T			
E","TN","TO","UN","YD","Z3"			

PO410	82	Length		С	R	1/8	Used
		Description : Largest horizon of an object measured when to in the upright position					
PO411	189	Width		С	R	1/8	Used
		Description : Shorter measure two horizontal dimensions me the object in the upright positi	asured with				
PO412	65	Height		С	R	1/8	Used
		Description : Vertical dimensi object measured when the obupright position					
PO413	355	Unit or Basis for Measurement Code		С	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				
		"BBL","CAR","CGM","CKG"," CM","CM2","CTN","CYK","D OZ","DPC","DPR","DS","FB M","G","GBQ","GR","GRL"," HUN","IRG","JWL","K","KG"," KM3","KM","KWH","L","LNM" ,"M","M2","M3","MBQ","NO"," OSG","PCS","PDG","PFL","P K","PRS","PTG","PX","RHG",					



"RUG","T","TDWB","THS","
W","X","20","21","2W","43","
AS","BA","BC","BD","BG","BJ
","BK","BN","BO","BU","BX","
CA","CB","CC","CF","CG","CI
","CN","CP","CQ","CR","CS",
"CT","CX","CY","DF","DH","D
IS","DR","DZ","EA","FT","GA
","GRAM","GS","IN","JO","JR
","LB","LF","LT","MM","MP","
MR","MT","OZ","PC","PQ","P
R","PS","PT","QT","RA","RL",
"RM","RO","SC","SF","SH","
SI","SJ","SL","SM","SO","SQ
","ST","SV","SX","SY","TE","
TN","TO","UN","YD","Z3"

Syntax Rules:

1. C0506: If PO4-05 is present, then PO4-06 is required.
2. P0607: If either PO4-06 or PO4-07 is present, then the other is required.
3. P0809: If either PO4-08 or PO4-09 is present, then the other is required
4. C1013: If PO4-10 is present, then PO4-13 is required
5. C1113: If PO4-11 is present, then PO4-13 is required
6. C1213: If PO4-12 is present, then PO4-13 is required
7. L13101112: If PO4-13 is present, then at least one of PO4-10, PO4-11 or PO4-12 is required
8. PO413 defines the unit of measure for PO410, PO411, and PO412.

Example:





REF	Reference Identification		
		Pos: 050 Heading - Optional	Max: >1
		Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

Ref	ld	Element Name		Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier		М	ID	2/3	Must use
		Description : Code qualifying the Reference Identification					
		Code	Name				
		PG	Product Group				

REF02	127	Reference Identification	М	AN	1/30	Must use
		Description : Code identifying type of location				

Syntax Rules:

	[
- 1	At least one of REF02 or REF03 is required

Example:

REF*PG*Product Group~



FOB	F.O.B. Related Instructions		
		Pos: 080	Max: >1
		Heading -	
		Mandatory	
		Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Ref	ld	Element Name		Req	Type	Min/Max	Usage
FOB01	146	Shipment Method of Payment		М	ID	2/2	Must use
		Description : Code identifying payment terms for transportation charges					
		Code	Name				
		cc	Collect				
		PP	Prepaid (by Seller)				
FOB02	309	Location Qualifier		С	ID	1/2	Used
		Description : Code identifying type of location					
		Code	Name				
		OR	Origin (Shipping Point)				
FOB03	352	Description		С	AN	1/80	Used
		Description: A free-form desc clarify the related data element content Notes: Use 3 char loc code, IA	ats and their				
			NLOC Code or valid port name. One andard must be used and applied to all O's that are transmitted.				
		Enum: unlocode,iata,icao,us_o	cbp				
FOB04	334	Transportation Terms Qualifier Code		С	ID	2/2	Used
		Description : Code identifying the source of the transportation terms					
		Code	Name				



		01	Incoterms				
FOB05	335	Transportation Terms Code Description: Code identifying the trade terms which apply to the shipment transportation responsibility		С	ID	3/3	Used
		Code	Name				
		CFR	Cost and Freight				
		CIF	Cost, Insurance, and Freight				
		CIP	Carriage and Insurance Paid To				
		СРТ	Carriage Paid To				
		DAP	Delivered at Place				
		DAT	Delivered at Terminal				
		DDP	Delivered Duty Paid				
		EXW	Ex Works				
		FAS	Free Alongside Ship				
		FOB	Free on Board				
FOB06	309	Location Qualifier Description: Code identifying type of location		С	ID	1/2	Used
		Code	Name				
		DE	Destination (Shipping)				
FOB07	352	Description		С	AN	1/80	Used
		Description: A free-form descriclarify the related data element content Notes: Use 3 char loc code, IA UNLOC Code or valid port nan standard must be used and ap	ts and their TA Port, ne. One				
		PO's that are transmitted . Enum: unlocode,iata,icao,us_c	bp				



Syntax Rules:

1.	C0302 - If FOB03 is present, then FOB02 is required.
2.	C0405 - If FOB04 is present, then FOB05 is required.
3.	C0706 - If FOB07 is present, then FOB06 is required.

Semantics:

FOB01 indicates which party will pay the carrier.	
2. FOB02 is the code specifying transportation responsibility location.	
3. FOB06 is the code specifying the title passage location.	

