



EDI Implementation Guide

Advance Ship Notices

VICS 856
Version 4010

BOB'S STORES EDI PROGRAM

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BOB'S STORES EDI PROGRAM

Introduction

The EDI process as it pertains to Advance Ship Notices complies to the Voluntary Inter-Industry Communication Standards (VICS). This documentation was prepared using the UCC publication "Retail Industry Conventions and Guidelines for Electronic Data Interchange". The information contained here has been excerpted from this manual. We have only identified those segments and elements used by our process. For further information on this publication, contact:

Uniform Code Council, Inc.
8163 Old Yankee Road, Suite J
Dayton, OH 45458
(513) 435-3870.

Use of EDI Advance Ship Notices

Bob's Stores requires EDI Advance Ship Notices (ASN) to assist us gain accuracy with the shipments from our suppliers. Bob's Stores management believes the benefits of EDI must both support the retailer and the supplier. The current direction of our company is to receive all Advance Ship Notices in an electronic format using EDI. We would like to stress in order to achieve the full benefit of EDI, this information should be integrated into both Bob's Stores and our trading partners systems. This will permit a more rapid form of communication in a much more accurate method.

The accuracy of the ASN is critical to Bob's Stores. This information is utilized to plan receipts into the distribution center as well as allocations to the stores. To guarantee success of our program, the advance ship notices must be 100 percent accurate 100 percent of the time. This electronic information must arrive before the truck arrives at the distribution center. If your company is in close proximity to our distribution center. please contact the EDI Coordinator for special instructions.

All Advance Ship Notices received via EDI are done so using the Universal Product Code (U. P. C.). In order to assist us in capturing this information correctly Bob's Stores requests our trading partners to subscribe to a third party electronic catalog service. Currently Bob's Stores subscribes to the Quick Response Services (QRS). Below is the contact information for this service provider. If our company chooses not to subscribe to this service please contact the EDI Coordinator for special instructions.

Quick Response Services
1400 Marina Way South
Richmond, CA 94804
(800) UPC-TALK

At this time Bob's Stores utilizes a Value Added Network (VAN) for EDI communications. We receive and send all EDI data to the Sterling Ordernet network. This process occurs at 12:00 p.m. and 6:00 p.m. EST. Sterling does interconnect with several other VAN's. To ensure connectivity please contact your provider.

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About this Document

The contents area of the mapping diagrams contain different notations. Any numbers or capital letters are the actual contents of the data elements. Any value in lower case is a simple description of the information. Anywhere a date is required the format should be century, year, month and day two digits for each. Any element requiring a time must be in the hour and minute format two digits for each. Any element containing the description numeric must only contain numbers. Any alpha-numeric or text description may have any standard character in it. Any element with the description "real number" requires the decimal in it's proper place. In cases where this value is a whole number (no decimal), the decimal point is not required. This document uses the "*" as a separator and "|" as a terminator. These are only for example purchases only. The standards recommend usage of the "bell" character for the element separator. This is represented by the hexadecimal value "2F" in EBCDIC or hexadecimal value "2A" in ACSII. The standards recommend NEW LINE, EBCDIC hexadecimal value "15" or CR hexadecimal value "0D" in ASCII. Any value may be used so long as it is unique and does not appear anywhere in the envelope.

Version Migration

Bob's Stores EDI program complies to the VICS standards for version migration. Our plans at this time are to adhere to version 004010VICS.

Bob's Stores EDI Contact

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Bob's Stores 160 Corporate Court
Meriden, CT, 06450-8313
Phone: (203) 235-5775 XT 399
Fax: (203) 238-2519
e-mail: mchristian@bobstores.com

