ZAGENO

SUPPLIER GUIDE · ORDER INTEGRATION

EDI 850 purchase order

ANSI X12 version 4010: every segment and element of the purchase order we send you.

This specification lists each segment and element of the 850, whether it is required, and its data type and length. Use it with the samples, document rules and test cases in the order integration guide.

At a glance

01 Direction

Who sends it

ZAGENO sends this document to your system.

SENDER
ZAGENO

02 Standard

X12 version 4010

The functional group code is the one in the GS segment.

FUNCTIONAL GROUP
PO

03 Connection

AS2 or SFTP

Test and production each have their own connection details.

AS2 SECURITY
SHA-2

How to read the tables

USER REQ is what ZAGENO needs; REQ DES is the X12 standard's designation. M = mandatory, O = optional, X = conditional: send it when it applies. Notes in a shaded box explain how ZAGENO uses a segment or element.

Samples, document rules and test cases

See the order integration guide at go.zageno.com/supplier-guide. Questions: suppliers@zageno.com.

850 Purchase Order

Functional Group = PO

Header

USER REQ	REQ DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
M	M	1	010	ST	Transaction Set Header
M	M	1	020	BEG	Beginning Segment for Purchase Order
O	O	1	050	REF	Reference Identification
				LOOP SAC	**Max: 25** **Optional**
O	M	1	120	SAC	Service, Promotion, Allowance, or Charge Information
O	O	1	130	ITD	Terms of Sale/Deferred Terms of Sale
O	O	1	150	DTM	Date/Time Reference
M	O	1	240	TD5	Carrier Details (Routing Sequence/Transit Time)
				LOOP N9	**Max: 1000** **Optional**
O	M	1	295	N9	Reference Identification
O	O	1	300	MSG	Message Text
				LOOP N1	**Max: 200** **Optional**
M	M	1	310	N1	Name
M	O	2	320	N2	Additional Name Information
M	O	2	330	N3	Address Information
M	O	>1	340	N4	Geographic Location

Detail

USER REQ	REQ DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
				LOOP PO1	**Max: 100000** **Required**
M	M	1	010	PO1	Baseline Item Data
				LOOP CTP	**Max: 1** **Optional**
O	M	1	040	CTP	Pricing Information
				LOOP PID	**Max: 1000** **Optional**
O	M	1	050	PID	Product/Item Description
O	O	1	090	PO4	Item Physical Details
O	O	1	100	REF	Reference Identification

				LOOP SAC	**Max: 25**	**Optional**
O	M	1	130	SAC	Service, Promotion, Allowance, or Charge Information	
				LOOP N9	**Max: 1000**	**Optional**
O	M	1	330	N9	Reference Identification	
O	O	1	340	MSG	Message Text	

Summary

USER REQ	REQ DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME	
				LOOP CTT	**Max: 1**	**Optional**
M	M	1	010	CTT	Transaction Totals	
M	M	1	030	SE	Transaction Set Trailer	

ST Transaction Set Header

ST

Position: 010
Loop:
Level: Header
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	ST01	143	Transaction Set Identifier Code	ID	3/3
M	M	ST02	329	Transaction Set Control Number	AN	4/9

BEG Beginning Segment for Purchase Order

BEG

Position: 020
Loop:
Level: Header
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	BEG01	353	Transaction Set Purpose Code	ID	2/2
				00 Original		
M	M	BEG02	92	Purchase Order Type Code	ID	2/2
				SA Stand-alone Order		
M	M	BEG03	324	Purchase Order Number	AN	1/22
				This will be used as the main key and needs to be returned on all corresponding documents.		
M	M	BEG05	373	Date	DT	8/8
				Date the purchase order was remitted.		

REF Reference Identification

REF

Position: 050
Loop:
Level: Header
User Req: Optional
Max Use: 1
Notes: CO (CustomerOrder Number) - Indicates the end user's order number, typically provided on the packing slip.

Q1(Quote Data)

PL (Price Type)

11 (Account Number)

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	REF01	128	Reference Identification Qualifier * Price Type will indicate if Account based pricing is being used for this particular order * If Account based pricing is used, account number will be communicated with the 11 qualifier. CO Customer Order Number Q1 Quote Number PL Price Type 11 Account Number IT Internal Customer Number	ID	2/3
X	O	REF02	127	Reference Identification	AN	1/30

SAC Service, Promotion, Allowance, or Charge Information

SAC

Position: 120
Loop: SAC
Level: Header
User Req: Optional
Max Use: 1
Notes: A (Allowance) = used to indicate an allowance to be applied to the purchase order total.

C (Charge) = used to indicate a charge to be applied to the purchase order total.

N (No Allowance or Charge) = used to show the end customer's charges or allowances. These will typically be used on the packing slip.