Example:

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~



DTM	Date/Time Reference		
		Pos: 150	Max: 10
		Heading -	
		Optional	
		Loop: N/A	Elements: 3
			_

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

Ref	ld	Element Name		Req	Туре	Min/Max	Usage
DTM01	374	Date/Time Qualifier		М	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time Notes: 038 "Ship no Later" is used as "Cargo Ready Date" 010 is used as "Must Arrive By Date"					
		Code	Name				
		038	Ship No Later				
		010	Requested Ship				
DTM02	373	Date		М	DT	8/8	Must use
		Description : Date expressed a CCYYMMDD	as				
DTM03	337	Time		С	TM	4/8	Not used
		Description: Time expressed is clock time as follows: HHMM, of HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours = minutes (00-59), S = integer (00-59) and DD = decimal second decimal seconds are expressed D = tenths (0-9) and DD = hunc (00-99)	or s (00-23), M seconds onds; d as follows:				

Syntax Rules:

1. R020305 - At least one of DTM02 or DTM03 are required

Example:

Flexport Guideline EDI Transaction Set 850



DTM*038*20241005~ DTM*010*20241210~

TD5	Carrier Details (Routing		
	Sequence/Transit Time)	Pos: 240 Heading - Optional	Max: 12
		Loop: N/A	Elements: 4

User Option (Usage): Used

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

Ref	ld	Element Name		Req	Type	Min/Max	Usage
TD501	133	Routing Sequence Code		М	ID	1/2	Must use
		Description : Code describing the relationship of a carrier to a specific					
		shipment movement					
		Code O	Name Origin				
		O	Carrier (Air, Motor, or Ocean)				
TD502	66	Identification Code Qualifier		С	ID	1/2	Not used
		Description: Code designating the system/method of code structure used for Identification Code (67)					
TD503	67	Identification Code		С	AN	2/80	Not used
		Description : Code identifying a party or other code					
TD504	91	Transportation Method/Type Code		М	ID	1/2	Must Use
		Description : Code specifying the method or type of transportation for the shipment					
		Code	Name				
		A	Air				
		M	Motor (Common Carrier)				
		R	Rail				
		S	Ocean				



Syntax Rules:

- 1. R0204050612 At least one of TD502, TD504, TD505, TD506 or TD512 is required.
- 2. C0203 If TD502 is present, then TD503 is required.

Example:

TD5*O***S~



Loop Transaction Totals		
	Pos: 010	Repeat: 1
	Optional	
	Loop: CTT	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

	Pos	ld	Segment Name	Req	Max Use	Repeat	Usage
Г		CTT	Transaction Totals	0	1		Used

CTT	Transaction Totals		
		Pos: 010	Max: 1
		Summary -	
		Optional	
		Loop: CTT	Elements: 2

User Option (Usage): Used

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

Element Summary:

	Ref	ld	Element Name	Req	Type	Min/Max	Usage
Γ	CTT01	354	Number of Line Items	М	N0	1/6	Must use
			Description : Total number of line items in the transaction set				
Γ	CTT02	347	Hash Total	0	R	1/10	Used
			Description : Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs.				

Example:

CTT*10*11500~		



SE	Transaction Set Trailer			
			Pos: 030	Max: 1
			Summary -	
			Mandatory	
			Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	ld	Element Name	Req	Туре	Min/Max	Usage
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		Description : Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	М	AN	4/9	Must use

Example:

SE*43*000104660~	



GE	Functional Group Trailer		
		Pos:	Max: 1
		Not Defined	
		- Mandatory	
		Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

	Ref	ld	Element Name	Req	Туре	Min/Max	Usage
Г	GE01	97	Number of Transaction Sets Included	М	N0	1/6	Must use
			Description : Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
	GE02	28	Group Control Number	М	N0	1/9	Must use
			Description : Assigned number originated and maintained by the sender				

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.



IEA	Interchange Control Trailer		
		Pos:	Max: 1
		Not Defined	
		 Mandatory 	
		Loop: N/A	Elements: 2
		-	-

User Option (Usage): Must use

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

Ref	ld	Element Name	Req	Туре	Min/Max	Usage
IEA01	I16	Number of Included Functional Groups	М	N0	1/5	Must use
		Description : A count of the number of functional groups included in an interchange				
IEA02	l12	Interchange Control Number Description: A control number assigned by the interchange sender	М	N0	9/9	Must use



DATA FILE EXAMPLE: NEW PO

ST*850*000104660~

BEG*00*NE*708861**20190812~

CUR*BY*USD~

PER*IC*CUSTOMER PO CONTACT*TE*800-555-5555*EM*Test@test.com*FX*630-351-7334~

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~

DTM*038*20191005~

DTM*010*20191210~

TD5*O***S~

MSG*PLEASE SHIP BY WEEK OF 9/29 THRU 10/5~

N1*SU*VENDOR1*US*21199~

N1*BT*DISTRIBUTING COMPANY*9*0154585215317~

PO1*1*630*EA*3.94**BP*QG20009-HDV*VP*AJ-QG20009~

PID*F****PRODUCT1~

P04****G*48.4*EA*56*EA*7*5*9*****~

REF*PG*Product Group/Category~

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~

DTM*038*20191005~

DTM*010*20191210~

TD5*O***S~

PO1*2*5000*EA*33.69**BP*QG2243CAM-HDV*VP*AJ-QG2243CAM~

PID*F****PRODUCT2~

P04****G*18.4*EA*56*EA*7*5*9*****~

REF*PG*Product Group/Category~

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~

DTM*038*20191005~

DTM*010*20191210~

TD5*O***S~

PO1*3*100*EA***BP*QG4247CAM-HDV*VP*AJ-QG2249CAM~

PID*F**** PRODUCT3~

P04****G*8.4*EA*56*EA*7*5*9*****~

REF*PG*Product Group/Category~

FOB*CC*OR*TWKHH*01*DAP*DE*SNJ~

DTM*038*20191005~

DTM*010*20191210~

TD5*O***S~

CTT*3*11500~

SE*29*000104660~