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Implementation Procedures

1. Receive Approval from the traffic department at Bob's Stores.
2. Acquire documentation (mapping) from Bob's Stores contact EDI.
3. Verify system for data integrity
4. Supply Bob's Stores EDI with contact information. This should include:
 - a) primary contact name and phone number
 - b) alternate contact name and phone number
 - c) address
 - d) Value Added Network (VAN) used
 - e) EDI Communication ID
 - f) Version of standards
5. Verify connectivity
6. Begin testing phase. Please insure the following
 - a) Transmission is designated as a test - (element ISA15 contains the value "T")
 - b) Contact Bob's Stores EDI Administrator to confirm receipt of transmission.
 - c) Test will be a simulation of a previous shipment. Please supply Bob's Stores with the packing slips for the shipment.
 - d) Bob's Stores EDI Administrator will verify ASN and contact the sender with the results.
 - e) Receive and process the test functional acknowledgment from Bob's Stores.
 - f) Notify Bob's Stores EDI of the successful receipt and reconciliation of the functional acknowledgment.
7. Review test results with Allocations, merchandising, EDI and traffic.
8. Correct any errors if they occur. If so return to Step 6
9. Migrate to production
 - a) Transmission is designated as a production - (element ISA15 contains the value "P")
 - b) Contact Bob's Stores EDI Administrator to confirm receipt of first production transmission only.
 - c) Receive and reconcile the Functional Acknowledgment (FA 997) sent from Bob's Storeswithin 24 hours after communication of the Advance Ship Notice.

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ISA Segment - Interchange Control Header

Element	Element Name	Length	Contents	Notes
ISA		3	ISA	Segment Code
ISA01	Authorization Information Qualifier	2	00	No information present
Separator		1	*	
ISA02	Authorization Information	10	spaces	No information present
Separator		1	*	
ISA03	Security Information Qualifier	2	00	No information present
Separator		1	*	
ISA04	Security Information	10	spaces	No information present
Separator		1	*	
ISA05	Interchange ID Qualifier	2	01 02 08 12	Duns Number Standard Carrier Alpha Code UCC EDI Comm ID Phone Number Qualifies the value found in ISA06
Separator		1	*	
ISA06	Interchange Sender ID	15		Duns, UCC Comm ID, Standard Carrier Alpha Code or phone number as specified by ISA07. This should be the suppliers communication ID.
Separator		1	*	
ISA07	Interchange ID Qualifier	2	01	Duns Number Qualifies the value found in ISA08
Separator		1	*	
ISA08	Interchange Receiver ID	15	054093364	Bob's Stores Duns number used for communication ID.
Separator		1	*	

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ISA Segment - Interchange Control Header (continued)

Element	Element Name	Length	Contents	Notes
ISA09	Interchange Date	6	YYMMDD	Date Interchange was created by the sender
Separator		1	*	
ISA10	Interchange Time	4	HHMM	Time interchange was created by the senders system
Separator		1	*	
ISA11	Interchange Control Standards Identifier	1	U	U. S. EDI community of ASC X12, TDCC and UCS
Separator		1	*	
ISA12	Interchange Control Version Number	5	00401	Current interchange version ID
Separator		1	*	
ISA13	Interchange Control Number	9		Number sequentially assigned by trading partner to identify the envelope sent. Must match IEA02
Separator		1	*	
ISA14	Acknowledgment Requested	1	0	No Acknowledgment Requested. Retail industry is not using transmission ackn. This is not the same as Functional Group Acknowledgments.
Separator		1	*	
ISA15	Test Indicator	1	T or P	Test or Production
Separator		1	*	
ISA16	Sub-element Separator	1	>	
Terminator		1		Marking end of segment

GS Segment - Functional Group Header

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Element	Element Name	Length	Contents	Notes
GS		2	GS	Segment Code
Separator		1	*	
GS01	Functional Identifier Code	2	SH	Ship Notice / Manifest
Separator		1	*	
GS02	Application Sender's Code	15		Code identifying the sender of the transmission. This will contain the Same value as ISA06. Max. Size 15 characters.
Separator		1	*	
GS03	Application Receivers Code	15	054093364	Duns Number for Bob's Stores. The same as found in ISA08
Separator		1	*	
GS04	Date	8	CCYYMMDD	Date the group was created by the sender's system
Separator		1	*	
GS05	Time	4	HHMM	Time the group was created by sender's system
Separator		1	*	
GS06	Group Control Number	9	Numeric	Number assigned to identify the group in the Envelope. Must match GE02.
Separator		1	*	
GS07	Responsible Agency Code	1	X	ASC X.12
Separator		1	*	
GS08	Version / Release / Industry Identifier Code	10	004010VICS	Version 4 Release 1 VICS
Terminator		1		Marking end of segment

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ST Segment - Transaction Set Header

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Element	Element Name	Length	Contents	Notes
ST		2	ST	Segment Code
Separator		1	*	
ST01	Transaction Set Identifier Code	3	856	X12.10 Ship Notice / Manifest
Separator		1	*	
ST02	Transaction Set Control Number	9	numeric	Number uniquely identifying the transaction in the Functional group. Maximum 9 digits. Must match SE02.
Terminator		1		Marks end of segment