**C310 (Discount) will be the only code using "A" (Allowance) in SAC01.
**ZZZZ (Mutually Defined) will be used as a miscellaneous charge

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	SAC01	248	Allowance or Charge Indicator		ID	1/1
				C	Charge		
				A	Allowance		
				N	No Allowance or Charge		
X	O	SAC02	1300	Service, Promotion, Allowance, or Charge Code		ID	4/4
				G821	Shipping		
				C310	Discount		
				ZZZZ	Mutually Defined		
				H850	Tax		
X	O	SAC05	610	Amount		N2	1/15

ITD Terms of Sale/Deferred Terms of Sale

ITD

Position: 130
Loop:
Level: Header
User Req: Optional
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	ITD01	336	Terms Type Code	ID	2/2
				14 Previously agreed upon		
O	O	ITD02	333	Terms Basis Date Code	ID	1/2
				ZZ Mutually Defined		
O	O	ITD03	338	Terms Discount Percent	R	1/6
O	O	ITD05	351	Terms Discount Days Due	N0	1/3
O	O	ITD07	386	Terms Net Days	N0	1/3
O	O	ITD08	362	Terms Discount Amount	N2	1/10

DTM Date/Time Reference

DTM

Position: 150
Loop:
Level: Header
User Req: Optional
Max Use: 1
Notes: 010 (Requested Ship Date) - will be used to show the latest the date an order can be shipped.

806 (Customer Order) - Will be used to show date when customer placed order; typically used on the packing slip.

002 (Delivery Requested) - Will be used to show the date the purchase order is to be delivered in full.

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	DTM01	374	Date/Time Qualifier		ID	3/3
				010	Requested Ship		
				806	Customer Order		
				002	Delivery Requested		
X	O	DTM02	373	Date		DT	8/8

TD5 Carrier Details (Routing Sequence/Transit Time)

TD5

Position: 240
Loop:
Level: Header
User Req: Required
Max Use: 1
Notes: TD503 Identification (CarrierCode) - this is the Standard Carrier Alpha Code (SCAC). If you are using your own custom shipping methods, set them up with ZAGENO (email suppliers@zageno.com) , the CarrierCode will automatically populate based on the ClassCode (TD505) submitted.

TD505 Routing (Classcode) - This is the field that will be a combination of both SCAC and ServiceLevel. If you map this to your partner's, the CarrierCode (TD503) and the ServiceLevelCode(TD512) will automatically populate accordingly. This will allow you to only keep track of one code (ClassCode) rather then 3. This should always be returned on the Shipment (856).

TD512 Service Level Code (ServiceLevelCode) - If you are using your own custom shipping methods, set them up with ZAGENO (email suppliers@zageno.com) , the ServiceLevelCode (TD512) will automatically populate based on the ClassCode (TD505) submitted

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
O	O	TD502	66	Identification Code Qualifier	ID	1/2
				2 Standard Carrier Alpha Code (SCAC)		
O	O	TD503	67	Identification Code	AN	2/80
M	O	TD505	387	Routing	AN	1/35
O	O	TD512	284	Service Level Code	ID	2/2

N9 Reference Identification

N9

Position: 295
Loop: N9
Level: Header
User Req: Optional
Max Use: 1
Notes: N902 (Reference Identification) - "GFT" will be submitted to identify that a gift message will be supplied in the MSG segment.

MSG01 (Message Text) - Header gift message, will be used on the packing slip if one is required.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	N901	128	Reference Identification Qualifier	ID	2/3
				L1 Letters or Notes		
X	O	N902	127	Reference Identification	AN	1/30

MSG Message Text

MSG

Position: 300
Loop: N9
Level: Header
User Req: Optional
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	MSG01	933	Free-Form Message Text	AN	1/264

N1 Name

N1

Position: 310
Loop: N1
Level: Header
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	N101	98	Entity Identifier Code		ID	2/3
				ST	Ship To		
				BT	Bill-to-Party		
				OB	Ordered By		
O	O	N102	93	Name		AN	1/60

N2 Additional Name Information

N2

Position: 320
Loop: N1
Level: Header
User Req: Required
Max Use: 2

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	N201	93	Name	AN	1/60
O	O	N202	93	Name	AN	1/60

N3 Address Information

N3

Position: 330
Loop: N1
Level: Header
User Req: Required
Max Use: 2

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	N301	166	Address Information	AN	1/55
O	O	N302	166	Address Information	AN	1/55

N4 Geographic Location

N4

Position: 340
Loop: N1
Level: Header
User Req: Required
Max Use: >1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	N401	19	City Name	AN	2/30
M	O	N402	156	State or Province Code	ID	2/2
M	O	N403	116	Postal Code	ID	3/15
M	O	N404	26	Country Code	ID	2/3

