ZAGENO

SUPPLIER GUIDE · ORDER INTEGRATION

EDI 856 ship notice

ANSI X12 version 4010: every segment and element of the ship notice you send us.

This specification lists each segment and element of the 856, 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

You send this document to ZAGENO.

SENDER

You

02 Standard

X12 version 4010

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

FUNCTIONAL GROUP

SH

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.

856 Ship Notice/Manifest

Functional Group = SH

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	BSN	Beginning Segment for Ship Notice

Detail

USER REQ	REQ DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
				LOOP HL (Shipment)	**Max: 1** **Required**
M	M	1	010	HL	Hierarchical Level
M	O	1	120	TD5	Carrier Details (Routing Sequence/Transit Time)
O	O	1	150	REF	Reference Identification
M	O	1	200	DTM	Date/Time Reference
				LOOP N1	**Max: 200** **Optional**
M	M	1	220	N1	Name
M	O	1	240	N3	Address Information
M	O	1	250	N4	Geographic Location
O	O	1	270	PER	Administrative Communications Contact
				LOOP HL (Order)	**Max: 1** **Required**
M	M	1	010	HL	Hierarchical Level
M	O	1	050	PRF	Purchase Order Reference
				LOOP HL (Tare)	**Max: 200000** **Required**
M	M	1	010	HL	Hierarchical Level
O	O	1	110	TD1	Carrier Details (Quantity and Weight)
O	O	1	150	REF	Reference Identification
O	O	1	190	MAN	Marks and Numbers
				LOOP HL (Pack)	**Max: 200000** **Required**
M	M	1	010	HL	Hierarchical Level
M	O	1	060	PO4	Item Physical Details
M	O	1	110	TD1	Carrier Details (Quantity and Weight)

M	O	1	190	MAN	Marks and Numbers
				LOOP HL (Item)	**Max: 200000** **Required**
M	M	1	010	HL	Hierarchical Level
M	O	1	020	LIN	Item Identification
M	O	1	030	SN1	Item Detail (Shipment)
O	O	3	070	PID	Product/Item Description

Summary

USER REQ	REQ DES.	MAX USE	POS NO.	SEGMENT ID	SEGMENT NAME
M	O	1	010	CTT	Transaction Totals
M	M	1	020	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

BSN Beginning Segment for Ship Notice

BSN

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	BSN01	353	Transaction Set Purpose Code	ID	2/2
M	M	BSN02	396	Shipment Identification	AN	2/30
M	M	BSN03	373	Date	DT	8/8
O	M	BSN04	337	Time	TM	4/8
M	O	BSN05	1005	Hierarchical Structure Code	ID	4/4
				0001 Shipment, Order, Packaging, Item		

HL Hierarchical Level

HL

Position: 010
Loop: HL (Shipment)
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	HL01	628	Hierarchical ID Number	AN	1/12
M	M	HL03	735	Hierarchical Level Code	ID	1/2
				S Shipment		

TD5 Carrier Details (Routing Sequence/Transit Time)

TD5

Position: 120
Loop: HL (Shipment)
Level: Detail
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.

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	TD501	133	Routing Sequence Code		ID	1/2
				B	Origin/Delivery Carrier (Any Mode)		
O	O	TD502	66	Identification Code Qualifier		ID	1/2
				2	Standard Carrier Alpha Code (SCAC)		
X	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
				CG	Ground		
				ND	Next Day Air		
				ON	Overnight		
				SA	Same Day		

REF Reference Identification

REF

Position: 150
Loop: HL (Shipment)
Level: Detail
User Req: Optional
Max Use: 1
Notes: CN (Carrier Reference/PRO Number) - If your shipment has a PRO number, please enter it here. This field is optional.

BM (Bill of Lading) - the bill of lading number provided by your carrier. This field is optional.

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
				CN	Carrier's Reference Number (PRO/Invoice)		
				BM	Bill of Lading Number		
X	O	REF02	127	Reference Identification		AN	1/30

DTM Date/Time Reference

DTM

Position: 200
Loop: HL (Shipment)
Level: Detail
User Req: Required
Max Use: 1
Notes: 011 (Shipped) - Date the shipment is getting picked up. This field is required.