BSN Segment - Beginning Segment for Ship Notice

Element	Element Name	Length	Contents	Notes
BSN		3	BSN	Segment Code
Separator		1	*	
BSN01	Transaction Set Purpose Code	2	00	Code identifying Purpose of Transaction Set. This value represents Original
Separator		1	*	
BSN02	Shipment Identification	30	alpha-numeric	Unique control number assign by the supplier used to uniquely identify the shipment. Max. length 30 characters
Separator		1	*	
BSN03	Date	8	CCYYMMDD	Date of ship notice creation.
Separator		1	*	
BSN04	Time	4	HHMM	Time of ship notice creation
Separator		1	*	
BSN05	Hierarchical Structure Code	4	0001	Code identifying the structure of this transaction set. The value 0001 represents the Pick and Pack structure of shipment, order, pack, item.
Terminator		1		Marks end of segment

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HL Segment - Hierarchical Level (Shipment)

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Element	Element Name	Length	Contents	Notes
HL		2	HL	Segment Code
Separator		1	*	
HL01	Hierarchical ID Number	12	1	A unique number assigned by the vendor to identify a section of the transaction. The first level is 1.
Separator		1	*	
HL02	Hierarchical Parent ID Number			Not Used
Separator		1	*	
HL03	Hierarchical Level Code	1	S	Code identifying the level in the structure. The value "S" represents Shipment level.
Terminator		1		Marks end of segment

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TD1 Segment - Carrier Details (Quantity and Weight)

Element	Element Name	Length	Contents	Notes
TD1		3	TD1	Segment Code

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Separator		1	*	
TD101	Packaging Code	5	see notes next page	Code identifying the type of packaging. Part 1 identifies the form of packaging and part 2 identifies the packaging material.
Separator		1	*	
TD102	Lading Quantity	7	numeric	Number of units in the lading quantity. The number of packages in the shipment as described by TD101.
Separator		1	*	
TD103	Commodity Code Qualifier			Not Used
Separator		1	*	
TD104	Commodity Code			Not Used
Separator		1	*	
TD105	Lading Description			Not Used
Separator		1	*	
TD106	Weight Qualifier	1	G	Code identifying the type of weight. The value "G" identifies Gross Weight.
Separator		1	*	
TD107	Weight	10	real number	Numeric value of the weight. This field requires the decimal point if not a whole number.
Separator		1	*	
TD108	Unit or Basis for Measurement code	2	see notes next page	Code describing the weight information found in TD107.
Terminator		1		Marks end of segment

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TD1 Segment - Carrier Details (Quantity and Weight) (continued)

Notes for TD1 Segment

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TD101

Codes used by Bob's Stores:

Part 1

BAG - Bag

CTN - Carton

PLT - Pallet

Part 2 of TD101 permits any value specified by the VICS EDI guidelines.

TD108

Codes used by Bob's Stores:

"50" - Actual Kilograms

"LB" - Pounds

TD5 Segment - Carrier Details (Routing Sequence / Transit Time)

Element	Element Name	Length	Contents	Notes
TD5		3	TD5	Segment Code
Separator		1	*	
TD501	Routing Sequence Code			Not Used
Separator		1	*	
TD502	Identification Code Qualifier	2	2	Code qualifying the value found in TD503. The value "2" specifies Standard Carrier Alpha Code (SCAC).
Separator		1	*	
TD503	Identification Code	4	alpha-numeric	Code identifying the carrier to whom the shipment was tendered. This element must contain the SCAC code for the carrier.
Terminator		1		Marks end of segment

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REF Segment - Reference Numbers

Element	Element Name	Length	Contents	Notes
REF		3	REF	Segment Code

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Separator		1	*	
REF01	Reference Number Qualifier	2	see note below	Code identifying the value found in REF02
Separator		1	*	
REF02	Reference Number	30		Reference Number ad defined by the value found in REF01
Terminator		1		Marks end of segment

Notes for REF Segment

REF01

Two values for REF01 are used by Bob's Stores. They are:

“BM” - Bill of Lading Number, assigned by the shipper

“CN” - Carrier's Reference Number (PRO/Invoice) assigned by the carrier

DTM Segment - Date / Time Reference

Element	Element Name	Length	Contents	Notes
DTM		3	DTM	Segment Code
Separator		1	*	
DTM01	Date / Time Qualifier	3	011	This value "011" defines DTM02 as containing the date of the shipment.
Separator		1	*	
DTM02	Date	8	CCYYMMDD	The date if the order is not shipped the order is considered canceled
Terminator		1		Marks end of segment

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N1 Segment - Name (Ship To)

Element	Element Name	Length	Contents	Notes
N1		1	N1	Segment Code

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Separator		1	*	
N101	Entity Identifier Code	3	ST	This value "ST" defines the entire N1 segment as representing the ship to location.
Separator		1	*	
N102	Name			Not Used
Separator		1	*	
N103	Identification Code Qualifier	2	92	This value "92" define N103 as containing the location number assigned by the buying organization.
Separator		1	*	
N104	Location Code	3	000	Number assigned to the Bob's Distribution Center
Terminator		1		Marks end of segment

Note: If the supplier is not capable of sending the value "000" as the ship to location number, please contact the EDI Administrator for special instructions.

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HL Segment - Hierarchical Level (Order)

Element	Element Name	Length	Contents	Notes
HL		2	HL	Segment Code

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Separator		1	*	
HL01	Hierarchical ID Number	12	1	A unique number assigned by the vendor to identify a section of the transaction. This number should be the next available number sequentially assigned.
Separator		1	*	
HL02	Hierarchical Parent ID Number	12		A unique number assigned by the vendor to identify a section of the transaction. This number should be the value of the next higher level (Shipment) in the transaction.
Separator		1	*	
HL03	Hierarchical Level Code	1	O	Code identifying the level in the structure. The value "O" represents Order level.
Terminator		1		Marks end of segment

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PRF Segment - Purchase Order Reference

Element	Element Name	Length	Contents	Notes
PRF		3	PRF	Segment Code

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Separator		1	*	
PRF01	Purchase Order Number	6	numeric	The purchase order number communicated by Bob's Store on the original purchase order transmission. Six digits in length.
Separator		1	*	
PRF02	Release Number			Not Used
Separator		1	*	
PRF03	Change Order Sequence Number			Not Used
Separator		1	*	
PRF04	Purchase Order Date	8	CCYYMMDD	Date assigned by Bob's Store to the original purchase order issued.
Terminator		1		Marks end of segment

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TD1 Segment - Carrier Details (Quantity and Weight) order level

Element	Element Name	Length	Contents	Notes
TD1		3	TD1	Segment Code

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Separator		1	*	
TD101	Packaging Code	5	see notes below	Code identifying the type of packaging. Part 1 identifies the form of packaging and part 2 identifies the packaging material.
Separator		1	*	
TD102	Lading Quantity	7	numeric	Number of units in the lading quantity. The number of packages in the shipment as described by TD101.
Terminator		1		Marks end of segment

Notes for TD1 Segment

TD101

Codes used by Bob's Stores:

Part 1

BAG - Bag

CTN - Carton

PLT - Pallet

Part 2 of TD101 permits any value specified by the VICS EDI guidelines.

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N1 Segment - Name (Buying Party)

Element	Element Name	Length	Contents	Notes
N1		2	N1	Segment Code

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Separator		1	*	
N101	Entity Identifier Code	2	BY	This value "BY" defines the entire N1 segment as representing the Buying Party (Purchaser)
Separator		1	*	
N102	Name			Not Used
Separator		1	*	
N103	Identification Code Qualifier	2	92	This value "92" define N103 as containing the location number assigned by the buying organization.
Separator		1	*	
N104	Location Code	3	see note below	Location number from original purchase order as the buying party "BY" N1 segment.
Terminator		1		Marks end of segment

Notes for N1 segment

The N104 must contain the BY information from the purchase order issued. This information may be found in the N104 code for bulk shipments or the appropriate SDQ element. It must match exactly what was sent in this field. If the supplier has difficulty with the location number "000" please contact the EDI Administrator for special instructions. See the Store Address Listing for all valid location numbers.