PO1 Baseline Item Data

PO1

Position: 010
Loop: PO1
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	PO101	350	Assigned Identification	AN	1/20
M	O	PO102	330	Quantity Ordered	R	1/15
M	O	PO103	355	Unit or Basis for Measurement Code	ID	2/2
				EA Each		
M	O	PO104	212	Unit Price	R	1/17
O	O	PO105	639	Basis of Unit Price Code	ID	2/2
				TE Contract Price per Each		
M	O	PO106	235	Product/Service ID Qualifier	ID	2/2
				VN Vendor's (Seller's) Item Number		
X	O	PO107	234	Product/Service ID	AN	1/48
O	O	PO108	235	Product/Service ID Qualifier	ID	2/2
				IN Buyer's Item Number		
X	O	PO109	234	Product/Service ID	AN	1/48
O	O	PO110	235	Product/Service ID Qualifier	ID	2/2
				UP U.P.C. Consumer Package Code (1-5-5-1)		
X	O	PO111	234	Product/Service ID	AN	1/48

CTP Pricing Information

CTP

Position: 040
Loop: CTP
Level: Detail
User Req: Optional
Max Use: 1
Notes: RTL (Retail Price) - this will be the price paid by the end customer. Will be used on the packing slip if mandatory.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
O	O	CTP02	236	Price Identifier Code	ID	3/3
				RTL Retail		
X	O	CTP03	212	Unit Price	R	1/17

PID Product/Item Description

PID

Position: 050
Loop: PID
Level: Detail
User Req: Optional
Max Use: 1
Notes: 08 (Product) - General Product description. Will be used on the packing slip if mandatory.

SIZ (Sizing) - Size attribute of the product. Will be used on the packing slip if mandatory.

35 (Color) - Color attribute of the product. Will be used on the packing slip if mandatory.

ZZ (Mutually Defined) - Any additional product attributes will be submitted here

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
O	M	PID01	349	Item Description Type		ID	1/1
				F	Free-form		
O	O	PID02	750	Product/Process Characteristic Code		ID	2/3
				08	Product		
				35	Color		
				ZZ	Mutually Defined		
				SIZ	Sizing		
X	O	PID05	352	Description		AN	1/80

PO4 Item Physical Details

PO4

Position: 090
Loop: PO1
Level: Detail
User Req: Optional
Max Use: 1
Notes: PO406 (Weight) - Weight of 1 unit of product

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
O	O	PO406	384	Gross Weight per Pack	R	1/9
O	O	PO407	355	Unit or Basis for Measurement Code	ID	2/2
				LB Pound		

REF Reference Identification

REF

Position: 100
Loop: PO1
Level: Detail
User Req: Optional
Max Use: 1
Notes: ZZ (Mutually Defined) - will be used to indicate gift wrap. "1" will be entered in REF02 to indicate the wrapping.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	REF01	128	Reference Identification Qualifier	ID	2/3
				ZZ Mutually Defined		
X	O	REF02	127	Reference Identification	AN	1/30

SAC Service, Promotion, Allowance, or Charge Information

SAC

Position: 130
Loop: SAC
Level: Detail
User Req: Optional
Max Use: 1
Notes: A (Allowance) = used to indicate an allowance to be applied to the purchase order total.

C (Charge) = used to indicate a charge to be applied to the purchase order total.

N (No Allowance or Charge) = used to show the end customer's charges or allowances. These will typically be used on the packing slip.

**C310 (Discount) will be the only code using "A" (Allowance) in SAC01. **ZZZZ (Mutually Defined) will be used as a miscellaneous charge

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	SAC01	248	Allowance or Charge Indicator		ID	1/1
				A	Allowance		
				N	No Allowance or Charge		
				C	Charge		
M	O	SAC02	1300	Service, Promotion, Allowance, or Charge Code		ID	4/4
				G821	Shipping		
				ZZZZ	Mutually Defined		
				C310	Discount		
				H850	Tax		
X	O	SAC05	610	Amount		N2	1/15

N9 Reference Identification

N9

Position: 330
Loop: N9
Level: Detail
User Req: Optional
Max Use: 1
Notes: N902 (Reference Identification) - "Special Instructions" will be entered here to identify that there are special customizations or notes required for the product. These notes will be entered in the MSG segment.

N902 (Reference Identification) - "GFT" will be submitted to identify that an item level gift message will be supplied in the MSG segment.

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	N901	128	Reference Identification Qualifier		ID	2/3
				ZZ	Mutually Defined		
				L1	Letters or Notes		
X	O	N902	127	Reference Identification		AN	1/30

MSG Message Text

MSG

Position: 340
Loop: N9
Level: Detail
User Req: Optional
Max Use: 1
Notes: MSG01 (Message Text) - Free form text describing special notes or customizations for the product.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	MSG01	933	Free-Form Message Text	AN	1/264

CTT Transaction Totals

CTT

Position: 010
Loop: CTT
Level: Summary
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	CTT01	354	Number of Line Items	N0	1/6

SE Transaction Set Trailer

SE

Position: 030
Loop:
Level: Summary
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	SE01	96	Number of Included Segments	N0	1/10
M	M	SE02	329	Transaction Set Control Number	AN	4/9