067 (Current Schedule Delivery) - Date the shipment is expected to be delivered. This field is required.

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
				011	Shipped		
				067	Current Schedule Delivery		
X	O	DTM02	373	Date		DT	8/8

N1 Name

N1

Position: 220
Loop: N1 (Shipment)
Level: Detail
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
				SF	Ship From		
X	O	N102	93	Name		AN	1/60
O	O	N103	66	Identification Code Qualifier		ID	1/2
				93	Code assigned by the organization originating the transaction set		
X	O	N104	67	Identification Code		AN	2/80

N3 Address Information

N3

Position: 240
Loop: N1 (Shipment)
Level: Detail
User Req: Required
Max Use: 1

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: 250
Loop: N1 (Shipment)
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	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
O	O	N404	26	Country Code	ID	2/3

PER Administrative Communications Contact

PER

Position: 270
Loop: N1 (Shipment)
Level: Detail
User Req: Optional
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	PER01	366	Contact Function Code		ID	2/2
				IC	Information Contact		
X	O	PER02	93	Name		AN	1/60
O	O	PER03	365	Communication Number Qualifier		ID	2/2
				EM	Electronic Mail		
X	O	PER04	364	Communication Number		AN	1/80
O	O	PER05	365	Communication Number Qualifier		ID	2/2
				TE	Telephone		
X	O	PER06	364	Communication Number		AN	1/80

HL Hierarchical Level

HL

Position: 010
Loop: HL (Order)
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	HL01	628	Hierarchical ID Number	AN	1/12
M	O	HL02	734	Hierarchical Parent ID Number	AN	1/12
M	M	HL03	735	Hierarchical Level Code	ID	1/2
				O Order		

PRF Purchase Order Reference

PRF

Position: 050
Loop: HL (Order)
Level: Detail
User Req: Required
Max Use: 1
Notes: PRF01 (Purchase Order Number) - this is the same number that was sent on the 850. This will always need to match.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	PRF01	324	Purchase Order Number	AN	1/22

HL Hierarchical Level

HL

Position: 010
Loop: HL (Tare)
Level: Detail
User Req: Required
Max Use: 1
Notes: This level will be used only to specify pallet. If you are not sending pallets, please ignore this level.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	HL01	628	Hierarchical ID Number	AN	1/12
M	O	HL02	734	Hierarchical Parent ID Number	AN	1/12
M	M	HL03	735	Hierarchical Level Code	ID	1/2
				T Shipping Tare		

TD1 Carrier Details (Quantity and Weight)

TD1

Position: 110
Loop: HL (Tare)
Level: Detail
User Req: Optional
Max Use: 1
Notes: TD101 (Packaging Code) - PLT will always be used to specify that this is a pallet.

TD102 (Lading Quantity) - Total number of cartons (Pack Level) that are on the pallet.

TD107 (Weight) - Gross weight of the pallet.

TD109 (Volume) - total volume measurement of the pallet.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	TD101	103	Packaging Code PLT will always be used to specify that this is a pallet.	AN	3/5
O	O	TD102	80	Lading Quantity	N0	1/7
O	O	TD106	187	Weight Qualifier	ID	1/2
				G Gross Weight		
O	O	TD107	81	Weight	R	1/10
O	O	TD108	355	Unit or Basis for Measurement Code	ID	2/2
				LB Pound		
O	O	TD109	183	Volume	R	1/8
O	O	TD110	355	Unit or Basis for Measurement Code	ID	2/2
				IN Inch		

REF Reference Identification

REF

Position: 150
Loop: HL (Tare)
Level: Detail
User Req: Optional
Max Use: 1
Notes: ZH (Carrier Assigned Reference Number) - This will be a tracking number for the specific pallet.