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HL Segment - Hierarchical Level (Item)

Element	Element Name	Length	Contents	Notes
HL		2	HL	Segment Code

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Separator		1	*	
HL01	Hierarchical ID Number	12	1	A unique number assigned by the vendor to identify a section of the transaction. This number should be the next available number sequentially assigned.
Separator		1	*	
HL02	Hierarchical Parent ID Number	12		A unique number assigned by the vendor to identify a section of the transaction. This number should be the value of the next higher level (Order) in the transaction.
Separator		1	*	
HL03	Hierarchical Level Code	1	I	Code identifying the level in the structure. The value "I" represents Item level.
Terminator		1		Marks end of segment

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LIN Segment - Item Identification

Element	Element Name	Length	Contents	Notes
LIN		3	LIN	Segment Code

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Separator		1	*	
LIN01	Assigned Identification	6	numeric	Unique value assigned to this line item to differentiate it from the others.
Separator		1	*	
LIN02	Product Service ID	2	UP or VA	Code qualifying the value found in element LIN07. The value "UP" denotes U. P. C. Consumer Package Code (1-5-5-1). The value "VA" represents Vendor Style Number.
Separator		1	*	
LIN03	Product ID	48	Alpha-numeric	U.P.C. Number or Vendor Style Number as specified by the LIN02 element.
Separator		1	*	
LIN04	Product Service ID	2	UP or VA	Code qualifying the value found in element LIN07. The value "UP" denotes U. P. C. Consumer Package Code (1-5-5-1). The value "VA" represents Vendor Style Number.
Separator		1	*	
LIN05	Product ID	48	Alpha-numeric	U.P.C. Number or Vendor Style Number as specified by the LIN04 element.
Terminator		1		

Notes for LIN Segment

The pairs of elements LIN02, LIN03 and LIN04, LIN05 may be in any order. If the supplier only chooses to send one of the pairs, the U.P.C. must be used.

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SN1 Segment - Item Detail (Shipment)

Element	Element Name	Length	Contents	Notes
SN1		3	SN1	Segment Code

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Separator		1	*	
SN101	Assigned Identification			Not Used
Separator		1	*	
SN102	Number of Units Shipped	10	Real Number	Numeric value of the units shipped by the supplier for the item specified in the LIN segment.
Separator		1	*	
SN103	Unit or Basis for Measurement Code	2	EA	Code specifying the definition of a unit in element SN102. The value "EA" denotes Each or selling units.
Terminator		1		Marks end of segment

CTT Segment - Transaction Totals

Element	Element Name	Length	Contents	Notes
CTT		3	CTT	Segment Code
Separator		1	*	
CTT01	Number of Line Items	6	numeric	This is a count of the number of HL segments. Max. length is 6.
Terminator		1		Marks end of segment

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SE Segment - Transaction Set Trailer

Element	Element Name	Length	Contents	Notes
SE		2	SE	Segment Code
Separator		1	*	

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SE01	Number of Included Segments	10	numeric	The number of segments found in the transaction set from the ST to SE inclusive.
Separator		1	*	
SE02	Transaction Set Control Number	9	numeric	Number uniquely identifying the transaction in the Functional group. Maximum 9 digits & must match ST02
Terminator		1		Marks end of segment

GE Segment - Functional Group Trailer

Element	Element Name	Length	Contents	Notes
GE		2	GE	Segment Code
Separator		1	*	
GE01	Number of Transaction Sets Included	6	numeric	The number of transaction set found in the functional group. The count of ST segments found in the group. Maximum 6 digits.
Separator		1	*	
GE02	Group Control Number	9	numeric	Number uniquely identifying the transaction in the Functional group. Maximum 9 digits & must match GS06
Terminator		1		Marks end of segment

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IEA Segment - Interchange Control Trailer

Element	Element Name	Length	Contents	Notes
IEA		3	IEA	Segment Code
Separator		1	*	

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IEA01	Number of Included Functional Groups	5	numeric	The number of functional groups found in the transmission. The count of GS segments found in the group. Maximum 5 digits.
Separator		1	*	
IEA02	Interchange Control Number	9	numeric	Number uniquely identifying the transaction in the Functional group. Must match ISA13.
Terminator		1		Marks end of segment

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Advance Ship Notice Guidelines

Currently Bob's Stores does not utilize pack level information. The same holds true for the UCC-128 Serialized Shipping Container Label. When this occurs, changes to the 856 Ship Notice / Manifest will have additional information added. The details of these changes will be communicated in the near future. If the supplier wishes to communicate this information, our

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process will only extract the necessary information. The carton labels and matching to the EDI transmission will take place nearer to this implementation.

Bob's Stores ASN process does not support the standard pack structure at this time. If a change to this becomes necessary, the appropriate documentation will be supplied.

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