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
				ZH	Carrier Assigned Reference Number		
X	O	REF02	127	Reference Identification		AN	1/30

MAN Marks and Numbers

MAN

Position: 190
Loop: HL (Tare)
Level: Detail
User Req: Optional
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	MAN01	88	Marks and Numbers Qualifier		ID	1/2
				GM	SSCC-18 and Application Identifier		
X	M	MAN02	87	Marks and Numbers		AN	1/48

HL Hierarchical Level

HL

Position: 010
Loop: HL (Pack)
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	HL01	628	Hierarchical ID Number	AN	1/12
M	O	HL02	734	Hierarchical Parent ID Number	AN	1/12
M	M	HL03	735	Hierarchical Level Code	ID	1/2
				P Pack		

PO4 Item Physical Details

PO4

Position: 060
Loop: HL (Pack)
Level: Detail
User Req: Required
Max Use: 1
Notes: Dimensions for each carton/pack.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	PO410	82	Length	R	1/8
M	O	PO411	189	Width	R	1/8
M	O	PO412	65	Height	R	1/8
X	O	PO413	355	Unit or Basis for Measurement Code	ID	2/2
				IN Inch		

TD1 Carrier Details (Quantity and Weight)

TD1

Position: 110
Loop: HL (Pack)
Level: Detail
User Req: Required
Max Use: 1
Notes: TD101 (Packaging Code) - CTN will always be used to specify that this is a carton or box.

TD102 (Lading Quantity) - Total number of Items (Item Level) that are in the carton or box.

TD107 (Weight) - Gross weight of the carton or box.

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	O	TD101	103	Packaging Code	AN	3/5
				CTN		
O	O	TD102	80	Lading Quantity	N0	1/7
M	O	TD106	187	Weight Qualifier	ID	1/2
				G Gross Weight		
M	O	TD107	81	Weight	R	1/10
M	O	TD108	355	Unit or Basis for Measurement Code	ID	2/2
				LB Pound		

MAN Marks and Numbers

MAN

Position: 190
Loop: HL (Pack)
Level: Detail
User Req: Required
Max Use: 1
Notes: CP (Carrier-Assigned Package ID Number) - This is the tracking number assigned by your carrier for the carton or box shipment.

GM (SSCC-18 and Application Identifier) - This needs to be a GS1 formatted SSCC-18 code and will need to match the label that is being put on the physical carton or box.

**CP is always required for dropship. GM will only be required for direct to store or replenishment orders.

User Req	Req Des.	Ref. Des.	Data Element	Element Name		Data Type	Min/Max Len.
M	M	MAN01	88	Marks and Numbers Qualifier		ID	1/2
				CP	Carrier-Assigned Package ID Number		
				GM	SSCC-18 and Application Identifier		
M	M	MAN02	87	Marks and Numbers		AN	1/48

HL Hierarchical Level

HL

Position: 010
Loop: HL (Item)
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	HL01	628	Hierarchical ID Number	AN	1/12
M	O	HL02	734	Hierarchical Parent ID Number	AN	1/12
M	M	HL03	735	Hierarchical Level Code	ID	1/2
				I Item		

LIN Item Identification

LIN

Position: 020
Loop: HL (Item)
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	LIN01	350	Assigned Identification		AN	1/20
M	M	LIN02	235	Product/Service ID Qualifier		ID	2/2
				VN	Vendor's (Seller's) Item Number		
M	M	LIN03	234	Product/Service ID		AN	1/48
O	O	LIN04	235	Product/Service ID Qualifier		ID	2/2
				IN	Buyer's Item Number		
X	O	LIN05	234	Product/Service ID		AN	1/48
O	O	LIN06	235	Product/Service ID Qualifier		ID	2/2
				UP	U.P.C. Consumer Package Code (1-5-5-1)		
X	O	LIN07	234	Product/Service ID		AN	1/48

SN1 Item Detail (Shipment)

SN1

Position: 030
Loop: HL (Item)
Level: Detail
User Req: Required
Max Use: 1

User Req	Req Des.	Ref. Des.	Data Element	Element Name	Data Type	Min/Max Len.
M	M	SN102	382	Number of Units Shipped	R	1/10
M	M	SN103	355	Unit or Basis for Measurement Code	ID	2/2
				EA Each		

PID Product/Item Description

PID

Position: 070
Loop: HL (Item)
Level: Detail
User Req: Optional
Max Use: 3

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

CTT Transaction Totals

CTT

Position: 010
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	CTT01	354	Number of Line Items	N0	1/6

SE Transaction Set Trailer

SE

Position: 020
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